

## Risk Factors Comparison 2025-03-18 to 2024-03-19 Form: 10-K

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The following is a summary of the principal risk factors that make an investment in our company speculative or risky, all of which are further described below in the section titled “ Risk Factors ” in Part I, Item 1A of this Report. This summary should be read in conjunction with the “ Risk Factors ” section and should not be relied upon as an exhaustive summary of the material risks facing our business. ~~Risks related to our business:~~ • Our Company experienced declines in revenue in recent fiscal years and may continue to experience further revenue decline in future periods; • Revenue growth and increase in the market share of our current product offerings ~~depends-~~ **depend** on the successful adoption of our Mezzanine™ product offerings with our customers, which requires sufficient sales, marketing, and product development funding; • We have a history of substantial net operating losses, and we may incur future net losses; • Our business activities may require additional financing that might not be obtainable on acceptable terms, if at all, which could have a material adverse effect on ~~its-~~ **our** financial condition, liquidity, and ~~its-~~ **our** ability to operate as a going concern in the future; • If we fail to achieve broad market acceptance on a timely basis, we will not be able to compete effectively, and we will likely experience continued declines in revenue and lower gross margins; • Product quality problems could lead to reduced revenue, gross margins, and higher net losses; • ~~If We depend upon the development of new products and services, and enhancements to existing products and services, and if we fail to predict and respond to emerging technological trends and customer-~~ **customers’** s-changing needs, our operating ~~result-~~ **results** may suffer; • **Our success depends on our ability to recruit and retain adequate engineering talent. • Our success is highly dependent on the evolution of our overall market and general economic conditions.** • Changes in industry structure and market conditions could lead to charges related to discontinuances of certain of our products or businesses, asset impairments, and workforce reductions or restructurings; • **We may be unable to realize intended efficiencies and benefits from our ongoing cost- saving initiatives, which may adversely affect our results of operations, financial condition, or our business. To operate more efficiently and control costs, we have undertaken cost- saving initiatives, which have included a cessation of R & D activities, workforce reductions, and other cost- reduction initiatives.- 1-** • If we were deemed to be an investment company under the Investment Company Act of 1940, as amended (the “ 1940 Act ”), applicable restrictions could make it impractical for us to continue our business as contemplated and could have a material adverse effect on our business, financial condition, and results of operations. • Any future disposition of assets and business could have material and adverse effects on business, financial conditions, and operations if not consummated in a timely manner. • The markets in which we compete are intensely competitive, which could adversely affect our achievement of revenue growth; • **Industry consolidation may lead to increased competition and may harm our operating results.** • We rely on a limited number of customers for a significant portion of our revenue, and the loss of any one of those customers, or several of our smaller customers, could materially harm our business; • **Any system failures or interruptions may cause a loss of customers.** • There is limited market awareness of our services; • ~~If we do-~~ **Our ability to sell our solutions is dependent in part on ease of use and the quality of our technical support, and any failure to offer high- quality technical support would harm our business, operating results, and financial condition. • We rely on third- party software that may be difficult to replace or may not effectively compose, perform adequately. • We depend upon our network providers and facilities structure infrastructure and compensate- • **Our network depends upon telecommunications carriers who could limit our- or sales team-** deny us access to focus their network or fail to perform, which would have a material adverse effect on the end customers and activities that will primarily drive our growth strategy, our business, will be adversely affected; • A significant portion of our sales are through distribution channels, including both System and audio -visual (“ AV ”) integrators, which have been difficult to project and particularly volatile during the pandemic. Weakness in orders from our distribution channels may harm our operating results and financial condition; • **Disruption of or changes in our distribution model could harm our sales and margins.** • Inventory management relating to our sales to our two- tier distribution channel is complex, and excess inventory may harm our gross margins; • We may experience material disconnections and / or reductions in the prices of our services and may not be able to replace the loss of revenue; • **We are exposed to the credit and other counterparty risk of our customers in the ordinary course of our business. • Failure to retain and recruit key personnel would harm our ability to meet key objectives.** • Supply chain issues, including financial problems of contract manufacturers or component suppliers, or a shortage of adequate component supply or manufacturing capacity that ~~increase-~~ **increases** our costs or ~~cause-~~ **causes** a delay in our ability to fulfill orders, could have an adverse impact on our business and operating results, and our failure to estimate customer demand properly may result in excess or obsolete component supply, which could adversely affect our gross margins; • **We have made and may continue to make acquisitions that could disrupt our operations and harm our operating results. • If our actual liability for sales and use taxes and federal regulatory fees is different from our accrued liability, it could have a material impact on our financial condition. • The terms of the Series F Preferred Stock could limit our growth and our ability to finance our operations, fund our capital needs, respond to changing conditions, and engage in other business activities that may be in our best interests. • Cyber - 2-** attacks, data incidents, malware, or an intrusion into our physical security systems may disrupt our business operations, result in the loss of critical and confidential information, harm our operating results and financial condition, and damage our reputation ; and cyber - ~~Risks-~~ attacks or data incidents on our customers’ networks, or in cloud- based services provided by or enabled by us, could result in claims of liability against us, damage our reputation or otherwise harm our business. • **Vulnerabilities and critical security defects, prioritization decisions regarding remedying vulnerabilities or security****

defects, failure of third- party providers to own or remedy vulnerabilities or security defects, or customers not deploying security releases or deciding not to upgrade products, services, or solutions could result in claims of liability against us, damage our reputation or otherwise harm our business. • Our Common Stock business, operating results, and financial condition could be materially harmed by regulatory uncertainty applicable to our products and services. • Our network could fail, which could negatively impact our revenues. • Our failure to obtain or maintain the right to use certain intellectual property may negatively affect our business. • We may not be able to protect the rights to or enforce our intellectual property. • A number of our solutions incorporate software provided under open- source licenses, which may restrict or impose certain obligations on how we use or distribute our solutions or subject us to various risks and challenges, which could result in increased development expenses, delays, or disruptions to the release or distribution of those solutions, inability to protect our intellectual property rights and increased competition. • Our stock price has fluctuated in the past, has recently been volatile, and may be volatile in the future, and as a result, investors in our common stock could incur substantial losses; • The issuance of the securities in the March 2023 private placement significantly diluted the ownership interest of the existing holders of our common stock, and the market price of our common stock has declined significantly as a result of sales of such securities into the public market by the private placement investors and subsequent investors or the perception that such sales may occur; • Penny stock regulations may impose certain restrictions on the marketability of our securities; • Future operating results may vary from quarter to quarter, and we may fail to meet the expectations of securities analysts and investors at any given time; • Sales of substantial amounts of common stock in the public market, or the perception that such sales may occur, could reduce the market price of our common stock and make it more difficult for us and our stockholders to sell our equity securities in the future. • The issuance of the securities in the March 2023 private placement significantly diluted the ownership interest of the existing holders of our common stock, and the market price of our common stock has declined significantly as a result of sales of such securities into the public market by the private placement investors and subsequent investors or the perception that such sales may occur; • We might need to raise additional capital by issuing securities or debt, which may cause significant dilution to our stockholders and restrict our operations; and • Our charter documents and Delaware law could discourage takeover attempts and lead to management entrenchment. • We could fail to satisfy the standards to maintain our listing on a stock exchange. • We incur significant accounting and administrative costs as a publicly traded corporation that impact our financial condition. • Our cash and cash equivalents could be adversely affected if the financial institutions in which we hold our cash and cash equivalents fail.- 2-

PART I Item 1. Business Overview We are a provider of patented multi- stream collaboration products and managed services for network solutions and video collaboration and network solutions. Mezzanine™ Product Offerings Our flagship product is called Mezzanine™, a family of turn- key products that enable dynamic and immersive visual collaboration across multi- users, multi- screens, multi- devices, and multi- locations. Mezzanine™ allows multiple people to share, control, and arrange content simultaneously, from any location, enabling all participants to see the same content in its entirety at the same time in identical formats, resulting in dramatic enhancements to both in- room and virtual videoconference presentations. Applications include video telepresence, laptop and application sharing, whiteboard sharing, and slides. Spatial input allows content to be spread across screens, spanning different walls, scalable to an arbitrary number of displays, and interaction--- interact with our proprietary wand device. Mezzanine™ substantially enhances day- to- day virtual meetings with technology that accelerates decision making, improves communication, and increases productivity. Mezzanine™ scales up to support the most immersive and commanding innovation centers, across to link labs, conference spaces, and situation rooms; and down for the smallest work groups. Mezzanine™'s digital collaboration platform can be sold as delivered systems in various configurations for small teams to total immersion experiences. The family includes the 200 Series (two display screen), 300 Series (three screen), and 600 Series (six screen). We also sell maintenance and support contracts related to Mezzanine™. Historically, customers have used Mezzanine™ products in traditional office and operating center environments such as conference rooms or other presentation spaces. As discussed below, sales of our Mezzanine™ products have been adversely affected by commercial response to the COVID-19 pandemic and its aftermath. Like many technology companies in recent months, we will continue to monitor and manage our costs relative to demand with the goal of growing the Company's revenue in the future. To the extent we believe new investments in product development, marketing, or sales are warranted as a result of changes in market demand, we believe additional capital will be required to fund those efforts and our ongoing operations. Today, ideation and content collaboration are gaining growing importance in both physical and virtual meeting environments to support collective brainstorming and expedite decision making. Visualization of ideas can happen more naturally when people expand the collaborative canvas from sharing a single content stream among many participants to empowering an entire team, such as through our Mezzanine™ multi- stream solutions. While historically focused on in- room collaboration, the need for next- generation virtual collaboration solutions is on the rise, attributed to the confluence of several key trends that influence the way individuals collaborate. Key capabilities and features of Mezzanine™ include: • Share Work With Others. Easily present work by plugging in or sharing wirelessly with the Mezzanine™ app. Share up to 10 connected devices, including laptops, in- room PCs, and digital media players. Upload images and slides to present and explore content alongside live video streams. • Capture Ideas Instantly. Save snapshots of on- screen content to make sure good ideas don't get lost. Annotate content in the Mezzanine™ app and share thoughts with others. Download meeting materials to reference or share after the meeting. • Visualize Options and Outcomes. Mezzanine™ content spans multiple displays, so the information needed is in sight and on hand. Share more content, see more detail, and improve visual storytelling. Arrange content for side- by- side comparisons and cross- referencing. • Unite Distributed Teams. Connect teams and get everyone on the same page. Meeting participants share the same visual workspace so they can perform like they are in the same room. Everyone in every location can add content and steer the conversation, increasing the opportunity and motivation to participate. • Connect with Ease. Mezzanine™ works seamlessly with existing video conferencing and

collaboration solutions so teams can join meetings with the tools they use every day. Integration with Cisco and Polycom systems **simplify** connecting rooms with voice, video, and content. • Orchestrate Content. Place content anywhere in the room from anywhere in the room with Mezzanine <sup>TM</sup> award-winning wands. Gestural interaction makes it easy to move and highlight content to focus the attention of the team. **Historically, customers have generally used Mezzanine <sup>TM</sup> products** We believe key drivers for demand include: • rapid growth of cloud-based unified communications (UC) services adoption and continuously increasing collaborative intensity in **traditional office and operating center environments** workplaces; • accelerating demand for low-cost video conferencing options such as USB-conference room **rooms or other presentation spaces. As discussed below, revenue declines** cameras and audio / video soundbars; • rising appetite among end-user organizations for content sharing as well as content collaboration capabilities including ideation, annotation, illustration, and coediting; • convergence of audio, video and content collaboration (as opposed to siloed applications and platforms) to improve employee productivity; • significant growth in the number of huddle rooms and flexible meeting spaces worldwide; • preference for Bring Your **our Mezzanine <sup>TM</sup> products** Own Device (BYOD) screen share in meeting spaces; and • growing number of distributed and remote workers. Today's knowledge workers are **primarily due** seeking optimal meeting spaces both in and out of the office that foster creativity, agility, innovation, and engagement. The trend towards ad-hoc and small group meetings has led to **lower demand** the creation of the huddle room concept, where workers can meet in a disruption-free setting. However, it is estimated that a small percentage of these spaces are truly 'full spectrum' collaboration enabled. Further, the penetration of stand-alone content sharing applications is significantly less than video penetration in large **largely a consequence of the commercial reactions** and huddle-sized meeting rooms. We believe as businesses continue to reopen from the COVID-19 pandemic **and its prolonged effects. We believe there will be COVID-19 pandemic fundamentally altered the way businesses consider the use of physical office spaces and, consequently, the** demand for **technologies** higher forms of engagement that combines robust video conferencing **enable in-person collaboration with within these spaces** enhanced content sharing as users adapt to more flexible workplace alternatives. **Our analysis indicates that the reduced demand for our Mezzanine <sup>TM</sup> products, particularly in the aftermath of COVID-19, reflects a broader reassessment among our customers regarding the necessity and investment in collaboration solutions tailored for traditional office environments. Continuation of This this combination focuses trend could cause further declines in our revenue for this business. Although we cannot presently quantify the future financial impacts of this trend, such impacts will likely continue to have a material adverse impact** on allaying customer apprehension with regards to how to cost **the Company's consolidated financial condition, results of operations, and cash flows.** **3** effectively pursue an expanded collaboration strategy without replacing their existing investments. **Managed Services for Video Collaboration** We provide a range of managed services for video collaboration, from automated to orchestrated, to simplify the user experience in an effort to drive adoption of video collaboration throughout our customers' enterprise. We deliver our services through a hybrid service platform or as a service layer on top of our customers' video infrastructure. We provide our customers with the following services to meet their videoconferencing needs: • Managed Videoconferencing is a "high-touch" concierge-based offering where....., and **service level agreements**. **Managed Services for Network** We provide our customers with network solutions that ensure reliable, high-quality, and secure traffic of video, data, and internet. Network services are offered to our customers on a subscription basis. Our network services business carries variable costs associated with the purchasing and reselling of this connectivity. We offer our customers the following networking solutions that can be tailored to each customer's needs: • Cloud Connect: Video <sup>TM</sup>: Allows our customers to outsource the management of their video traffic to us and provides the customer's office locations with a secure, dedicated video network connection to the Oblong Cloud for video communications. • Cloud Connect: Converge <sup>TM</sup>: Provides customized Multiprotocol Label Switching ("MPLS") solutions for customers who require a converged network. A converged network is an efficient network solution that combines the customer's voice, video, data, and Internet traffic over one or more common access circuits. We fully manage and prioritize traffic to ensure that video and other business-critical applications run smoothly. • Cloud Connect: Cross Connect <sup>TM</sup>: Allows the customer to leverage their existing carrier for the extension of a Layer 2 private line to our data center. **Sales and Marketing** **Managed Services for Video Collaboration** We use **provide a variety range** of marketing, sales, and support activities to generate and cultivate ongoing customer demand for our product offerings and managed services **for video collaboration, from automated to orchestrated, to simplify the user experience in an effort to drive the adoption of video collaboration throughout our customers' enterprise**. We have limited sales and marketing resources and deliver our services through a hybrid service platform or as a service layer on **top of our customers' video infrastructure. We provide our customers with the following services to meet their videoconferencing needs: • Managed Videoconferencing is a "high-touch" concierge-based offering where we currently have set up and manage customer videoconferences and webcasts. Our managed videoconferencing services are offered to our customers on either a small-usage basis or on a monthly subscription.** These services include call scheduling and launching and videoconference monitoring, support, and reporting. • Remote Service Management provides an overlay to enterprise information technology ("IT") and channel partner support organizations and provides 24 / 7 support and management of customer video environments. Our services are designed to align with a globally recognized set of best practices, Information Technology Infrastructure Library ("ITIL"), to standardize processes and communicate through a consistent set of terms with our customers and partners. We offer, on a monthly subscription basis, three tiers of Remote Service Management options, ranging from remote proactive automated monitoring to end-to-end management to complement the needs of IT support organizations (including 24x7 support desk, incident / problem / change management, site certifications, and service level agreements). **sales Sales team and Marketing** We sell globally through both direct customer sales and channel partners. **To preserve capital, the Company significantly reduced its investments in sales and marketing during the last several years. For the years ended December 31, 2024, and 2023, sales and marketing expenses were \$ 181, 000 and \$ 309, 000, respectively.** Customers We have a diverse customer base including Fortune 1000 companies. **The majority of our**

revenue for the years ended December 31, 2024, and 2023 was generated from direct sales, with small and medium enterprises across a wide range of industries including aerospace, consulting, executive search, broadcast media, legal, insurance, technology, financial services, education, healthcare, real estate, retail, construction, hospitality, and government, among others. We seek to establish and maintain long-term relationships with our customers. Many factors influence the remainder collaboration requirements of our customers. These include the size of the organization, number and types of technology systems, geographic location, and business applications deployed throughout the customer's network. Our customer base is not limited to any specific industry, geography, or market segment. A significant portion of our products and services are sold through our distribution channels, and the remainder is sold through direct sales. These Our distribution channels include systems integrators, channel partners, other resellers, and distributors. Sales to these service providers have been characterized by large and sporadic purchases and, in addition to longer sales cycles. Historically, we have seen fluctuations in our gross margins based on changes in the balance of our distribution channels. Major A significant portion of our revenue is generated from a limited number of customers are defined as direct. For the years ended December 31, 2024, and 2023, one major customer or channel partners that account accounted for more than 10 84.9 % and 55.9 % of the Company's total consolidated revenue. For the years ended December 31, 2023 respectively. The composition of our significant customers will vary from period to period, and 2022 we expect that most of our revenue will continue, for the foreseeable future, to come from a relatively small number of customers. Consequently, our financial results may fluctuate significantly from period to period based on the actions of one major or more significant customer customers accounted for approximately 56 % and 47 % of the Company's total consolidated revenue, respectively. - 5.4 - Competition The market for communication and collaboration technology services is competitive and rapidly changing. Certain features of our current Mezzanine™ product offerings compete in the communication and collaboration technologies market with products offered by Cisco WebEx, Zoom, LogMeIn, and GoToMeeting, along with bundled productivity solutions providers who offer limited content - sharing capabilities such as Microsoft Teams and Google G Suite. In the rapidly evolving "Ideation" market, certain elements of our application compete with Microsoft, Google, InFocus, Bluescape, Mersive, Barco, Nureva, and Prysm. With respect to our managed services for video collaboration, we primarily compete with managed services companies, videoconferencing equipment resellers, and telecommunication providers, including BT Conferencing, AT & T, Verizon, LogMeIn, Yorktel, ConvergeOne, and AVI-SPL. We also compete with companies that offer hosted videoconference bridging solutions, including Vidyo and Zoom. Lastly, the technology and software providers, including Cisco, LifeSize, Microsoft, and Polycom, are delivering competitive cloud-based videoconferencing and calling services. With the technology advancements over the past few years, including browser-based and mobile video, the options for video collaboration solutions and services are greater than ever before. With respect to our managed services for the network, we primarily compete with telecommunications carriers, including British Telecom, AT & T, Verizon, and Telus. Our competitors offer services similar to ours both on a bundled and unbundled basis, creating a highly competitive environment with pressure on the pricing of such services. Revenue attributable to our managed services described above has declined in recent years primarily due to the loss of customers to competition. We expect this trend to continue in the future for our managed services business. Intellectual Property The G-speak is the core technology platform for Mezzanine™ is called g-speak. It enables applications to be developed that run across multiple screens and multiple devices. Our customers use the platform to solve big data problems, to collaborate more effectively, and to go from viewing pixels on a single screen to interacting with pixels on every screen. Videoconferencing has traditionally presented challenges for the user by presenting a complex maze of systems and networks that must be navigated and closely managed. Although most of the business-quality video systems today are "standards-based," there are inherent interoperability problems between different vendors' video equipment, resulting in communication islands. Our suite of managed services for video collaboration can be accessed and utilized by customers regardless of their technology or network. Customers who purchase a Cisco, Polycom, Avaya, or LifeSize (Logitech) system, or use certain other third-party video communications software such as Microsoft, WebEx, or WebRTC, may all take advantage of our services regardless of their choice of network. Our services support all standard video signaling protocols, including SIP, H. 323, and Integrated Services Digital Network ("ISDN"), using infrastructure from a variety of manufacturers. Research and Development The Company incurred research and development expenses during During the years ended December 31, 2024, and 2023, the Company incurred research and 2022 development expenses of \$ 155,000 0.02 million and \$ 20,000 1.7 million, respectively, related to the development developing of features and enhancements to our Mezzanine™ product offerings. During late 2022, we ceased the majority of R & D activities as a cost savings measure. Employees As of December 31, 2023 2024, we had 21 7 total employees including 17 full-time employees. Our human capital resources objectives include, as applicable, identifying, recruiting, retaining, incentivizing, and integrating our existing and new employees, advisors, and consultants. Our compensation program is designed to attract, retain, and motivate highly qualified employees and executives and is comprised of a mix of competitive base salary, bonus, and equity compensation awards, as well as other employee benefits. Our employees are not covered by a collective bargaining agreement, and we consider our relations with our employees to be good. We are committed to diversity and inclusion as well as equitable pay within our workforce. In addition, the health and safety of our employees, customers, and communities are of primary concern to us. -5- Strategy In recent years, our Company has faced significant challenges, leading to declining revenues for both our Mezzanine™ product offerings and our Managed Services. These setbacks have prompted us to undertake a comprehensive review of our strategic direction with the aim of enhancing shareholder value through various means. Our exploration of strategic alternatives is diverse, encompassing the consideration of a range of transformative actions. These include the possibility of a business combination, where we might merge with or be acquired by another company; a -6- reverse merger, where a private company merges with us to become public without going through the traditional initial public offering process; or outright sale of the company. Each option is being carefully evaluated to ensure it aligns with our overarching goal of sustainable growth and value creation. Our strategy for growth is twofold: (i) we

aim to grow organically by expanding our market presence and increasing adoption of our products and services, and (ii) we are actively seeking inorganic growth opportunities through strategic partnerships or acquisitions. Specifically, we are interested in early-stage technology companies that are not just innovating but have also developed minimum viable products (MVPs) that have gained some measure of market acceptance. These companies may complement our existing offerings but ~~could~~ also open new avenues for expansion by tapping into significant market opportunities. In our quest to find the right partners or acquisition targets, we are particularly focused on ventures that have demonstrated their ability to innovate and capture ~~the~~ early-stage interest of their target markets ~~-. These ventures indicating indicate~~ a clear path to scalability and a substantial market presence. However, it's important to note that while we are committed to this strategic review process, there is no guaranteed outcome. The process of identifying and executing ~~on~~ the right strategic alternative, whether it be a merger, sale, or business combination, is complex and uncertain. We want our shareholders to understand that, despite our best efforts, there is no assurance that this strategic review will culminate in a definitive transaction involving the Company. Our priority remains clear: to explore every avenue that could potentially enhance the value we deliver to our shareholders and ensure the long-term success of our Company. Corporate History Oblong, Inc. was formed as a Delaware corporation in May 2000. Prior to March 6, 2020, Oblong, Inc. was named Glowpoint, Inc. ("Glowpoint"). On October 1, 2019, the Company closed an acquisition of all of the outstanding equity interests of Oblong Industries, Inc., a privately held Delaware corporation founded in 2006 ("Oblong Industries"), pursuant to the terms of an Agreement and Plan of Merger (as amended, the "Merger Agreement"). Pursuant to the Merger Agreement, among other things, Oblong Industries became a wholly owned subsidiary of the Company (the "Merger"). On March 6, 2020, Glowpoint changed its name to Oblong, Inc. Available Information We are subject to the ~~Exchange Act's~~ reporting requirements ~~of the Exchange Act~~. The ~~Exchange~~ Act requires us to file periodic reports, proxy statements, and other information with the Securities and Exchange Commission ("SEC"). The SEC maintains an Internet site at <http://www.sec.gov> that contains reports, proxy and information statements, and other information that we file electronically with the SEC. In addition, we make available, free of charge, on our Internet website, our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to these reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file this material with, or furnish it to, the SEC. You may review these documents on our website at [www.oblong.com](http://www.oblong.com) by accessing the investor relations section. Our website and the information contained on or connected to our website ~~is are~~ not incorporated by reference herein, and our web address is included as an inactive textual reference only. ~~6-~~ Item 1A. Risk Factors Our business faces numerous risks, including those set forth below and those described elsewhere in this Report or in our other filings with the SEC. The risks described below are not the only risks that we face, nor are they necessarily listed in order of significance. Other risks and uncertainties may also affect our business. Any of these risks may have a material adverse effect on our business, financial condition, results of operations, and cash flow. When making an investment decision with respect to our common stock, you should also refer to the other information contained or incorporated by reference in this Report, including our Consolidated Financial Statements and the related notes. Risks Related to Our Business Our Company experienced declines in revenue in recent fiscal years and may continue to experience further revenue decline in future periods. In recent fiscal years, our Company has faced a troubling trend of decreasing revenue, a situation that may not only persist but potentially worsen in the future. Specifically, our Managed Services revenue has suffered due to a ~~-7-~~ significant loss of customers and a decrease in demand for our offerings. This downturn can be attributed to the fiercely competitive landscape of our industry, where we face intense pressure to lower prices to remain competitive. Similarly, our Mezzanine™ product offerings, designed for use in conventional settings like conference rooms and operational centers, have also experienced a marked decrease in revenue. This decline is largely a consequence of the commercial reactions to the COVID-19 pandemic and its prolonged effects. We believe the pandemic has fundamentally altered the way businesses consider the use of physical office spaces and, consequently, the demand for technologies that enable in-person collaboration within these spaces. Our analysis indicates that the reduced demand for our Mezzanine™ products, particularly in the aftermath of COVID-19, reflects a broader reassessment among our customers regarding the necessity and investment in collaboration solutions tailored for traditional office environments. Should this trend of reevaluation and reduced demand continue, ~~it poses our company faces~~ a significant risk of further revenue decline ~~for our Company~~. This situation highlights the critical need for our Company to adapt strategically, recognizing the shifting dynamics of workplace configurations and the evolving needs of our customers in the post-pandemic era. Revenue growth and ~~an~~ increase in the market share of our current product offerings ~~depends-~~ ~~depend~~ on ~~the~~ successful adoption of our Mezzanine™ product offerings with our channel partners, which requires sufficient sales, marketing, and product development funding. Our goal is to grow revenue from an increase in adoption of our product offerings. If we cannot successfully gain adoption of our Mezzanine™ product offerings through direct sales or our channel partners, we may not be able to grow revenue and / or increase the market share of our products. ~~We have significantly reduced investments in product development and sales and marketing in recent years~~. We cannot assure you that we will have sufficient funds available to invest in sales and marketing and ~~continued~~ product development in order to achieve revenue growth. We have a history of substantial net operating losses and ~~we~~ may incur future ~~net~~ losses. We reported substantial net losses in recent years. ~~We~~ ~~In the future, we~~ may not be able to achieve revenue growth or profitability or generate positive cash flow on a quarterly or annual basis ~~in the future~~. If we do not achieve profitability in the future, the value of our common stock may be adversely impacted, and we could have difficulty obtaining capital to continue our operations. Our business activities will require additional financing that might not be obtainable on acceptable terms, if at all ~~-which-~~ ~~This~~ could have a material adverse effect on our financial condition, liquidity, and ~~our~~ ability to operate as a going concern in the future. The Consolidated Financial Statements in our Annual Report on Form 10-K for the year ended December 31, ~~2023-2024~~, have been prepared assuming that the Company will continue as a going concern. We have experienced ~~revenue~~ declines ~~in revenue~~ in recent fiscal years and ~~we have~~ incurred net losses. Our capital requirements in the future will continue to depend on numerous factors, including the timing and

amount of revenue, customer renewal rates, and the timing of collection of outstanding accounts receivable, in each case particularly as it relates to our major customers, the expense to deliver services, the expense for sales and marketing, the expense for research and development, capital expenditures, and the cost involved in protecting intellectual property rights. We believe that our existing cash and cash equivalents will be sufficient to fund our operations and meet our working capital requirements into mid-2026 for at least the next 12 months from the filing date of this Report with the SEC. We believe additional capital will be required, in the long term, to fund operations and provide growth capital, including potential strategic alternatives and investments in technology, product development, and sales and marketing. **During the year ended December 31, 2024, the Company received net proceeds of \$ 2, 381, 000 from the exercise of common and preferred warrants.** To access capital to fund operations or provide growth capital, we will need to raise capital from the exercise of outstanding common and / or preferred warrants, and / or in one or more debt and / or equity offerings. **We have been able to raise capital in the past to maintain liquidity, but** There ~~there~~ can be no assurance that we will be successful in raising the necessary capital or that any such offering will be on terms acceptable to the Company. If we are unable to raise additional capital that may be needed on terms acceptable to us, it could have a material adverse effect on the Company. **-7-** If we fail to achieve broad market acceptance on a timely basis, we will not be able to compete effectively, and we will likely experience continued declines in revenue and lower gross margins. We operate in a highly competitive, quickly changing environment, and our future success depends on our ability to develop ~~or~~, acquire, and introduce ~~new~~ products that achieve broad market acceptance. Our future success will depend in large part upon our ability to identify demand trends in the markets in which we operate ~~and~~ to quickly develop ~~or~~, acquire, and build, and sell products that satisfy these demands in a cost-effective manner. In order to differentiate our products from our competitors' products, we must increase our focus and capital investment in research and development. **As a cost savings measure, we have reduced investments in product development and sales and marketing in recent years.** If our products do not achieve widespread market acceptance, or if we are unsuccessful in capitalizing on market opportunities, our future growth may be slowed, and our financial results could be harmed. ~~Also, as the mix of our business increasingly includes new products and services that require additional investment, this shift may adversely impact our margins, at least in the near-term.~~ Successfully predicting demand trends is difficult, and it is very difficult to predict the effect that introducing a new product will have on existing product sales. We will also need to respond effectively to new product announcements by our competitors by quickly introducing competitive products. ~~-8-~~ In addition, we may not be able to successfully manage the integration of any new product lines with our existing products. Selling new product lines in new markets will require our management to explore different strategies in order to be successful. We may be unsuccessful in launching a new product line in new markets that requires management of new suppliers, potential new customers, and new business models. Our management may not have the experience of selling in these new markets, and we may not be able to grow our business as planned. If we are unable to effectively and successfully further develop these new product lines, we may not be able to achieve our desired sales targets, and our gross margins may be adversely affected. We may experience delays and quality issues in releasing new products, which could result in lower quarterly revenue than expected. In addition, we may experience product introductions that fall short of our projected rates of market adoption. Any future delays in product development and introduction, ~~or~~ product introductions that do not meet broad market acceptance, or unsuccessful launches of new product lines could result in: • loss of or delay in revenue and loss of market share; • negative publicity and damage to our reputation and brand; • a decline in the average selling price of our products; and • adverse reactions in our sales channels. Additionally, our level of product gross margins could decline in future periods due to adverse impacts from other factors, including: • Changes in customer, geographic, or product mix, including a mix of configurations within each product group; • Introduction of new products, including products with price-performance advantages, and new business models, including the transformation of our business to deliver more software and subscription offerings; • Our ability to reduce production costs; • Entry into new markets or growth in lower margin markets, including markets with different pricing and cost structures, through acquisitions or internal development; • Sales discounts; • Increases in material, labor, or other manufacturing-related costs, which could be significant, especially during periods of supply constraints such as those impacting the market for memory components; • Excess inventory, inventory holding charges, and obsolescence charges; • Changes in shipment volume; • The timing of revenue recognition and revenue deferrals; • Increased cost (including those caused by tariffs), loss of cost savings or dilution of savings due to changes in component pricing or charges incurred due to inventory holding periods if parts ordering does not correctly anticipate product demand or if the financial health of either contract manufacturers or suppliers deteriorates; • Lower than expected benefits from value engineering; • Increased price competition; • Changes in distribution channels; • Increased warranty or royalty costs; • Increased amortization of purchased intangible assets; and • Our success in executing ~~on~~ our strategy and operating plans. If we cannot successfully introduce new product lines, either through rapid innovation or acquisition of new products or product lines, we may not be able to maintain or increase the market share of our products. In addition, if we are unable to successfully introduce or acquire new products with higher gross margins, or if we are unable to improve the margins on our existing product lines, our revenue and overall gross margin will likely decline. **-8-** Product quality problems could lead to reduced revenue, gross margins, and higher net losses. We produce highly complex products that incorporate leading-edge technology, including both hardware and software. Software typically contains bugs that can unexpectedly interfere with expected operations. There can be no assurance that our pre-shipment testing programs will be adequate to detect all defects, either ones in individual products or ones that could affect numerous shipments, which might interfere with customer satisfaction, reduce sales opportunities, or affect gross margins. From time to time, we have had to replace certain components and provide remediation in response to the discovery of defects or bugs in products that we had shipped. There can be no assurance that such remediation, depending on the product involved, would not have a material impact. An inability to cure a product defect could result in the failure of a product line, temporary or permanent withdrawal from a product or market, damage to our reputation, inventory costs, or product reengineering expenses, any of which could have a

material impact on our revenue, margins and net loss. ~~If~~ ~~9~~ ~~We depend upon the development of new products and services, and enhancements to existing products and services, and if we fail to predict and respond to emerging technological trends and customer's changing needs, our operating results may suffer. The markets for our products and services are characterized by rapidly changing technology, evolving industry standards, and new product and service introductions.~~ ~~Our operating results depend on our ability to develop and introduce new products and services into existing and emerging markets and to reduce the production costs of existing products.~~ If customers do not purchase and / or renew our offerings, our business could be harmed. The process of developing new technology related to market transitions — such as collaboration, digital transformation, and cloud — is complex and uncertain, and if we fail to accurately predict customers' changing needs and emerging technological trends, our business could be harmed. We must commit significant resources to developing new products and services before knowing whether our investments will result in products and services the market will accept. **As a cost-saving measure, we have reduced investments in product development in recent years.** Our business could be harmed if we fail to develop, or fail to develop in a timely fashion, offerings to address other market transitions, ~~or if the offerings addressing these other transitions that ultimately succeed are based on technology, or an approach to technology, different from ours.~~ In addition, our business could be adversely affected in periods surrounding our new product introductions if customers delay purchasing decisions to qualify or otherwise evaluate new product offerings. Furthermore, we may not execute successfully on our vision or strategy **successfully** because of challenges with regard to product planning and timing, technical hurdles that we fail to overcome in a timely fashion, or a lack of appropriate resources, such as those that led to us ceasing the majority of research and development activities during late 2022 as a cost savings measure, and significant capital could be required to resume research and development activities. This could result in competitors, some of which may also be our partners, providing those solutions before we do and loss of market share, revenue, and earnings. In addition, the growth in demand for technology delivered as a service enables new competitors to enter the market. The success of new products and services depends on several factors, including proper new product and service definition, component costs, timely completion and introduction of these products and services, differentiation of new products and services from those of our competitors, and market acceptance of these products and services. There can be no assurance that we will successfully identify new product and ~~services~~ **service** opportunities, develop and bring new products and services to market in a timely manner, or achieve market acceptance of our products and services or that products, services, and technologies developed by others will not render our products, services or technologies obsolete or noncompetitive. Our success depends on our ability to recruit and retain adequate engineering talent. The market for our products and services ~~are~~ **is** characterized by rapidly changing technology. The pressure to innovate and stay ahead of our competitors requires an investment in talent. Specifically, competing successfully in this market depends on our ability to recruit and retain adequate engineering talent. Because of the competitive nature of this industry, this can prove a challenge. Failure to recruit and retain adequate talent could negatively impact our ability to keep up with the rapidly changing technology. Our success is highly dependent on the evolution of our overall market and on general economic conditions. The market for collaboration technology and services is evolving rapidly. Although certain industry analysts project significant growth for this market, their projections may not be realized. Our future growth depends on **the** broad acceptance and adoption of collaboration technologies and services. In addition, in the event we develop new solutions designed to address new market demands, such as our Mezzanine™ product offerings, sales of our solutions will, in part, depend on capturing new spending in these markets. There can be no assurance that this market will grow, that our offerings will be adopted, or that businesses will purchase our collaboration technologies and services. If we are unable to react quickly to changes in the market, if the market fails to develop or develops more slowly than expected, or if our services do not achieve market acceptance, then we are unlikely to achieve profitability. Additionally, adverse economic conditions may cause a decline in business and consumer spending, which could adversely affect our business and financial performance. Changes in industry structure and market conditions could lead to charges related to discontinuances of certain of our products or businesses, asset impairments, and workforce reductions or restructurings. In response to changes in industry and market conditions, we may be required to strategically realign our resources and ~~to consider restructuring, disposing of, or otherwise exiting businesses.~~ Any resource realignment ~~or decision to limit investment in or dispose of or otherwise exit businesses~~ may result in the recording of special charges, such as inventory and technology-related write-offs, workforce reduction or restructuring costs, charges relating to consolidation of excess facilities, or claims from third parties who were resellers or users of discontinued products. Our estimates, with respect to the useful life or ultimate recoverability of our carrying basis of assets, could change as a result of such assessments and decisions. Although, in certain instances, our supply agreements allow us the option to cancel, reschedule, and adjust our requirements based on our business needs prior to firm orders being placed, our loss contingencies may include liabilities for contracts that we cannot cancel with contract manufacturers and suppliers. ~~10-9~~ We may be unable to realize intended efficiencies and benefits from our ongoing cost- ~~savings~~ **saving** initiatives, ~~and~~ which may adversely affect our results of operations, financial condition, or our business. To operate more efficiently and control costs, we have undertaken cost- ~~savings~~ **saving** initiatives, which have included a cessation of R & D activities, workforce reductions, and other cost-reduction initiatives. If we do not successfully manage our current cost- ~~savings~~ **saving** activities, our expected efficiencies, benefits, and cost savings might be delayed or not realized, and our operations and business could be disrupted. Furthermore, ~~a~~ disruption to our operations or business may cause employee morale and productivity to suffer and may result in unwanted employee attrition. Such disruptions require substantial management time and attention and may divert management from other important work or result in a failure to meet operational targets. Moreover, we could make changes to ~~or experience delays in executing~~ any cost- ~~savings~~ **saving** initiatives, any of which could cause further disruption and additional unanticipated ~~expense~~ **expenses**. If we were deemed to be an investment company under the Investment Company Act of 1940, as amended (the "1940 Act"), applicable restrictions could make it impractical for us to continue our business as contemplated and could have a material adverse effect on our business, financial condition, and results of operations. Under Sections 3 (a) (1) (A) and (C) of the 1940 Act, a company

generally will be deemed to be an “ investment company ” for purposes of the 1940 Act if (1) it is, or holds itself out as being, engaged primarily, or proposes to engage primarily, in the business of investing, reinvesting or trading in securities or (2) it engages, or proposes to engage, in the business of investing, reinvesting, owning, holding or trading in securities and it owns or proposes to acquire investment securities having a value exceeding 40 % of the value of its total assets (exclusive of U. S. government securities and cash items) on an unconsolidated basis. We do not currently believe that we are an “ investment company, ” as such term is defined in either of those sections of the 1940 Act. Although we are exploring strategic alternatives, we intend to conduct our operations so that we will not be deemed an investment company. However, if we were to be deemed an investment company, restrictions imposed by the 1940 Act, including limitations on our capital structure and our ability to transact with affiliates, could make it impractical for us to continue our business as contemplated and could have a material adverse effect on our business, financial condition and results of operations. Any future disposition of assets and business could have material and adverse effect effects on business, financial conditions, and operations if not consummated in a timely manner. As part of our corporate strategy, our management considers and evaluates opportunities involving dispositions of assets and business. Such transactions may expose us to unknown or unforeseeable challenges resulting in disruption of business operations, loss of key personnel and ongoing tax benefits treatment, failure to obtain necessary statutory and regulatory approvals, provide ongoing indemnity, and compliance with post- closing obligations, which may affect or prevent us from consummating the transactions, and have a material and adverse effect on our business, financial conditions, and operations. The markets in which we compete are intensely competitive, which could adversely affect our achievement of revenue growth. The markets in which we compete are characterized by rapid change, converging technologies, and a migration to collaboration solutions that offer relative advantages. These market factors represent a competitive threat to us. We compete with numerous vendors in each product category. The overall number of our competitors providing niche product solutions may increase. Also, the identity and composition of competitors may change as we increase our activity in newer product areas, and in key priority and growth areas. In addition, the growth in demand for technology delivered as a service enables new competitors to enter the market. The collaboration industry is highly competitive and includes large, well- financed participants. Some of our competitors compete across many of our product lines, while others are primarily focused in on a specific product area. In addition, many of our competitor organizations have substantially greater financial and other resources, including technical and engineering resources, than we do, furnish some of the same services provided by us, and have established relationships with major corporate customers that have policies of purchasing directly from them. Our competitors offer similar services similar both on a bundled and unbundled basis, creating a highly competitive environment with pressure on the pricing of such services. Barriers to entry are relatively low, and new ventures to create products that do or could compete with our products are regularly formed. We believe that as the demand for collaboration technologies continues to increase, additional competitors, many of which may have greater resources than us, will continue to enter this market. The principal competitive factors in the markets in which we presently compete and may compete in the future include the ability to sell successful business outcomes, product performance, and price, and the ability to introduce new products, including providing continuous new customer value and products with price- performance advantages; the ability to reduce production costs; the ability to provide value- added features such as security, reliability and investment protection; conformance to standards; market presence; the ability to provide financing; and disruptive technology shifts and new business models. -10- Industry consolidation may lead to increased competition and may harm our operating results. There is a continuing trend toward industry consolidation in our markets. We expect this trend to continue as companies attempt to strengthen or hold their market positions in an evolving industry and as companies are acquired or are unable to continue operations. Companies -11- that are strategic alliance partners in some areas of our business may acquire or form alliances with our competitors, thereby reducing their business with us. We believe that industry consolidation may result in stronger competitors that are better able to compete as sole- source vendors for customers. This could lead to more variability in our operating results and could have a material adverse effect on our business, operating results, and financial condition. Furthermore, particularly in the service provider market, rapid consolidation will lead to fewer customers, with the effect that the loss of a major customer could have a material impact on results. We rely on a limited number of customers for a significant portion of our revenue, and the loss of any one of those customers, or several of our smaller customers, could materially harm our business. A significant portion of our revenue is generated from a limited number of customers. For the year ended December 31, 2023-2024, one major customer accounted for 56-84.9 % of the Company’ s total consolidated revenue. The composition of our significant customers will vary from period -to -period, and we expect that most of our revenue will continue, for the foreseeable future, to come from a relatively small number of customers. Consequently, our financial results may fluctuate significantly from period -to -period based on the actions of one or more significant customers. A customer may take actions that affect the Company for reasons that we cannot anticipate or control, such as reasons related to the customer’ s financial condition, changes in the customer’ s business strategy or operations, changes in technology, and the introduction of alternative competing products, or as the result of the perceived quality or cost-effectiveness of our products or services. Our agreements with these customers may be canceled if we materially breach the agreement or for other reasons outside of our control, such as insolvency or financial hardship that may result in a customer filing for bankruptcy court protection against unsecured creditors. If our customers were to experience losses due to a failure of a depository institution to return their deposits, it could expose us to an increased risk of nonpayment under our contracts with them. In addition, our customers may seek to renegotiate the terms of current agreements or renewals, and / or our customers may choose not to renew our services. The loss of or a reduction in sales or anticipated sales to our most significant or several of our smaller customers could have a material adverse effect on our business, financial condition, and results of operations. Any system failures or interruptions may cause a loss of customers. Our success depends, in part, on the seamless, uninterrupted operation of our managed service offerings. As the complexity and volume continue to increase, we will face increasing demands and challenges in managing them. Any prolonged failure of these services or other systems or hardware that cause

**causes** significant interruptions to our operations could seriously damage our reputation and result in customer attrition and financial loss. There is limited market awareness of our **products and services**. Our future success will be dependent in significant part on our ability to **increase market awareness of our products and services and** generate demand for our collaboration technologies and services. ~~To this end, our direct marketing and indirect sales operations must increase market awareness of our service offerings to generate increased revenue.~~ We have limited **our investment in** sales and marketing resources **in recent years as a cost- saving measure**. Our products and services require a sophisticated sales effort targeted at the senior management of our prospective customers. If we were to hire new employees in sales and marketing, those employees ~~will~~ **would** require training and take time to achieve full productivity. We cannot be certain that our new hires will become as productive as necessary or that we will be able to hire enough qualified individuals or retain existing employees in the future. We cannot be certain that we will be successful in our efforts to market and sell our products and services, and, if we are not successful in building market awareness and generating increased sales, future results of operations will be adversely affected. ~~If we do not effectively compose, structure, and compensate our sales force to focus on the end customers and activities that will primarily drive our growth strategy, our business will be adversely affected. As indicated above, our growth is dependent in large part on the success of our sales team and in particular our ability to structure our sales organization and sales compensation in a way that aligns with our growth strategy. As part of our efforts to appropriately structure and compensate our sales team such that their incentives are properly aligned with our growth strategy, we have made changes to our sales processes, sales segmentation and leadership structures for our sales teams and may need to make additional changes in the future. Such changes may take longer than anticipated to successfully implement, and we may not be able to realize the full benefits thereof, which may have a material adverse impact on our sales productivity as well as our business and operational results generally. In particular, as indicated above, our growth continues to be substantially dependent on our ability to increase our sales to large enterprises, particularly when those sales result in large orders for our solutions. Competition for sales employees who have the knowledge and experience necessary to effectively penetrate major enterprise accounts is fierce, and we may not be successful in hiring such employees, or hiring them on the timelines we anticipate, which will negatively impact our ability to target and penetrate major enterprise accounts. In addition, we anticipate that the sales cycles associated with major accounts will be longer than our traditional sales cycles, which will increase the time it will take our sales managers to become fully productive. In addition, as our organization continues to focus on major accounts and large deals, the productivity of our traditional sales teams may be impacted.~~ ~~12~~ Our ability to sell our solutions is dependent in part on ease of use and the quality of our technical support, and any failure to offer high- quality technical support would harm our business, operating results, and financial condition. Once our solutions are deployed, our end customers depend on our support organization to resolve any technical issues relating to our solutions. Furthermore, because of the emerging nature of our solutions, our support organization often provides support for and troubleshoots issues for products of other vendors running on our solutions, even if the issue is unrelated to our solutions. There is no assurance that we can solve issues unrelated to our solutions ~~;~~ or that vendors whose products run on our solutions will not challenge our provision of technical assistance to their products. Our ability to provide effective support is largely dependent on our ability to attract, train **;** and retain personnel who are not only qualified to support our solutions ~~;~~ but also well **;** versed in some of the primary applications and hypervisors that our end customers run on our solutions. Furthermore, in the event we expand our operations internationally, our support organization will face additional challenges, including those associated with delivering support, training, and documentation in languages other than English. In addition, in the event we expand our product portfolio to include additional solutions our ability to provide high- quality support will become more difficult and will involve more complexity. Any failure to maintain high- quality installation and technical support, or a market perception that we do not maintain high- quality support, could harm our reputation and brand, adversely affect our ability to sell our solutions to existing and prospective end customers, and could harm our business, operating results, and financial condition. We rely on third- party software that may be difficult to replace or may not perform adequately. We integrate third- party licensed software components into our technology infrastructure in order to provide our services. This software may not continue to be available on commercially reasonable terms or pricing or may fail to continue to be updated to remain competitive. The loss of the right to use this third- party software may increase our expenses or impact the provisioning of our services. The failure of this third- party software could materially impact the performance of our services and may cause material harm to our business or **the** results of operations. We depend upon our network providers and facilities infrastructure. Our success depends upon our ability to implement, expand, and adapt our network infrastructure and support services to accommodate an increasing amount of video traffic and evolving customer requirements at an acceptable cost. This has required and will continue to require that we enter into agreements with providers of infrastructure capacity, equipment, facilities, and support services on an ongoing basis. We cannot ensure that any of these agreements can be obtained on satisfactory terms and conditions. We also anticipate that future expansions and adaptations of our network infrastructure facilities may be necessary in order to respond to growth in the number of customers served. ~~of revenue.~~ Our network depends upon telecommunications carriers who could limit or deny us access to their network or fail to perform, which would have a material adverse effect on our business. We rely upon the ability and willingness of certain telecommunications carriers and other corporations to provide us with reliable high- speed telecommunications service through their networks. If these telecommunications carriers and other corporations decide not to continue to provide service to us through their networks on substantially the same terms and conditions (including, without limitation, price, early termination liability, and installation interval), if at all, it would have a material adverse effect on our business, financial condition, and results of operations. Additionally, many of our service level objectives are dependent upon satisfactory performance by our telecommunications carriers. If they fail to so perform, it may have a material adverse effect on **our business**. A significant portion of our sales are through distribution channels **;** including both system integrators and channel partners (collectively the “ Service Providers ”) **;** which have been difficult to project and ~~;~~ particularly volatile during the pandemic. Weakness in orders from our distribution channels may harm our operating results and

financial condition. Sales to the Service Providers have been characterized by large and sporadic purchases, in addition to longer sales cycles. Product orders by the Service Providers decreased during 2022-2024 and 2023, and at various times in the past, we have experienced significant weakness in product orders from Service Providers. Product orders from the Service Providers could continue to decline and, and as has been the case in the past, such weakness could persist over extended periods of time, given fluctuating market conditions. Sales activity in this industry depends upon the stage of completion of expanding network infrastructures, the availability of funding, and the extent to which service providers are affected by regulatory, economic, and business conditions in the country of operations. Weakness in orders from this industry, including as a result of any slowdown in capital expenditures by service providers (which may be more prevalent during a global economic downturn or periods of economic, political, or regulatory uncertainty), could have a material adverse effect on our business, operating results, and financial condition. Such slowdowns may continue or recur in future periods. Orders from this industry could decline for many reasons other than the competitiveness of our products and services within their respective markets. For example, in the past, many of our Service Providers' customers have been materially and adversely affected by slowdowns in the general economy, by overcapacity, by changes in the Service Providers' market, by regulatory developments, and by constraints on capital availability, resulting in business failures and substantial reductions in spending and expansion plans. These conditions have materially harmed our business and operating results in the past and could affect our business and operating results in any future period. Finally, our Service Providers' customers typically have longer implementation cycles, require a broader range of services, including design services, demand that vendors take on a larger share of risks, and often require acceptance provisions, which can lead to a delay in revenue recognition; and expect financing from vendors. All these factors can add further risk to business conducted with Service Providers. Disruption of or changes in our distribution model could harm our sales and margins. If we fail to manage the distribution of our products and services properly, or if our Service Providers' financial condition or operations weaken, our revenue and gross margins could be adversely affected. A significant portion of our products and services are sold through our distribution channels, and the remainder is sold through direct sales. Our distribution channels include systems integrators, channel partners, other resellers, and distributors. Systems integrators and channel partners typically sell directly to end users and often provide system installation, technical support, professional services, and other support services in addition to network equipment sales. Systems integrators also typically integrate our products into an overall solution, and a number of service providers are also systems integrators. Distributors stock inventory and typically sell to systems integrators, channel partners, and other resellers. We refer to sales through distributors as a two-tier system of sales to the end customer. If sales through indirect channels increase, this may lead to greater difficulty in forecasting the mix of our products and, to a degree, the timing of orders from our customers. Historically, we have seen fluctuations in our gross margins based on changes in the balance of our distribution channels. There can be no assurance that changes in the balance of our distribution model in future periods would will not have an adverse effect on our gross margins and profitability. Some factors could result in disruption of or changes in our distribution model, which could harm our sales and margins, including the following: competition with some of our Service Providers, including through our direct sales, which may lead these channel partners to use other suppliers that do not directly sell their own products or otherwise compete with them; some of our Service Providers may demand that we absorb a greater share of the risks that their customers may ask them to bear; some of our Service Providers may have insufficient financial resources and may not be able to withstand changes and challenges in business conditions; and revenue from indirect sales could suffer if our distributors' financial condition or operations weaken. In addition, we depend on our Service Providers globally to comply with applicable regulatory requirements. To the extent that they fail to do so, that could have a material adverse effect on our business, operating results, and financial condition. Inventory management relating to our sales to our two-tier distribution channel is complex, and excess inventory may harm our gross margins. We must manage inventory relating to sales to our distributors effectively, because inventory held by them could affect our results of operations. Our distributors may increase orders during periods of product shortages, cancel orders if their inventory is too high, or delay orders in anticipation of new products. They also may adjust their orders in response to the supply of our products and the products of our competitors that are available to them, and in response to seasonal fluctuations in end-user demand. Inventory management remains an area of focus as we balance the need to maintain strategic inventory levels to ensure competitive lead times against the risk of inventory obsolescence because of rapidly changing technology and customer requirements. When facing component supply-related challenges, we have increased our efforts in procuring components in order to meet customer expectations. If we ultimately determine that we have excess inventory, we may have to reduce our prices and write down inventory, which in turn could result in lower gross margins. We may experience material disconnections and / or reductions in the prices of our services and may not be able to replace the loss of revenues. Historically, we have experienced both significant disconnections of services and also reductions in the prices of our services. We endeavor to obtain long-term commitments from new customers, as well as expand our relationships with current customers. The disconnection of services by our significant customers or by several of our smaller customers could have a material adverse effect on our business, financial condition, and results of operations. Service contract durations and termination liabilities are defined within the terms and conditions of the Company's agreements with our customers. Termination of services in our existing agreements typically requires requires a minimum of 30 days' notice and are is subject to early termination penalties equal to the amount of accrued and unpaid charges, including the remaining term length multiplied by any fixed monthly fees. The standard form of service agreement with us includes an auto-renewal clause at the end of each term if the customer does not choose to terminate service at that time. Certain customers and partners negotiate master agreements with custom termination liabilities that differ from our standard form of service agreement. We are exposed to the credit and other counterparty risk of our customers in the ordinary course of our business. Our customers have varying degrees of creditworthiness, and we may not always be able to fully anticipate or detect deterioration in their creditworthiness and overall financial condition, which could expose us to an increased risk of nonpayment under our contracts with them. In the event that a

material customer or customers default on their payment obligations to us, discontinue buying services from us, or use their buying power with us to reduce its revenue, this could materially adversely affect our financial condition, results of operations, or cash flows. -12- Failure to retain and recruit key personnel would harm our ability to meet key objectives. We have attracted a highly skilled management team and specialized workforce. Our future success is dependent in part on our ability to attract and retain highly skilled technical, managerial, sales and marketing personnel. Competition for these personnel is intense. Our inability to hire qualified personnel on a timely basis, or the departure of key employees (including Peter Holst, the Company's President and CEO) without a suitable replacement could materially and adversely affect our business development and, therefore, our business, prospects, results of operations and financial condition. Stock incentive plans are designed to reward employees for their long- term contributions and provide incentives for them to remain with us. Volatility or lack of positive performance in our stock price or equity incentive awards, or changes to our overall compensation program, including our stock incentive program, resulting from the management of share dilution and share- based compensation expense or otherwise, may also adversely affect our ability to retain key employees. As a result of one or more of these factors, we may increase our hiring in -14- geographic areas outside the United States, which could subject us to additional geopolitical and exchange rate risk. The loss of services of any of our key personnel ; the inability to retain and attract qualified personnel in the future ; or delays in hiring required personnel, particularly engineering and sales personnel, could make it difficult to meet key objectives, such as timely and effective product introductions. In addition, companies in our industry whose employees accept positions with competitors frequently claim that competitors have engaged in improper hiring practices. We have received these claims in the past and may receive additional claims to this effect in the future. Supply chain issues, including financial problems of contract manufacturers or component suppliers ; or a shortage of adequate component supply or manufacturing capacity that increase increases our costs or cause causes a delay in our ability to fulfill orders, could have an adverse impact on our business and operating results, and our failure to estimate customer demand properly may result in excess or obsolete component supply, which could adversely affect our gross margins. We rely on other companies to supply some components of our Mezzanine™ products and of our network infrastructure and the means to access our network. Certain products and services that we resell and certain components that we require are available only from limited sources. We could be adversely affected if such sources were to become unavailable to us on commercially reasonable terms. We cannot ensure that, on an ongoing basis, we will be able to obtain third- party services cost- effectively and on the scale and within the time frames that we require, if at all. Failure to obtain or to continue to make use of such third- party services would have a material adverse effect on our business, financial condition, and results of operations. The fact that we do not own or operate manufacturing facilities and that we are reliant on our supply chain could have an adverse impact on the supply of our products and on our business and operating results. Financial problems of either contract manufacturers or component suppliers, reservation of manufacturing capacity at our contract manufacturers by other companies, and industry consolidation occurring within one or more component supplier markets, such as the semiconductor market, in each case, could either limit supply or increase costs. A reduction or interruption in supply; a significant increase in the price of one or more components; a failure to adequately authorize procurement of inventory by our contract manufacturers; a failure to appropriately cancel, reschedule, or adjust our requirements based on our business needs; or a decrease in demand for our products could materially adversely affect our business, operating results, and financial condition and could materially damage customer relationships. Furthermore, as a result of binding price or purchase commitments with suppliers, we may be obligated to purchase components at prices that are higher than those available in the current market. In the event that we become committed to purchase purchasing components at prices in excess of the current market price when the components are actually used, our gross margins could decrease. We have experienced longer than normal lead times in the past 12 months, and there is no assurance this will not occur in the future. In addition, vendors may be under pressure to allocate product products to certain customers for business, regulatory, or political reasons ; and / or demand changes in agreed pricing as a condition of supply. Although we have generally secured additional supply or taken other mitigation actions when significant disruptions have occurred, if similar situations occur in the future or if we are unsuccessful in our mitigation efforts, they could have a material adverse effect on our business, results of operations, and financial condition. Our growth and ability to meet customer demands depend in part on our ability to obtain timely deliveries of parts from our suppliers and contract manufacturers. We have experienced component shortages in the past, including shortages caused by manufacturing process issues, that have affected our operations. We may in the future experience a shortage of certain component parts as a result of our own manufacturing issues, manufacturing issues at our suppliers or contract manufacturers, capacity problems experienced by our suppliers or contract manufacturers, including capacity or cost problems resulting from industry consolidation, or strong demand for those parts. Growth in the economy is likely to create greater pressures on us and our suppliers to accurately project overall component demand and component demands within specific product categories and to establish optimal component levels and manufacturing capacity, especially for labor- intensive components, components for which we purchase a substantial portion of the supply ; or the re- ramping of manufacturing capacity for highly complex products. During periods of shortages or delays the price of components may increase, or the components may not be available at all, and we may also encounter shortages if we do not accurately anticipate our needs. We may not be able to secure enough components at reasonable prices or of acceptable quality to build new products in a timely manner in the quantities or configurations needed. Accordingly, our revenue and gross margins could suffer until other sources can be developed. Our operating results would also be adversely affected if, anticipating greater demand than actually develops, we commit to the purchase of more components than we need, which is more likely to occur in a period of demand uncertainties such as we are currently experiencing. There can be no assurance that we will not encounter these problems in the future. Although, in many cases, we use standard parts and components for our products, certain components are presently available only from a single source or limited sources, and a global economic downturn and related market uncertainty could negatively impact the availability of components from one or more of these sources, especially during times such as we have recently seen when there

are supplier constraints based on labor and other actions taken during economic downturns. We may not be able to diversify sources in a timely manner, which could harm our ability to deliver products to customers and seriously impact present and future sales. ~~- 15-13-~~ We have made and may continue to make acquisitions that could disrupt our operations and harm our operating results. Our growth depends upon market growth, our ability to enhance our existing products, and our ability to introduce new products on a timely basis. We may address the need to develop new products and enhance existing products through acquisitions of other companies, product lines, technologies, and personnel. Acquisitions involve numerous risks, including the following: • Difficulties in integrating the operations, systems, technologies, products, and personnel of the acquired companies, particularly companies with large and widespread operations and / or complex products; • Diversion of management' s attention from normal daily operations of the business and the challenges of managing larger and more widespread operations resulting from acquisitions; • Potential difficulties in completing projects associated with in- process research and development intangibles; • Difficulties in entering markets in which we have no or limited direct prior experience and where competitors in such markets have stronger market positions; • Initial dependence on unfamiliar supply chains or relatively small supply partners; • Insufficient revenue to offset increased expenses associated with acquisitions; and • The potential loss of key employees, customers, distributors, vendors, and other business partners of the companies we acquire following and continuing after **the** announcement of acquisition plans. Acquisitions may also cause us to: • Issue common stock that would dilute our current shareholders' percentage ownership; • Use a substantial portion of our cash resources ~~;~~ or incur debt; • Significantly increase our interest expense, leverage, and debt service requirements if we incur additional debt to pay for an acquisition; • Assume liabilities; • Record goodwill and intangible assets that are subject to impairment testing on a regular basis and potential periodic impairment charges ~~2-~~ • Incur amortization expenses related to certain intangible assets; • Incur tax expenses related to the effect of acquisitions on our legal structure; • Reduce the utilization of, and the timing of utilization, of the federal and state net operating loss carryforwards; • Incur large write- offs and restructuring and other related expenses; or • Become subject to intellectual property or other litigation. Mergers and acquisitions of high- technology companies are inherently risky and subject to many factors outside of our control, and no assurance can be given that our previous or future acquisitions will be successful and will not materially adversely affect our business, operating results, or financial condition. Failure to manage and successfully integrate acquisitions could materially harm our business and operating results. Prior acquisitions have resulted in a wide range of outcomes, from **the** successful introduction of new products and technologies to a failure to do so. Even when an acquired company has already developed and marketed products, there can be no assurance that product enhancements will be made in a timely fashion or that pre- acquisition due diligence will have identified all possible issues that might arise with respect to such products. In addition, our effective tax rate for future periods is uncertain and could be impacted by mergers and acquisitions. Risks related to new product development also apply to acquisitions. If our actual liability for sales and use taxes and federal regulatory fees is different from our accrued liability, it could have a material impact on our financial condition. Each state has different rules and regulations governing sales and use taxes, and these rules and regulations are subject to varying interpretations that may change over time. We review these rules and regulations periodically ~~and,~~ **and** when we believe our services are subject to sales and use taxes in a particular state, we voluntarily engage state tax authorities in order to determine how to comply with their rules and regulations. Vendors of services, like us, are typically held responsible by taxing authorities for the collection and payment of any applicable sales taxes and federal fees. If one or more taxing authorities ~~determines-~~ **determine** that taxes should have, but have not, been paid with respect to our services, we may be liable for past taxes in addition to taxes going forward. Liability for past taxes may also include very substantial interest and penalty charges. Our customer contracts provide that our customers must pay all applicable sales taxes and fees. Nevertheless, customers may be reluctant to pay back taxes and may refuse responsibility for interest or penalties associated with those taxes. If we are required to collect and pay back taxes and the associated interest and penalties, and if our customers fail or refuse to reimburse us for all or a portion of these amounts, we will ~~have incurred---~~ **incur** unplanned expenses that may be substantial. Moreover, **the** imposition of such taxes on our services going forward will effectively increase the cost of such services to our customers and may adversely affect our ability to retain existing customers or to gain new customers in the areas in which such taxes are imposed. We may also become subject to tax audits or similar procedures in states where we already pay ~~-16-~~ sales and use taxes. The assessment of taxes, interest, and penalties as a result of audits, litigation, or otherwise could be materially adverse to our current and future results of operations and financial condition. The terms of the Series F Preferred Stock could limit our growth and our ability to finance our operations, fund our capital needs, respond to changing conditions, and engage in other business activities that may be in our best interests. The Certificate of Designations for the Series F Preferred Stock contains a number of affirmative and negative covenants regarding matters such as the payment of dividends, maintenance of our properties and assets, transactions with affiliates, and our ability to issue other indebtedness. No assurances can be given that we will be able to comply with the financial or other covenants contained in the Certificate of Designations. If we are unable to comply with certain terms in the Certificate of Designations: • dividends will accrue on the Series F Preferred Stock at 20 % per annum; • the holders of the Series F Preferred Stock could foreclose against our assets; and / or • we could be forced into bankruptcy or liquidation. Our ability to comply with these covenants may be adversely affected by events beyond our control, and we cannot assure you that we can maintain compliance with these covenants. The financial covenants could limit our ability to make needed expenditures or otherwise conduct necessary or desirable business activities. ~~- 14-~~ Risks Related to Cybersecurity and Regulations Cyber- attacks, data incidents, malware, or an intrusion into our physical security systems may disrupt our business operations, result in the loss of critical and confidential information, harm our operating results and financial condition, and damage our reputation; and cyber- attacks or data incidents on our customers' networks, or in cloud- based services provided by or enabled by us, could result in claims of liability against us, damage our reputation or otherwise harm our business. In the ordinary course of providing video communications services, we transmit sensitive and proprietary information of our customers. We are dependent on the proper function, availability, and security of our information systems,

including, without limitation, those systems utilized in our operations. We have undertaken measures to protect the safety and security of our inventory and our information systems, and the data maintained within those systems, and on an annual basis, we test the adequacy of our security measures. Despite our implementation of security measures, there can be no assurance our safety and security measures will detect and prevent security incidents in a timely manner or otherwise prevent damage or interruption of our systems and operations or inventory theft. The products and services we sell to customers, and our servers, data centers, and the cloud-based solutions on which our data, and the data of our customers, suppliers, and business partners are stored, are vulnerable to improper functioning, cyber-attacks, data incidents, malware, and similar disruptions from unauthorized access or tampering by malicious actors or inadvertent error. Any such event could compromise our products, services, and networks or those of our customers, and the proprietary information stored on our systems or those of our customers could be improperly accessed, processed, disclosed, lost, or stolen, which could subject us to liability to our customers, suppliers, business partners, and others, give rise to legal / regulatory action, and could have a material adverse effect on our business, operating results, and financial condition and may cause damage to our reputation. A security incident at any one of our physical facilities, such as that which occurred during 2022, could result in a significant loss of inventory or increase expenses relating to the resolution and future prevention of similar thefts, any of which could have an adverse effect on our business, financial condition, and results of operations. Efforts to limit the ability of malicious actors to disrupt the operations of the Internet or undermine our own security efforts may be costly to implement and meet with resistance and may not be successful. Cybersecurity incidents in our customers' networks or in cloud-based services provided by or enabled by us, regardless of whether the incident is attributable to a vulnerability in our products or services, could result in claims of liability against us, damage our reputation, or otherwise harm our business. Vulnerabilities and critical security defects, prioritization decisions regarding remedying vulnerabilities or security defects, failure of third-party providers to remedy vulnerabilities or security defects, or customers not deploying security releases or deciding not to upgrade products, services, or solutions could result in claims of liability against us, damage our reputation or otherwise harm our business. The products and services we sell to customers inevitably contain vulnerabilities or critical security defects which that have not been remedied and cannot be disclosed without compromising security. We may also make prioritization decisions in determining which vulnerabilities or security defects to fix and the timing of these fixes, which could result in an exploit that compromises security. Customers also need to test security releases before they can be deployed, which can delay implementation. In addition, we rely on third-party providers of software and cloud-based service services, and we cannot control the rate at which they remedy vulnerabilities. Customers may also not deploy a security release or decide not to upgrade to the latest versions of our products, services, or cloud-based solutions containing the release, leaving them vulnerable. Vulnerabilities and critical security defects, prioritization errors in remedying vulnerabilities or security defects, failure of third-party providers to remedy vulnerabilities or security defects, or customers not deploying security releases or deciding not to upgrade products, services, or solutions could result in claims of liability against us, damage our reputation or otherwise harm our business. Our business, operating results, and financial condition could be materially harmed by regulatory uncertainty applicable to our products and services. Changes in regulatory requirements applicable to the industries in which we operate, in the United States and in other countries, could materially affect the sales of our products and services. In particular, changes in telecommunications regulations could impact our service provider customers' purchase of our products and offers, and they could also impact sales of our own regulated offers. In addition, evolving legal requirements restricting or controlling the collection, processing, or cross-border transmission of data, including regulation of cloud-based services, could materially affect our customers' ability to use and our ability to sell our products and offers. Additional areas of uncertainty that could impact sales of our products and offers include laws and regulations related to encryption technology, environmental sustainability, export control, product certification, and national security controls applicable to our supply chain. Changes in regulatory requirements in these areas could have a material adverse effect on our business, operating results, and financial condition. - 15- Our network could fail, which could negatively impact our revenues. Our success depends upon our ability to deliver reliable, high-speed access to our channels' and customers' data centers and upon the ability and willingness of our telecommunications providers to deliver reliable, high-speed telecommunications service through their networks. Our network and facilities, and other networks and facilities providing services to us, are vulnerable to damage, unauthorized access, or cessation of operations from human error and tampering, breaches of security, fires, earthquakes, severe storms, power losses, telecommunications failures, software defects, intentional acts of vandalism including computer viruses, and similar events. The occurrence of a natural disaster or other unanticipated problems at the network operations center, key sites at which we locate routers, switches, and other computer equipment that make up the backbone of our service offering and hosted infrastructure, or at one or more of our partners' data centers, could substantially and adversely impact our business. We cannot ensure that we will not experience failures or shutdowns relating to individual facilities or even catastrophic failure of the entire network or hosted infrastructure. Any damage to, or failure of, our systems or service providers could result in reductions in, or terminations of, services supplied to our customers, which could have a material adverse effect on our business and results of operations. Our network depends upon telecommunications carriers..... a material adverse effect on our business. Risks Related to Intellectual Property Our failure to obtain or maintain the right to use certain intellectual property may negatively affect our business. Our future success and competitive position depend in part upon our ability to obtain and maintain certain proprietary intellectual property to be used in connection with our services. While we are not currently engaged in any intellectual property litigation, we could become subject to lawsuits in which it is alleged that we have infringed the intellectual property rights of others, or we could commence lawsuits against others who we believe are infringing upon our rights. Third parties, including customers, may in the future assert claims or initiate litigation related to exclusive patent, copyright, trademark, and other intellectual property rights to technologies and related standards that are relevant to us. Because of the existence of a large number of patents in the networking field, the secrecy of some pending patents, and the rapid rate of issuance of new patents, it is not economically practical or even possible to determine in advance

whether a product or any of its components infringes or will infringe on the patent rights of others. The asserted claims and / or initiated litigation can include claims against us or our manufacturers, suppliers, or customers, alleging infringement of their proprietary rights with respect to our existing or future products or components of those products. Regardless of the merit of these claims, they can be time- consuming ~~and~~ result in costly litigation, and where claims are made by customers, resistance even to unmeritorious claims could damage customer relationships. An adverse outcome as a defendant in any such litigation may result in impacts to the Company including, but not limited to: ~~18~~ • Payment of substantial damages; • Diversion of technical and management personnel; • Cessation of the use, development, or sale of services that infringe upon patented intellectual property; • Entrance into license agreements; and • Expending significant resources to develop or acquire a non-infringing technology. There can be no assurance that that we would be successful in such litigation, that development or licenses will be available on acceptable terms and conditions, if at all, or that our indemnification by our suppliers will be adequate to cover our costs if a claim were brought directly against us or our customers. Furthermore, because of the potential for high court awards that are not necessarily predictable, it is not unusual to find even arguably unmeritorious claims settled for significant amounts. If any infringement or other intellectual property claim made against us by any third party is successful, if we are required to indemnify a customer with respect to a claim against the customer, or if we fail to develop non- infringing technology or license the proprietary rights on commercially reasonable terms and conditions, our business, operating results, and financial condition could be materially and adversely affected. Our exposure to risks associated with the use of intellectual property may be increased as a result of acquisitions, as we have a lower level of visibility into the development process with respect to such technology or the care taken to safeguard against infringement risks. An adverse outcome as a plaintiff in any such litigation, in addition to the costs involved, may, among other things, result in the loss of the intellectual property (such as a patent) that was the subject of the lawsuit by a determination of invalidity or unenforceability, significantly increase competition as a result of such determination, and require the payment of penalties resulting from counterclaims by the defendant. ~~16~~ We may not be able to protect the rights to ~~or~~ enforce ~~our~~ intellectual property. We generally rely on patents, copyrights, trademarks, and trade secret laws to establish and maintain proprietary rights in our technology and products. We have been issued numerous patents, other patent applications are currently pending, and some of our intellectual property is not covered by any patent. If we further develop our services and related intellectual property, we expect to seek additional patent protection. Our patent position is subject to complex factual and legal issues that may give rise to uncertainty as to the validity, scope, and enforceability of a particular patent. Accordingly, we cannot assure that any of the patents owned by us or other patents that other parties license to us in the future will not be invalidated, circumvented, challenged, rendered unenforceable, or licensed to others; any of our pending or future patent applications will be issued with the breadth of claim coverage sought by it ~~if~~ issued at all; or any patents owned by or licensed to us, although valid, will not be dominated by a patent or patents to others having broader claims. Furthermore, many key aspects of networking technology are governed by industry- wide standards, which are usable by all market entrants, and there can be no assurance that patents will be issued from pending applications or that claims allowed on any patents will be sufficiently broad to protect our technology. Additionally, the laws of some foreign countries may not protect our proprietary rights to the same extent as ~~do~~ the laws of the United States. The outcome of any actions taken in these foreign countries may be different than if such actions were determined under the laws of the United States. Although we are not dependent on any individual patent or group of patents for particular segments of the business for which we compete, if we are unable to protect our proprietary rights to the totality of the features (including aspects of products protected other than by patent rights) in a market, we may find ourselves at a competitive disadvantage to others who need not incur the substantial expense, time and effort required to create innovative products that have enabled us to be successful. Failure to protect our existing intellectual property rights may result in the loss of our exclusivity or the right to use our technologies. If we do not adequately ensure our freedom to use certain ~~technology technologies~~, we may have to pay others for ~~the rights- right~~ to use their intellectual property, pay damages for infringement or misappropriation, and / or be enjoined from using such intellectual property. We also seek to protect our proprietary intellectual property, including intellectual property that may not be patented or patentable, in part ~~by~~ ~~through~~ confidentiality agreements. ~~We~~ ~~However, we~~ cannot ensure that these agreements will not be breached, that we will have adequate remedies for any breach, or that such persons will not assert rights to intellectual property arising out of these relationships. A number of our solutions incorporate software provided under open- source licenses, which may restrict or impose certain obligations on how we use or distribute our solutions or subject us to various risks and challenges, which could result in increased development expenses, delays, or disruptions to the release or distribution of those solutions, inability to protect our intellectual property rights and increased competition. Certain significant components of our solutions incorporate or are based upon open- source software, and we may incorporate open- source software into other solutions in the future. Such open- source software is generally licensed under open- source licenses, including, for example, the GNU General Public ~~19~~ License, the GNU Lesser General Public License, " Apache- style" licenses, " BSD- style" licenses, and other open- source licenses. The use of open- source software subjects us to a number of risks and challenges, including, but not limited to: • If open- source software programmers, most of whom we do not employ, do not continue to develop and enhance open ~~-~~ source technologies, our development expenses could increase, and our product release and upgrade schedules could be delayed. • Open- source software is open to further development or modification by anyone. As a result, others may develop such software to be competitive with our platform and may make such competitive software available as open source. It is also possible for competitors to develop their own solutions using open- source software, potentially reducing the demand for ~~and~~ putting price pressure on ~~our~~ solutions. • The licenses under which we license certain types of open- source software may require that, if we modify the open ~~-~~ source software we receive, we are required to make such modified software and other related proprietary software of ours publicly available without cost and on the same terms. In addition, some open- source licenses appear to be permissive in that internal use of the open ~~-~~ source software is allowed ~~but~~ prohibit commercial uses ~~or~~ treat ~~the~~ provision of cloud services as triggering the requirement to make proprietary software

publicly available. Accordingly, we monitor our use of open- source software in an effort to avoid subjecting our proprietary software to such conditions and others we do not intend. Although we believe that we have complied with our obligations under the various applicable licenses for open- source software that we use, our processes used to monitor how open- source software is used could be subject to error. In addition, there is little or no legal precedent governing the interpretation of terms in most of these licenses, and licensors sometimes change their license terms. Therefore, any improper usage of open- source, including a failure to identify changes in license terms, could result in unanticipated obligations regarding our solutions and technologies, which could have an adverse impact on our intellectual property rights and our ability to derive revenue from solutions incorporating the open- source software.

- If an author or other third party that distributes such open- source software were to allege that we had not complied with the conditions of one or more of these licenses, we could be required to incur legal expenses defending against such allegations, or engineering expenses in developing a substitute solution. If we are unable to successfully address the challenges of integrating offerings based upon open- source technology into our business, our business and operating results may be adversely affected, and our development costs may increase.

**- 17- Risks to Owning Our Common Stock** Our stock price has fluctuated in the past, has recently been volatile and may be volatile in the future, and as a result, investors in our common stock could incur substantial losses. Historically, our common stock has experienced substantial price volatility, particularly as a result of variations between our actual financial results and the published expectations of analysts and as a result of announcements by our competitors and us. Furthermore, speculation in the press or investment community about our strategic position, financial condition, results of operations, business, and security of our products or significant transactions can cause changes in our stock price. In addition, the stock market has experienced extreme price and volume fluctuations that have affected the market price of many technology companies, in particular, and that have often been unrelated to the operating performance of these companies. These factors, as well as general economic and political conditions and the announcement of proposed and completed acquisitions or other significant transactions, or any difficulties associated with such transactions, by us or our current or potential competitors, may materially adversely affect the market price of our common stock in the future. The market price for our common stock may be influenced by many factors, including the following:

- conversions of Series F Preferred Stock into common stock and the subsequent sales of common stock;
- investor reaction to our business strategy;
- the success of competitive products or technologies;
- our ability to comply with the continued listing standards of the Nasdaq Capital Market;
- regulatory or legal developments in the United States and other countries, especially changes in laws or regulations applicable to our products;
- variations in our financial results or those of companies that are perceived to be similar to us;
- our ability or inability to raise additional capital and the terms on which we raise it;
- declines in the market prices of stocks generally;
- the trading volume of our common stock;
- sales of our common stock by us or our stockholders;
- general economic, industry, and market conditions;
- the transformation of our business to deliver more software and ~~subscriptions~~ **subscription** offerings where revenue is recognized over time;
- fluctuations in demand for our products and services, especially with respect to distributors and partners, in part due to changes in the global economic environment;
- the introduction and market acceptance of new technologies and products, and our success in new evolving markets and in emerging technologies, as well as the adoption of new standards;
- the ability of our customers, channel partners, contract manufacturers, and suppliers to obtain financing or to fund capital expenditures, especially during a period of global credit market disruption or in the event of a customer, channel partner, contract manufacturer, or supplier financial problem;
- the overall movement toward industry consolidation among both our competitors and our customers;
- changes in sales and implementation cycles for our products and reduced visibility into our customers' spending plans and associated revenue;
- the timing, size, and mix of orders from customers;
- manufacturing and customer lead times;
- how well we execute on our strategy and operating plans and the impact of changes in our business model that could result in significant restructuring charges;
- our ability to achieve targeted cost reductions;
- benefits anticipated from our investments;
- changes in tax law or accounting rules, or interpretations thereof;
- actual events, circumstances, outcomes, and amounts differing from judgments, assumptions, and estimates used in determining the values of certain assets (including the amounts of related valuation allowances), liabilities, and other items reflected in our Consolidated Financial Statements;
- other events or factors, including those resulting from such events, or the prospect of such events, including war, terrorism and other international conflicts, public health issues including health epidemics or pandemics, such as the outbreak of COVID- 19, and natural disasters such as fire, hurricanes, earthquakes, tornados or other adverse weather and climate conditions, whether occurring in the United States or elsewhere, could disrupt our operations, disrupt the operations of our suppliers or result in political or economic instability; and
- the failure of any bank and the resulting economic uncertainty caused by such failures. These broad market and industry factors may seriously harm the market price of our common stock, regardless of our operating performance. Since the stock price of our common stock has fluctuated in the past, has been recently volatile, and may be volatile in the future, investors in our common stock could incur substantial losses. In the past, following periods of volatility in the market, securities class- action litigation has often been instituted against companies. Such litigation, if instituted against us, could result in substantial costs and diversion of management' s attention and resources, which could materially and adversely affect our business, financial condition, results of operations, and growth prospects. There can be no guarantee that our stock price will remain at current prices or that future sales of our common stock will not be at prices lower than those sold to investors.

**- 18-** Throughout much of our corporate history, our common stock has been thinly traded, and therefore has therefore been susceptible to wide price swings. While our common stock has recently experienced increased trading volume, we cannot ensure that this level of trading volume will continue, or that the increased trading volumes will lessen the historic volatility in the price ~~for of~~ our common stock. Thinly traded stocks are more susceptible to significant and sudden price changes and the liquidity of our common stock depends upon the presence in the marketplace of willing buyers and sellers. At any time, the liquidity of our common stock may decrease to the thinly traded levels it has experienced in the past, and we cannot ensure that any holder of our securities will be able to find a buyer for its shares. Further, we cannot ensure that an organized public market

for our securities will continue or that there will be any private demand for our common stock. Additionally, recently, securities of certain companies have experienced significant and extreme volatility in stock price due to short sellers of shares of common stock, known as a “short squeeze.” These short squeezes have caused extreme volatility in those companies and in the market and have led to the price per share of those companies to trade at a significantly inflated rate that is disconnected from the underlying value of the company. Many investors who have purchased shares in those companies at an inflated rate face the risk of losing a significant portion of their original investment as the price per share has declined steadily as interest in those stocks have ~~has~~ abated. While we have no reason to believe our shares would be the target of a short squeeze, there can be no assurance that we will not be in the future, and you may lose a significant portion or all of your investment if you purchase our shares at a rate that is significantly disconnected from our underlying value. Penny stock regulations may impose certain restrictions on the marketability of our securities. The SEC has adopted regulations ~~which that~~ generally define a “penny stock” to be any equity security that has a market price of less than \$ 5. 00 per share, subject to certain exceptions. Our common stock is presently subject to these regulations, which impose additional sales ~~-21-~~ practice requirements on broker- dealers who sell such securities to persons other than established customers and accredited investors (generally those with a net worth in excess of \$ 1, 000, 000 or annual income exceeding \$ 200, 000, or \$ 300, 000 together with their spouse). For transactions covered by these rules, the broker- dealer must make a special suitability determination for the purchase of such securities and have received the purchaser’s written consent to the transaction prior to the purchase. Additionally, for any transaction involving a “penny stock,” unless exempt, the rules require the delivery, prior to the transaction, of a risk disclosure document mandated by the SEC relating to the “penny stock” market. The broker- dealer must also disclose the commission payable to both the broker- dealer and the registered representative, current quotations for the securities, and, if the broker- dealer is the sole market maker, the broker- dealer must disclose this fact and the broker- dealer’s presumed control over the market. Finally, monthly statements must be sent disclosing recent price information for the “penny stock” held in the account and information on the limited market in “penny stocks.” Consequently, the “penny stock” rules may restrict the ability of broker- dealers to sell our securities and may negatively affect the ability of purchasers of our shares of common stock to sell such securities. Future operating results may vary from quarter to quarter, and we may fail to meet the expectations of securities analysts and investors at any given time. We have experienced, and may continue to experience, significant quarterly fluctuations in operating results. Factors that cause fluctuation in our results of operations include a lack of revenue growth or declines in revenue and, declines in gross margins, and increases in operating expenses. Accordingly, it is possible that in one or more future quarters, our operating results will be adversely affected and fall below the expectations of securities analysts and investors. If this happens, the trading price of our common stock may decline. Sales of substantial amounts of common stock in the public market, or the perception that such sales may occur, could reduce the market price of our common stock and make it more difficult for us and our stockholders to sell our equity securities in the future. The sale into the public market of a significant number of shares of common stock by our existing shareholders, or the resale into the public market of shares issued in prior or future financings, could depress the trading price of our common stock and make it more difficult for us or our stockholders to sell equity securities in the future. Such transactions may include, but are not limited to (i) conversions of Series F Preferred Stock into common stock and the subsequent sales of such common stock, (ii) any future issuances by us of additional shares of our common stock or of other securities that are convertible or exchangeable for shares of common stock; and (iii) the resale of any previously issued but restricted shares of our common stock that become freely available for re- sale, whether through an effective registration statement or under Rule 144 of the Securities Act. While the sale of shares to the public might increase the trading volume of our common stock and, thus, the liquidity of our stockholders’ investments, the resulting increase in the number of shares available for public sale could drive the price of our common stock down, thus reducing the value of our stockholders’ ~~investment investments~~ and perhaps hindering our ability to raise additional funds in the future. ~~-19-~~ The issuance of the securities in the March 2023 private placement significantly diluted the ownership interest of the existing holders of our common stock, and the market price of our common stock has declined significantly as a result of sales of such securities into the public market by the private placement investors and subsequent investors or the perception that such sales may occur. Our existing holders of common stock have been significantly diluted by the issuance of the securities in the March 31, 2023 private placement. Our public float was significantly increased and the market price of our common stock has declined significantly as a result of subsequent sales of the shares of common stock obtained from conversions of Series F Preferred Stock issued in the private placement. In addition, the exercise price or conversion price of these securities may be at prices below the current and / or then trading prices of shares of our common stock or at prices below the price at which our existing shareholders purchased our common stock. The private placement investors may potentially make a significant profit with the resale of the securities depending on the trading price of our securities at the time of a sale and the purchase price of such securities by them. While the private placement investors may experience a positive rate of return based on the trading price of our securities, the existing holders of our common stock may not experience a similar rate of return on the shares of common stock they purchased due to differences in the applicable purchase price and trading price. We might need to raise additional capital by issuing securities or debt, which may cause significant dilution to our stockholders and restrict our operations. We believe that our existing cash and cash equivalents will be sufficient to fund our operations and meet our working capital requirements for at least the next 12 months from the filing date of this Report with the SEC. However, we believe additional capital will be required in the long ~~-to~~ term ~~-to~~ fund operations and provide growth capital, including potential strategic alternatives and investments in technology, product development, and sales and marketing. Additional financing may not be available when we need it or may not be available on favorable terms. To the extent that we raise additional capital by issuing equity securities, the terms of such ~~an~~ issuance may cause more significant dilution to our ~~-22-~~ stockholders’ ownership, and the terms of any new equity securities may have preferences over the combined organization’s common stock. Any debt financing we enter into may involve covenants that restrict our operations. These restrictive covenants may include limitations on

additional borrowing and specific restrictions on the use of our assets, as well as prohibitions on our ability to create liens, pay dividends, redeem stock, or make investments. Our charter documents and Delaware law could discourage takeover attempts and lead to management entrenchment. The Company's certificate of incorporation and amended and restated bylaws contain provisions that could delay or prevent a change in control of the company. These provisions could also make it difficult for stockholders to elect directors that who are not nominated by the current members of the board of directors or take other corporate actions, including effecting changes in the Company's management. These provisions include: • no cumulative voting in the election of directors, which limits the ability of minority stockholders to elect director candidates; • the ability of our board of directors to issue shares of preferred stock and to determine the price and other terms of those shares, including preferences and voting rights, without stockholder approval, which could be used to significantly dilute the ownership of a hostile acquirer; • the exclusive right of our board of directors to elect a director to fill a vacancy created by the expansion of our board of directors or the resignation, death, or removal of a director, which prevents stockholders from being able to fill vacancies on its board of directors; • the requirement that a special meeting of stockholders may be called only by the chairman of our board of directors or a majority of our board of directors, which could delay the ability of our stockholders to force consideration of a proposal or to take action, including the removal of directors; • the ability of our board of directors, by majority vote, to amend the Company's amended and restated bylaws, which may allow our board of directors to take additional actions to prevent an unsolicited takeover and inhibit the ability of an acquirer to amend the amended and restated bylaws to facilitate an unsolicited takeover attempt; and • advance notice procedures with which stockholders must comply to nominate candidates to our board of directors or to propose matters to be acted upon at a stockholders' meeting, which may discourage or deter a potential acquirer from conducting a solicitation of proxies to elect the acquirer's own slate of directors or otherwise attempting to obtain control of the Company.

~~20-~~ We could fail to satisfy the standards to maintain our listing on a stock exchange. Our Common Stock is listed on The Nasdaq Capital Market. In order to maintain that listing, we must satisfy minimum financial and other continued listing requirements and standards. ~~On~~ ~~Previously, on~~ September 21, 2023, we received a letter ~~written notice~~ from the listing qualifications staff of Nasdaq ~~providing notification~~ ~~Stock Market, LLC ("Nasdaq")~~ ~~indicating~~ that the ~~Company was not in compliance with the~~ bid price for our Common Stock had closed below \$ 1.00 per share for the previous 30 consecutive business days and our Common Stock no longer met the minimum bid price requirement set forth in continued listing under Nasdaq Listing Rule 5550 (a) (2) ~~for continued listing on The Nasdaq Listing Capital Market (the "Bid Price Rule 5810").~~ We were granted two 180-day extensions ~~(e-until~~ ~~September 16, 2024)~~ (3) (A), we were provided an initial period of 180 calendar days, until March 19, 2024, in which to regain compliance with ~~To regain compliance, the Bid closing bid price~~ ~~Price Rule~~ of our Common Stock must meet or exceed \$ 1.00 per share ~~On September 10, 2024, we received written notice from Nasdaq notifying the Company that it had determined that for the last a minimum of 10 consecutive business days, from August 26 to September 9, 2024, the closing bid price of the Company's Common Stock had been at any time before \$ 1.00 per share or greater and that, accordingly, the Company had regained~~ expiration of the initial compliance period ~~with the Bid Price Rule, and that the matter was now closed~~. In the event that we are unable to regain compliance with Rule 5550 (a) (2) during the initial compliance period, Nasdaq rules provide that we may be eligible for an additional 180 calendar day compliance period. To qualify, we need to meet the continued listing requirement for market value of publicly held shares and all other initial listing standards for the Nasdaq Capital Market, with the exception of the minimum bid price requirement, and to provide written notice of our intention to cure the deficiency during the second compliance period by effecting a reverse stock split, if necessary. The Company believes that we will receive the extension, though there can be no assurances. In the event that we are unable to establish compliance, or again become non-compliant, with Rule 5550 (a) (2) or other continued listing requirements of Nasdaq and cannot re-establish compliance within the required timeframe, our Common Stock could be delisted from The Nasdaq Capital Market, which could have a material adverse effect on our financial condition and which may cause the value of our Common Stock to decline. If our Common Stock is not eligible for listing or quotation on another market or exchange, trading of our Common Stock could be conducted in the over-the-counter market or on an electronic bulletin board established for unlisted securities, such as the Pink Sheets or the OTC Bulletin Board. In such an event, it would become more difficult to dispose of, or obtain accurate price quotations for, our Common Stock, and there would likely be a reduction in our coverage by security analysts and the news media, which could cause the price of our Common Stock to decline further. In addition, it may be difficult for us to raise additional capital if we are not listed on a national securities exchange. While Nasdaq rules do not impose a specific limit on the number of times a listed company may effect a reverse stock split to maintain or regain compliance with Listing Rule 5810 (c) (3) (A), Nasdaq has stated that a series of reverse stock splits may ~~23-~~ undermine investor confidence in securities listed on Nasdaq. Accordingly, Nasdaq may determine that it is not in the public interest to maintain our listing, even if we regain compliance with Listing Rule 5810 (c) (3) (A) as a result of any reverse stock split. In addition, Nasdaq Listing Rule 5810 (c) (3) (A) (iv) states that any listed company that fails to meet Listing Rule 5810 (c) (3) (A) after effecting one or more reverse stock splits over the prior two-year period with a cumulative ratio of 250 shares or more to one, then the company will not be eligible for an automatic 180-day grace compliance period and the Nasdaq Listing Qualifications Department is obligated to immediately issue a delisting determination. ~~Our authorized reverse stock split may decrease the liquidity of the shares of our Common Stock. On December 4, 2023, the Company's stockholders approved a proposal to amend Article FOURTH of the Company's certificate of incorporation to effect a reverse stock split of the Company's issued and outstanding shares of Common Stock by a ratio ranging from 1-for-10 to 1-for-45. Our Board of Directors now has the authority to determine whether to implement a reverse stock split and to select the reverse stock split ratio from the range approved by the Company's stockholders. The Board expects to authorize the consummation of the reverse stock split only if and to the extent necessary to meet the listing requirements of the Nasdaq Capital Market. The liquidity of the shares of our Common Stock may be affected adversely by the reverse stock split given the reduced number of shares that are~~

outstanding following the reverse stock splits. In addition, the reverse stock split may increase the number of stockholders who own odd lots (less than 100 shares) of our Common Stock, creating the potential for such stockholders to experience an increase in the cost of selling their shares and greater difficulty effecting such sales.

**General Risks** We incur significant accounting and administrative costs as a publicly traded corporation that impact our financial condition. As a publicly traded corporation, we incur certain costs to comply with regulatory requirements. If regulatory requirements were to become more stringent or if controls thought to be effective later fail, we may be forced to make additional expenditures, the amounts of which could be material. Some of our competitors are privately owned, so their comparatively lower accounting and administrative costs can be a competitive disadvantage for us. Should our sales continue to decline or if we are unsuccessful at increasing prices to cover higher expenditures for internal controls and audits, our costs associated with regulatory compliance will rise as a percentage of sales. Our cash and cash equivalents could be adversely affected if the financial institutions in which we hold our cash and cash equivalents fail. Actual events involving limited liquidity, defaults, non-performance, or other adverse developments that affect financial institutions, transactional counterparties, or other companies in the financial services industry or the financial services industry generally, or concerns or rumors about any events of these kinds or other similar risks, have in the past and may in the future lead to market-wide liquidity problems. If we were unable to access all or a significant portion of the amounts we have deposited at financial institutions for any extended period of time, we may not be able to pay our operational expenses or make other payments until we are able to move our funds to accounts at one or more other financial institutions, which process could cause a temporary delay in making payments to our vendors and employees and cause other operational challenges.

**Item 1B. Unresolved Staff Comments** None.

**Item 1C. Cybersecurity Risk Management and Strategy** We have a multilayered framework for detecting, and responding to reasonably foreseeable cybersecurity risks and threats. To protect our information technology (“IT”), systems from cybersecurity threats, we use various tools that help prevent, detect, escalate, investigate, resolve, and recover from identified vulnerabilities and security incidents in a timely manner. In the event of a material change to our systems or operations, we would assess the internal and external threats to the security, confidentiality, integrity, and availability of our data and systems, along with other material risks to our operations. We leverage technical safeguards intended to protect the Company’s information systems from cybersecurity threats, including firewalls, threat monitoring, intrusion prevention and detection systems, anti-malware, access controls, privilege management, network segmentation, asset and end point management, and ongoing system security assessments. We oversee third-party service providers by conducting vendor diligence and reviews on a regular basis. We monitor and evaluate our cybersecurity posture and performance on an ongoing basis through regular network scans, system audits, and assessing intelligence feeds. The results of these assessments are used to improve our security posture through remediation efforts. We have developed an incident management process designed to coordinate the activities to prepare to respond and recover from cybersecurity incidents, which include processes to triage, assess severity, investigate, escalate, contain, and remediate an incident, as well as to comply with potentially applicable legal obligations and mitigate any reputational damage.

**24** Our business strategy, results of operations, and financial condition have not been materially affected as a result of previously identified cybersecurity incidents, but we cannot provide assurance that they will not be materially affected in the future by such risks or any future material incidents. For more information on our cybersecurity-related risks, see “Item 1A, Risk Factors” in this Annual Report.

**Governance** Oblong’s IT team is responsible for assessing and managing cybersecurity risks and has a depth of experience focused on increasing the organization’s resilience to security threats and stays current on new developments through monitoring of the cybersecurity landscape. Oblong’s IT environment is monitored for potential security threats and security events are investigated and acted on to minimize potential risk to the environment. Oblong’s Audit Committee engages in oversight of Oblong’s cybersecurity risks and receives regular updates from management on technology and security updates and Oblong’s assessment of cybersecurity threats and mitigation plans. The Audit Committee oversees the processes over internal controls and financial reporting that includes controls and procedures that are designed to ensure that significant cybersecurity incidents are communicated to both senior management and the Audit Committee. In the event of a material cybersecurity incident affecting our IT systems or data management, the Audit Committee would promptly work to formulate a mitigation plan and review compliance with such plan, as well as to ensure compliance with any external regulatory or disclosure requirements, including any disclosures of material cybersecurity incidents.

**Item 2. Properties** As of December 31, 2023, we leased a facility in City of Industry, California, providing warehouse space. This lease expired in February 2024. During 2023, and through the date of this filing, we exited the City of Industry, CA lease as well as leases in Austin, TX and Los Angeles, CA. We are currently in the process of securing a warehouse facility in, or around, Denver, CO. During the interim, our inventory is being stored in a secured third party location. With the exception of warehouse space described above, we currently operate out of remote employment sites with a remote office located at 110-16th Street, Suite 1400-1024, Denver, CO 80202. For additional information regarding our obligations under leases, see Note 8—Operating Lease Liabilities and Right-of-Use Assets to the Consolidated Financial Statements contained in Part II, Item 8 of this Annual Report.

**Item 3. Legal Proceedings** From time to time, we are subject to various legal proceedings arising in the ordinary course of business, including proceedings for which we have insurance coverage. As of the date hereof, we are not party to any legal proceedings that we currently believe will have a material adverse effect on our business, financial position, results of operations or liquidity.

**Item 4. Mine Safety Disclosures** Not applicable.

**PART II**

**Item 5. Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.** **Market Information** The Company’s common stock trades on the Nasdaq Capital Market under the symbol “OBLG.” On March 8, 2024, the closing sale price of our common stock was \$ 0.16 per share as reported on the Nasdaq Capital Market, and 16,684,571 shares of our common stock were issued and outstanding. As of March 8, 2024, there were 147 holders of record of our common stock. Equiniti is the transfer agent and registrar of our common stock. **Dividends** Our board of directors has never declared or paid any cash dividends on our common stock and does not expect to do so for the foreseeable future. We currently intend to retain any earnings to finance the growth and development of our business. Our 25-board of

directors will make any future determination of the payment of dividends based upon conditions then existing, including our earnings, financial condition and capital requirements, as well as such economic and other conditions as our board of directors may deem relevant. Recent Sales of Unregistered Securities Except as previously reported by us on our Current Reports on Form 8-K, we did not sell any securities during the period covered by this Annual Report that were not registered under the Securities Act. Item 6. Reserved Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations The following discussion should be read in conjunction with our consolidated balance sheets as of December 31, 2023 and 2022, and the related consolidated statements of operations, stockholders' equity and cash flows for each of the years ended December 31, 2023 and 2022, and the related notes attached thereto. All statements contained herein that are not historical facts, including, but not limited to, statements regarding anticipated future capital requirements, our future development plans, our ability to obtain debt, equity or other financing, and our ability to generate cash from operations, are based on current expectations. The discussion of results, causes and trends should not be construed to imply any conclusion that such results or trends will necessarily continue in the future. We are a provider of patented multi-stream collaboration products and managed services for video collaboration and network solutions. The Company currently operates in two segments: (1) "Collaboration Products," which represents the business surrounding our Mezzanine™ product offerings, and (2) "Managed Services," which represents the business surrounding managed services for video collaboration and network solutions. Our flagship product is called Mezzanine™, a family of turn-key products that enable dynamic and immersive visual collaboration across multi-users, multi-screens, multi-devices, and multi-locations (see further description of Mezzanine™ in Part I, Item 1). Mezzanine™ allows multiple people to share, control and arrange content simultaneously, from any location, enabling all participants to see the same content in its entirety at the same time in identical formats, resulting in dramatic enhancements to both in-room and virtual videoconference presentations. Applications include video telepresence, laptop and application sharing, whiteboard sharing and slides. Spatial input allows content to be spread across screens, spanning different walls, sealable to an arbitrary number of displays and interaction with our proprietary wand device. Mezzanine™ substantially enhances day-to-day virtual meetings with technology that accelerates decision making, improves communication, and increases productivity. Mezzanine™ scales up to support the most immersive and commanding innovation centers; across to link labs, conference spaces, and situation rooms; and down for the smallest work groups. Mezzanine's digital collaboration platform can be sold as delivered systems in various configurations for small teams to total immersion experiences. The family includes the 200 Series (two display screen), 300 Series (three screen), and 600 Series (six screen). We also sell maintenance and support contracts related to Mezzanine™. Historically, customers have used Mezzanine™ products in traditional office and operating center environments such as conference rooms or other presentation spaces. As discussed below, sales of our Mezzanine product have been adversely affected by commercial response to the COVID-19 pandemic and its aftermath. Like many technology companies in recent months, we will continue to monitor and manage our costs relative to demand with the goal of growing the Company's revenue in the future. To the extent we believe new investments in product development, marketing, or sales are warranted as a result of changes in market demand, we believe additional capital will be required to fund those efforts and our ongoing operations. We provide a range of managed services for video collaboration, from automated to orchestrated, to simplify the user experience in an effort to drive adoption of video collaboration throughout our customers' enterprise. We deliver our services through a hybrid service platform or as a service layer on top of our customers' video infrastructure. We provide our customers with i) managed videoconferencing, where we set up and manage customer videoconferences and ii) remote service management, where we provide 24/7 support and management of customer video environments.

26 Year Ended December 31, 2023 ("2023") versus Year Ended December 31, 2022 ("2022") Segment Reporting The Company currently operates in two segments for purposes of segment reporting: (1) "Collaboration Products," which represents the Oblong Industries business surrounding our Mezzanine™ product offerings and (2) "Managed Services," which represents the Oblong (formerly Glowpoint) business surrounding managed services for video collaboration and network solutions. Certain information concerning the Company's segments for the years ended December 31, 2023 and 2022, is presented in the following table (in thousands):

	Year Ended December 31, 2023	Year Ended December 31, 2022
<b>Collaboration Products</b>		
Corporate Total Revenue	\$ 2,518	\$ 1,292
Cost of revenues	\$ 1,671	\$ 1,228
Gross profit	\$ 847	\$ 64
Gross profit %	34%	5%
Allocated operating expenses	\$ 348	\$ 484
Unallocated operating expenses	\$ 4,922	\$ 4,922
Total operating expenses	\$ 5,406	\$ 5,406
Income (loss) from operations	\$ (417)	\$ (4,922)
Interest and other income, net	\$ (138)	\$ (138)
Income (loss) before income taxes	\$ (4,784)	\$ (4,357)
Income tax expense	\$ 11	\$ 16
Net income (loss)	\$ (4,795)	\$ (4,373)
Year Ended December 31, 2023 Total assets	\$ 367	\$ 568
Year Ended December 31, 2022 Total assets	\$ 5,990	\$ 6,925
<b>Managed Services</b>		
Corporate Total Revenue	\$ 3,348	\$ 2,128
Cost of revenues	\$ 2,273	\$ 1,657
Gross profit	\$ 1,075	\$ 471
Gross profit %	32%	22%
Allocated operating expenses	\$ 19	\$ 18,355
Unallocated operating expenses	\$ 5,160	\$ 5,160
Total operating expenses	\$ 18,374	\$ 23,515
Income (loss) from operations	\$ (17,884)	\$ (21,988)
Interest and other (income) expense, net	\$ (52)	\$ (40)
Income (loss) before income taxes	\$ (18,336)	\$ (22,028)
Income tax benefit	\$ (4)	\$ (3)
Net income (loss)	\$ (18,340)	\$ (22,031)
Year Ended December 31, 2022 Total assets	\$ 752	\$ 1,824
Year Ended December 31, 2023 Total assets	\$ 3,085	\$ 5,661

Unallocated operating expenses in Corporate include costs that are not specific to a particular segment but are general to the group; included are expenses incurred for administrative and accounting staff, general liability and other insurance, professional fees and other similar corporate expenses. Unallocated assets consist of unrestricted cash. Revenue. Total revenue decreased 30.4% for the year ended December 31, 2023 compared to the year ended December 31, 2022. The following table summarizes the changes in components of our revenue, and the significant changes in revenue are discussed in more detail below (in thousands):

	Year Ended December 31, 2023	% of Revenue	2022	% of Revenue
Revenue: Managed Services	\$ 183	5%	\$ 334	6%
Revenue: Network services	\$ 2,301	60%	\$ 2,954	54%
Professional and other services	\$ 341	60%	\$ 601	60%
Total Managed Services	\$ 183	5%	\$ 334	6%

revenue \$ 2,518,666 % \$ 3,348,610 % Revenue: Collaboration Products Visual collaboration product offerings \$ 1,291,340 % \$ 2,114,390 % Licensing 1 — % \$ 14 — % Total Collaboration Products revenue \$ 1,292,340 % \$ 2,128,390 % Total consolidated revenue \$ 3,810,100 % \$ 5,476,100 % • The year over year decrease in revenue for video collaboration services is mainly attributable to lower revenue from existing customers (either from reductions in price or level of services) and loss of customers to competition. — 28 — • The year over year decrease in revenue for network services is mainly attributable to net attrition of customers and lower demand for our services given the competitive environment and pressure on pricing that exists in the network services business. • We expect revenue declines in our Managed Services segment will continue in the future. • Customers generally use our Mezzanine™ products in traditional office and operating center environments such as conference rooms or other presentation spaces. The year over year decrease in revenue for our Collaboration Products business is due to lower demand, largely a consequence of the work–place reactions to the COVID–19 pandemic and its prolonged effects. We believe the pandemic has fundamentally altered the way businesses consider the use of physical office spaces and, consequently, the demand for technologies that enable in–person collaboration within these spaces. Our analysis indicates that the reduced demand for our Mezzanine™ products, particularly in the aftermath of COVID–19, reflects a broader reassessment among our customers regarding the necessity and investment in collaboration solutions tailored for traditional office environments. Cost of Revenue (exclusive of depreciation and amortization). Cost of revenue, exclusive of depreciation and amortization and casualty (gain)/loss, includes all internal and external costs related to the delivery of revenue. Cost of revenue also includes taxes which have been billed to customers. Cost of revenue by segment is presented in the following table (in thousands):

Year Ended	December 31, 2023	December 31, 2022	Cost of Revenue	Managed Services	\$ 1,671	\$ 2,273	Collaboration Products	1,228	1,657	Total cost of revenue	\$ 2,899	\$ 3,930																												
The year over year decrease in cost of revenue is mainly attributable to lower costs associated with the decrease in revenue during the same period. The Company’s gross profit as a percentage of revenue was 24 % in 2023 compared to 28 % in 2022. This decrease in gross profit was primarily due to the decline in gross profit percentage for our Collaboration Products segment. The gross profit as a percentage of revenue for our Collaboration Products segment was 5 % in 2023 compared to 22 % in 2022. This decrease was mainly attributable to an increase in our inventory obsolescence reserve as a percentage of sales in 2023 vs. 2022. Operating expenses are presented in the following table (in thousands):																																								
Year Ended	December 31, 2023	December 31, 2022	\$ Change	% Change	Operating expenses (gains):	Research and development	\$ 20	\$ 1,699	(\$ 1,679)	(99) %	Sales and marketing	309	1,431	(\$ 1,122)	(78) %	General and administrative	4,870	5,278	(408)	(8) %	Impairment charges	262	12,740	(12,478)	(98) %	Casualty (gain) loss, net	(400)	483	(883)	100 %	Depreciation and amortization	345	1,903	(1,558)	(82) %	Total operating expenses	\$ 5,406	\$ 23,534	(\$ 18,128)	(77) %

Research and development expenses include internal and external costs related to developing features and enhancements to our existing product offerings. The year over year decrease in research and development expenses for 2023 compared to 2022 is primarily attributable to the ceasing of the majority of R & D activities during late 2022, which resulted in lower personnel costs due to reduced headcount and a reduction in consulting and outsourced labor costs between these periods. — 29 — Sales and Marketing. The year over year decrease in sales and marketing expenses for 2023 compared to 2022 is primarily attributable to lower personnel costs due to reduced headcount and reduced marketing expenses year over year. General and Administrative. General and administrative expenses include direct corporate expenses related to costs of personnel in the various corporate support categories, including executive, legal, finance and accounting, human resources and information technology. The year over year decrease in general and administrative expenses in 2023 compared to 2022 is mainly attributable to decreases of \$ 344,000 in software license expense, and a \$ 170,000 reduction to bad debt expense. Impairment Charges. The impairment charges in 2023 are primarily attributable to impairment charges of \$ 259,000 related to intangible assets. The impairment charges in 2022 are attributable to impairment charges of \$ 7,367,000 related to goodwill, impairment charges of \$ 5,133,000 related to intangible assets, impairment charges of \$ 59,000 related to property and equipment, and impairment charges of \$ 179,000 related to right–of–use assets associated with two of our Los Angeles, CA leases. Casualty Loss (Gain), net. In June 2022, the Company discovered that \$ 533,000 of inventory was stolen from the Company’s warehouse in City of Industry, California. During 2022 and 2023, we received recovery payments from our insurance policies of \$ 50,000 and \$ 400,000, respectively, resulting in a net casualty loss of \$ 483,000 in 2022 and a casualty gain of \$ 400,000 in 2023. We do not expect any further recovery of the loss. Depreciation and Amortization. The year over year decrease in depreciation and amortization expenses in 2023 compared to 2022 is attributable to the disposition and impairment of certain assets during 2022 and 2023. Loss from Operations. The year over year decrease in the Company’s loss from operations is mainly attributable to the reduction in impairment charges and other operating expenses as addressed above. Interest and Other Income, Net. Interest and other income, net in 2023 and 2022 was primarily comprised of interest income related to our cash accounts, partially offset by interest expense. Income Tax Benefit. We recorded income tax expense of \$ 27,000 in 2023 and income tax benefit of \$ 7,000 in 2022 (see Note 15–Income Taxes to our Consolidated Financial Statements). Liquidity and Capital Resources As of December 31, 2023, we had \$ 5,990,000 of cash and cash equivalents, and \$ 5,498,000 of working capital. For the years ended December 31, 2023 and 2022, we incurred net losses of \$ 4,384,000 and \$ 21,941,000, respectively, and net cash used in operating activities was \$ 2,993,000 and \$ 5,934,000, respectively. Net cash provided by investing activities for 2022 was \$ 19,000, primarily related to the sale of property and equipment. There was no cash flow activity related to investing activities for 2023. Net cash provided by financing activities for 2023 was attributable to a private placement resulting in net proceeds of \$ 5,364,000 and warrant exercises resulting in net proceeds of \$ 534,000 (see Note 9–Capital Stock and Note 10–Preferred Stock to our Consolidated Financial Statements). There was no cash flow related to financing activities for 2022. Future Capital Requirements See Note 14–Commitments and Contingencies to our Consolidated Financial Statements for discussion regarding certain additional factors that could impact the Company’s liquidity in the future. — 30 — Critical Accounting Policies We prepare our Consolidated Financial Statements in accordance with U. S. Generally Accepted Accounting Principles (“ GAAP ”). Our significant accounting policies are described in Note 1–Business Description and Significant Accounting Policies to our Consolidated

Financial Statements attached hereto. We believe the following critical accounting policies involve the most significant judgments and estimates used in the preparation of our Consolidated Financial Statements.

**Revenue Recognition**—The Company accounts for revenue in accordance with Accounting Standards Codification (“ASC”) Topic 606. The Company recognizes revenue using the five-step model as prescribed by Topic 606: • Identification of the contract, or contracts, with a customer; • Identification of the distinct performance obligations in the contract; • Determination of the transaction price; • Allocation of the transaction price to the performance obligations in the contract; and • Recognition of revenue when or as the Company satisfies a performance obligation. The Company’s managed videoconferencing services are offered to our customers on either a usage basis or on a subscription basis. Our network services are offered to our customers on a subscription basis. Revenue for these services is generally recognized on a monthly basis as services are performed. Revenue related to professional services is recognized at the time the services are performed. The costs associated with obtaining a customer contract are deferred on our consolidated balance sheet and amortized over the expected life of the customer contract. There was no deferred revenue related to Managed Services as of December 31, 2023. During the year ended December 31, 2023, the Company recorded \$ 1, 000 of revenue that was included in deferred revenue as of December 31, 2022. During the year ended December 31, 2022, the Company recorded \$ 7, 000 of revenue that was included in deferred revenue as of December 31, 2021. The Company’s visual collaboration products are composed of hardware and embedded software sold as a complete package, and generally include installation and maintenance services. Revenue for hardware and software is recognized upon shipment to the customer. Installation revenue is recognized upon completion of installation, which also triggers the beginning of recognition of revenue for maintenance services which range from one to three years. Revenue is recognized over time for maintenance services. Licensing agreements are for the Company’s core technology platform, g- speak, and are generally one year in length. Revenue for these services is recognized ratably over the service period. Deferred revenue, as of December 31, 2023, totaled \$ 158, 000 as certain performance obligations were not satisfied as of this date. During the year ended December 31, 2023, the Company recorded \$ 435, 000 of revenue that was included in deferred revenue as of December 31, 2022. During the year ended December 31, 2022, the Company recorded \$ 776, 000 of revenue that was included in deferred revenue as of December 31, 2021. Revenue recorded over time for the years ended December 31, 2023 and 2022 was \$ 516, 000 and \$ 970, 000, respectively. Revenue recorded at a period in time for the years ended December 31, 2023 and 2022 was \$ 3, 294, 000 and \$ 4, 506, 000, respectively.

**Long-Lived Assets and Intangible Assets**—Intangible assets are accounted for in accordance with ASC Topic 350 “Intangibles—Goodwill and Other” (“ASC Topic 350”), and intangible assets with finite lives are amortized using the straight-line method over the estimated economic lives of the assets, which initially ranged from five to twelve years. Intangible assets, net of accumulated amortization totaled zero and \$ 604, 000 as of December 31, 2023 and 2022, respectively.

**Right-of-use Assets**—Right-of-use Assets are accounted for in accordance with ASC Topic 842 “Leases” (“ASC Topic 842”), and are amortized using a straight-line method over the estimated life of the lease. Right-of-use assets, net totaled \$ 17, 000 and \$ 142, 000, as of December 31, 2023 and 2022, respectively. During 2022 and 2023, the Company leased facilities for office space and a warehouse under non-cancellable operating leases for its U. S. locations, and accounts for these leases in accordance with ASC 842. Operating lease right-of-use assets and liabilities are recognized at commencement date based on the present value of lease payments over the expected lease term. Right-of-use assets represent our right to use an underlying asset for the lease term and lease liabilities represent our obligation to make lease payments arising from the lease. Since our lease arrangements do not provide an implicit rate, we use our estimated incremental borrowing rate for the expected remaining lease term at commencement date in determining the present value of future lease payments. The Company assesses the impairment of our long-lived assets subject to amortization when events and circumstances indicate that the carrying value of the assets might not be recoverable. The determination of related estimated useful lives and whether or not these assets are impaired involves significant judgments, related primarily to the future profitability and / or future value of the assets. Changes in the Company’s strategic plan and / or other than temporary changes in market conditions could significantly impact these judgments and could require adjustments to recorded asset balances. Long-lived assets are evaluated for impairment whenever an event or change in circumstances has occurred that could have a significant adverse effect on the fair value of long-lived assets. During the year ended December 31, 2023, we considered the declines in revenue for the Collaboration Products reporting segment and the decline in the Company’s market capitalization to be triggering events for an impairment test of our long-lived and intangible assets for this reporting unit. Based on the corresponding recoverability tests of the asset group for this reporting unit, it was determined that the carrying value exceeded the gross cash flows of the asset group. The recoverability tests consisted of comparing the estimated undiscounted cash flows expected to be generated by those assets to the respective carrying amounts, and involves significant judgements and assumptions, related primarily to the future revenue and profitability of the assets. During the year ended December 31, 2022, the Company recorded impairment charges of \$ 61, 000 on property and equipment assets. For the year ended December 31, 2023, the Company recorded impairment charges of \$ 259, 000 on purchased intangible assets. See Note 6—Intangible Assets and Goodwill for further discussion. The Company recorded impairment Charges of \$ 5, 133, 000 to purchased intangible assets for the year ended December 31, 2022. We tested goodwill for impairment on an annual basis, on September 30th of each year, unless events occurred or circumstances changed indicating that the fair value of the goodwill may be below its carrying amount. During the year ended December 31, 2022, we considered the sustained decline in our stock price to be a triggering event for an interim goodwill impairment test, as of both March 31, 2022 and June 30, 2022. To determine the fair value of the reporting unit for the goodwill impairment test, we used a weighted average of the discounted cash flow method and market-based method. During the year ended December 31, 2022, we recorded impairment charges of \$ 7, 367, 000 against goodwill, reducing the goodwill on our Consolidated Balance Sheets to zero. Right-of-use assets are tested for impairment using guidance from ASC Topic 360. For the year ended December 31, 2023, did not record any impairment charges on right-of-use assets. The Company recorded aggregate impairment charges of \$ 179, 000 on two right-of-use assets for the year ended December 31, 2022.

**Off-Balance Sheet Arrangements**—As of

December 31, 2023 and 2022, we had no off-balance sheet arrangements.

**32- Recent Accounting Pronouncements** See the sections titled “Summary of Significant Accounting Policies- Recently adopted accounting pronouncements” and “Recent accounting pronouncements not yet adopted” in Note 1- Business Description and Significant Accounting Policies to our Consolidated Financial Statements for more information.

**Item 7A. Quantitative and Qualitative Disclosures About Market Risk** Not applicable.

**Item 8. Financial Statements and Supplementary Data** The information required by this Item 8 is incorporated by reference herein from Item 15, Part IV, of this Report.

**Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure**

**Item 9A. Controls and Procedures Disclosure** Controls and Procedures The Company’s management, with the participation of the Company’s Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of the Company’s disclosure controls and procedures (as such term is defined in Rules 13a-15 (c) and 15d-15 (c) under the Exchange Act) as of December 31, 2023. Based on such evaluation, the Company’s Chief Executive Officer and Chief Financial Officer have concluded that, as of December 31, 2023, the Company’s disclosure controls and procedures are effective to ensure that information required to be disclosed by the Company in the reports we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified by the SEC’s rules and forms and are designed to ensure that information required to be disclosed by the Company in the reports we file or submit under the Exchange Act is accumulated and communicated to the Company’s management, including the Company’s Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

**Changes in Internal Control Over Financial Reporting** The Company’s management, with the participation of the Company’s Chief Executive Officer and Chief Financial Officer, has evaluated changes in internal control over financial reporting (as such term is defined in Rules 13a-15 (f) and 15d-15 (f) under the Exchange Act) that occurred during the quarter ended December 31, 2023 and have concluded that no change has materially affected, or is reasonably likely to materially affect, the Company’s internal control over financial reporting.

**Management’s Annual Report on Internal Control Over Financial Reporting** The Company’s management is responsible for establishing and maintaining an adequate system of internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15 (f) and 15d-15 (f). Our internal control system was designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of Consolidated Financial Statements for external purposes, in accordance with U. S. GAAP. Because of inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate. The Company’s management, including the Company’s Chief Executive Officer and Chief Financial Officer, has conducted an evaluation of the effectiveness of our internal control over financial reporting as of December 31, 2023 based on the 2013 framework in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (“COSO”). The COSO framework summarizes each of the components of a company’s internal control system, including (i) the control environment, (ii) risk assessment, (iii) control activities, (iv) information and communication, and (v) monitoring. Based on this evaluation, the Company’s management concluded that our internal control over financial reporting was effective as of December 31, 2023.

**33- Item 9B. Other Information**

**Item 9C. Disclosures Regarding Foreign Jurisdictions that Prevent Inspections** PART III

**Item 10. Directors, Executive Officers and Corporate Governance** Our Board of Directors currently consists of five directors. The current Board members include four independent directors and our chief executive officer. The core responsibility of our Board of Directors is to exercise its business judgment to act in what it reasonably believes to be in the best interests of the Company and its stockholders. Further, members of the Board fulfill their responsibilities consistent with their fiduciary duty to the stockholders, and in compliance with all applicable laws and regulations. The primary responsibilities of the Board include:

- Oversight of management performance and assurance that stockholder interests are served;
- Oversight of the Company’s business affairs and long-term strategy; and
- Monitoring adherence to the Company’s standards and policies, including, among other things, policies governing internal controls over financial reporting.

Our Board of Directors conducts its business through meetings of the Board and through activities of the standing committees, as further described below. The Board and each of the standing committees meet throughout the year and also holds special meetings and acts by written consent from time to time, as appropriate. Board agendas include regularly scheduled executive sessions of the independent directors to meet without the presence of management. The Board has delegated various responsibilities and authority to different committees of the Board, as described below. Members of the Board have access to all of our members of management outside of Board meetings. Our Board of Directors met and / or acted by written consent ten times during the year ended December 31, 2023. During this period, each director attended 75 % or more of the aggregate of (i) the total number of meetings of the Board of Directors held during the period for which he / she was a director and (ii) the total number of meetings of committees of the Board of Directors on which he served, held during the period for which he / she served. The Company does not have a policy with regard to directors’ attendance at our annual meetings of stockholders. The following table sets forth information with respect to our Board of Directors as of the date of this Report.

Name	Age	Position	with Company
Jason Adelman	(1) (2) (3) 54	Director	Jonathan Schechter (1) (2) (3) (4) 49
Director, Chairman of the Compensation Committee	Peter Holst 55	Director, Chairman of the Board, President and Chief Executive Officer	Robert Weinstein (1) (3) (4) 63
Director, Chairman of the Audit Committee	Deborah Meredith (2) (3) 64	Director, Chairman of the Nominating Committee	(1) Member of the Audit Committee (2) Member of the Compensation Committee (3) Member of the Nominating Committee (4) Appointed pursuant to that certain Securities Purchase Agreement, dated March 30, 2023, by and among the Company and the investors named therein.

**34- Biographies for Board of Directors** Jason Adelman, Director. Mr. Adelman joined our Board of Directors in July 2019. Mr. Adelman is the Founder and Managing Member of Burnham Hill Capital Group, LLC, a privately held financial advisory firm, and serves as Managing Member of Cipher Capital Partners LLC, a private investment fund. Mr. Adelman also serves as a member of the board of directors of Trio- Tech International (Nasdaq Capital Market: TRT). Prior to founding Burnham Hill Capital Group, LLC in

2003, Mr. Adelman served as Managing Director of Investment Banking at H. C. Wainwright and Co., Inc. Mr. Adelman graduated from the University of Pennsylvania with a B. A. in Economics, cum laude, and from Cornell Law School with a J. D. In considering Mr. Adelman as a director of the Company, the Board reviewed, among other qualifications, his experience and expertise in finance, accounting, banking and management. Based on his experience with Burnham Hill Capital Group LLC, Cipher Capital Partners LLC, and H. C. Wainwright & Co. Mr. Adelman qualifies as an "audit committee financial expert" under the applicable SEC rules and accordingly contributes to the Board of Directors his understanding of generally accepted accounting principles and his skills in auditing, as well as in analyzing and evaluating financial statements.

Jonathan Schechter, Director. Mr. Schechter joined our Board of Directors in May 2023. Mr. Schechter currently serves as a partner of The Special Equities Group, a division of Dawson James Securities, Inc., a full-service investment bank specializing in healthcare, biotechnology, technology, and clean-tech sectors, since April 2021. Mr. Schechter is one of the founding partners of The Special Equities Opportunity Fund, a long-only fund that makes direct investments in micro-cap companies and has served in this capacity since August 2019. He currently serves on the board of directors of Synaptogenix, Inc., a clinical-stage biopharmaceutical company (Nasdaq: SNPX), and previously served as a director of DropCar, Inc. Mr. Schechter also serves as a member of the Board of Directors of PharmaCyte Biotech, Inc. (Nasdaq: PMCB), a biotechnology company developing pharmaceutical products. He has extensive experience analyzing and evaluating the financial statements of public companies. Mr. Schechter earned his A. B. in Public Policy / Political Science from Duke University and his J. D. from Fordham University School of Law. In considering Mr. Schechter as a director of the Company, the Board reviewed, among other qualifications, his experience and expertise in finance and banking. Based on his experience with The Special Equities Group, Mr. Schechter qualifies as an "audit committee financial expert" under the applicable SEC rules and accordingly contributes to the Board of Directors his understanding of capital markets, as well as in analyzing and evaluating financial statements.

Peter Holst, Chairman, President and Chief Executive Officer. Prior to being named President and CEO in January 2013, Mr. Holst served as the Company's Senior Vice President for Business Development since October 1, 2012. Mr. Holst has served as a director of the Company since January 2013 and served as Chairman of the Board from July 2019 to December 15, 2021. Mr. Holst has currently served as Chairman of the Board since May 28, 2023. Mr. Holst has more than 28 years of experience in the collaboration industry. Prior to joining the Company, Mr. Holst served as the Chief Executive Officer of Affinity VideoNet, Inc., and as the President and Chief Operating Officer of Raindance Communications. Mr. Holst holds a degree in Business Administration from the University of Ottawa. In considering Mr. Holst as a director of the Company, the Board reviewed his extensive knowledge and expertise in the communication services industry, and the leadership he has shown in his positions with prior companies.

Robert Weinstein, Director. Mr. Weinstein joined our Board of Directors in May 2023. Mr. Weinstein is currently the Chief Financial Officer of Synaptogenix, Inc., a publicly traded biotechnology company pursuing pharmaceutical treatments for neurological diseases (Nasdaq: SNPX) following its spin-off from Neurotrope, Inc. where he was Chief Financial Officer since October 2013. In addition, Mr. Weinstein performs work as a consultant for Petros Pharmaceuticals, Inc., (Nasdaq: PTP) which is the surviving company from the merger of Metuchen Pharmaceuticals, Inc., a specialty pharmaceutical company focused on men's health, and Neurotrope, Inc. He has extensive accounting and finance experience, spanning almost 40 years, as a public accountant, investment banker, healthcare private equity fund principal and chief financial officer. From September 2011 to the present, Mr. Weinstein has also been an independent accounting and finance consultant for several healthcare companies in the pharmaceutical and biotechnology industries. Mr. Weinstein also serves as a member of the Board of Directors of Xwell, Inc. (Formerly XpresSpa Group, Inc.) (Nasdaq: XWEL), a health and wellness company whose core asset, XpresSpa, is a leading airport retailer of spa services, related health and wellness products and bio-surveillance on behalf of the US Center for Disease Control (CDC), and PharmaCyte Biotech, Inc. (Nasdaq: PMCB), a biotechnology company developing pharmaceutical products. Mr. Weinstein received an MBA degree in finance and international business from the University of Chicago Graduate School of Business, is a Certified Public Accountant (inactive), and received his BS degree in accounting from the State University of New York at Albany.

35 In considering Mr. Weinstein as a director of the Company, the Board reviewed his extensive expertise and knowledge regarding finance and accounting matters, as well as compensation, risk assessment and corporate governance. Mr. Weinstein qualifies as an "audit committee financial expert" under the applicable SEC rules and accordingly contributes to the Board of Directors his understanding of generally accepted accounting principles and his skills in auditing, as well as in analyzing and evaluating financial statements.

Deborah Meredith, Director. Ms. Meredith joined our Board of Directors in August 2021. Ms. Meredith currently serves as a board member, advisor and consultant to several high-tech companies with extensive experience in strategic roles with privately-held start-up companies such as Proofpoint, Aviatrix, Qventus, Alation and Kinsa Health. Ms. Meredith has more than three decades of experience working hands-on with company founders to assemble world-class teams, architect software products and establish a roadmap for operational success. Ms. Meredith earned a master's degree in computer science from Stanford University and an undergraduate degree in both computer science and mathematics from the University of Michigan. In considering Ms. Meredith as a director of the Company, the Board reviewed her experience and expertise in the technology industry and the leadership she has shown in her positions with prior companies.

Director Independence Our Board of Directors has determined that each of our current directors, other than Mr. Holst, qualifies as "independent" in accordance with the rules of the Nasdaq Capital Market ("Nasdaq"). Because Mr. Holst is an employee of the Company, he does not qualify as independent. The Nasdaq independence definition includes a series of objective tests, such as that the director is neither an executive officer nor an employee of the Company and has not engaged in various types of business dealings with the Company. In addition, as further required by the Nasdaq rules, the Board has made a subjective determination as to each independent director that no relationship exists which, in the opinion of the Board, would interfere with the exercise of independent judgment in carrying out the responsibilities of a director. In making these determinations, the directors reviewed and discussed information provided by the directors and the Company with regard to each director's business and personal activities as they may relate to the Company and the Company's management,

including each of the matters set forth under “Part III, Item 13. Certain Relationships and Related Transactions, and Director Independence.” below. Board Committees The Board has an audit committee, a compensation committee, and a nominating committee, and may form special committees as is required from time to time. Each of the committees regularly report on their activities and actions to the full Board. The charters for the audit committee, the compensation committee, and the nominating committee are available on the Company’s website at [www.oblong.com](http://www.oblong.com). The contents of our website are not incorporated by reference into this document for any purpose. The audit committee currently consists of Robert Weinstein (chair), Jason Adelman, and Jonathan Schechter. Our Board of Directors has determined that all members of the audit committee are “independent” within the meaning of the corporate governance of Nasdaq Capital Market and the SEC rules governing audit committees and “financially literate” for purposes of applicable Nasdaq Capital Market listing standards. In addition, our Board of Directors has determined that each of Messrs. Weinstein, Adelman, and Schechter has the accounting and related financial management expertise to satisfy the requirements of an “audit committee financial expert,” as determined pursuant to the rules and regulations of the SEC. The audit committee consults and meets with our independent registered public accounting firm, Chief Financial Officer and accounting personnel, reviews potential conflict of interest situations where appropriate, and reports and makes recommendations to the full Board of Directors regarding such matters. The audit committee met four times during the year ended December 31, 2023. Our compensation committee currently consists of Jonathan Schechter (chair), Jason Adelman, and Deborah Meredith. Each member of the compensation committee meets the applicable independence requirements of The Nasdaq Capital Market. The compensation committee met and / or acted by written consent two times during the year ended December 31, 2023. The compensation committee is responsible for establishing and administering our executive compensation policies. The role of the compensation committee is to (i) formulate, evaluate and approve compensation of the Company’s directors, executive officers and key employees, (ii) oversee all compensation programs involving the use of the Company’s stock and (iii) produce, if required under applicable securities laws, a report on executive compensation for inclusion in the Company’s proxy statement for its annual meeting of stockholders. The duties and responsibilities of the compensation committee under its charter include: • annually reviewing and making recommendations to the Board with respect to compensation of directors, executive officers and key employees of the Company; • annually reviewing and approving corporate goals and objectives relevant to Chief Executive Officer compensation, evaluating the Chief Executive Officer’s performance in light of those goals and objectives, and recommending to the Board the Chief Executive Officer’s compensation levels based on this evaluation; • reviewing competitive practices and trends to determine the adequacy of the executive compensation program; • approving and overseeing compensation programs for executive officers involving the use of the Company’s stock; • approving and administering cash incentives for executives, including oversight of achievement of performance objectives, and funding for executive incentive plans; • annually performing a self-evaluation on the performance of the compensation committee; and • making regular reports to the Board concerning the activities of the compensation committee. When appropriate, the compensation committee may, in carrying out its responsibilities, form and delegate authority to subcommittees. The Chief Executive Officer plays a role in determining the compensation of our other executive officers by evaluating the performance of those executive officers. The Chief Executive Officer’s evaluations are then reviewed by the compensation committee. This process leads to a recommendation for any changes in salary, bonus terms and equity awards, if any, based on performance, which recommendations are then reviewed and approved by the compensation committee. Our nominating committee currently consists of Deborah Meredith (chair), Jason Adelman, Jonathan Schechter, and Robert Weinstein. Each member of the nominating committee meets the independence requirements of the Nasdaq Capital Market. The nominating committee is responsible for assessing the performance of our Board of Directors and making recommendations to our Board regarding nominees for the Board. The nominating committee met and / or acted by written consent two times during the year ended December 31, 2023. The nominating committee considers qualified candidates to serve as a member of our Board of Directors that are suggested by our stockholders. Nominees recommended by stockholders will be given appropriate consideration and evaluated in the same manner as other nominees. Stockholders can suggest qualified candidates for director by writing to our Corporate Secretary at 110 16th Street, Suite 1400-1024, Denver, CO 80202. Stockholder submissions that are received in accordance with our by-laws and that meet the criteria outlined in the nominating committee charter are forwarded to the members of the nominating committee for review. Stockholder submissions must include the following information: • a statement that the writer is our stockholder and is proposing a candidate for our Board of Directors for consideration by the nominating committee; • the name of and contact information for the candidate; • a statement of the candidate’s business and educational experience; • information regarding each of the factors set forth in the nominating committee charter sufficient to enable the nominating committee to evaluate the candidate; • a statement detailing any relationship between the candidate and any of our customers, suppliers or competitors; • detailed information about any relationship or understanding between the proposing stockholder and the candidate; and • a statement that the candidate is willing to be considered and willing to serve as our director if nominated and elected. 37 In considering potential new directors, the nominating committee will review individuals from various disciplines and backgrounds. Among the qualifications to be considered in the selection of candidates are broad experience in business, finance or administration; familiarity with national and international business matters; familiarity with our industry; and prominence and reputation. While there is no formal policy with regard to consideration of diversity in identifying director nominees, the nominating committee will consider diversity in business experience, professional expertise, gender and ethnic background, along with various other factors when evaluating director nominees. The nominating committee will also consider whether the individual has the time available to devote to the work of our Board of Directors and one or more of its committees. The nominating committee will also review the activities and associations of each candidate to ensure that there is no legal impediment, conflict of interest or other consideration that might hinder or prevent service on our Board of Directors. In making its selection, the nominating committee will bear in mind that the foremost responsibility of a director of a corporation is to represent the interests of the

stockholders as a whole. The nominating committee will periodically review and reassess the adequacy of its charter and propose any changes to the Board of Directors for approval. Contacting the Board of Directors Any stockholder who desires to contact our Board of Directors, committees of the Board of Directors and individual directors may do so by writing to: Oblong, Inc., 110 16th Street, Suite 1400-1024, Denver, CO 80202, Attention: David Clark, Corporate Secretary. Mr. Clark will direct such communication to the appropriate persons.

**Board Leadership Structure and Role in Risk Oversight** Mr. Holst has served as the Chairman of the Company's Board of Directors since May 2023, when Mr. Blumberg resigned from the Board of Directors. Mr. Holst has served as the Company's President and Chief Executive Officer since January 2013 and served as the Chairman of the Company's Board of Directors from July 2019 up until our 2021 annual meeting of stockholders (December 16, 2021). To ensure a strong and independent Board, as discussed herein, the Board has affirmatively determined that all directors of the Company, other than Mr. Holst, are independent within the meaning of the Nasdaq Capital Market listing standards currently in effect. Our Corporate Governance Guidelines provide that non-management directors shall meet in regular executive session without management present. The Board has an active role, directly and through its committees, in the oversight of the Company's risk management efforts. The Board carries out this oversight role through several levels of review. The Board regularly reviews and discusses with members of management information regarding the management of risks inherent in the operation of the Company's business and the implementation of the Company's strategic plan, including the Company's risk mitigation efforts. Each of the Board's committees also oversees the management of the Company's risks that are under each committee's areas of responsibility. For example, the audit committee oversees management of accounting, auditing, external reporting, internal controls and cash investment risks. The nominating committee oversees and assesses the performance of the Board and makes recommendations to the Board from time to time regarding nominees for the Board. The compensation committee oversees risks arising from compensation practices and policies. While each committee has specific responsibilities for oversight of risk, the Board is regularly informed by each committee about such risks. In this manner the Board is able to coordinate its risk oversight. We have adopted a code of conduct and ethics, as amended effective October 12, 2015, that applies to all of our employees, directors and officers, including our Chief Executive Officer, Chief Financial Officer and our finance team. The full text of our code of conduct and ethics (as amended) is posted on our website at [www.oblong.com](http://www.oblong.com) and will be made available to stockholders without charge, upon request, in writing to the Corporate Secretary at 110 16th Street, Suite 1400-1024, Denver, CO 80202. Disclosure regarding any amendments to, or waivers from, provisions of the code of conduct and ethics that apply to our principal executive officer, principal financial officer, principal accounting officer or controller or person performing similar functions will be included in a Current Report on Form 8-K within four business days following the date of the amendment or waiver, unless website posting of such amendments or waivers is then permitted by the rules of the national securities exchange on which the Company trades.

**38-Biographies for Executive Officers** Peter Holst, President and Chief Executive Officer (CEO). See "Biographies for Board of Directors" above for Mr. Holst's biography. David Clark, Chief Financial Officer. Mr. Clark, 55, joined the Company in March 2013 as Chief Financial Officer ("CFO"). Mr. Clark has more than 30 years of experience in finance and accounting. Prior to joining the Company, Mr. Clark served as Vice President of Finance, Treasurer and acting CFO for Allos Therapeutics, a publicly traded biopharmaceutical company, and as CFO of Seurat Company (formerly XOR, Inc.), an e-commerce managed services company. Mr. Clark started his career with seven years in the audit practice of PricewaterhouseCoopers LLP. Mr. Clark is an active Certified Public Accountant and received a Master of Accountancy and a B. S. in Accounting from the University of Denver. Family Relationships There are no family relationships between the officers and directors of the Company. During the past ten years none of our directors or executive officers was involved in any legal proceedings described in subparagraph (f) of Item 401 of Regulation S-K. Item 11. Executive Compensation

**Director Compensation** The Company's director compensation plan provides that non-employee directors are entitled to receive annually: (i) a grant of restricted stock or restricted stock units ("RSUs") awarded under the Company's 2019 Equity Incentive Plan (pro-rated as necessary for the period of service from the director's date of appointment to the Board of Directors until the next annual meeting of stockholders); and (ii) a retainer fee of \$ 20, 000. The annual fee is payable in equal quarterly installments on the first business day following the end of the calendar quarter, in cash or shares of restricted stock, as chosen by the director, on an annual basis on or before December 31 of the applicable fiscal year. The annual equity grants to directors are normally made as of the date of the annual meeting of the Company's stockholders. Grants of restricted stock or RSUs vest on the first anniversary of the grant date or earlier upon the occurrence of certain termination events or upon a change in control of the Company. Vested RSUs are settled in shares of Common Stock on a 1-for-1 basis upon the earliest of (i) the tenth anniversary of the grant date of the RSUs, (ii) a change in control (as defined in the award agreement) of the Company and (iii) the date of a director's separation from service. The Company's director compensation plan provides that non-employee directors are also entitled to receive annually: (i) an additional cash payment of \$ 20, 000 to the chairman of its Board of Directors, (ii) an additional cash payment of \$ 10, 000 to the chairperson of its audit committee, (iii) an additional cash payment of \$ 5, 000 to each of the chairpersons of its compensation committee and nominating committee, and (iv) an additional cash payment of \$ 3, 000 to each non-chair member of any standing committee, in each case payable in equal quarterly installments in arrears. In addition, the Company may establish special committees of the Board from time to time and provide for additional retainers in connection therewith. The following table represents compensation for the Company's non-employee directors during the year ended December 31, 2023. All compensation for Peter Holst, the Company's President and CEO, during the year ended December 31, 2023 is included in the Summary Compensation Table under "Executive Compensation" below.

Name	Cash Fees Earned (\$)	Stock Awards (\$)	Total (\$)
Jason Adelman	32,000	95,000	127,000
Matthew Blumberg	19,000	95,000	114,000
James S. Lusk	15,000	95,000	110,000
Deborah Meredith	26,000	95,000	121,000
Jonathan Schechter	17,000	None	17,000
Robert Weinstein	17,000	None	17,000

39- No equity awards were outstanding, as of December 31, 2023, for any director. The following table sets forth, for the years ended December 31, 2023 and 2022, the compensation awarded to, paid to, or earned by: Peter Holst, Chairman, President and CEO; David Clark, CFO, Treasurer and Secretary. No other

executive officer earned more than \$100,000 during the year ended December 31, 2023 or 2022, so the Company only has two named executive officers for these periods. Name and Principal Positions Year Salary (\$) Bonus (\$) Stock Awards (\$) All Other Compensation (\$) Total (\$) Peter Holst 2023 295,000 394,000 10,000 (1) 699,000 Director, President and CEO 2022 295,000 147,000 9,000 (1) 451,000 David Clark 2023 260,000 173,000 10,000 (1) 443,000 CFO, Treasurer and Secretary 2022 260,000 65,000 8,000 (1) 333,000 (1) Represents matching contributions under the Company's 401(k) Plan for Mr. Holst of \$10,000 for 2023 and \$9,000 for 2022; for Mr. Clark of \$10,000 for 2023 and \$8,000 for 2022. Outstanding Equity Awards at 2023 Fiscal Year-End No equity awards were outstanding for our named executive officers at December 31, 2023. The Company maintains a tax-qualified 401(k) plan on behalf of its eligible employees, including its named executive officers. Pursuant to the terms of the plan, for fiscal years 2023 and 2022, eligible employees may defer up to 80% of their salary each year, and the Company matched 50% of an employee's contributions on the first 6% of the employee's salary. This matching contribution vests over four years. Agreements with Named Executive Officers We have entered into employment agreements with our current named executive officers. All named executive officers, whether or not subject to an employment agreement, are "at will" employees of the Company. Peter Holst Employment Agreement. On January 13, 2013, the Board appointed Peter Holst as the Company's President and Chief Executive Officer, and as a member of the Board. In connection with his appointment, the Company entered into an employment agreement with Mr. Holst, which was subsequently amended and restated as of January 28, 2016 and as of July 19, 2019 (as amended and restated, the "Holst Employment Agreement"). Pursuant to the Holst Employment Agreement, Mr. Holst receives an annual base salary of \$295,000 and is eligible to receive an annual incentive bonus equal to 100% of his base salary, at the discretion of the compensation committee of the Board based on meeting certain financial and non-financial goals. Under the terms of the Holst Employment Agreement, if Mr. Holst's employment is terminated outside of a "change in control" (as defined in the Holst Employment Agreement) (i) by the Company without "cause" or by Mr. Holst for "good reason" (as such terms are defined therein) or (ii) as a result of the expiration of the term of the Holst Employment Agreement caused by the Company's election not to renew such agreement, then he will be entitled to receive the following payments and benefits, subject to his execution and non-revocation of an effective general release of claims in favor of the Company: • 12 months' base salary, payable in equal monthly installments in accordance with the Company's normal payroll practices; • 40% 100% of his maximum annual target bonus payable for the calendar year in which such termination occurs; • 100% accelerated vesting of Mr. Holst's then-unvested shares of restricted stock and RSUs (if any); and • payment (or reimbursement) of the COBRA premiums for continuation of coverage for Mr. Holst and his eligible dependents under the Company's then-existing medical, dental and prescription insurance plans for a period of 12 months. In addition to the above payments and benefits, in the event that Mr. Holst's employment is terminated during the 18-month period following a "change in control" (i) by the Company without "cause" or by Mr. Holst for "good reason" or (ii) as a result of the expiration of the term of the Holst Employment Agreement caused by the Company's election not to renew such agreement, then he will be entitled to receive the following payments and benefits, subject to his execution and non-revocation of an effective general release of claims in favor of the Company: • 24 months' base salary, payable in equal monthly installments in accordance with the Company's normal payroll practices; • a pro-rated portion of his maximum annual target bonus for the calendar year in which the effective date of termination occurs; • 80% accelerated vesting of Mr. Holst's then-unvested shares of restricted stock and RSUs (if any); and In consideration of the payments and benefits under the Holst Employment Agreement, Mr. Holst is restricted from engaging in competitive activities for 12 months after the termination of his employment, as well as prohibited from soliciting the Company's clients and employees and from disclosing the Company's confidential information. The Holst Employment Agreement contains a "best after-tax benefit" provision, which provides that, to the extent that any amounts payable under the Holst Employment Agreement would be subject to the federal tax levied on certain "excess parachute payments" under Section 4999 of the Code, the Company will either pay Mr. Holst the full amount due under the Holst Employment Agreement or, alternatively, reduce his payments to the extent that no Section 4999 excise tax would be due, whichever provides the highest net after-tax benefit to Mr. Holst. David Clark Employment Agreement. On March 25, 2013, the Company entered into an employment agreement with David Clark in connection with his appointment as Chief Financial Officer of the Company, which was subsequently amended and restated on July 19, 2019 (as amended and restated, the "Clark Employment Agreement"). Pursuant to the Clark Employment Agreement, Mr. Clark receives an annual base salary of \$260,000 and is eligible to receive an annual incentive bonus equal to 50% of his base salary, at the discretion of the compensation committee of the Board, based on meeting certain financial and non-financial goals. Under the terms of the Clark Employment Agreement, if Mr. Clark's employment is terminated outside of a "change in control" (as defined in the Clark Employment Agreement) (i) by the Company without "cause" or by Mr. Clark with or without "good reason" (as such terms are defined therein) or (ii) as a result of the expiration of the term of the Clark Employment Agreement caused by the Company's election not to renew such agreement, then he will be entitled to receive the following payments and benefits, subject to his execution and non-revocation of an effective general release of claims in favor of the Company: • Six months' base salary, payable in equal monthly installments in accordance with the Company's normal payroll practices; • 50% of his maximum annual target bonus payable for the calendar year in which such termination occurs; • 41% 100% accelerated vesting of Mr. Clark's then-unvested shares of restricted stock and RSUs (if any); and • payment (or reimbursement) of the COBRA premiums for continuation of coverage for Mr. Clark and his eligible dependents under the Company's then-existing medical, dental and prescription insurance plans for a period of six months. In addition to the above payments and benefits, in the event that Mr. Clark's employment is terminated during the 18-month period following a "change in control" by the Company without "cause" or by Mr. Clark for "good reason," then he will also be entitled to receive (i) increased severance equal to 18 months' base salary, (ii) 100% of his maximum annual target bonus payable for the calendar year in which such termination occurs, and (iii) extended payment (or reimbursement) of the COBRA premiums for 12 months. In such event, Mr. Clark will be entitled to receive 80% accelerated vesting of his then-

unvested shares of restricted stock and RSUs (if any). In consideration of the payments and benefits under the Clark Employment Agreement, Mr. Clark is restricted from engaging in competitive activities for six months after the termination of his employment, as well as prohibited from soliciting the Company's clients and employees and from disclosing the Company's confidential information. Potential Payments to Named Executive Officers upon Termination or Change-in-Control No named executive officer holds outstanding equity incentive awards, and no named executive officer is entitled to accelerated vesting in connection with a termination for cause. In accordance with the terms of the Company's 2019 Equity Incentive Plan, the Company is given authority to accelerate the timing of the exercise / vesting provisions of awards under such plan in the event of certain change in control or other corporate transactions. See "Agreements with Named Executive Officers" above for a discussion of certain payments the Company could be required to make upon the termination of a Named Executive Officer.

**Pay Versus Performance** In August 2022, the SEC adopted final rules to require companies to disclose information about the relationship between executive compensation actually paid and certain financial performance of the company. The information below is provided pursuant to Item 402 (v) of SEC Regulation S-K with respect to "smaller reporting companies" as that term is defined in Item 10 (f) (1) of SEC Regulation S-K. (a) Year (b) Summary Comp Table Total for PEO (\$) (1) (c) Comp. Actually Paid to PEO (\$) (2) (d) Average Summary Comp. Table for Non-PEO NEOs (\$) (3) (e) Average Comp. Actually Paid to Non-PEO NEOs (\$) (4) (f) Value of Initial Fixed \$ 100 Investment Based On Total Shareholder Return (\$) (5) (g) Net Income (\$) (6)

Year	Total for PEO (\$)	Comp. Actually Paid to PEO (\$)	Average Summary Comp. Table for Non-PEO NEOs (\$)	Average Comp. Actually Paid to Non-PEO NEOs (\$)	Value of Initial Fixed \$ 100 Investment Based On Total Shareholder Return (\$)	Net Income (\$)
2021	\$ 455,000	\$ 455,000	\$ 464,000	\$ 353,000	\$ 20.04	\$ (9,755,000)
2022	\$ 451,000	\$ 451,000	\$ 210,000	\$ 135,000	\$ 2.29	\$ (21,941,000)
2023	\$ 699,000	\$ 699,000	\$ 443,000	\$ 443,000	\$ 0.26	\$ (4,384,000)

(1) The dollar amounts reported in column (b) are the amounts of total compensation reported for Mr. Holst (Chief Executive Officer) for each corresponding year in the "Total" column of the Summary Compensation Table. See "Executive Compensation- Summary Compensation Table. (2) The dollar amounts reported in column (c) represent the amount of "compensation actually paid" to Mr. Holst as computed in accordance with Item 402 (v) (2) (iii) of SEC Regulation S-K, which prescribes certain specified additions and subtractions from the amount in column (b). In accordance with the requirements of Item 401 (v) (2) (iii) of Regulation S-K, there were no adjustments required to be made to Mr. Holst's total compensation for each year to determine the compensation actually paid. (3) The dollar amounts reported in column (d) represent the average amounts reported for the Company's named executive officers as a group (excluding Mr. Holst) in the "Total" column of the Summary Compensation Table in each applicable year. The names of each of the named executive officers (excluding Mr. Holst) included for purposes of calculating the average amounts in each applicable year are as follows: (a) for 2023, Mr. Clark, (b) for 2022, Mr. Clark and Pete Hawkes (who separated from service with the company on March 4, 2022), and (c) for 2021, Mr. Clark and Mr. Hawkes. (4) The dollar amounts reported in column (e) represent the average amount of "compensation actually paid" to the named executive officers as a group (excluding Mr. Holst) as computed in accordance with Item 402 (v) (2) (iii) of SEC Regulation S-K, which prescribes certain specified additions and subtractions from the amount in column (d). In accordance with the requirements of Item 401 (v) of Regulation S-K, the following adjustments were made to average total compensation for the named executive officers as a group (excluding Mr. Holst) for each year to determine the compensation actually paid: • For 2022: • We subtracted \$ 75,000 reflecting the average for the named executive officers as a group (excluding Mr. Holst) of awards granted to Mr. Hawkes in prior fiscal years for which there was a failure to meet the applicable vesting conditions during 2022. • For 2021: • We subtracted \$ 186,000 reflecting the average of stock option awards to Mr. Hawkes during 2021 for the named executive officer's as a group (excluding Mr. Holst); and • We added \$ 75,000 reflecting the average of the named executive officers as a group (excluding Mr. Holst) of the fair value during 2021 of stock options issued in 2021 to Mr. Hawkes that were outstanding and unvested at the end of fiscal 2021. (5) Total Shareholder Return is determined based on the value of an initial fixed investment in the Company's common stock of \$ 100 on December 31, 2020 and calculated in accordance with Item 201 (e) of SEC Regulation S-K. (6) The dollar amounts reported in column (g) represent the amount of net income reflected in our consolidated audited financial statements for the applicable year. Analysis of the Information Presented in the Pay Versus Performance Table The Compensation Committee of the Board of Directors of the Company does not have a policy or practice regarding evaluating Total Shareholder Return as part of its determination of compensation decisions for the named executive officers. The Compensation Committee takes various factors into account in determining the competitiveness of its executive compensation. Over the past three fiscal years the Compensation Committee has recognized the significant time and effort required by the executive officers and others to manage the Company's liquidity by raising capital while reducing operating expenses and cash used in operations, secure and maintain the Company's listing on the Nasdaq Capital Market, and to source and evaluate merger and acquisition opportunities. To retain qualified executive management, the Compensation Committee increased salaries of named executive officers in July 2021 (the salaries of the named executive officers were last increased in 2014), and, in 2023, paid bonuses that were earned during fiscal year 2022 through April 2023. The current named executive officers last received equity awards in 2019. Mr. Hawkes was granted stock options in 2021. All information provided above under the "Pay Versus Performance Information" heading will not be deemed to be incorporated by reference in any filing of our company under the Securities Act of 1933, as amended, whether made before or after the date hereof and irrespective of any general incorporation language in any such filing.

**Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters** The following table sets forth information regarding the beneficial ownership of our capital stock, as of March 8, 2024, by each of the following: • each person (or group within the meaning of Section 13 (d) (3) of the Securities Exchange Act of 1934, as amended (the "Exchange Act")) known by us to own beneficially more than 5 % of any class of our voting securities; • the named executive officers set forth in the Summary Compensation Table under "Executive Compensation" above; • each of our directors and director nominees; and • all of our directors and executive officers as a group. The amounts and percentages in the table below are based on 16,684,571 shares of Common Stock issued and outstanding as of March 8, 2024. As used in this table, "beneficial ownership" means the sole or shared power to vote or direct the voting or to dispose or direct the disposition of any security. A person is considered the

beneficial owner of securities that can be acquired within 60 days of such date through the exercise or conversion of any option, warrant or other derivative security. Shares of Common Stock subject to options, restricted stock units (“RSUs”), warrants or other derivative securities which are currently exercisable or convertible or are exercisable or convertible within such 60 days are considered outstanding for 43 computing the ownership percentage of the person holding such options, RSUs, warrants or other derivative security, but are not considered outstanding for computing the ownership percentage of any other person.

**Common Stock Name and Address of Beneficial Owners** (1) Amount and Nature of Beneficial Ownership (2) Percent of Class

**Named Executive Officers and Directors:** Peter Holst 21, 733 (3) 0.1% David Clark 3, 262 (4) —% Jason Adelman — (5) —% Jonathan Schechter 122, 500 (6) 0.7% Robert Weinstein — (7) —% Deborah Meredith — (8) —% All directors and executive officers as a group (6 people) 147, 495 0.9% Greater than 5% Owners: None (1) Unless otherwise noted, the address of each person listed is e/o Oblong, Inc., 110 16th Street, Suite 1400-1024, Denver, CO, 80202 (2) Unless otherwise indicated by footnote, the named persons have sole voting and investment power with respect to the shares of Common Stock beneficially owned. (3) Includes 21, 733 shares of Common Stock (4) Includes 3, 262 shares of Common Stock (5) Based on ownership information from the Form 4 filed by Mr. Adelman with the SEC on October 25, 2023. (6) Based on ownership information from the Form 3 filed by Mr. Schechter with the SEC on June 1, 2023. Represents warrants to purchase common stock of the issuer with an exercise price of \$ 1.71 per share. The warrants expire on September 30, 2028. (7) Based on ownership information from the Form 3 filed by Mr. Weinstein with the SEC on June 1, 2023. (8) Based on ownership information from the Form 4 filed by Ms. Meredith with the SEC on June 20, 2023.

**Equity Compensation Plan Information** The following table sets forth, as of December 31, 2023, information regarding our common stock that may be issued under the Company’s equity compensation plan:

Plan Category	Number of Securities to be Issued Upon Exercise of Outstanding Stock Options	(a) Weighted Average Exercise Price of Outstanding Stock Options	(b) Number of Securities to be Issued Upon Vesting of Outstanding Restricted Stock Units	(c) Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Securities Reflected in Columns (a) & (c))	(e) Equity compensation plans approved by security holders
10, 000	3	Item 13.	Certain Relationships and Related Transactions, and Director Independence	Other than compensation arrangements for our directors and named executive officers, which are described elsewhere in this Annual Report, and as described below, there have been no transactions since January 1, 2022 to which we were a party or will be a party, in which: • the amounts involved exceeded or will exceed the lesser of (1) \$ 120, 000 or (2) one percent of the average of our total assets at year-end for the last two completed fiscal years; and • 44 • any of our directors, executive officers or holders of more than 5% of our capital stock, or any member of the immediate family of, or person sharing the household with, the foregoing persons, had or will have a direct or indirect material interest. One of our directors, Jonathan Schechter, is currently a partner at The Special Equities Group (“SEG”), a division of Dawson James Securities, Inc. In March 2023, prior to Mr. Schechter’s appointment to our board, SEG acted as placement agent in connection with our private placement of shares of Series F Preferred Stock and warrants. In exchange for such services, we paid the placement agent a cash fee of approximately \$ 511, 000 (equal to 8% of the aggregate gross proceeds raised) and granted the placement agent warrants to purchase 306, 433 shares of common stock at an initial exercise price of \$ 1.71.	Policy on Future Related Party Transactions

Transactions with related parties, including the transactions referred to above, are reviewed and approved by independent members of the Board of Directors of the Company in accordance with the Company’s written Code of Business Conduct and Ethics. See Item 10: Director Independence and Item 10: Board Leadership Structure and Role in Risk Oversight for information regarding the independence of our directors. Item 14: Principal Accounting Fees and Services The audit committee, composed entirely of independent, non-employee members of the Board of Directors, appointed the firm of EisnerAmper LLP, Iselin, New Jersey (“EisnerAmper”), PCAOB identification number 274, as the independent registered public accounting firm for the audit of the Consolidated Financial Statements of the Company and its subsidiaries for the fiscal years ending December 31, 2023 and 2022. As our independent registered public accounting firm, EisnerAmper audited our Consolidated Financial Statements for the fiscal year ending December 31, 2023, reviewed the related interim quarters, and performed audit-related services and consultation in connection with various accounting and financial reporting matters. EisnerAmper may also perform certain non-audit services for our Company. The audit committee has determined that the provision of the services provided by EisnerAmper as set forth herein are compatible with maintaining EisnerAmper’s independence and the prohibitions on performing non-audit services set forth in the Sarbanes-Oxley Act and relevant SEC rules.

**Audit Fees** EisnerAmper, our principal accountant, billed us approximately \$ 265, 000 for professional services for the audit of our annual Consolidated Financial Statements for the 2023 fiscal year and the reviews of the Consolidated Financial Statements included in our quarterly reports on Form 10-Q for the 2023 fiscal year. EisnerAmper billed us \$ 269, 000 for professional services for the audit of our annual Consolidated Financial Statements for the 2022 fiscal year and the reviews of the Consolidated Financial Statements included in our quarterly reports on Form 10-Q for the 2022 fiscal year. **Audit-Related Fees** EisnerAmper did not bill us in the 2023 and 2022 fiscal years for any audit-related fees. **Tax Fees** EisnerAmper did not bill us in the 2023 and 2022 fiscal years for any professional services rendered for tax compliance, tax advice or tax planning. **All Other Fees** EisnerAmper did not bill us for products and services, other than the audit described above, during the 2023 and 2022 fiscal years.

45 **Audit Committee Pre-Approval Policy** The audit committee is required to pre-approve the engagement of EisnerAmper to perform audit and other services for the Company. Our procedures for the pre-approval by the audit committee of all services provided by EisnerAmper comply with SEC regulations regarding pre-approval of services. Services subject to these SEC requirements include audit services, audit-related services, tax services and other services. The audit engagement is specifically approved, and the auditors are retained by the audit committee. The audit committee also has adopted policies and procedures for pre-approving all non-audit work performed by EisnerAmper. In accordance with audit committee policy and the requirements of law, all services provided by EisnerAmper in the 2023 and 2022 fiscal years were pre-approved by the audit committee and all services to be provided by EisnerAmper will be pre-approved. Pre-approval includes audit services, audit-related services, tax services and other services.

To avoid certain potential conflicts of interest, the law prohibits a publicly traded company from obtaining certain non-audit services from its auditing firm. We obtain these services from other service providers as needed. 46- PART IV Item 15- Exhibits, Financial Statement Schedules A. The following documents are filed as part of this Report: 1. Consolidated Financial Statements- PageReport of Independent Registered Public Accounting FirmF- 1Consolidated Balance Sheets at December 31, 2023 and 2022F- 3Consolidated Statements of Operations for the years ended December 31, 2023 and 2022F- 4Consolidated Statements of Stockholders' Equity for the years ended December 31, 2023 and 2022F- 5Consolidated Statements of Cash Flows for the years ended December 31, 2023 and 2022F- 6Notes to Consolidated Financial StatementsF- 8 2. Financial Statement Schedules have been omitted since they are either not required, not applicable, or the information is otherwise included. 3. Exhibits: A list of exhibits required to be filed as part of this Report is set forth in the Exhibit Index on page 50 of this Form 10- K, which immediately precedes such exhibits, and is incorporated by reference. Item 16. Form 10- K Summary None. 47- EXHIBIT INDEX- ExhibitNumberDescription2. 1 † Agreement and Plan of Merger, dated September 12, 2019, by and among the Registrant, Oblong Industries, Inc. and Glowpoint Merger Sub II, Inc. (filed as Exhibit 2. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on September 16, 2019, and incorporated herein by reference). 2. 2Amendment to Agreement and Plan of Merger, dated October 1, 2019, by and among the Registrant, Oblong Industries, Inc. and Glowpoint Merger Sub II, Inc. (filed as Exhibit 2. 2 to the Registrant's Current Report on Form 8- K filed with the SEC on October 7, 2019, and incorporated herein by reference). 3. 1Amended and Restated Certificate of Incorporation, as amended (filed as Exhibit 3. 1 to the Registrant's Quarterly Report on Form 10- K filed with the SEC on May 10, 2023, and incorporated herein by reference). 3. 2 \* Amended and Restated By- laws, as amended by the First Amendment to Amended and Restated By- Laws, dated October 19, 2023. 4. 1Specimen Common Stock Certificate (filed as Exhibit 4. 1 to the Registrant's Annual Report on Form 10- K filed with the SEC on June 6, 2007, and incorporated herein by reference). 4. 2Certificate of Designations, Preferences and Rights of Series D Preferred Stock (filed as Exhibit 4. 6 to the Registrant's Current Report on Form 8- K filed with the SEC on September 24, 2007, and incorporated herein by reference). 4. 3Certificate of Designations, Preferences and Rights of Series A- 2 Preferred Stock of the Registrant (filed as Exhibit 4. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on August 11, 2009, and incorporated herein by reference). 4. 4Certificate of Designations, Preferences and Rights of Perpetual Series B Preferred Stock of the Registrant (filed as Exhibit 4. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on March 30, 2010, and incorporated herein by reference). 4. 5Certificate of Designations, Preferences and Rights of Perpetual Series B- 1 Preferred Stock of the Registrant (filed as Exhibit 3. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on August 9, 2011, and incorporated herein by reference). 4. 6Certificate of Designations of Rights, Powers, Preferences, Privileges and Restrictions of the 0 % Series B Convertible Preferred Stock (filed as Exhibit 3. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on November 14, 2017, and incorporated herein by reference). 4. 7Certificate of Designations of Rights, Powers, Preferences, Privileges and Restrictions of the 0 % Series C Convertible Preferred Stock (filed as Exhibit 3. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on January 25, 2018, and incorporated herein by reference). 4. 8Certificate of Designations of the 6. 0 % Series D Convertible Preferred Stock (filed as Exhibit 3. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on October 7, 2019, and incorporated herein by reference). 4. 9Certificate of Designations of the 6. 0 % Series E Convertible Preferred Stock (filed as Exhibit 3. 2 to the Registrant's Current Report on Form 8- K filed with the SEC on October 7, 2019, and incorporated herein by reference). 4. 10Certificate of Designations of the 9. 0 % Series F Convertible Preferred Stock (filed as Exhibit 3. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on April 3, 2023, and incorporated herein by reference). 4. 11Form of Common Stock Purchase Warrant (filed as Exhibit 4. 1 to the Registrant's Quarterly Report on Form 10- Q filed with the SEC on November 16, 2020, and incorporated herein by reference). 4. 12Form of Series A Common Stock Purchase Warrant (filed as Exhibit 4. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on June 28, 2021, and incorporated herein by reference). 4. 13Form of Series B Common Stock Purchase Warrant (filed as Exhibit 4. 2 to the Registrant's Current Report on Form 8- K filed with the SEC on June 28, 2021, and incorporated herein by reference). 4. 14Form of Amendment to Series A Warrants (filed as Exhibit 4. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on January 3, 2022, and incorporated herein by reference). 4. 15Form of Amendment to Series A Warrants (filed as Exhibit 4. 1 to the Registrant's Current Report of Form 8- K filed with the SEC on January 3, 2023, and incorporated herein by reference). 4. 16Form of Common Warrant (filed as Exhibit 4. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on April 3, 2023, and incorporated herein by reference). 4. 17Form of Preferred Warrant (filed as Exhibit 4. 2 to the Registrant's Current Report on Form 8- K filed with the SEC on April 3, 2023, and incorporated herein by reference). 4. 18Form of Exchange Warrant (filed as Exhibit 4. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on July 5, 2023, and incorporated herein by reference). 4. 19 \* Description of Common Securities.- 48- 10. 1 # Form of Stock Option Award Agreement (filed as Exhibit 99. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on March 15, 2012, and incorporated herein by reference). 10. 2 # Form of Restricted Stock Award Agreement (filed as Exhibit 99. 2 to the Registrant's Current Report on Form 8- K filed with the SEC on March 15, 2012, and incorporated herein by reference). 10. 3 # Glowpoint, Inc. 2014 Equity Incentive Plan (filed as Exhibit 10. 2 to the Registrant's Current Report on Form 8- K filed with the SEC on June 2, 2014, and incorporated herein by reference). 10. 4 # 2015 Form of Performance- Vested Restricted Stock Unit Agreement (Executive Officers) (filed as Exhibit 10. 6 to the Registrant's Annual Report on Form 10- K filed with the SEC on March 5, 2015, and incorporated herein by reference). 10. 5 # 2015 Form of Performance- Vested Restricted Stock Unit Agreement (Employees) (filed as Exhibit 10. 7 to the Registrant's Annual Report on Form 10- K filed with the SEC on March 5, 2015, and incorporated herein by reference). 10. 6 # 2016 Form of Performance- Vested Restricted Stock Unit Agreement (Executive Officers) (filed as Exhibit 10. 8 to the Registrant's Annual Report on Form 10- K filed with the SEC on March 31, 2017, and incorporated herein by reference). 10. 7 # 2016 Form of Performance- Vested Restricted Stock Unit Agreement (Employees) (filed as Exhibit 10. 9 to the Registrant's Annual Report on Form 10- K filed with the SEC on March 31, 2017,

and incorporated herein by reference). 10. 8 # Form of Time-Vested Restricted Stock Unit Agreement (Executive Officers) (filed as Exhibit 10. 8 to the Registrant's Annual Report on Form 10- K filed with the SEC on March 5, 2015, and incorporated herein by reference). 10. 9 # Form of Time-Vested Restricted Stock Unit Agreement (Employees) (filed as Exhibit 10. 9 to the Registrant's Annual Report on Form 10- K filed with the SEC on March 5, 2015, and incorporated herein by reference). 10. 10 # Form of Restricted Stock Grant Agreement (filed as Exhibit 10. 12 to the Registrant's Annual Report on Form 10- K filed with the SEC on March 31, 2017, and incorporated herein by reference). 10. 11 # Form of Director Restricted Stock Unit Agreement (filed as Exhibit 10. 8 to the Registrant's Annual Report on Form 10- K filed with the SEC on March 5, 2015, and incorporated herein by reference). 10. 12 # Form of Indemnification Agreement for directors and officers (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on June 2, 2014, and incorporated herein by reference). 10. 13 Form of Securities Purchase Agreement, dated October 23, 2017 (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on October 23, 2017, and incorporated herein by reference). 10. 14 Form of Securities Purchase Agreement, dated January 22, 2018 (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on January 22, 2018, and incorporated herein by reference). 10. 15 # First Amendment to the Glowpoint, Inc. 2014 Equity Incentive Plan (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on June 1, 2018, and incorporated herein by reference). 10. 16 Representation Agreement, dated July 19, 2019, by and among the Registrant and the Stockholders named therein (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on July 25, 2019, and incorporated herein by reference). 10. 17 # Second Amended and Restated Employment Agreement, by and between the Registrant and Peter Holst, dated July 19, 2019 (filed as Exhibit 10. 2 to the Registrant's Current Report on Form 8- K filed with the SEC on July 25, 2019, and incorporated herein by reference). 10. 18 # Amended and Restated Employment Agreement, by and between the Registrant and David Clark, dated July 19, 2019 (filed as Exhibit 10. 2 to the Registrant's Current Report on Form 8- K filed with the SEC on July 25, 2019, and incorporated herein by reference). 10. 19 Series E Preferred Stock Purchase Agreement, dated October 1, 2019, by and among the Registrant and the Purchasers party thereto (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on October 7, 2019, and incorporated herein by reference). 10. 20 Registration Rights Agreement, dated October 1, 2019, by and among the Registrant and the Purchasers party thereto (filed as Exhibit 10. 2 to the Registrant's Current Report on Form 8- K filed with the SEC on October 7, 2019, and incorporated herein by reference). 10. 21 # Glowpoint, Inc. 2019 Equity Incentive Plan (filed as Exhibit 10. 3 to the Registrant's Current Report on Form 8- K filed with the SEC on December 20, 2019, and incorporated herein by reference). 10. 22 Form of Securities Purchase Agreement (filed as Exhibit 10. 1 to the Registrant's Quarterly Report on Form 10- Q filed with the SEC on November 16, 2020, and incorporated herein by reference). 10. 23 Form of Securities Purchase Agreement (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on June 28, 2021, and incorporated herein by reference). 10. 24 Separation Agreement dated March 4, 2022, between the Company and Pete Hawkes (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on March 8, 2022, and incorporated herein by reference). 49-10. 25 Securities Purchase Agreement, dated March 31, 2023 (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on April 3, 2023, and incorporated herein by reference). 10. 26 Registration Rights Agreement, dated March 31, 2023 (filed as Exhibit 10. 2 to the Registrant's Current Report on Form 8- K filed with the SEC on April 3, 2023, and incorporated herein by reference). 10. 27 Engagement Letter, dated March 30, 2023 (filed as Exhibit 10. 3 to the Registrant's Current Report on Form 8- K filed with the SEC on April 3, 2023, and incorporated herein by reference). 10. 28 Form of Warrant Repricing Letter, dated April 18, 2023 (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on April 24, 2023, and incorporated herein by reference). 10. 29 Exchange Agreement, dated as of June 30, 2023, between Oblong, Inc. and Foundry Venture Capital 2007, L. P. and Foundry Group Select Fund, L. P. (filed as Exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on July 5, 2023, and incorporated herein by reference). 10. 30 Waiver, dated as of October 6, 2023, between Oblong, Inc. and certain Investors (filed as exhibit 10. 1 to the Registrant's Current Report on Form 8- K filed with the SEC on October 10, 2023, and incorporated herein by reference). 21. 1 \* Subsidiaries of the Registrant. 23. 1 \* Consent of Independent Registered Public Accounting Firm - EisnerAmper LLP. 24. 1 Power of Attorney (included in the signature page hereto) 31. 1 \* Rule 13a-14 (a) / 15d-14 (a) Certification of the Chief Executive Officer. 31. 2 \* Rule 13a-14 (a) / 15d-14 (a) Certification of the Chief Financial Officer. 32. 1 \* \* Section 1350 Certification of the Chief Executive Officer and Chief Financial Officer. 97. 1 \* # Compensation Clawback Policy 101. INS Inline XBRL Instance Document 101. SCH Inline XBRL Taxonomy Extension Schema 101. CAL Inline XBRL Taxonomy Extension Calculation Linkbase 101. DEF Inline XBRL Taxonomy Extension Definition Linkbase 101. LAB Inline XBRL Taxonomy Extension Label Linkbase 101. PRE Inline XBRL Taxonomy Extension Presentation Linkbase 104 Cover Page Interactive Data File (embedded within the Inline XBRL document). \_\_\_\_\_ # Constitutes a management contract, compensatory plan or arrangement. \* Filed herewith. \* \* Furnished herewith. † Schedules have been omitted pursuant to Item 601 (b) (2) of Regulation S- K. The registrant hereby undertakes to furnish supplemental copies of any of the omitted schedules upon request by the SEC. - 50- SIGNATURES Pursuant to the requirement of Section 13 or 15 (d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized. March 19, 2024 OBLONG, INC. By: / s / Peter Holst Peter Holst Chief Executive Officer and President POWER OF ATTORNEY KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Peter Holst and David Clark jointly and severally, his attorneys-in- fact, each with power of substitution, for him in any and all capacities, to sign any amendments to this Report on Form 10- K, and file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that each of said attorneys-in- fact, or his substitute or substitutes, may do or cause to be done by virtue hereof. Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant as of this 19th day of March 2024 in the capacities indicated. / s / Peter Holst Chairman, President and Chief

Executive Officer Peter Holst /s/ David Clark Chief Financial Officer (Principal Financial and Accounting Officer) David Clark /s/ Jonathan Schechter Director Jonathan Schechter /s/ Jason Adelman Director Jason Adelman /s/ Robert Weinstein Director Robert Weinstein /s/ Deborah Meredith Director Deborah Meredith - 51- REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM To the Board of Directors and Stockholders of Opinion on the Financial Statements We have audited the accompanying consolidated balance sheets of Oblong, Inc. and Subsidiaries (the "Company") as of December 31, 2023 and 2022, and the related consolidated statements of operations, stockholders' equity, and cash flows for each of the years then ended, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the consolidated financial position of the Company as of December 31, 2023 and 2022, and the consolidated results of its operations and its cash flows for each of the years then ended, in conformity with accounting principles generally accepted in the United States of America. Basis for Opinion These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Company in accordance with the U. S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB. We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion. Critical Audit Matter The critical audit matter communicated below is a matter arising from the current period audit of the financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the financial statements and (2) involves our especially challenging, subjective, or complex judgments. The communication of the critical audit matter does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates. Accounting for the 2023 private placement As described in Note 10 to the consolidated financial statements, in March 2023, the Company closed a private placement and issued (i) 6, 550 shares of newly designated Series F preferred stock; (ii) preferred warrants to acquire 32, 750 shares of Series F preferred stock, and (iii) common warrants to acquire up to 3, 830, 413 shares of common stock. Based on the terms of the warrant agreements, the Company determined that the Series F preferred stock, the Series F preferred warrants and the common warrants should be classified as permanent equity. We identified the assessment of the accounting and balance sheet classification of the Series F preferred stock, the Series F preferred warrants and the common warrants as equity or liability as a critical audit matter due to the complexity in assessing the instrument features, which requires management to interpret and apply complex terms of the agreements and the appropriate accounting guidance. As such, there was a high degree of auditor judgement and subjectivity, and significant audit effort was required in performing procedures to evaluate management's conclusions. Addressing the critical audit matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the financial statements. These procedures included, among others, (i) obtaining an understanding of and evaluating the design of controls related to financial reporting; (ii) obtaining the equity agreements and evaluating the terms and conditions of the agreements and assessing the reasonableness of management's interpretation and application of the F-1 appropriate accounting guidance and (ii) utilizing personnel with specialized skill and knowledge to assist in assessing the appropriateness of conclusions reached by management by (a) evaluating the underlying terms of the agreements and (b) assessing the appropriateness of management's application of the authoritative accounting guidance. /s/ EisnerAmper LLP We have served as the Company's auditor since 2010. EISNERAMPER LLP F-2- CONSOLIDATED BALANCE SHEETS (In thousands, except par value, stated value and shares) December 31, 2023 December 31, 2022 ASSETS Current assets: Cash and cash equivalents \$ 5, 990 \$ 3, 085 Accounts receivable, net 424 415 Inventory, net 239 723 Prepaid expenses and other current assets 243 649 Total current assets 6, 896 4, 872 Property and equipment, net 3 Intangibles, net 604 Operating lease, right-of-use assets, net 17 142 Other assets 12 40 Total assets \$ 6, 925 \$ 5, 661 LIABILITIES AND STOCKHOLDERS' EQUITY Current liabilities: Accounts payable 211 184 Accrued expenses and other current liabilities 1, 038 1, 074 Current portion deferred revenue 132 436 Operating lease liabilities, current 17 219 Total current liabilities 1, 398 1, 913 Long-term liabilities: Operating lease liabilities, net of current portion 17 Deferred revenue, net of current portion 26 114 Total long-term liabilities 26 131 Total liabilities 1, 424 2, 044 Commitments and contingencies (see Note 14) Stockholders' equity: Preferred stock Series F, convertible; \$. 0001 par value; \$ 2, 064, 063 stated value; 42, 000 shares authorized, 1, 930 and zero shares issued and outstanding at December 31, 2023 and December 31, 2022, respectively Common stock, \$. 0001 par value; 150, 000, 000 shares authorized; 16, 692, 000 shares issued and 16, 685, 000 shares outstanding at December 31, 2023 and 2, 071, 000 shares issued and 2, 063, 000 outstanding at December 31, 2022 Treasury stock, 8, 000 common shares at December 31, 2023 and 2022 (181) (181) Additional paid-in capital 233, 911 227, 645 Accumulated deficit (228, 231) (223, 847) Total stockholders' equity 5, 501 3, 617 Total liabilities and stockholders' equity \$ 6, 925 \$ 5, 661 See accompanying notes to consolidated financial statements F-3- CONSOLIDATED STATEMENTS OF OPERATIONS (In thousands, except per share data) Year Ended December 31, 2023 2022 Revenue \$ 3, 810 \$ 5, 476 Cost of

revenue (exclusive of depreciation and amortization and casualty loss) 2, 899 3, 930 Gross profit 911 1, 546 Operating expenses (gains): Research and development 20 1, 699 Sales and marketing 309 1, 431 General and administrative 4, 870 5, 278 Impairment charges 262 12, 740 Casualty (gain) loss, net (400) 483 Depreciation and amortization 345 1, 903 Total operating expenses 5, 406 23, 534 Loss from operations (4, 495) (21, 988) Interest and other income, net Interest and other expense 28 19 Interest and other income (166) (59) Total interest and other income, net (138) (40) Loss before income taxes (4, 357) (21, 948) Income tax expense (benefit) 27 (7) Net loss \$ (4, 384) \$ (21, 941) Preferred stock dividends 343 — Induced conversion of warrants 751 — Warrant modification 25 — Net loss attributable to common stockholders \$ (5, 503) \$ (21, 941) Net loss attributable to common stockholders per share: Basic and diluted net loss per share \$ (0. 98) \$ (10. 62) Weighted-average number of shares of common stock: Basic and diluted 5, 595 2, 065 See accompanying notes to consolidated financial statements—F- 4- CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (In thousands, except shares of Series F Preferred Stock) Series F Preferred Stock Common Stock Treasury Stock Shares Amount Shares Amount Shares Amount Additional Paid-In Capital Accumulated Deficit Total Balance at December 31, 2021 — \$ 2, 071 \$ 8 (181) \$ 227, 584 \$ (201, 906) \$ 25, 497 Net loss — (21, 941) (21, 941) Stock-based compensation — 146 146 Forfeiture of unvested stock options — (85) (85) Balance at December 31, 2022 — 2, 071 8 (181) 227, 645 (223, 847) 3, 617 Net loss — (4, 384) (4, 384) Stock-based compensation — 180 504 504 Proceeds from private placement, net of fees 6, 550 5, 364 5, 364 Proceeds from warrant exercise, net of fees — 339 534 534 Common stock exchanged for pre-funded warrants — (407) — Exercise of pre-funded warrants — 407 — Conversions of Series F Preferred Stock and accrued dividends (4, 620) 14, 102 2 207 209 Series F Preferred Stock dividends — (343) (343) Balance at December 31, 2023 1, 930 \$ 16, 692 \$ 2 8 (181) \$ 233, 911 \$ (228, 231) \$ 5, 501 See accompanying notes to consolidated financial statements—F- 5- CONSOLIDATED STATEMENTS OF CASH FLOWS (In thousands) Year Ended December 31, 2023 2022 Cash flows from Operating Activities: Net loss \$ (4, 384) \$ (21, 941) Adjustments to reconcile net loss to net cash used in operating activities: Depreciation and amortization 345 1, 903 Bad debt (recovery) expense (52) 118 Non-cash lease expense from right-of-use assets 125 349 Stock-based compensation 504 146 Forfeiture of unvested stock options — (85) Loss (gain) on disposal of assets 3 (2) Casualty loss on inventory — 483 Impairment charges—property and equipment — 61 Impairment charges—intangible assets 259 5, 133 Impairment charges—right-of-use assets — 179 Impairment charges—goodwill — 7, 367 Changes in assets and liabilities: Accounts receivable 43 316 Prepaid expenses and other current assets 406 432 Inventory 484 615 Other assets 28 69 Accounts payable 27 (75) Accrued expenses and other current liabilities (170) 115 Deferred revenue (392) (614) Lease liabilities (219) (503) Net cash used in operating activities (2, 993) (5, 934) Cash flows from Investing Activities: Proceeds on sale of equipment — 30 Purchases of property and equipment — (11) Net cash provided by investing activities — 19 Cash flows from Financing Activities: Proceeds from private placement, net of issuance costs 5, 364 — Net proceeds from exercise of common stock warrants 534 — Net cash provided by financing activities 5, 898 — Net increase (decrease) in cash and cash equivalents 2, 905 (5, 915) Cash and restricted cash at beginning of year 3, 085 9, 000 Cash and cash equivalents at end of year \$ 5, 990 \$ 3, 085 Supplemental disclosures of cash flow information: Cash paid during the period for interest \$ 20 \$ 7 Cash paid for income taxes \$ 31 \$ — See accompanying notes to consolidated financial statements—F- 6- Reconciliation of cash and cash equivalents Cash \$ 5, 490 \$ 3, 085 Current certificates of deposit 500 — Total cash and cash equivalents \$ 5, 990 \$ 3, 085 Non-cash investing and financing activities: New operating lease agreement \$ — \$ 11 Preferred stock dividends \$ 343 \$ — Warrant modification \$ 25 \$ — Induced exercise of common stock warrants \$ 751 \$ — Common stock issued for conversion of Preferred Stock and accrued dividends \$ 209 \$ — See accompanying notes to consolidated financial statements—F- 7- NOTES TO CONSOLIDATED FINANCIAL STATEMENTS Oblong, Inc. (“Oblong” or “we” or “us” or the “Company”) was formed as a Delaware corporation in May 2000 and is a provider of patented multi-stream collaboration technologies and managed services for video collaboration and network applications. Prior to March 6, 2020, Oblong, Inc. was named Glowpoint, Inc. (“Glowpoint”). On March 6, 2020, Glowpoint changed its name to Oblong, Inc. Principles of Consolidation The Consolidated Financial Statements include the accounts of Oblong and our 100%-owned subsidiaries (i) GP Communications, LLC (“GP Communications”), whose business function is to provide interstate telecommunications services for regulatory purposes, and (ii) Oblong Industries, Inc. All inter-company balances and transactions have been eliminated in consolidation. The U. S. Dollar is the functional currency for all subsidiaries. During 2022, the Company ceased operations through Oblong Industries' 100%-owned subsidiary Oblong Europe Limited, and combined the operations into Oblong Industries, Inc. There was no activity for this subsidiary in 2022 or 2023 and Oblong Europe, Limited remains in liquidation. Segments Effective October 1, 2019, the former businesses of Glowpoint (now Oblong, Inc.) and Oblong Industries have been managed separately, and involve different products and services. Accordingly, the Company currently operates in two segments for purposes of segment reporting: (1) “Collaboration Products” which represents the Oblong Industries business surrounding our Mezzanine™ product offerings and (2) “Managed Services” which represents the Oblong (formerly Glowpoint) business surrounding managed services for video collaboration and network solutions. See Note 13- Segment Reporting for further discussion. Use of Estimates Preparation of the Consolidated Financial Statements in conformity with U. S. generally accepted accounting principles (“U. S. GAAP”) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the Consolidated Financial Statements and the reported amounts of revenues and expenses during the reporting period. Actual amounts could differ from the estimates made. We continually evaluate estimates used in the preparation of our Consolidated Financial Statements for reasonableness. Appropriate adjustments, if any, to the estimates used are made prospectively based upon such periodic evaluation. The significant areas of estimation include determining the estimated credit losses and the inputs used in the fair value of equity-based awards. Cash and Cash Equivalents As of December 31, 2023, our total cash balance of \$ 5, 990, 000 is available, however, of this balance \$ 500, 000 was held in short-term certificates of deposit with MidFirst Bank. As of December 31, 2022, our total cash balance of \$ 3, 085, 000 was

available. The Company considers highly liquid investments with original maturities of three months or less to be cash equivalents. Accounts Receivable and Provision for Estimated Credit Losses Accounts receivable are customer obligations due under normal trade terms. The Company sells its Managed Services products to end-users, and its Collaboration Products to both resell partners and end-users. The Company extends credit to its customers based on their credit worthiness and on historical data, and performs ongoing credit evaluations of our customers' financial condition. The Company maintains an allowance for estimated credit losses, related to accounts receivable, for future expected bad debt resulting from the inability or unwillingness of our customers to make required payments. We estimate our allowance for estimated credit losses based on relevant information such as historical experience, current economic conditions, and future expectations of specifically identified customer balances. This allowance is adjusted as appropriate to reflect current F-8 conditions. After all attempts to collect a receivable have failed, the receivable is written off against the allowance. We do not obtain collateral from our customers to secure accounts receivable. Net accounts receivable consisted of the following: As of December 31, 2023 2022 Accounts receivable \$ 577,000 \$ 624,000 Allowance for estimated credit losses (153,000) (209,000) Accounts receivable, net \$ 424,000 \$ 415,000 During the years ended December 31, 2023 and 2022, the Company recorded bad debt recovery of \$ 52,000 and bad debt expense of \$ 118,000, respectively. As of December 31, 2021, accounts receivable and the allowance for doubtful accounts were \$ 949,000 and \$ 100,000, respectively. Inventory consists of finished goods and was determined using average costs and was stated at the lower of cost or net realizable value. The Company periodically performs analyses to identify obsolete or slow-moving inventory. Fair Value of Financial Instruments The Company considers its cash and cash equivalents, accounts receivable, accounts payable and lease obligations to meet the definition of financial instruments. The carrying amount of cash and cash equivalents, accounts receivable and accounts payable approximated their fair value due to the short maturities of these instruments. The carrying amounts of our lease obligations (see Note 8- Operating Lease Liabilities and Right-of-Use Assets) approximated their fair values, which were based on borrowing rates that were available to the Company for loans with similar terms, collateral, and maturity. The Company measures fair value as required by Accounting Standards Codification ("ASC") Topic 820 "Fair Value Measurements and Disclosures" ("ASC Topic 820"). ASC Topic 820 defines fair value, establishes a framework and gives guidance regarding the methods used for measuring fair value, and expands disclosures about fair value measurements. ASC Topic 820 clarifies that fair value is an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or liability. As a basis for considering such assumptions, there exists a three-tier fair value hierarchy, which prioritizes the inputs used in measuring fair value as follows: • Level 1- unadjusted quoted prices in active markets for identical assets or liabilities that the Company has the ability to access as of the measurement date. • Level 2- inputs other than quoted prices included within Level 1 that are directly observable for the asset or liability or indirectly observable through corroboration with observable market data. • Level 3- unobservable inputs for the asset or liability only used when there is little, if any, market activity for the asset or liability at the measurement date. This hierarchy requires the Company to use observable market data, when available, and to minimize the use of unobservable inputs when determining fair value. F-9- The Company's managed videoconferencing services are offered to our customers on either a usage basis or on a subscription. Our network services are offered to our customers on a subscription basis. Revenue for these services is generally recognized on a monthly basis as services are performed. Revenue related to professional services is recognized at the time the services are performed. The costs associated with obtaining a customer contract were previously expensed in the period they were incurred. Under Topic 606, these payments are deferred on our consolidated balance sheets and amortized over the expected life of the customer contract. As of December 31, 2023 there was no deferred revenue related to Managed Services. During the year ended December 31, 2023, the Company recorded \$ 1,000 of revenue that was included in deferred revenue as of December 31, 2022. During the year ended December 31, 2022, the Company recorded \$ 7,000 of revenue that was included in deferred revenue as of December 31, 2021. The Company disaggregates its revenue by geographic region. See Note 13- Segment Reporting for more information. Taxes Billed to Customers and Remitted to Taxing Authorities We recognize taxes billed to customers in revenue and taxes remitted to taxing authorities in our cost of revenue. For the years ended December 31, 2023 and 2022, we included taxes of \$ 95,000 and \$ 207,000, respectively, in revenue and we included taxes of \$ 101,000 and \$ 217,000, respectively, in cost of revenue. Long-Lived Assets, Goodwill, and Intangible Assets Property and Equipment Property and equipment are accounted for in accordance with ASC Topic 360 "Property, Plant, and Equipment" ("ASC Topic 360"), stated at cost, and are depreciated using the straight-line method over the estimated economic lives of the assets, which range from three to ten years. Leasehold improvements are amortized over the shorter of either the asset's useful life or the related lease term. Depreciation is computed on the straight-line method for financial reporting purposes. Property and equipment assets, net of accumulated depreciation, totaled zero and \$ 3,000 as of December 31, 2023 and 2022, respectively. F-10- Right-of-use Assets are accounted for in accordance with ASC Topic 842 "Leases" ("ASC Topic 842"), and are amortized using a straight-line method over the estimated life of the lease. Right-of-use assets, net totaled \$ 17,000 and \$ 142,000, as of December 31, 2023 and 2022, respectively. As of the date of this filing, the Company had no right-of-use assets remaining. The Company has primarily leased facilities for office and warehouse space under non-cancellable operating leases for its U. S. locations, and accounts for these leases in accordance with ASC- 842. Operating lease right-of-use assets and liabilities are recognized at commencement date based on the present value of lease payments over the expected lease term. Right-of-use assets represent our right to use an underlying asset for the lease term and lease liabilities represent our obligation to make lease payments arising from the lease. Since our lease arrangements do not provide an implicit rate, we use our estimated incremental borrowing rate for the expected remaining lease term at commencement date in determining the present value of future lease payments. For the year ended December 31, 2023, the Company disposed of property and equipment assets with a net value of \$ 3,000. See Note 5- Property and Equipment for further discussion. During the year ended December 31, 2022, the Company recorded

impairment charges of \$ 61, 000 on property and equipment assets. For the year ended December 31, 2023, the Company recorded impairment charges of \$ 259, 000 on purchased intangible assets, as a result of these impairment charges there are no intangible assets reported on our Consolidated Balance Sheet as of December 31, 2023. See Note 6- Intangible Assets and Goodwill for further discussion. The Company recorded impairment Charges of \$ 5, 133, 000 to purchased intangible assets for the year ended December 31, 2022. During the year ended December 31, 2022, we recorded impairment charges of \$ 7, 367, 000 on goodwill. As a result of these impairment charges, there was no goodwill reported on our Consolidated Balance Sheets as of December 31, 2023 or December 31, 2022. Right- of- use assets are tested for impairment using guidance from ASC Topic 360. For the year ended December 31, 2022, the Company recorded aggregate impairment charges of \$ 179, 000 on two right- of- use assets. There were no right- of- use asset impairments for the year ended December 31, 2023. Operating Leases Operating leases are accounted for in accordance with ASC Topic 842 “Leases” (“ASC Topic 842”), and the liabilities are amortized using a straight- line method over the estimated life of the lease. The remaining operating lease liability as of December 31, 2023 and 2022 was \$ 17, 000 and \$ 236, 000, respectively. As of the date of this filing, the Company had no lease liability remaining. See Note 8- Operating Lease Liabilities and Right- of- Use Assets for further discussion. Operating lease expense is recognized on a straight- line basis over the lease term. Variable lease payments are not included in the lease payments to measure the lease liability and are expensed as incurred. Historically, the Company’s leases have had F- 11- terms of 6 months to five years and some of the leases included a Company option to extend the lease term for less than twelve months to five years, or more, which if reasonably certain to exercise, the Company includes in the determination of lease payments. The lease agreements did not contain any material residual value guarantees or material restrictive covenants. Leases with an initial term of 12 months or less, with the exception of leases for real property, are not recognized on the balance sheet and the expense for these short- term leases is recognized on a straight- line basis over the lease term. Common area maintenance fees (or CAMs) and other charges related to leases are expensed as incurred. Concentration of Credit Risk Financial instruments that potentially subject us to significant concentrations of credit risk consist principally of cash and trade accounts receivable. We place our cash needed for operations in commercial checking accounts, and the majority of our cash is held in a money market fund. Commercial bank balances may from time to time exceed federal insurance limits. Deposits are insured by the Federal Deposit Insurance Corporation (the “FDIC”) in an amount up to \$ 250, 000 for any depositor, any deposit in excess of this insured amount could be lost. We use the asset and liability method to determine our income tax expense or benefit. Deferred tax assets and liabilities are computed based on temporary differences between the financial reporting and tax bases of assets and liabilities and are measured using the enacted tax rates that are expected to be in effect when the differences are expected to be recovered or settled. Any resulting net deferred tax assets are evaluated for recoverability and, accordingly, a valuation allowance is provided when it is more likely than not that all or some portion of the deferred tax asset will not be realized. Stock- based Compensation Stock- based awards have been accounted for as required by ASC Topic 718 “Compensation—Stock Compensation” (“ASC Topic 718”). Under ASC Topic 718 stock- based awards are valued at fair value on the date of grant, and that fair value is recognized over the requisite service period. The Company accounts for forfeitures when they occur. Research and Development Research and development expenses include internal and external costs related to developing new service offerings and features and enhancements to our existing product offerings. Purchases and sales of treasury stock are accounted for using the cost method. Under this method, shares acquired are recorded at the acquisition price directly to the treasury stock account. Upon sale, the treasury stock account is reduced by the original acquisition price of the shares and any difference is recorded in additional paid in capital, on a first- in first- out basis. The Company does not recognize a gain or loss to income from the purchase and sale of treasury stock. In June 2022, the Company discovered that \$ 533, 000 of inventory was stolen from the Company’s warehouse in City of Industry, California. During 2022 and 2023, we received recovery payments from our insurance policies of \$ 50, 000 and \$ 400, 000, respectively, resulting in a net casualty loss of \$ 483, 000 on our Consolidated Statements of Operations for the year ended December 31, 2022 and a casualty gain of \$ 400, 000 on our Consolidated Statements of Operations for the year ended December 31, 2023. We do not expect any further recovery of the loss. Recently Adopted Accounting Pronouncements There are no new accounting pronouncements that are expected to have a significant impact on financial statements. In June 2016 the FASB issued ASU 2016- 13, “Financial Instruments- Credit Losses (Topic 326),” which was subsequently amended in February 2020 by ASU 2020- 02, “Financial Instruments- Credit Losses (Topic 326) and Leases- F- 12- (Topic 842).” The amendments introduce an impairment model that is based on expected credit losses, rather than incurred losses, to estimate credit losses on certain types of financial instruments (e. g., loans and held- to- maturity securities), including certain off- balance sheet financial instruments (e. g., loan commitments). The expected credit losses should consider historical information, current information, and reasonable and supportable forecasts, including estimates of prepayments, over the contractual term. Financial instruments with similar risk characteristics may be grouped together when estimating expected credit losses. The update is effective for fiscal years beginning after December 15, 2022, including interim periods within those fiscal years. The Company adopted the new guidance, as of January 1, 2023, and it did not have a material impact on the Consolidated Financial Statements. Recently Issued Accounting Pronouncements In November 2023, the FASB issued ASU No. 2023- 07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The new guidance is intended to improve reportable segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. The amendments are effective retrospectively for fiscal years beginning after December 15, 2023 and interim periods within fiscal years beginning after December 15, 2024. The Company is in the process of evaluating the impact that the adoption of this ASU will have to the financial statements and related disclosures, which is not expected to be material. In December 2023, the FASB issued ASU No. 2023- 09, Improvements to Tax Disclosures (Topic 740), to enhance the transparency and decision usefulness of income tax disclosures through changes to the rate reconciliation and income taxes paid information. This guidance is effective for fiscal years beginning after December 15, 2024, with early adoption permitted. The Company is evaluating the impact of adopting this

new accounting guidance on its Consolidated Financial Statements. Note 2—Liquidity As of December 31, 2023, we had \$ 5,990,000 of available cash and cash equivalents, inclusive of \$ 500,000 held in short-term certificates of deposit, and \$ 5,498,000 of working capital. For the years ended December 31, 2023 and 2022, we incurred net losses of \$ 4,384,000 and \$ 21,941,000, respectively, and net cash used in operating activities was \$ 2,993,000 and \$ 5,934,000, respectively. Net cash provided by investing activities for the year ended December 31, 2022 was \$ 19,000, primarily related to the sale of property and equipment. There was no cash flow activity related to investing activities for the year ended December 31, 2023. Net cash provided by financing activities for the year ended December 31, 2023 was attributable to a private placement resulting in net proceeds of \$ 5,364,000 and warrant exercises resulting in net proceeds of \$ 534,000 (see Note 9—Capital Stock and Note 10—Preferred Stock to our Consolidated Financial Statements). There was no cash flow related to financing activities for the year ended December 31, 2022.

Note 3—Inventory Inventory (gross) was \$ 930,000 and \$ 1,175,000 as of December 31, 2023 and 2022, respectively, and consisted of equipment related to our Mezzanine™ product offerings, including cameras, tracking hardware, computer equipment, display equipment and amounts related to our Collaboration Products segment. Inventory consists of finished goods, as determined using average costs, and was stated at the lower of cost or net realizable value. As of December 31, 2023 and 2022, reserves for obsolete or slow moving inventory were recorded of \$ 691,000 and \$ 452,000, respectively. Inventory is shown net of the obsolescence reserve on our Consolidated Balance Sheets. The reserve—F-13—adjustment recorded to cost of goods sold was a net increase of \$ 342,000 and \$ 316,000 for the years ended December 31, 2023 and 2022, respectively. The following table summarizes our inventory reserve activity (in thousands):

Reserve balance as of December 31, 2021	Reserve adjustments	Disposals	Reserve balance as of December 31, 2022
\$ (731)	(316)	595	(452)
Reserve balance as of December 31, 2022	Reserve adjustments	Disposals	Reserve balance as of December 31, 2023
\$ (452)	(342)	103	\$ (691)

Note 4—Prepaid Expenses and Other Current Assets Prepaid expenses and other current assets consisted of the following (in thousands):

December 31, 2023	2022
Prepaid expenses	\$ 75
Employee Retention Credit receivable	316
Other current assets	98
Prepaid software licenses	70
Prepaid expenses and other current assets	\$ 243

Property and equipment consisted of the following (in thousands):

December 31, 2023	2022
Network equipment and software	\$ 1,913
Computer equipment and software	\$ 294
Property and equipment, net	\$ 3

Related depreciation expense was zero and \$ 78,000 for the years ended December 31, 2023 and December 31, 2022, respectively. During the year ended December 31, 2023, the Company disposed of property and equipment with a cost of \$ 2,207,000 on fixed assets and the corresponding accumulated depreciation of \$ 2,204,000. The loss of \$ 3,000 on disposal was recorded in impairment charges on the accompanying Consolidated Statements of Operations. During the year ended December 31, 2022, the Company recorded impairment charges of \$ 61,000.

F-14—The following table presents the components of net intangible assets (in thousands):

December 31, 2023	2022
Developed technology	\$ 486
Trade names	204
Total intangible assets	690
Accumulated amortization	(86)
Intangible assets, net	\$ 604

At each reporting period, we determine if there was a triggering event that may result in an impairment of our intangible assets. Collaboration Products Reportable Segment During the year ended December 31, 2023, we considered the declines in revenue for the Collaboration Products reporting segment and the decline in the Company’s market capitalization to be triggering events for an impairment test of intangible assets for this segment. Based on the corresponding recoverability tests of the asset group for this segment, it was determined that the carrying value exceeded the gross cash flows of the asset group. The recoverability test consisted of comparing the estimated undiscounted cash flows expected to be generated by those assets to the respective carrying amounts, and involves significant judgements and assumptions, related primarily to the future revenue and profitability of the assets. Based on the fair value of the asset group, which was determined using a market approach, we recorded impairment charges of \$ 259,000 for the year ended December 31, 2023, writing down our intangible assets to zero as of December 31, 2023. During the year ended December 31, 2022, we recorded impairment charges of \$ 5,133,000 on intangible assets. Historically, intangible assets with finite lives were amortized using the straight-line method over the estimated economic lives of the assets, which ranged from five years to twelve years in accordance with ASC Topic 350. Related amortization expense was \$ 345,000 and \$ 1,825,000 for the years ended December 31, 2023 and 2022, respectively. During 2022, goodwill was written down to zero with impairment charges of \$ 7,367,000.

Note 7—Accrued Expenses and Other Current Liabilities Accrued expenses and other current liabilities consisted of the following (in thousands):

December 31, 2023	2022
Compensation costs	\$ 448
Customer deposits	118
Professional fees	104
Taxes and regulatory fees	22
Accrued rent	202
Accrued dividends on Series F Preferred Stock	136
Other accrued expenses and liabilities	8
Total	\$ 1,038

F-15—As of December 31, 2023, we leased one facility in City of Industry, California, providing warehouse space. This lease expired in February 2024. During 2023, and through the date of this filing, we exited office space leases Austin, Texas and Los Angeles, California as well as the warehouse lease in City of Industry, CA. Lease expenses, net of common charges, for the years ended December 31, 2023 and 2022 were \$ 214,000 and \$ 502,000, respectively. Sublet proceeds for the years ended December 31, 2023 and 2022 were zero and \$ 140,000, respectively. The following provides balance sheet information related to leases as of December 31, 2023 and 2022 (in thousands):

December 31, 2023	2022
Assets	
Operating lease, right-of-use asset, net	\$ 17
Liabilities	
Current portion of operating lease liabilities	\$ 17
Operating lease liabilities, net of current portion	17
Total operating lease liabilities	\$ 17

The following table summarizes the future undiscounted cash payments reconciled to the lease liability (in thousands):

Total lease payments remaining in 2024	Effect of discounting	Total lease liability
\$ 17	(1)	\$ 17

Less: current portion of lease liabilities

Operating lease liabilities, net of current portion	Effect of discounting
\$ (1)	(1)

The effect of discounting is less than \$ 1,000 due to the term remaining on the lease. The following table provides a reconciliation of activity for our right-of-use (“ROU”) assets and lease liabilities (in thousands):

Right-of-Use Asset	Operating Lease Liability	Balance at December 31, 2021
\$ 659	\$ 728	
Additions	11	
Amortizations and Reductions	(349)	
Impairment Charges	(179)	
Balance at December 31, 2022	236	
Amortizations and Reductions	(125)	
Balance at December 31, 2023	\$ 17	

The ROU assets and lease liabilities are recorded on the Company’s consolidated balance sheets as of December 31, 2023 and

December 31, 2022. In February 2023, we exited a property in Austin, Texas and in May 2023 we exited three properties in Los Angeles, California. In February 2024, the Company exited its City of Industry, California lease upon expiration. We are currently in the process of securing a warehouse facility in, or around, Denver, CO. During the interim, our inventory is being stored in a secured third party location. We currently operate out of remote employment sites with a remote office located at 110 16th Street, Suite 1400-1024, Denver, CO 80202.

F-16- The Company's common stock, par value \$ 0.0001 per share (the "Common Stock"), is listed on the Nasdaq Capital Market ("Nasdaq"). As of December 31, 2023 we had 150,000,000 shares of Common Stock authorized, with 16,692,124 and 16,684,571 shares issued and outstanding, respectively. On January 3, 2023, the Company effected a 1-for-15 reverse stock split of its Common Stock. All Common Stock share information (including treasury share information) in our Consolidated Financial Statements has been adjusted for this stock split retrospectively for all periods represented herein. On April 18, 2023, the Company issued 339,498 shares of Common Stock in relation to certain warrant exercises discussed below, and 177,564 shares of Common Stock related to vested restricted stock units discussed in Note 11- Stock Based Compensation. On May 28, 2023, in relation to the departure of certain directors, 42 restricted stock awards and 1,929 restricted stock units became fully vested and 1,971 shares of the Company's Common Stock were issued. See Note 11- Stock Based Compensation for further detail. During the year ended December 31, 2023, 4,620 shares of Series F Preferred Stock, plus accrued dividends, were converted to 14,102,477 shares of the Company's Common Stock, respectively. See Note 10- Preferred Stock, for further detail. On June 30, 2023, the Company entered into an exchange agreement (the "Exchange Agreement") with entities affiliated with Foundry Group (the "Exchanging Stockholders"), pursuant to which the Company exchanged an aggregate of 406,776 shares of the Company's Common Stock owned by the Exchanging Stockholders for pre-funded warrants (the "Exchange Warrants") to purchase an aggregate of 407,000 shares of Common Stock (subject to adjustment in the event of stock splits, recapitalizations and other similar events affecting Common Stock), with an exercise price of \$ 0.0001 per share. The Exchange Warrants were exercisable at any time, except that the Exchange Warrants were not exercisable by the Exchanging Stockholders if, upon giving effect or immediately prior thereto, the Exchanging Stockholders would beneficially own more than 4.99% of the total number of issued and outstanding Common Stock, which percentage may change at the holders' election to any other number less than or equal to 19.99% upon 61 days' notice to the Company. The holders of the Exchange Warrants did not have the right to vote on any matter except to the extent required by Delaware law. The shares were exchanged in July 2023, and the returned shares were added back to the authorized and unissued share balance of the Company. On November 15, 2023, all the Exchange Warrants were exercised resulting in 407,000 shares of Common Stock being issued. There was no Common Stock activity during the year ended December 31, 2022. The following table provides a summary of Common Stock activity for the year ended December 31, 2023:

Issued Shares as of December 31, 2022	2022	2021	
1,070,861	Issuances from Preferred Stock conversions	14,102,477	
Issuances related to warrants	746,027	Issuances related to stock compensation	179,535
Common shares exchanged for prefunded warrants	(406,776)	Issued Shares as of December 31, 2023	16,692,124
Less Treasury Shares	(7,553)	Outstanding Shares as of December 31, 2023	16,684,571

Common Stock Warrants On January 3, 2023, the Company and all the holders of the Series A Warrants agreed to amend the terms of the Series A Warrants, issued on June 28, 2021, to extend the termination date from January 4, 2023 to January 4, 2024. All other terms of the Series A Warrants remain in full force and effect. The modification resulted in an incremental value adjustment, and deemed dividend, of \$ 25,000, which was recorded within additional paid-in capital during the three months ended March 31, 2023.

F-17- On March 30, 2023, the Company entered into a Securities Purchase Agreement (the "Purchase Agreement") with certain accredited investors (the "Investors"), pursuant to which we issued and sold, in a private placement (the "Private Placement") (i) 6,550 shares of our newly designated Series F Preferred Stock, \$ 0.0001 par value per share (the "Series F Preferred Stock"), (ii) preferred warrants (the "Preferred Warrants") to acquire 32,750 shares of Series F Preferred Stock, and (iii) common warrants ("Common Warrants" and with the Preferred Warrants the "Investor Warrants") to acquire up to 3,830,417 shares of Common Stock. Please refer to Note 10- Preferred Stock for further discussion on the Series F Preferred Stock and Preferred Warrants. In connection with the Private Placement, pursuant to an engagement letter dated March 30, 2023, between the Company and Dawson James Securities, Inc. (the "Placement Agent"), the Company agreed to (i) pay the Placement Agent a cash fee equal to 8% of the aggregate gross proceeds raised in the Private Placement, and (ii) grant to the Placement Agent warrants (the "Placement Agent Warrants") to purchase 306,433 shares of Common Stock. On March 31, 2023, the Company issued the Common Warrants and the Placement Agent Warrants to purchase an aggregate of 4,136,850 shares of the Company's Common Stock. The Common Warrants and Placement Agent Warrants have a term of 5 years, commencing six months and one day from the date of issuance, and are initially exercisable for \$ 1.71 per share. The exercise price is subject to customary adjustments for stock splits, stock dividends, stock combination, recapitalization, or other similar transactions involving the Common Stock, and subject to price-based adjustment, on a full ratchet basis, in the event of any issuances of Common Stock, or securities convertible, exercisable or exchangeable for Common Stock, at a price below the then-applicable exercise price for the Common Warrants (subject to certain exceptions). The Common Warrants and Placement Agent Warrants are exercisable for cash, provided that if there is no effective registration statement available permitting the resale of the common shares, they may be exercised on a cashless basis. Exercise of the Common Warrants and Placement Agent Warrants is subject to certain limitations, including a 4.99% beneficial ownership limitation. The fair value of the warrants was recorded within additional paid-in capital during the three months ended March 31, 2023. On April 18, 2023, the Company entered into warrant exercise inducement offer letters with certain holders of outstanding warrants to purchase shares of the Company's common stock originally issued on October 21, 2020, December 6, 2020, and June 28, 2021, (such holders the "Exercising Holders" and such warrants the "Existing Warrants") pursuant to which the Exercising Holders agreed to exercise, for cash, Existing Warrants to purchase, in the aggregate, 339,498 shares of the Company's Common Stock (the "Existing Warrant Shares"), in exchange for the Company's agreement to lower the exercise price of the Existing Warrants to \$ 1.71. The Company received net proceeds of \$ 534,000 from the exercise of the

Existing Warrants in April 2023 (net of \$ 46, 000 of financing costs). The inducement resulted in an incremental value adjustment, and deemed dividend, of \$ 751, 000, which was recorded within additional paid-in capital during the three months ended June 30, 2023. Following this transaction, 667, 1, 934, and 1, 000 warrants remained outstanding of the warrants issued on October 21, 2020, December 6, 2020, and June 28, 2021, respectively. On April 23, 2023, the 667 unexercised warrants issued on October 21, 2020 expired. On June 7, 2023, the 1, 934 unexercised warrants issued on December 6, 2020 expired. On October 6, 2023, the Company and Investors holding a majority of the outstanding shares of the Preferred Stock agreed to waive any and all provisions, terms, covenants and obligations in the Certificate of Designations or Common Warrants to the extent such provisions permit the conversion or exercise of the Preferred Stock and the Common Warrants, respectively, to occur at a price below \$ 0. 2792. Notwithstanding anything to the contrary in the Common Warrants, the “ Exercise Price ” as set forth in the Common Warrant shall in no event be less than \$ 0. 2792 (as adjusted for stock splits, stock dividends, stock combinations, recapitalizations and similar events).

~~F-18~~ Warrants outstanding as of December 31, 2023 are as follows: Issue Date Warrants Issued Exercise Price Expiration Date June 30, 2021 Series A \* 250 \$ 60. 00 January 4, 2024 June 30, 2021 Series B 750 \$ 66. 00 June 28, 2024 Investor Common Warrants 3, 830, 417 \$ 1. 71 September 30, 2028 Placement Agent Warrants 306, 433 \$ 1. 71 September 30, 2028 4, 137, 850 \* The Series A warrant’ expiration date has been updated to reflect the extension described above that occurred on January 3, 2023, and as of the date of this filing, the remaining Series A Warrants have expired. Warrant activity for the years ended December 31, 2023 and 2022 is presented below:

Outstanding	Number of Warrants	Weighted Average Exercise Price
Warrants outstanding and exercisable, December 31, 2021	1343, 099	\$ 995. 06
Warrants outstanding and exercisable, December 31, 2022	2343, 099	66. 34
Granted	4, 543, 626	1. 71
Exercised	(746, 027)	0. 78
Expired	(2, 601)	76. 93
Forfeited	(247)	—
Warrants outstanding and exercisable, December 31, 2023	4, 137, 850	\$ 1. 73

The Company maintains Treasury Stock for the Common Stock shares bought back by the Company when they withhold shares to cover taxes on stock compensation transactions. There were no treasury stock transactions during the years ended December 31, 2023 and 2022, and the treasury shares outstanding were 7, 553 as of December 31, 2023 and 2022. Our Certificate of Incorporation authorizes the issuance of up to 5, 000, 000 shares of preferred stock. As of December 31, 2023 and 2022, we had 1, 983, 250 designated shares of preferred stock and 1, 930 shares of preferred stock issued and outstanding. On March 30, 2023, the Company entered into a Securities Purchase Agreement (the “ Purchase Agreement ”) with certain accredited investors (the “ Investors ”), pursuant to which we issued and sold, in a private placement (the “ Private Placement ”) (i) 6, 550 shares of our newly designated Series F Preferred Stock, \$ 0. 0001 par value per share (the “ Series F Preferred Stock ”), (ii) preferred warrants (the “ Preferred Warrants ”) to acquire 32, 750 shares of Series F Preferred Stock, and (iii) common warrants (the “ Common Warrants ” and with the Preferred Warrants the “ Investor Warrants ”) to acquire up to 3, 830, 417 shares of Common Stock. Please refer to Note 9- Capital Stock for further discussion on the Common Warrants. The terms of the Series F Preferred Stock are as set forth in the Certificate of Designations of Series F Preferred Stock of Oblong, Inc. (the “ Certificate of Designations ”), which was filed and became effective with the Secretary of State of the State of Delaware on March 31, 2023. The Private Placement closed on March 31, 2023, in exchange for gross and net proceeds of \$ 6, 386, 000 and \$ 5, 364, 000, respectively. The financing fees associated with the Purchase Agreement were \$ 1, 022, 000.

~~F-19~~ The Series F Preferred Shares are convertible into fully paid and non-assessable shares of the Company’ s Common Stock at the election of the holder at any time at an initial conversion price of \$ 1. 71 (the “ Conversion Price ”). The holders of the Series F Preferred Shares may also elect to convert their shares at an alternative conversion price equal to the lower of (i) 80 % of the applicable Conversion Price as in effect on the date of the conversion, (ii) 80 % of the closing price on the trading day immediately preceding the delivery of the conversion notice, and (iii) the greater of (a) the Floor Price (as defined in the Certificate of Designations) and (b) the quotient of (x) the sum of the five lowest Closing Bid Prices (as defined in the Certificate of Designations) for trading days in the 30 consecutive trading day period ending and including the trading day immediately preceding the delivery of the applicable Conversion Notice, divided by (y) five. The Conversion Price is subject to customary adjustments for stock splits, stock dividends, stock combination recapitalization, or other similar transactions involving the Common Stock, and subject to price-based adjustment, on a full ratchet basis, in the event of any issuances of our common stock, or securities convertible, exercisable or exchangeable for Common Stock, at a price below the then-applicable Conversion Price (subject to certain exceptions). On October 6, 2023, the Company and Investors holding a majority of the outstanding shares of the Preferred Stock agreed to waive any and all provisions, terms, covenants and obligations in the Certificate of Designations or Common Warrants to the extent such provisions permit the conversion or exercise of the Preferred Stock and the Common Warrants, respectively, to occur at a price below \$ 0. 2792. Notwithstanding anything to the contrary in the Certificate of Designations, each of the “ Alternate Conversion Price ” and the “ Floor Price ” as set forth in the Certificate of Designations shall in no event be less than \$ 0. 2792 (as adjusted for stock splits, stock dividends, stock combinations, recapitalizations and similar events). Under the Certificate of Designations, the Series F Preferred Shares have an initial stated value of \$ 1, 000 per share (the “ Stated Value ”). The holders of the Series F Preferred Shares are entitled to dividends of 9 % per annum, which will be payable in arrears quarterly. Accrued dividends may be paid, at our option, in cash and if not paid, shall increase the stated value of the Series F Preferred Shares. Upon the occurrence and during the continuance of a Triggering Event (as defined in the Certificate of Designations), the Series F Preferred Shares will accrue dividends at the rate of 20 % per annum (the “ Default Rate ”). The Series F Preferred Shares have no voting rights, other than with respect to certain matters affecting the rights of the Series F Preferred Shares. On matters with respect to which the holders of the Series F Preferred Shares have a right to vote, holders of the Preferred Shares will have voting rights on an as-converted basis. Our ability to settle conversions is subject to certain limitations set forth in the Certificate of Designations. Further, the Certificate of Designations contains a certain beneficial ownership limitation after giving effect to the issuance of shares of common stock issuable upon conversion of the Series F Preferred Shares. The Certificate of Designations includes certain Triggering Events (as defined in the Certificate of Designations), including, among other things, (i) the failure to file and maintain an effective registration statement covering the sale of the holder’ s securities

registrable pursuant to the Registration Rights Agreement, (ii) the failure to pay any amounts due to the holders of the Series F Preferred Shares when due, and (iii) if Peter Holst ceases to be the chief executive officer of the Company other than because of his death, and a qualified replacement, reasonably acceptable to a majority of the holders of the Series F Preferred Shares, is not appointed within thirty (30) business days. In connection with a Triggering Event, the Default Rate is triggered. We are subject to certain affirmative and negative covenants regarding the incurrence of indebtedness, acquisition transactions, the existence of liens, the repayment of indebtedness, the payment of cash in respect of dividends (other than dividends pursuant to the Certificate of Designations), maintenance of properties and the transfer of assets, among other matters. During the year ended December 31, 2023, 4,620 shares of Series F Preferred Stock, plus accrued dividends, were converted to 14,102,477 shares of the Company's common stock, respectively. There were 1,930 shares of Series F Preferred Stock outstanding and accrued dividends of \$136,000 as of December 31, 2023. Series F Preferred Stock transactions are summarized in the table below:

Series F Preferred Stock Shares	Accrued Dividends	Weighted Average Conversion Price	Common Shares Issued from Conversions
March 31, 2023	Issuance	6,550 \$	—
2023	Accrued Dividends	\$343,000	2023 Conversions (4,620) \$ (207,000) \$ 0.34
December 31, 2023	Balance	1,930 \$136,000	14,102,477

F-20 Series F Preferred Stock Warrants The Preferred Warrants are exercisable for Series F Preferred Shares at an exercise price of \$975. The exercise price is subject to customary adjustments for stock splits, stock dividends, stock combination recapitalizations or other similar transactions involving the Common Stock. The Preferred Warrants expire three years from the date of issuance and are exercisable for cash. For each Preferred Warrant exercised, the Investors shall receive Common Warrants to purchase a number of shares of Common Stock equal to 100% of the number of shares of Common Stock the Investors would receive if the Series F Preferred Shares issuable upon exercise of such Warrant were converted at the applicable Conversion Price. The fair value of the Preferred Warrants was recorded within additional paid-in capital during the year ended December 31, 2023. As of December 31, 2023, no Preferred Warrants have been exercised. In December 2019, the Oblong, Inc. 2019 Equity Incentive Plan (the "2019 Plan") was approved by the Company's stockholders at the Company's 2019 Annual Meeting of Stockholders. The 2019 Plan is an omnibus equity incentive plan pursuant to which the Company may grant equity and cash incentive awards to certain key service providers of the Company and its subsidiaries. As of December 31, 2023, the share pool available for new grants under the 2019 Plan is 3 shares. A summary of stock compensation expense by category, for the years ended December 31, 2023 and 2022, is as follows:

Year Ended December 31,	Stock Based Compensation	2023	2022
	Options	\$124	\$61
	RSUs	380	—
	Total	\$504	\$61

A summary of stock compensation by department, for the years ended December 31, 2023 and 2022 is as follows:

Year Ended December 31,	Stock Based Compensation	2023	2022
	Research and Development	\$—	\$(64)
	General & Administrative	504	125
	Total	\$504	\$61

During the year ended December 31, 2023, no stock options were granted, 3,336 stock options vested, and 6,668 vested stock options expired. During the year ended December 31, 2022, no stock options were granted, 501 vested stock options expired, and 10,000 unvested stock options were forfeited. As of December 31, 2023 there were 10,000 stock options outstanding with a weighted average exercise price of \$48.75 and a weighted average remaining contractual life of 7.5 years. A summary of stock options expired and forfeited under our plans and options outstanding as of, and changes made during, the years ended December 31, 2023 and 2022 is presented below:

F-21	Outstanding	Exercisable	Number of Options	Weighted Average Exercise Price	Number of Options	Weighted Average Exercise Price
	Options outstanding and exercisable, December 31, 2021	127	169	113.63	7	169.294.63
	Vested	—	3,332	97.56		
	Expired (501)	410	18	(501)	410	18
	Forfeited (10,000)	48.75				
	Options outstanding and exercisable, December 31, 2022	16,668	\$29.25	10,000	\$223.11	
	Vested	—	3,336	48.75		
	Expired (6,668)	285.89	(6,668)	285.89		

Options outstanding and exercisable, December 31, 2023 10,000 \$48.75 6,668 \$48.75 The intrinsic value of vested and unvested options were not significant for all periods presented. Stock compensation expense related to stock options for the year ended December 31, 2023 was \$124,000, recorded as a component of General and Administrative expense. Net stock compensation expense, related to stock options, for the year ended December 31, 2022 was \$61,000, made up of \$146,000 in expense offset by \$85,000 related to forfeiture credits. There was \$125,000 stock compensation expense, recorded as a component of General and Administrative expense and a net credit of \$64,000 recorded as a component of Research and Development expense, related to stock options for the year ended December 31, 2022. As of December 31, 2023, there was \$61,000 remaining as unrecognized stock-based compensation expense for options, which will be recognized over a weighted average period of 0.50 years. Restricted Stock Awards On May 28, 2023, in relation to the departure of certain directors, 42 restricted stock awards became fully vested and were delivered in shares of the Company's common stock. The awards were issued in 2014 and vested over the lesser of ten years, a change in control, or separation from the company. As of December 31, 2023, there were no unvested restricted stock awards outstanding and there is no unrecognized stock-based compensation expense for restricted stock awards. There was no stock compensation expense related to restricted stock awards during the years ended December 31, 2023 and 2022. On April 18, 2023, 177,564 restricted stock units ("RSUs") were granted to certain board members. These RSUs vested immediately upon issuance. The closing price per share of the Company's common stock was \$2.14 on the day prior to the grant date, resulting in a total fair value of \$380,000 which was included in general and administrative expense, as stock-based compensation expense, upon issuance. On May 28, 2023, in relation to the departure of certain directors, 1,929 fully vested RSUs were delivered in shares of the Company's common stock, in accordance with the terms of the RSUs. As of December 31, 2023, there were no unvested RSUs outstanding and there was no remaining unrecognized stock-based compensation expense for RSUs. Stock compensation expense related to RSUs for the years ended December 31, 2023 and 2022 was \$380,000 and zero, respectively. Note 12- Net Loss Per Share Basic net loss per share is computed by dividing net loss attributable to common stockholders by the weighted average number of shares of common stock outstanding during the period. The weighted average number of shares of common stock outstanding does not include any potentially dilutive securities or any unvested restricted shares of common stock. Vested F-22- RSUs (for which shares of common stock have not yet been delivered) are included in the calculations of basic net loss per share. Unvested RSUs are not

included in calculations of basic net loss per share, as they are not considered issued and outstanding at time of grant. Diluted net loss per share is computed by giving effect to all potential shares of common stock, including warrants, stock options, RSUs, and unvested restricted stock awards, to the extent they are dilutive. For the year ended December 31, 2023, all such common stock equivalents have been excluded from diluted net loss per share as the effect to net loss per share would be anti-dilutive (due to the net losses). The following table sets forth the computation of the Company's basic and diluted net loss per share (in thousands, except per share data):

Year Ended December 31, 2023	Year Ended December 31, 2022
Net loss	\$ (4,384)
Less: preferred stock dividends	343
Less: conversion inducement	751
Less: warrant modification	25
Net loss attributable to common stockholders	\$ (5,503)
Denominator: Weighted-average number of shares of common stock for basic net loss per share	5,595
Basic net loss per share	\$ (0.98)
Denominator: Weighted-average number of shares of common stock in computing the diluted net loss per share for the periods presented because including them would have had an anti-dilutive effect	5,595
Diluted net loss per share	\$ (1.00)

The following table represents the potential shares that were excluded from the computation of weighted-average number of shares of common stock in computing the diluted net loss per share for the periods presented because including them would have had an anti-dilutive effect:

Year Ended December 31, 2023	Year Ended December 31, 2022
Unvested restricted stock units	42
Outstanding stock options	10,000
Common stock issuable upon conversion of Series F Preferred Stock (1)	7,392,776
Common stock issuable upon conversion of Series F Preferred Warrants (2)	117,299,427
Common stock issuable upon conversion of Common Stock Warrants	4,137,850,343,099
(1) Calculation assumes conversion of the stated value, and accrued dividends, of the Series F Preferred Stock as of December 31, 2023 into Common Stock at the Floor Price.	
(2) Calculation assumes exercise of the Series F Preferred Warrants for cash into Series F Preferred Stock and subsequent conversion of the Series F Preferred Stock into Common Stock at the Floor Price.	

Certain information concerning the Company's segments for the years ended December 31, 2023 and 2022 is presented in the following tables (in thousands):

F-23 Year Ended December 31, 2023		F-23 Year Ended December 31, 2022	
Managed Services	Collaboration	Managed Services	Collaboration
Products	Corporate	Total	Revenue
\$ 2,518	\$ 1,292	\$ 3,810	Cost of revenues
1,671	1,228	2,899	Gross profit
\$ 847	\$ 64	\$ 911	Gross profit %
34 %	5 %	24 %	Allocated operating expenses
\$ 3	\$ 481	\$ 4	\$ 481
\$ 484	\$ 484	\$ 417	Unallocated operating expenses
\$ 4,922	\$ 4,922	\$ 4,922	Total operating expenses
\$ 5,406	\$ 5,406	\$ 5,406	Income (loss) from operations
\$ 844	\$ (417)	\$ (4,922)	\$ (4,495)
\$ (4,495)	\$ (4,495)	\$ (138)	Interest and other income, net
\$ (138)	\$ (138)	\$ (138)	Income (loss) before income taxes
\$ 844	\$ (417)	\$ (4,784)	\$ (4,357)
\$ (4,357)	\$ (4,357)	\$ (4,784)	Income tax expense
\$ 11	\$ 16	\$ 27	Net income (loss)
\$ 833	\$ (433)	\$ (4,784)	\$ (4,384)
\$ (4,384)	\$ (4,384)	\$ (4,384)	As of December 31, 2023
\$ 367	\$ 568	\$ 5,990	Year Ended December 31, 2022
\$ 6,925	\$ 6,925	\$ 6,925	Managed Services
\$ 3,348	\$ 2,128	\$ 5,476	Collaboration
\$ 2,273	\$ 1,657	\$ 3,930	Products
\$ 1,075	\$ 471	\$ 1,546	Corporate
\$ 1,546	\$ 1,546	\$ 1,546	Total
\$ 18,355	\$ 18,355	\$ 18,374	Revenue
\$ 18,374	\$ 18,374	\$ 18,374	Cost of revenues
\$ 5,160	\$ 5,160	\$ 5,160	Gross profit
\$ 23,534	\$ 23,534	\$ 23,534	Gross profit %
\$ 23,534	\$ 23,534	\$ 23,534	Allocated operating expenses
\$ 5,160	\$ 5,160	\$ 5,160	Unallocated operating expenses
\$ 23,534	\$ 23,534	\$ 23,534	Total operating expenses
\$ 5,160	\$ 5,160	\$ 5,160	Income (loss) from operations
\$ 1,056	\$ (17,884)	\$ (5,160)	\$ (21,988)
\$ (5,160)	\$ (5,160)	\$ (21,988)	Interest and other (income) expense, net
\$ (12)	\$ (52)	\$ (40)	Income (loss) before income taxes
\$ 1,044	\$ (17,832)	\$ (5,160)	\$ (21,948)
\$ (5,160)	\$ (5,160)	\$ (21,948)	Income tax benefit
\$ (4)	\$ (3)	\$ (7)	Net income (loss)
\$ 1,048	\$ (17,829)	\$ (5,160)	\$ (21,941)
\$ (21,941)	\$ (21,941)	\$ (21,941)	As of December 31, 2022
\$ 752	\$ 1,824	\$ 3,085	\$ 5,661
\$ 5,661	\$ 5,661	\$ 5,661	Unallocated operating expenses

Unallocated operating expenses include costs for the year ending December 31, 2023 and 2022 that are not specific to a particular segment but are general to the group; included are expenses incurred for administrative and accounting staff, general liability and other insurance, professional fees and other similar corporate expenses. Unallocated assets consist of unrestricted cash.

F-24 For the years ended December 31, 2023 and 2022, no material revenue was attributable to any individual foreign country. Approximately 1% of foreign revenue is billed in foreign currency and foreign currency gains and losses are not material. Revenue by geographic area is allocated as follows (in thousands):

Year Ended December 31, 2023	Year Ended December 31, 2022
Domestic	\$ 1,843
\$ 2,781	Foreign
\$ 1,967	\$ 2,695
\$ 3,810	\$ 5,476

Disaggregated information for the Company's revenue has been recognized in the accompanying consolidated statements of operations and is presented below according to contract type (dollars in thousands):

Year Ended December 31, 2023	% of Revenue	Year Ended December 31, 2022	% of Revenue	
Managed Services	Video collaboration services	\$ 183	4.8 %	
\$ 334	6.1 %	Network services	\$ 2,301	60.4 %
\$ 334	6.1 %	Professional and other services	\$ 340	9.9 %
\$ 334	6.1 %	Total Managed Services revenue	\$ 2,518	66.1 %
\$ 334	6.1 %	Collaboration Products	\$ 1,292	33.9 %
\$ 334	6.1 %	Visual collaboration product offerings	\$ 1,291	33.9 %
\$ 334	6.1 %	Licensing	\$ 1	0.3 %
\$ 334	6.1 %	Total Collaboration Products revenue	\$ 1,292	33.9 %
\$ 334	6.1 %	Total revenue	\$ 3,810	100.0 %
\$ 334	6.1 %	The Company's long-lived assets were	100.0 %	

The Company's long-lived assets were 100% located in domestic markets as of December 31, 2023 and 2022. The Company considers a significant customer to be one that comprises more than 10% of the Company's consolidated revenues or accounts receivable. The loss of or a reduction in sales or anticipated sales to our most significant or several of our smaller customers could have a material adverse effect on our business, financial condition and results of operations. Concentration of revenues was as follows:

Year Ended December 31, 2023	Year Ended December 31, 2022
Segment	% of Revenue
Customer A	Managed Services
55.9 %	46.8 %
F-25	Concentration of accounts receivable was as follows:
As of December 31, 2023	2022
Segment	% of Accounts Receivable
Customer A	Managed Services
38.2 %	42.8 %
Customer B	Collaboration Products
46.8 %	22.0 %

On March 11, 2020, the World Health Organization ("WHO") announced that infections of the novel Coronavirus (COVID-19) had become pandemic, and on March 13, 2020, the U. S. President announced a National Emergency relating to the disease. In May 2023, the WHO declared COVID-19 over as a global health emergency. Customers generally use our Mezzanine™ products in traditional office and operating center environments such as conference rooms or other presentation spaces. Revenue declines for our Collaboration Products business are primarily due to lower demand, largely a consequence of the commercial reactions to the COVID-19 pandemic and its prolonged effects. We believe the pandemic has fundamentally altered the way businesses consider the use of physical office spaces and, consequently, the demand for technologies that enable in-person collaboration within these spaces. Our analysis indicates that the reduced demand for our Mezzanine™ products, particularly in the aftermath of COVID-19, reflects a broader reassessment among our customers regarding the necessity and investment in collaboration solutions tailored for traditional office environments. Continuation of this trend could cause further declines in our revenue for this business. The following table sets forth pretax book loss (in thousands):

Year Ended December 31, 2023	Year Ended December 31, 2022
United States	\$ (4,357)
\$ (21,948)	Foreign
\$ (4,357)	\$ (21,948)
\$ (4,357)	Total
\$ (21,948)	\$ (21,948)

The following table sets forth income before taxes and the

income tax expense for the years ended December 31, 2023 and 2022 (in thousands): Year Ended December 31, 2023 2022 Current: Federal \$ — \$ — Foreign 15 (4) State 12 (3) Total current 27 (7) Total deferred — — Income tax expense (benefit) \$ 27 \$ (7) F- 26 Our effective tax rate differs from the statutory federal tax rate for the years ended December 31, 2023 and 2022 as shown in the following table (in thousands): Year Ended December 31, 2023 2022 U. S. federal income taxes at the statutory rate \$ (915) \$ (4, 609) Goodwill impairment — 1, 547 State taxes, net of federal effects (58) (375) U. S. Federal and state NOL carryforward adjustment for expired NOLs 613 76 Stock compensation plan adjustments 385 16 Change in valuation allowance (112) 3, 273 Other 114 65 Income tax expense (benefit) \$ 27 \$ (7) The tax effect of the temporary differences that give rise to significant portions of the deferred tax assets and liabilities as of December 31, 2023 and 2022 is presented below (in thousands): Year Ended December 31, 2023 2022 Deferred tax assets (liabilities): Tax benefit of operating loss carry forward— Federal \$ 29, 416 \$ 28, 459 Tax benefit of operating loss carry forward— State 5, 965 6, 429 Accrued expenses 131 147 Deferred revenue 36 129 Stock— based compensation 56 420 Fixed assets 4 116 Goodwill — 28 Inventory 156 106 Intangible amortization 32 (80) Section 174 research and experimentation — 409 Section 163 (j) interest expense 314 — R & D credit 2, 154 2, 154 Texas margin tax temporary credits 55 74 Other 61 101 Total deferred tax asset, net of deferred tax liabilities 38, 380 38, 492 Valuation allowance (38, 380) (38, 492) Net deferred tax asset \$ — \$ — The ending balances of the deferred tax asset have been fully reserved, reflecting the uncertainties as to realizability evidenced by the Company's historical results. The change in valuation allowance for the year ended December 31, 2023 is a decrease of \$ 112, 000. The change in valuation allowance for the year ended December 31, 2022 was an increase of \$ 3, 273, 000. We and our subsidiary file federal and state tax returns on a consolidated basis. On October 1, 2019 Oblong, Inc. acquired the stock of Oblong Industries Inc. that resulted in Oblong Industries Inc.'s shareholders owning 75 % of Oblong, Inc. Therefore, an "ownership change" occurred on this date (as defined under Section 382 of the Internal Revenue Code of 1986, as amended), which places an annual limitation on the utilization of the net operating loss ("NOL") carryforwards accumulated before the ownership change. If additional ownership changes occur in the future, the use of the net operating loss carryforwards could be subject to further limitation. As a result of this annual limitation and the limited carryforward life of the accumulated NOLs, we determined that the 2019 ownership change resulted in the permanent loss of approximately \$ 30, 880, 000 of tax NOL carryforwards. At December 31, 2022, we had federal net operating loss carryforwards of \$ 135, 517, 000 available to offset future federal taxable— F- 27— income, after Section 382 limitation considerations. At December 31, 2023, we had federal net operating loss carryforwards of \$ 140, 075, 000 available to offset future federal taxable income, after section 382 limitation considerations. Of this amount, \$ 75, 350, 000 will expire in various amounts from 2024 through 2037. As of December 31, 2023 and 2022, the Company also has various state net operating loss carryforwards of \$ 98, 844, 000 and \$ 97, 531, 000, respectively. The determination of the state net operating loss carryforwards is dependent upon apportionment percentages and state laws that can change, from year to year and impact the amount of such carryforwards. The Company has Research and Development credits of \$ 2, 154, 000 at December 31, 2023 and 2022. The Research and Development credit begins to expire at the end of 2026. The issuance of the securities in the March 31, 2023 private placement significantly diluted the ownership interest of the existing holders of our common stock. The Company is reviewing if a Section 382 ownership change occurred as a result of the private placement stock issuance. If a Section 382 ownership change did occur, this event would further limit the utilization of, and the timing of utilization, of the federal and state net operating loss carryforwards above. There were no significant matters determined to be unrecognized tax benefits taken or expected to be taken in a tax return, in accordance with ASC Topic 740 "Income Taxes" ("ASC 740"), which clarifies the accounting for uncertainty in income taxes recognized in the financial statements, that have been recorded on the Company's Consolidated Financial Statements for the years ended December 31, 2023 and 2022. The Company does not anticipate a material change to unrecognized tax benefits in the next twelve months. Additionally, ASC 740 provides guidance on the recognition of interest and penalties related to unrecognized tax benefits. There were no interest or penalties related to income taxes that have been accrued or recognized as of and for the years ended December 31, 2023 and 2022. The Internal Revenue Service may generally assess additional income tax for the most recent three years. This would generally prevent the Internal Revenue Service from opening an examination for years ended on or before December 31, 2020. However, there are exceptions that can extend the statute of limitations to six years, and in some cases, prevent the statute of limitations from ever expiring. Note 16— 401 (k) Plan We have adopted a retirement plan under Section 401 (k) of the Internal Revenue Code. The 401 (k) plan covers substantially all employees who meet minimum age and service requirements. Company contributions to the 401 (k) plan for the years ended December 31, 2023 and 2022 were \$ 64, 000 and \$ 93, 000, respectively.— F- 28— EXHIBIT 3. 2 AMENDED AND RESTATED BY— LAWS OF OBLONG, INC. (hereinafter called the "Corporation") ARTICLE I. OFFICES Section 1. 1 Registered Office. The registered office of the Corporation shall be in the City of Wilmington, County of New Castle, State of Delaware. Section 1. 2 Other Offices. The Corporation may also have offices at such other places both within and without the State of Delaware as the Board of Directors may from time to time determine. ARTICLE II. MEETINGS OF STOCKHOLDERS Section 2. 1 Place of Meetings. Meetings of the stockholders for the election of directors or for any other purpose shall be held at such time and place, either within or without the State of Delaware as shall be designated from time to time by the Board of Directors. Section 2. 2 Annual Meetings. The Annual Meetings of Stockholders for the election of directors shall be held on such date and at such time as shall be designated from time to time by the Board of Directors. Any other proper business may be transacted at the Annual Meeting of Stockholders. Each stockholder of record entitled to vote at the Annual Meeting of Stockholders shall be given written notice at least ten (10) days in advance of such Annual Meeting of Stockholders. Section 2. 3 Special Meetings. Unless otherwise required by law or by the certificate of incorporation of the Corporation, as amended and restated from time to time (the "Certificate of Incorporation"), Special Meetings of Stockholders, for any purpose or purposes, may be called by either (i) the Chairman of the Board or (ii) a majority of the Board of Directors. Each stockholder of record entitled to vote at any Special Meeting of Stockholders shall be given written notice at least ten (10) days in advance of such Special Meeting of Stockholders. Section 2. 4 Nature of Business

at Meetings of Stockholders. No business may be transacted at an annual meeting of stockholders, other than business that is either (a) specified in the notice of meeting (or any supplement thereto) given by or at the direction of the Board of Directors (or any duly authorized committee thereof), (b) otherwise properly brought before the annual meeting by or at the direction of the Board of Directors (or any duly authorized committee thereof) or (c) otherwise properly brought before the annual meeting by any stockholder of the Company (i) who is a stockholder of record on the date of the giving of the notice provided for in this Section 5 and on the record date for the determination of stockholders entitled to vote at such annual meeting and (ii) who complies with the notice procedures set forth in this Section 2. 4. In addition to any other applicable requirements, for business to be properly brought before an annual meeting by a stockholder, such stockholder must have given timely notice thereof in proper written form to the Secretary of the Company. To be timely, a stockholder's notice to the Secretary must be delivered to or mailed and received at the principal executive offices of the Company not less than sixty (60) days nor more than ninety (90) days prior to the anniversary date of the immediately preceding annual meeting of stockholders; provided, however, that in the event that the annual meeting is called for a date that is not within thirty (30) days before or after such anniversary date, notice by the stockholder in order to be timely must be so received not later than the close of business on the tenth (10th) day following the day on which such notice of the date of the annual meeting was mailed or such public disclosure of the date of the annual meeting was made, whichever first occurs. - 1-1 Conformed copy reflecting the Amendment dated as of October 19, 2023. To be in proper written form, a stockholder's notice to the Secretary must set forth as to each matter such stockholder proposes to bring before the annual meeting (i) a brief description of the business desired to be brought before the annual meeting and the reasons for conducting such business at the annual meeting, (ii) the name and record address of such stockholder, (iii) the class or series and number of shares of capital stock of the Company which are owned beneficially or of record by such stockholder, (iv) a description of all arrangements or understandings between such stockholder and any other person or persons (including their names) in connection with the proposal of such business by such stockholder and any material interest of such stockholder in such business and (v) a representation that such stockholder intends to appear in person or by proxy at the annual meeting to bring such business before the meeting. No business shall be conducted at the annual meeting of stockholders except business brought before the annual meeting in accordance with the procedures set forth in this Section 2. 4; provided, however, that, once business has been properly brought before the annual meeting in accordance with such procedures, nothing in this Section 2. 4 shall be deemed to preclude discussion by any stockholder of any such business. If the Chairman of an annual meeting determines that business was not properly brought before the annual meeting in accordance with the foregoing procedures, the Chairman shall declare to the meeting that the business was not properly brought before the meeting and such business shall not be transacted. Section 2. 5 Nomination of Directors. Only persons who are nominated in accordance with the following procedures shall be eligible for election as directors of the Company, except as may be otherwise provided in the Certificate of Incorporation with respect to the right of holders of preferred stock of the Corporation to nominate and elect a specified number of directors in certain circumstances. Nominations of persons for election to the Board of Directors may be made at any annual meeting of stockholders, or at any special meeting of stockholders called for the purpose of electing directors, (a) by or at the direction of the Board of Directors (or any duly authorized committee thereof) or (b) by any stockholder of the Company (i) who is a stockholder of record on the date of the giving of the notice provided for in this Section 2. 5 and on the record date for the determination of stockholders entitled to vote at such meeting and (ii) who complies with the notice procedures set forth in this Section 2. 5. In addition to any other requirements, for a nomination to be made by a stockholder, such stockholder must have given timely notice thereof in proper written form to the Secretary of the Company. To be timely, a stockholder's notice to the Secretary must be delivered to or mailed and received at the principal executive offices of the Company (a) in the case of an annual meeting, not less than sixty (60) days nor more than ninety (90) days prior to the anniversary date of the immediately preceding annual meeting of stockholders; provided, however, that in the event that the annual meeting is called for a date that is not within thirty (30) days before or after such anniversary date, notice by the stockholder in order to be timely must be so received not later than the close of business on the tenth (10th) day following the day on which such notice of the date of the annual meeting was mailed or such public disclosure of the date of the annual meeting was made, whichever first occurs; and (b) in the case of a special meeting of stockholders called for the purpose of electing directors, not later than the close of business on the tenth (10th) day following the day on which notice of the date of the special meeting was mailed or public disclosure of the date of the special meeting was made, whichever first occurs. To be in proper written form, a stockholder's notice to the Secretary must set forth (a) as to each person whom the stockholder proposes to nominate for election as a director (i) the name, age, business address and residence address of the person, (ii) the principal occupation or employment of the person, (iii) the class or series and number of shares of capital stock of the Company which are owned beneficially or of record by the person and (iv) any other information relating to the person that would be required to be disclosed in a proxy statement or other filings required to be made in connection with solicitations of proxies for election of directors pursuant to Section 14 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and the rules and regulations promulgated thereunder; and (b) as to the stockholder giving the notice (i) the name and record address of such stockholder, (ii) the class or series and number of shares of capital stock of the Company which are owned beneficially or of record by such stockholder, (iii) a description of all arrangements or understandings between such stockholder and each proposed nominee and any other person or persons (including their names) pursuant to which the nomination (s) are to be made by such stockholder, (iv) a representation that such stockholder intends to appear in person or by proxy at the meeting to nominate the persons named in its notice and (v) any other information relating to such stockholder that would be required to be disclosed in a proxy statement or other filings required to be made in connection with solicitations of proxies for election of directors pursuant to Section 14 of the Exchange Act and the rules and regulations promulgated thereunder. Such notice must be accompanied by a written consent of each proposed nominee to being named as a nominee and to serve as a director if elected. - 2- No person shall be eligible for election as a director of the Company unless nominated in accordance with the procedures set forth in this Section 2. 5. If the Chairman

of the meeting determines that a nomination was not made in accordance with the foregoing procedures, the Chairman shall declare to the meeting that the nomination was defective and such defective nomination shall be disregarded.

**Section 2. 6 Adjournments.** Any meeting of the stockholders may be adjourned from time to time to reconvene at the same or some other place, and notice need not be given of any such adjourned meeting if the time and place thereof are announced at the meeting at which the adjournment is taken. At the adjourned meeting, the Corporation may transact any business which might have been transacted at the original meeting. If the adjournment is for more than thirty days, or if after the adjournment a new record date is fixed for the adjourned meeting, notice of the adjourned meeting shall be given to each stockholder of record entitled to vote at the meeting.

**Section 2. 7 Quorum.** Unless otherwise required by law, the Certificate of Incorporation or the rules of any applicable stock exchange on which the Corporation's securities are listed, the holders of one-third (1/3) of the capital stock issued and outstanding and entitled to vote thereat, present in person or represented by proxy, shall constitute a quorum at all meetings of the stockholders for the transaction of business. Where a separate vote by a class or series or classes or series is required, one-third (1/3) of the voting power of the outstanding shares of such class or series or classes or series, present in person or represented by proxy, shall constitute a quorum entitled to take action with respect to that vote on that matter, except as otherwise required by law, the Certificate of Incorporation or the rules of any applicable stock exchange on which the Corporation's securities are listed. A quorum, once established, shall not be broken by the withdrawal of enough votes to leave less than a quorum. If, however, such quorum shall not be present or represented at any meeting of the stockholders, the stockholders entitled to vote thereat, present in person or represented by proxy, shall have power to adjourn the meeting from time to time, in the manner provided in Section 2. 5, until a quorum shall be present or represented.

**Section 2. 8 Voting.** Unless otherwise required by law, the Certificate of Incorporation or these Bylaws, any question brought before any meeting of stockholders, other than the election of directors, shall be decided by the vote of the holders of a majority of the total number of votes of the capital stock represented and entitled to vote thereat, voting as a single class. Unless otherwise provided in the Certificate of Incorporation, each stockholder represented at a meeting of stockholders shall be entitled to cast one vote for each share of the capital stock entitled to vote thereat held by such stockholder. Such votes may be cast in person or by proxy but no proxy shall be voted on or after three years from its date, unless such proxy provides for a longer period. The Board of Directors, in its discretion, or the officer of the Corporation presiding at a meeting of stockholders, in such officer's discretion, may require that any votes cast at such meeting shall be cast by written ballot.

**Section 2. 9 List of Stockholders Entitled to Vote.** The officer of the Corporation who has charge of the stock ledger of the Corporation shall prepare and make, at least ten days before every meeting of stockholders, a complete list of the stockholders entitled to vote at the meeting, arranged in alphabetical order, and showing the address of each stockholder and the number of shares registered in the name of each stockholder. Such list shall be open to the examination of any stockholder, for any purpose germane to the meeting, during ordinary business hours, for a period of at least ten days prior to the meeting either at a place within the city where the meeting is to be held, which place shall be specified in the notice of the meeting, or, if not so specified, at the place where the meeting is to be held. The list shall also be produced and kept at the time and place of the meeting during the whole time thereof, and may be inspected by any stockholder of the Corporation who is present.

**Section 2. 10 Stock Ledger.** The stock ledger of the Corporation shall be the only evidence as to who are the stockholders entitled to examine the stock ledger, the list required by Section 2. 9 of this Article II or the books of the Corporation, or to vote in person or by proxy at any meeting of stockholders.

**Section 2. 11 Conduct of Meetings.** The Board of Directors of the Corporation may adopt by resolution such rules and regulations for the conduct of the meeting of the stockholders as it shall deem appropriate. Except to the extent inconsistent with such rules and regulations as adopted by the Board of Directors, the chairman of any meeting of the stockholders shall have the right and authority to prescribe such rules, regulations and procedures and to do all such acts as, in the judgment of such chairman, are appropriate for the proper conduct of the meeting. Such rules, regulations or procedures, whether adopted by the Board of Directors or prescribed by the chairman of the meeting, may include, without limitation, the following: (i) the establishment of an agenda or order of business for the meeting; (ii) the determination of when the polls shall open and close for any given matter to be voted on at the meeting; (iii) rules and procedures for maintaining order at the meeting and the safety of those present; (iv) limitations on attendance at or participation in the meeting to stockholders of record of the corporation, their duly authorized and constituted proxies or such other persons as the chairman of the meeting shall determine; (v) restrictions on entry to the meeting after the time fixed for the commencement thereof; and (vi) limitations on the time allotted to questions or comments by participants.

**ARTICLE III. DIRECTORS**

**Section 3. 1 Number and Election of Directors.** The Board of Directors shall consist of not less than one nor more than fifteen members, the exact number of which shall be fixed from time to time by the Board of Directors. Except as provided in Section 3. 2 of this Article III, directors shall be elected by a plurality of the votes cast at the Annual Meetings of Stockholders and each director so elected shall hold office until the next Annual Meeting of Stockholders and until such director's successor is duly elected and qualified, or until such director's earlier death, resignation or removal. Any director or the entire Board of Directors may be removed from office at any time, and only by the affirmative vote of the holders of majority of the voting power of the issued and outstanding capital stock of the Corporation entitled to vote in the election of directors. Any director may resign at any time upon written notice to the Corporation. Directors need not be stockholders.

**Section 3. 2 Vacancies.** Unless otherwise required by law or the Certificate of Incorporation, vacancies arising through death, resignation, removal, an increase in the number of directors or otherwise may be filled only by a majority of the directors then in office, though less than a quorum, or by a sole remaining director, and the directors so chosen shall hold office until the next annual election and until their successors are duly elected and qualified, or until their earlier death, resignation or removal.

**Section 3. 3 Duties and Powers.** The business and affairs of the Corporation shall be managed by or under the direction of the Board of Directors which may exercise all such powers of the Corporation and do all such lawful acts and things as are not by statute or by the Certificate of Incorporation or by these By-Laws required to be exercised or done by the stockholders.

**Section 3. 4 Meetings.** The Board of Directors may hold meetings, both regular and special, either within or without the State of

Delaware. Regular meetings of the Board of Directors may be held without notice at such time and at such place as may from time to time be determined by the Board of Directors. Special meetings of the Board of Directors may be called by the Chairman, if there be one, the President. Notice thereof stating the place, date and hour of the meeting shall be given to each director either by mail not less than forty-eight (48) hours before the date of the meeting, by telephone or telegram on twenty-four (24) hours' notice, or on such shorter notice as the person or persons calling such meeting may deem necessary or appropriate in the circumstances.

Section 3.5 Quorum. Except as otherwise required by law or the Certificate of Incorporation, at all meetings of the Board of Directors, a majority of the entire Board of Directors shall constitute a quorum for the transaction of business and the act of a majority of the directors present at any meeting at which there is a quorum shall be the act of the Board of Directors. If a quorum shall not be present at any meeting of the Board of Directors, the directors present thereat may adjourn the meeting from time to time, without notice other than announcement at the meeting of the time and place of the adjourned meeting, until a quorum shall be present.

Section 3.6 Actions by Written Consent. Unless otherwise provided in the Certificate of Incorporation, or these By-Laws, any action required or permitted to be taken at any meeting of the Board of Directors or of any committee thereof may be taken without a meeting, if all the members of the Board of Directors or committee, as the case may be, consent thereto in writing, and the writing or writings are filed with the minutes of proceedings of the Board of Directors or committee.

Section 3.7 Meetings by Means of Conference Telephone. Unless otherwise provided in the Certificate of Incorporation, members of the Board of Directors of the Corporation, or any committee thereof, may participate in a meeting of the Board of Directors or such committee by means of a conference telephone or similar communications equipment by means of which all persons participating in the meeting can hear each other, and participation in a meeting pursuant to this Section 3.7 shall constitute presence in person at such meeting.

Section 3.8 Committees. The Board of Directors may designate one or more committees, each committee to consist of one or more of the directors of the Corporation. The Board of Directors may designate one or more directors as alternate members of any committee, who may replace any absent or disqualified member at any meeting of any such committee. In the absence or disqualification of a member of a committee, and in the absence of a designation by the Board of Directors of an alternate member to replace the absent or disqualified member, the member or members thereof present at any meeting and not disqualified from voting, whether or not such member or members constitute a quorum, may unanimously appoint another member of the Board of Directors to act at the meeting in the place of any absent or disqualified member. Any committee, to the extent permitted by law and provided in the resolution establishing such committee, shall have and may exercise all the powers and authority of the Board of Directors in the management of the business and affairs of the Corporation, and may authorize the seal of the Corporation to be affixed to all papers which may require it. Each committee shall keep regular minutes and report to the Board of Directors when required.

Section 3.9 Compensation. The directors may be paid their expenses, if any, of attendance at each meeting of the Board of Directors and may be paid a fixed sum for attendance at each meeting of the Board of Directors or a stated salary as director, payable in cash or securities. No such payment shall preclude any director from serving the Corporation in any other capacity and receiving compensation therefor. Members of special or standing committees may be allowed like compensation for attending committee meetings.

4- ARTICLE IV. OFFICERS

Section 4.1 General. (a) The officers of the Corporation shall be chosen by the Board of Directors and shall be a President, a Secretary and a Treasurer. The Board of Directors, in its discretion, also may choose a Chairman of the Board of Directors (who must be a director) and one or more Executive Vice Presidents, Assistant Secretaries, Assistant Treasurers and other officers. Any number of offices may be held by the same person, unless otherwise prohibited by law or the Certificate of Incorporation. The officers of the Corporation need not be stockholders of the Corporation nor, except in the case of the Chairman of the Board of Directors, need such officers be directors of the Corporation. (b) The President may, in his discretion, choose one or more vice presidents, who shall not be officers of the Corporation and shall not perform any policy-making function on behalf of the Corporation. The vice presidents shall have such duties and responsibilities as may be assigned to them by the President.

Section 4.2 Election. The Board of Directors, at its first meeting held after each Annual Meeting of Stockholders (or action by written consent of stockholders in lieu of the Annual Meeting of Stockholders), shall elect the officers of the Corporation who shall hold their offices for such terms and shall exercise such powers and perform such duties as shall be determined from time to time by the Board of Directors; and all officers of the Corporation shall hold office until their successors are chosen and qualified, or until their earlier death, resignation or removal. Any officer elected by the Board of Directors may be removed at any time by the affirmative vote of the Board of Directors. Any vacancy occurring in any office of the Corporation shall be filled by the Board of Directors. The salaries of all officers of the Corporation shall be fixed by the Board of Directors.

Section 4.3 Voting Securities Owned by the Corporation. Powers of attorney, proxies, waivers of notice of meeting, consents and other instruments relating to securities owned by the Corporation may be executed in the name of and on behalf of the Corporation by the President or any Executive Vice President or any other officer authorized to do so by the Board of Directors and any such officer may, in the name of and on behalf of the Corporation, take all such action as any such officer may deem advisable to vote in person or by proxy at any meeting of security holders of any corporation in which the Corporation may own securities and at any such meeting shall possess and may exercise any and all rights and power incident to the ownership of such securities and which, as the owner thereof, the Corporation might have exercised and possessed if present. The Board of Directors may, by resolution, from time to time confer like powers upon any other person or persons.

Section 4.4 Chairman of the Board of Directors. The Chairman of the Board of Directors, if there be one, shall preside at all meetings of the stockholders and of the Board of Directors. The Chairman of the Board of Directors shall be the Chief Executive Officer of the Corporation, unless the Board of Directors designates the President as the Chief Executive Officer, and, except where by law the signature of the President is required, the Chairman of the Board of Directors shall possess the same power as the President to sign all contracts, certificates and other instruments of the Corporation which may be authorized by the Board of Directors. During the absence or disability of the President, the Chairman of the Board of Directors shall exercise all the powers and discharge all the duties of the President. The Chairman of

the Board of Directors shall also perform such other duties and may exercise such other powers as may from time to time be assigned by these By-Laws or by the Board of Directors. Section 4. 5 President. The President shall, subject to the control of the Board of Directors and, if there be one, the Chairman of the Board of Directors, have general supervision of the business of the Corporation and shall see that all orders and resolutions of the Board of Directors are carried into effect. The President shall execute all bonds, mortgages, contracts and other instruments of the Corporation requiring a seal, under the seal of the Corporation, except where required or permitted by law to be otherwise signed and executed and except that the other officers of the Corporation may sign and execute documents when so authorized by these By-Laws, the Board of Directors or the President. In the absence or disability of the Chairman of the Board of Directors, or if there be none, the President shall preside at all meetings of the stockholders and the Board of Directors. If there be no Chairman of the Board of Directors, or if the Board of Directors shall otherwise designate, the President shall be the Chief Executive Officer of the Corporation. The President shall also perform such other duties and may exercise such other powers as may from time to time be assigned to such officer by these By-Laws or by the Board of Directors. Section 4. 6 Executive Vice Presidents. At the request of the President or in the President's absence or in the event of the President's inability or refusal to act (and if there be no Chairman of the Board of Directors), the Executive Vice President, or the Executive Vice Presidents if there is more than one (in the order designated by the Board of Directors), shall perform the duties of the President, and when so acting, shall have all the powers of and be subject to all the restrictions upon the President. Each Executive Vice President shall perform such other duties and have such other powers as the Board of Directors from time to time may prescribe. If there be no Chairman of the Board of Directors and no Executive Vice President, the Board of Directors shall designate the officer of the Corporation who, in the absence of the President or in the event of the inability or refusal of the President to act, shall perform the duties of the President, and when so acting, shall have all the powers of and be subject to all the restrictions upon the President. Section 4. 7 Secretary. The Secretary shall attend all meetings of the Board of Directors and all meetings of stockholders and record all the proceedings thereat in a book or books to be kept for that purpose; the Secretary shall also perform like duties for committees of the Board of Directors when required. The Secretary shall give, or cause to be given, notice of all meetings of the stockholders and special meetings of the Board of Directors, and shall perform such other duties as may be prescribed by the Board of Directors, the Chairman of the Board of Directors or the President, under whose supervision the Secretary shall be. If the Secretary shall be unable or shall refuse to cause to be given notice of all meetings of the stockholders and special meetings of the Board of Directors, and if there be no Assistant Secretary, then either the Board of Directors or the President may choose another officer to cause such notice to be given. The Secretary shall have custody of the seal of the Corporation and the Secretary or any Assistant Secretary, if there be one, shall have authority to affix the same to any instrument requiring it and when so affixed, it may be attested by the signature of the Secretary or by the signature of any such Assistant Secretary. The Board of Directors may give general authority to any other officer to affix the seal of the Corporation and to attest to the affixing by such officer's signature. The Secretary shall see that all books, reports, statements, certificates and other documents and records required by law to be kept or filed are properly kept or filed, as the case may be. Section 4. 8 Treasurer. The Treasurer shall have the custody of the corporate funds and securities and shall keep full and accurate accounts of receipts and disbursements in books belonging to the Corporation and shall deposit all moneys and other valuable effects in the name and to the credit of the Corporation in such depositories as may be designated by the Board of Directors. The Treasurer shall disburse the funds of the Corporation as may be ordered by the Board of Directors, taking proper vouchers for such disbursements, and shall render to the President and the Board of Directors, at its regular meetings, or when the Board of Directors so requires, an account of all transactions as Treasurer and of the financial condition of the Corporation. If required by the Board of Directors, the Treasurer shall give the Corporation a bond in such sum and with such surety or sureties as shall be satisfactory to the Board of Directors for the faithful performance of the duties of the office of the Treasurer and for the restoration to the Corporation, in case of the Treasurer's death, resignation, retirement or removal from office, of all books, papers, vouchers, money and other property of whatever kind in the Treasurer's possession or under the Treasurer's control belonging to the Corporation. Section 4. 9 Assistant Secretaries. Assistant Secretaries, if there be any, shall perform such duties and have such powers as from time to time may be assigned to them by the Board of Directors, the President, any Executive Vice President, if there be one, or the Secretary, and in the absence of the Secretary or in the event of the Secretary's disability or refusal to act, shall perform the duties of the Secretary, and when so acting, shall have all the powers of and be subject to all the restrictions upon the Secretary. Section 4. 10 Assistant Treasurers. Assistant Treasurers, if there be any, shall perform such duties and have such powers as from time to time may be assigned to them by the Board of Directors, the President, any Executive Vice President, if there be one, or the Treasurer, and in the absence of the Treasurer or in the event of the Treasurer's disability or refusal to act, shall perform the duties of the Treasurer, and when so acting, shall have all the powers of and be subject to all the restrictions upon the Treasurer. If required by the Board of Directors, an Assistant Treasurer shall give the Corporation a bond in such sum and with such surety or sureties as shall be satisfactory to the Board of Directors for the faithful performance of the duties of the office of Assistant Treasurer and for the restoration to the Corporation, in case of the Assistant Treasurer's death, resignation, retirement or removal from office, of all books, papers, vouchers, money and other property of whatever kind in the Assistant Treasurer's possession or under the Assistant Treasurer's control belonging to the Corporation. Section 4. 11 Other Officers. Such other officers as the Board of Directors may choose shall perform such duties and have such powers as from time to time may be assigned to them by the Board of Directors. The Board of Directors may delegate to any other officer of the Corporation the power to choose such other officers and to prescribe their respective duties and powers. Section 5. 1 Form of Certificates. The shares of stock of the Corporation shall be represented by certificates; provided that the Board of Directors may provide by resolution or resolutions that some or all of any class or series shall be uncertificated shares that may be evidenced by a book-entry system maintained by the registrar of such stock. The certificates representing shares of stock of each class shall be signed in the name of the Corporation (i) by the Chairman of the Board of Directors, the President or an Executive Vice President and

(ii) by the Treasurer or an Assistant Treasurer, or the Secretary or an Assistant Secretary of the Corporation, and certify the number of shares owned by such stockholder in the Corporation. Section 5. 2 Signatures. Any or all of the signatures on a certificate may be a facsimile. In case any officer, transfer agent or registrar who has signed or whose facsimile signature has been placed upon a certificate shall have ceased to be such officer, transfer agent or registrar before such certificate is issued, it may be issued by the Corporation with the same effect as if such person were such officer, transfer agent or registrar at the date of issue. Section 5. 3 Lost Certificates. The Board of Directors may direct a new certificate to be issued in place of any certificate theretofore issued by the Corporation alleged to have been lost, stolen or destroyed, upon the making of an affidavit of that fact by the person claiming the certificate of stock to be lost, stolen or destroyed. When authorizing such issue of a new certificate, the Board of Directors may, in its discretion and as a condition precedent to the issuance thereof, require the owner of such lost, stolen or destroyed certificate, or the owner's legal representative, to advertise the same in such manner as the Board of Directors shall require and / or to give the Corporation a bond in such sum as it may direct as indemnity against any claim that may be made against the Corporation with respect to the certificate alleged to have been lost, stolen or destroyed or the issuance of such new certificate. Section 5. 4 Transfers. Stock of the Corporation shall be transferable in the manner prescribed by law and in these By-Laws. Transfers of stock shall be made on the books of the Corporation, and (i) in the case of certificated shares of stock, only by the person named in the certificate or by such person's attorney lawfully constituted in writing and upon the surrender of the certificate therefor, properly endorsed for transfer, which shall be cancelled before a new certificate shall be issued, and payment of all necessary transfer taxes or (ii) in the case of uncertificated shares of stock, upon receipt of proper transfer instructions from the registered holder of the shares or by such person's attorney lawfully constituted in writing, and upon payment of all necessary transfer taxes and compliance with appropriate procedures for transferring shares in uncertificated form; provided, however, that such surrender and endorsement, compliance or payment of taxes shall not be required in any case in which the officers of the Corporation shall determine to waive such requirement. No transfer of stock shall be valid as against the Corporation for any purpose until it shall have been entered in the stock records of the Corporation by an entry showing from and to whom transferred. Section 5. 5 Record Date. (a) In order that the Corporation may determine the stockholders entitled to notice of or to vote at any meeting of stockholders or any adjournment thereof, the board of directors may fix a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted by the Board of Directors, and which record date shall not be more than sixty nor less than ten days before the date of such meeting. If no record date is fixed by the Board of Directors, the record date for determining stockholders entitled to notice of or to vote at a meeting of stockholders shall be at the close of business on the day next preceding the day on which notice is given, or, if notice is waived, at the close of business on the day next preceding the day on which the meeting is held. A determination of stockholders of record entitled to notice of or to vote at a meeting of stockholders shall apply to any adjournment of the meeting; providing, however, that the Board of Directors may fix a new record date for the adjourned meeting. (b) In order that the Corporation may determine the stockholders entitled to consent to corporate action in writing without a meeting, the Board of Directors may fix a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted by the Board of Directors, and which record date shall not be more than ten days after the date upon which the resolution fixing the record date is adopted by the Board of Directors. If no record date has been fixed by the Board of Directors, the record date for determining stockholders entitled to consent to corporate action in writing without a meeting, when no prior action by the Board of Directors is required by law, shall be the first date on which a signed written consent setting forth the action taken or proposed to be taken is delivered to the Corporation by delivery to its registered office in this State, its principal place of business, or an officer or agent of the Corporation having custody of the book in which proceedings of meetings of stockholders are recorded. Delivery made to a corporation's registered office shall be by hand or by certified or registered mail, return receipt requested. If no record date has been fixed by the Board of Directors and prior action by the Board of Directors is required by law, the record date for determining stockholders entitled to consent to corporate action in writing without a meeting shall be at the close of business on the day on which the Board of Directors adopts the resolutions taking such prior action. -7- (c) In order that the Corporation may determine the stockholders entitled to receive payment of any dividend or other distribution or allotment of any rights or the stockholders entitled to exercise any rights in respect of any change, conversion or exchange of stock, or for the purpose of any other lawful action, the Board of Directors may fix a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted, and which record date shall be not more than sixty days prior to such action. If no record date is fixed, the record date for determining stockholders for any such purpose shall be at the close of business on the day on which the Board of Directors adopts the resolution relating thereto. Section 5. 6 Record Owners. The Corporation shall be entitled to recognize the exclusive right of a person registered on its books as the owner of shares to receive dividends, and to vote as such owner, and to hold liable for calls and assessments a person registered on its books as the owner of shares, and shall not be bound to recognize any equitable or other claim to or interest in such share or shares on the part of any other person, whether or not it shall have express or other notice thereof, except as otherwise required by law. ARTICLE VI. NOTICES Section 6. 1 Notices. Whenever written notice is required by law, the Certificate of Incorporation or these By-Laws, to be given to any director, member of a committee or stockholder, such notice may be given by mail, addressed to such director, member of a committee or stockholder, at such person's address as it appears on the records of the Corporation, with postage thereon prepaid, and such notice shall be deemed to be given at the time when the same shall be deposited in the United States mail. Written notice may also be given personally or by telegram, telex or cable. Section 6. 2 Waivers of Notice. Whenever any notice is required by law, the Certificate of Incorporation or these By-Laws, to be given to any director, member of a committee or stockholder, a waiver thereof in writing, signed, by the person or persons entitled to said notice, whether before or after the time stated therein, shall be deemed equivalent thereto. Attendance of a person at a meeting, present in person or represented by proxy, shall constitute a waiver of notice of such meeting, except where the person attends the meeting for the express purpose of objecting at the beginning of the meeting to the transaction of

any business because the meeting is not lawfully called or convened. ARTICLE VII. GENERAL PROVISIONS Section 7. 1 Dividends. Dividends upon the capital stock of the Corporation, subject to the requirements of the DGCL and the provisions of the Certificate of Incorporation, if any, may be declared by the Board of Directors at any regular or special meeting of the Board of Directors (or any action by written consent in lieu thereof in accordance with Section 3. 6 of Article III hereof), and may be paid in cash, in property, or in shares of the Corporation's capital stock. Before payment of any dividend, there may be set aside out of any funds of the Corporation available for dividends such sum or sums as the Board of Directors from time to time, in its absolute discretion, deems proper as a reserve or reserves to meet contingencies, or for equalizing dividends, or for repairing or maintaining any property of the Corporation, or for any proper purpose, and the Board of Directors may modify or abolish any such reserve. Section 7. 2 Disbursements. All checks or demands for money and notes of the Corporation shall be signed by such officer or officers or such other person or persons as the Board of Directors may from time to time designate. Section 7. 3 Fiscal Year. The fiscal year of the Corporation shall be fixed by resolution of the Board of Directors. Section 7. 4 Corporate Seal. The corporate seal shall have inscribed thereon the name of the Corporation, the year of its organization and the words "Corporate Seal, Delaware." The seal may be used by causing it or a facsimile thereof to be impressed or affixed or reproduced or otherwise. -8- ARTICLE VIII. INDEMNIFICATION Section 8. 1 Power to Indemnify in Actions, Suits or Proceedings other than Those by or in the Right of the Corporation. Subject to Section 8. 3 of this Article VIII, the Corporation shall indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of the Corporation) by reason of the fact that such person is or was a director or officer of the Corporation, or is or was a director or officer of the Corporation serving at the request of the Corporation as a director or officer, employee or agent of another corporation, partnership, joint venture, trust, employee benefit plan or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with such action, suit or proceeding if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the Corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe such person's conduct was unlawful. The termination of any action, suit or proceeding by judgment, order, settlement, conviction, or upon a plea of nolo contendere or its equivalent, shall not, of itself, create a presumption that the person did not act in good faith and in a manner which such person reasonably believed to be in or not opposed to the best interests of the Corporation, and, with respect to any criminal action or proceeding, had reasonable cause to believe that such person's conduct was unlawful. Section 8. 2 Power to Indemnify in Actions, Suits or Proceedings by or in the Right of the Corporation. Subject to Section 8. 3 of this Article VIII, the Corporation shall indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the Corporation to procure a judgment in its favor by reason of the fact that such person is or was a director or officer of the Corporation, or is or was a director or officer of the Corporation serving at the request of the Corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust, employee benefit plan or other enterprise against expenses (including attorneys' fees) actually and reasonably incurred by such person in connection with the defense or settlement of such action or suit if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the Corporation; except that no indemnification shall be made in respect of any claim, issue or matter as to which such person shall have been adjudged to be liable to the Corporation unless and only to the extent that the Court of Chancery or the court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper. Section 8. 3 Authorization of Indemnification. Any indemnification under this Article VIII (unless ordered by a court) shall be made by the Corporation only as authorized in the specific case upon a determination that indemnification of the director or officer is proper in the circumstances because such person has met the applicable standard of conduct set forth in Section 8. 1 or Section 8. 2 of this Article VIII, as the case may be. Such determination shall be made, with respect to a person who is a director or officer at the time of such determination, (i) by a majority vote of the directors who are not parties to such action, suit or proceeding, even though less than a quorum, or (ii) by a committee of such directors designated by a majority vote of such directors, even though less than a quorum, or (iii) if there are no such directors, or if such directors so direct, by independent legal counsel in a written opinion or (iv) by the stockholders. Such determination shall be made, with respect to former directors and officers, by any person or persons having the authority to act on the matter on behalf of the Corporation. To the extent, however, that a present or former director or officer of the Corporation has been successful on the merits or otherwise in defense of any action, suit or proceeding described above, or in defense of any claim, issue or matter therein, such person shall be indemnified against expenses (including attorneys' fees) actually and reasonably incurred by such person in connection therewith, without the necessity of authorization in the specific case. Section 8. 4 Good Faith Defined. For purposes of any determination under Section 8. 3 of this Article VIII, a person shall be deemed to have acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the Corporation, or, with respect to any criminal action or proceeding, to have had no reasonable cause to believe such person's conduct was unlawful, if such person's action is based on the records or books of account of the Corporation or another enterprise, or on information supplied to such person by the officers of the Corporation or another enterprise in the course of their duties, or on the advice of legal counsel for the Corporation or another enterprise or on information or records given or reports made to the Corporation or another enterprise by an independent certified public accountant or by an appraiser or other expert selected with reasonable care by the Corporation or another enterprise. The term "another enterprise" as used in this Section 8. 4 shall mean any other corporation or any partnership, joint venture, trust, employee benefit plan or other enterprise of which such person is or was serving at the request of the Corporation as a director, officer, employee or agent. The provisions of this Section 8. 4 shall not be deemed to be exclusive or to limit in any way the circumstances in which a person

may be deemed to have met the applicable standard of conduct set forth in Section 8.1 or 8.2 of this Article VIII, as the case may be.

~~9- Section 8.5 Indemnification by a Court. Notwithstanding any contrary determination in the specific case under Section 8.3 of this Article VIII, and notwithstanding the absence of any determination thereunder, any director or officer may apply to the Court of Chancery in the State of Delaware for indemnification to the extent otherwise permissible under Sections 8.1 and 8.2 of this Article VIII. The basis of such indemnification by a court shall be a determination by such court that indemnification of the director or officer is proper in the circumstances because such person has met the applicable standards of conduct set forth in Section 8.1 or 8.2 of this Article VIII, as the case may be. Neither a contrary determination in the specific case under Section 8.3 of this Article VIII nor the absence of any determination thereunder shall be a defense to such application or create a presumption that the director or officer seeking indemnification has not met any applicable standard of conduct. Notice of any application for indemnification pursuant to this Section 8.5 shall be given to the Corporation promptly upon the filing of such application. If successful, in whole or in part, the director or officer seeking indemnification shall also be entitled to be paid the expense of prosecuting such application. Section 8.6 Expenses Payable in Advance. Expenses incurred by a director or officer in defending any civil, criminal, administrative or investigative action, suit or proceeding shall be paid by the Corporation in advance of the final disposition of such action, suit or proceeding upon receipt of an undertaking by or on behalf of such director or officer to repay such amount if it shall ultimately be determined that such person is not entitled to be indemnified by the Corporation as authorized in this Article VIII. Section 8.7 Nonexclusivity of Indemnification and Advancement of Expenses. The indemnification and advancement of expenses provided by or granted pursuant to this Article VIII shall not be deemed exclusive of any other rights to which those seeking indemnification or advancement of expenses may be entitled under the Certificate of Incorporation, any By-Law, agreement, vote of stockholders or disinterested directors or otherwise, both as to action in such person's official capacity and as to action in another capacity while holding such office, it being the policy of the Corporation that indemnification of the persons specified in Sections 8.1 and 8.2 of this Article VIII shall be made to the fullest extent permitted by law. The provisions of this Article VIII shall not be deemed to preclude the indemnification of any person who is not specified in Sections 8.1 or 8.2 of this Article VIII but whom the Corporation has the power or obligation to indemnify under the provisions of the General Corporation Law of the State of Delaware, or otherwise. Section 8.8 Insurance. The Corporation may purchase and maintain insurance on behalf of any person who is or was a director or officer of the Corporation, or is or was a director or officer of the Corporation serving at the request of the Corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust, employee benefit plan or other enterprise against any liability asserted against such person and incurred by such person in any such capacity, or arising out of such person's status as such, whether or not the Corporation would have the power or the obligation to indemnify such person against such liability under the provisions of this Article VIII. Section 8.9 Certain Definitions. For purposes of this Article VIII, references to "the Corporation" shall include, in addition to the resulting corporation, any constituent corporation (including any constituent of a constituent) absorbed in a consolidation or merger which, if its separate existence had continued, would have had power and authority to indemnify its directors or officers, so that any person who is or was a director or officer of such constituent corporation, or is or was a director or officer of such constituent corporation serving at the request of such constituent corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust, employee benefit plan or other enterprise, shall stand in the same position under the provisions of this Article VIII with respect to the resulting or surviving corporation as such person would have with respect to such constituent corporation if its separate existence had continued. For purposes of this Article VIII, references to "fines" shall include any excise taxes assessed on a person with respect to an employee benefit plan; and references to "serving at the request of the Corporation" shall include as a director, officer, employee or agent of the Corporation which imposes duties on, or involves services by, such director or officer with respect to an employee benefit plan, its participants or beneficiaries; and a person who acted in good faith and in a manner such person reasonably believed to be in the interest of the participants and beneficiaries of an employee benefit plan shall be deemed to have acted in a manner "not opposed to the best interests of the Corporation" as referred to in this Article VIII. Section 8.10 Survival of Indemnification and Advancement of Expenses. The indemnification and advancement of expenses provided by, or granted pursuant to, this Article VIII shall, unless otherwise provided when authorized or ratified, continue as to a person who has ceased to be a director or officer and shall inure to the benefit of the heirs, executors and administrators of such a person.~~

~~10- Section 8.11 Limitation on Indemnification. Notwithstanding anything contained in this Article VIII to the contrary, except for proceedings to enforce rights to indemnification (which shall be governed by Section 8.5 hereof), the Corporation shall not be obligated to indemnify any director or officer in connection with a proceeding (or part thereof) initiated by such person unless such proceeding (or part thereof) was authorized or consented to by the Board of Directors of the Corporation. Section 8.12 Indemnification of Employees and Agents. The Corporation may, to the extent authorized from time to time by the Board of Directors, provide rights to indemnification and to the advancement of expenses to employees and agents of the Corporation similar to those conferred in this Article VIII to directors and officers of the Corporation.~~

**ARTICLE IX. AMENDMENTS**

~~Section 9.1 Amendments. In furtherance and not in limitation of the powers conferred upon it by the laws of the State of Delaware, the Board of Directors shall have the power to adopt, amend, alter or repeal the Corporation's By-Laws. The affirmative vote of at least a majority of the entire Board of Directors shall be required to adopt, amend, alter or repeal the Corporation's By-Laws. The Corporation's By-Laws also may be adopted, amended, altered or repealed by the affirmative vote of the holders of at least a majority of the voting power of the shares entitled to vote at an election of directors. Section 9.2 Entire Board of Directors. As used in this Article IX and in these By-Laws generally, the term "entire Board of Directors" means the total number of directors which the Corporation would have if there were no vacancies. Exhibit 4.19 DESCRIPTION OF THE REGISTRANT'S SECURITIES REGISTERED PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934, AS AMENDED~~

The following summary description of the capital stock of Oblong, Inc. (the "Company," "we," "us," and "our") is based on the applicable provisions of the General Corporation Law of the State of

Delaware (the “DGCL”) and on the provisions of our certificate of incorporation, as amended, and our amended and restated bylaws, and is qualified entirely by reference to the applicable provisions of the DGCL, and our certificate of incorporation and our bylaws, copies of which have been filed with the Securities and Exchange Commission (the “SEC”). As of December 31, 2023, we had two classes of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), common stock, par value \$ 0.0001 per share, and Series F Preferred Stock, par value \$ 0.0001 per share. On January 3, 2023, the Company effected a 1-for-15 reverse stock split of its common stock. All common stock share information (including treasury share information) in the following capital stock discussion is shown as adjusted for this stock split. The holders of our common stock are entitled to one vote per share on all matters to be voted upon by the stockholders. There are no cumulative voting rights, so the holders of a majority of the outstanding shares have the ability to elect all of the directors. Subject to preferences that may be applicable to any outstanding preferred stock, the holders of common stock are entitled to receive ratably any dividends that may be declared from time to time by our board of directors out of funds legally available for that purpose. In the event of our liquidation, dissolution or winding up, the holders of common stock are entitled to share ratably in all assets remaining after payment of liabilities, subject to prior distribution rights of preferred stock then outstanding. The common stock has no preemptive or conversion rights or other subscription rights. There are no redemption or sinking fund provisions applicable to the common stock. All outstanding shares of common stock are fully paid and non-assessable, and shares of common stock to be issued upon any exercise of Warrants will be fully paid and nonassessable. As of December 31, 2023, of the 150,000,000 shares of common stock currently authorized, there are approximately 16,692,124 shares issued and 16,684,571 outstanding and an aggregate of approximately 128,840,056 additional shares reserved for issuance in connection with (i) awards outstanding to acquire approximately 10,000 shares of common stock, which include awards issued under the Oblong, Inc. 2019 Equity Incentive Plan (the “2019 Equity Incentive Plan”), (ii) 3 shares of stock remaining available for issue in the 2019 Equity Incentive Plan, (iii) 750 shares of common stock issuable upon exercise of warrants issued in a private placement in June 2021 (“Series B Warrants”), (iv) 250 shares of common stock issuable upon exercise of the warrants issued in a registered offering in June 2021 (“Series A Warrants”), (v) 3,830,417 shares issuable upon exercise of warrants issued in a private placement on March 31, 2023 (“Investor Common Warrants”), (vi) 306,433 shares issuable upon exercise of warrants issued in a private placement on March 31, 2023 (“Placement Agent Warrants”), (vii) 7,392,776 shares issuable upon conversion of shares of our Series F Convertible Preferred Stock (“Series F Preferred Stock”) issued in a private placement on March 31, 2023, and (viii) 117,299,427 shares issuable upon conversion of shares of Series F Preferred Stock underlying warrants to purchase Series F Preferred Stock issued in a private placement on March 31, 2023 (“Investor Preferred Warrants”). Our board of directors has the authority, without action by our stockholders, to designate and issue up to 5,000,000 shares of preferred stock in one or more series, and to fix for each series voting rights, if any, designations, preferences and relative, participating, optional or other special rights and such qualifications, limitations or restrictions as provided in a resolution or resolutions adopted by our board of directors. As of December 31, 2023, 1,930 shares of Series F Preferred Stock are outstanding. Prior to the issuance of shares of each series, our board of directors is required by the DGCL and our certificate of incorporation, as amended, to adopt resolutions and file a certificate of designation with the Secretary of State of the State of Delaware. The certificate of designation fixes for each class or series the designations, powers, preferences, rights, qualifications, limitations and restrictions, which may include, among other terms, one or more of the following: • the number of shares constituting each class or series; • voting rights; • preemptive rights; • rights and terms of redemption, including sinking fund provisions; • dividend rights and rates; • dissolution; • terms concerning the distribution of assets; • conversion or exchange terms; • redemption prices; and • liquidation preferences. The terms of the Series F Preferred Stock are as set forth in the Certificate of Designations of Series F Preferred Stock of Oblong, Inc. (the “Certificate of Designations”), which was filed and became effective with the Secretary of State of the State of Delaware on March 31, 2023. Shares of Series F Preferred Stock are convertible into fully paid and non-assessable shares of the common stock at the election of the holder at any time at an initial conversion price of \$ 1.71 (the “Conversion Price”). The holders of shares of the Series F Preferred Stock may also elect to convert their shares of Series F Preferred Stock at an alternative conversion price equal to the lower of (i) 80% of the applicable Conversion Price as in effect on the date of the conversion, (ii) 80% of the closing price on the trading day immediately preceding the delivery of the conversion notice, and (iii) the greater of (a) the Floor Price (as defined in the Certificate of Designations) and (b) the quotient of (x) the sum of the five lowest Closing Bid Prices (as defined in the Certificate of Designations) for trading days in the 30 consecutive trading day period ending and including the trading day immediately preceding the delivery of the applicable Conversion Notice, divided by (y) five. Pursuant to an agreement of the required shareholders of shares of Series F Preferred Stock (the “Preferred Investor Agreement”), notwithstanding anything to the contrary in the Certificate of Designations, each of the alternate conversion price and the Floor Price shall in no event be less than \$ 0.2792 (as adjusted for stock splits, stock dividends, stock combination recapitalization, and similar events). The Conversion Price is subject to customary adjustments for stock splits, stock dividends, stock combination recapitalization, or other similar transactions involving the common stock, and subject to price-based adjustment, on a full ratchet basis, in the event of any issuances of our common stock, or securities convertible, exercisable or exchangeable for common stock, at a price below the then-applicable Conversion Price (subject to certain exceptions). Under the Certificate of Designations, shares of Series F Preferred Stock have an initial stated value of \$ 1,000 per share (the “Stated Value”). The holders of the Series F Preferred Stock are entitled to dividends of 9% per annum, which will be payable in arrears quarterly. Accrued dividends may be paid, at our option, in cash and if not paid, shall increase the stated value of the Series F Preferred Stock. Upon the occurrence and during the continuance of a Triggering Event (as defined in the Certificate of Designations), the Series F Preferred Stock will accrue dividends at the rate of 20% per annum (the “Default Rate”). The Series F Preferred Stock have no voting rights, other than with respect to certain matters affecting the rights of the Series F Preferred Stock. On matters with respect to which the holders of the Series F Preferred Stock have a right to vote, holders will have voting rights on an as-

converted basis. The Certificate of Designations includes certain Triggering Events (as defined in the Certificate of Designations), including, among other things, (i) the failure to file and maintain an effective registration statement covering the sale of the holder's securities registrable pursuant to the Registration Rights Agreement, (ii) the failure to pay any amounts due to holders of the Series F Preferred Stock when due, and (iii) if Peter Holst ceases to be the chief executive officer of the Company other than because of his death, and a qualified replacement, reasonably acceptable to a majority of the holders of the Series F Preferred Stock, is not appointed within thirty (30) business days. In connection with a Triggering event, the Default Rate is triggered. We are subject to certain affirmative and negative covenants regarding the incurrence of indebtedness, acquisition transactions, the existence of liens, the repayment of indebtedness, the payment of cash in respect of dividends (other than dividends pursuant to the Certificate of Designations), maintenance of properties and the transfer of assets, among other matters. We may issue warrants for the purchase of common stock or preferred stock in one or more series. We may issue warrants independently or together with common stock and/or preferred stock, and the warrants may be attached to or separate from these securities. While the terms summarized below will apply generally to any warrants that we may offer, we will describe the particular terms of any series of warrants in more detail in the applicable warrant agreement and warrant certificate. The terms of any warrants offered may differ from the terms described below. The following summary of material provisions of the warrants and the warrant agreements is subject to, and qualified in its entirety by reference to, all the provisions of the warrant agreement and warrant certificate applicable to the particular series of warrants. We urge you to read the complete warrant agreements that contain the terms of the warrants. We will describe in the applicable document the terms of the series of warrants being offered, including: • the offering price of securities that include such warrants and aggregate number of warrants offered; • if applicable, the designation and terms of the securities with which the warrants are issued and the number of warrants issued with each such security; • the number of shares of common stock or preferred stock, as the case may be, purchasable upon the exercise of one warrant and the price at which these shares may be purchased upon such exercise; • the effect of any merger, consolidation, sale or other disposition of our business on the warrant agreements and the warrants; • the terms of any rights to redeem or call the warrants; • any provisions for changes to or adjustments in the exercise price or number of securities issuable upon exercise of the warrants; • the dates on which the right to exercise the warrants will commence and expire; • the manner in which the warrant agreements may be modified; • a discussion of any material or special United States federal income tax consequences of holding or exercising the warrants; • the terms of the securities issuable upon exercise of the warrants; and • any other specific terms, preferences, rights or limitations of or restrictions on the warrants. Before exercising their warrants, holders of warrants will not have any of the rights of holders of the securities purchasable upon such exercise, including the right to receive dividends, if any, or payments upon our liquidation, dissolution or winding up or to exercise voting rights, if any.

**Exercise of Warrants** Each warrant will entitle the holder to purchase the securities at the price that we specify. Holders of the warrants may exercise the warrants at any time up to the specified time on the expiration date. After the close of business on the expiration date, unexercised warrants will become void. Holders of the warrants may exercise the warrants by delivering the warrant agreement or certificate representing the warrants to be exercised together with specified information, and paying the required amount to us. Upon receipt of the required payment and the warrant agreement or certificate properly completed and duly executed at our or any other office indicated, we will issue and deliver the securities purchasable upon such exercise. If fewer than all of the warrants represented by the warrant agreement are exercised, then we will issue a new warrant agreement for the remaining amount of warrants.

**Enforceability of Rights by Holders of Warrants** Each warrant agent will act solely as our agent under the applicable warrant agreement and will not assume any obligation or relationship of agency or trust with any holder of any warrant. A single bank, trust, or transfer company may act as warrant agent for more than one issue of warrants. A warrant agent will have no duty or responsibility in case of any default by us under the applicable warrant agreement or warrant, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a warrant may, without the consent of the related warrant agent or the holder of any other warrant, enforce by appropriate legal action its right to exercise, and receive the securities purchasable upon exercise of, its warrants. We currently have 4, 137, 850 shares of common stock underlying common stock purchase warrants outstanding, which include (i) 750 shares of common stock issuable upon exercise of the Series B Warrants, (ii) 250 shares of common stock issuable upon exercise of the Series A Warrants, (iii) 3, 830, 417 shares of common stock issuable upon exercise of the Investor Common Warrants, and (iv) 306, 433 shares of common stock issuable upon exercise of the Placement Agent Warrants. The Series B Warrants are exercisable for a 3-year term beginning December 31, 2021 at an initial exercise price of \$ 66.00 per share. The Series B Warrants are subject to adjustment in the event of (i) stock splits and dividends, (ii) subsequent rights offerings, (iii) pro-rata distributions, and (iv) certain fundamental transactions, including but not limited to the sale of the Company, business combinations, and reorganizations. The Series B Warrants do not have any price protection or price reset provisions with respect to future issuances of securities. The Series A Warrants had an original term of 6 months and are initially exercisable at \$ 60.00 per share. The Series A Warrants are subject to adjustment in the event of (i) stock splits and dividends, (ii) subsequent rights offerings, (iii) pro-rata distributions, and (iv) certain fundamental transactions, including but not limited to the sale of the Company, business combinations, and reorganizations. The Series A Warrants do not have any price protection or price reset provisions with respect to future issuances of securities. On January 3, 2023, the Company agreed with all the holders of Series A Warrants to amend the terms of the Series A Warrants to extend the termination date from January 4, 2023 (as previously amended) to January 4, 2024. All other terms of the Series A Warrants will remain in full force and effect. The Investor Common Warrants and the Placement Agent Warrants (together the "Common Warrants") have a term of 5 years, commencing six months and one day from the date of issuance and are initially exercisable for \$ 1.71 per share. The Common Warrants are subject to adjustment in the event of (i) stock splits and dividends, (ii) subsequent rights offerings, (iii) pro-rata distributions, and (iv) certain fundamental transactions, including but not limited to the sale of the Company, business combinations, and reorganizations. Subject to certain exceptions, the Common Warrants are subject to price-based adjustment,

on a full ratchet basis, in the event of any issuances of Common Stock, or securities convertible, exercisable, or exchangeable for Common Stock, at a price below the then-applicable exercise price for the Common Warrants. Pursuant to the Preferred Investor Agreement, notwithstanding anything to the contrary in the Common Warrants, the ("Exercise Price" as set forth in the Common Warrants shall in no event be less than \$ 0.2792 (as adjusted for stock splits, stock dividends, stock combinations, recapitalizations, and similar events). We currently have 32,750 Investor Preferred Warrants outstanding. The shares of Series F Preferred Stock underlying the Investor Preferred Warrants are convertible into approximately 117,299,427 shares of common stock. The Investor Preferred Warrants have a term of 3 years and are exercisable for Series F Preferred Shares at an exercise price of \$ 975. The Investor Preferred Warrants are subject to adjustment in the event of (i) stock splits and The above descriptions of the Series A Warrants, Series B Warrants, Investor Common Warrants, Placement Agent Warrants, and Investor Preferred Warrants are only a summary and does not purport to be complete and is qualified in its entirety by reference to the full text of the Forms of Warrants governing the warrants, copies of which are filed with the SEC. Currently, there are no units outstanding. We may issue, in one more series, units consisting of common stock, preferred stock and / or warrants for the purchase of common stock and / or preferred stock in any combination. While the terms we have summarized below will apply generally to any units that we may offer, we will describe the particular terms of any series of units in more detail in the applicable documents. The terms of any units offered may differ from the terms described below. We will file the form of unit agreement that describes the terms of the series of units we are offering, and any supplemental agreements, before the issuance of the related series of units. The following summary of material terms and provisions of the units is subject to, and qualified in its entirety by reference to, all the provisions of the unit agreement and any supplemental agreements applicable to a particular series of units. We urge you to read the applicable documents related to the particular series of units that we may offer, including the complete unit agreement and any supplemental agreements that contain the terms of the units. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any time before a specified date. We may issue units in such amounts and in such numerous distinct series as we determine. We will describe in the applicable documents the terms of the series of units being offered, including: • the designation and terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately; • any provisions of the governing unit agreement that differ from those described below; and • any provisions for the issuance, payment, settlement, transfer or exchange of the units or of the securities comprising the units. The provisions described in this section, as well as those described under "Description of Our Capital Stock" and "Description of Warrants" will apply to each unit to the extent comprised of any such security included in each unit, as well as the underlying, relevant securities, respectively. Enforceability of Rights by Holders of Units Each unit agent will act solely as our agent under the applicable unit agreement and will not assume any obligation or relationship of agency or trust with any holder of any unit. A single bank, trust, or transfer company may act as unit agent for more than one series of units. A unit agent will have no duty or responsibility in case of any default by us under the applicable unit agreement or unit, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a unit may, without the consent of the related unit agent or the holder of any other unit, enforce by appropriate legal action its rights as holder under any security included in the unit. Anti-Takeover Effect Provisions of our certificate of incorporation and bylaws could make the acquisition of our Company through a tender offer, a proxy contest or other means more difficult and could make the removal of incumbent officers and directors more difficult. We expect these provisions to discourage coercive takeover practices and inadequate takeover bids and to encourage persons seeking to acquire control of our Company to first negotiate with our board of directors. We believe that the benefits provided by our ability to negotiate with the proponent of an unfriendly or unsolicited proposal outweigh the disadvantages of discouraging these proposals. We believe the negotiation of an unfriendly or unsolicited proposal could result in an improvement of its terms. Our certificate of incorporation authorizes the issuance of up to 5,000,000 shares of preferred stock, par value \$ 0.0001 per share. Our board of directors has the authority, without the further approval of the stockholders, to issue and determine the rights and preference of any series of preferred stock. Our board of directors could issue one or more series of preferred stock with voting, conversion, dividend, liquidation or other rights that would adversely affect the voting power and ownership interest of holders of common stock. This authority may have the effect of deterring hostile takeovers, delaying or preventing change in control, and discouraging bids for our common stock at a premium over market price. Our bylaws establish an advance notice procedure for stockholder proposals to be brought before an annual meeting of our stockholders, including proposed nominations of persons for election to our board of directors. At an annual meeting, stockholders may only consider proposals or nominations specified in the notice of meeting or brought before the meeting by or at the direction of our board of directors. Stockholders may also consider a proposal or nomination by a person who was a stockholder of record on the record date for the meeting, who is entitled to vote at the meeting and who has given to our Secretary timely written notice, in proper form, of his or her intention to bring that business before the meeting. The bylaws do not give our board of directors the power to approve or disapprove stockholder nominations of candidates or proposals regarding other business to be conducted at a special or annual meeting of the stockholders. However, our bylaws may have the effect of precluding the conduct of business at a meeting if the proper procedures are not followed. These provisions may also discourage or deter a potential acquirer from conducting a solicitation of proxies to elect the acquirer's own slate of directors or otherwise attempting to obtain control of our Company. Under Delaware law, a special meeting of stockholders may be called by the board of directors or by any other person authorized to do so in the certificate of incorporation or the bylaws. Our bylaws authorize the Chairman of our board of directors or a majority of our board of directors to call a special meeting of stockholders. Further, our certificate of incorporation and bylaws do not permit our stockholders to act by written consent. As a result, any action to be effected by our stockholders must be effected at a duly called annual or special meeting of the stockholders. Because our

stockholders do not have the right to call a special meeting, stockholders could not force stockholder consideration of a proposal over the opposition of our board of directors by calling a special meeting of stockholders prior to such time as a majority of our board of directors believed or the Chairman of our board of directors believed the matter should be considered or until the next annual meeting provided that the requestor met the notice requirements. The restriction on the ability of stockholders to call a special meeting means that a proposal to replace the board also could be delayed until the next annual meeting. Anti-takeover Effects of Delaware Law Provisions Section 203 of the DGCL contains provisions that may make the acquisition of control of us by means of a tender offer, open market purchase, proxy fight or otherwise, more difficult. In general, Section 203 prohibits a publicly held Delaware corporation from engaging in a "business combination" with an "interested stockholder" for a period of three years after the date of the transaction in which the person became an interested stockholder, unless the business combination is approved in a prescribed manner. Section 203 defines a "business combination" as a merger, asset sale or other transaction resulting in a financial benefit to the interested stockholder. Section 203 defines an "interested stockholder" as a person who, together with affiliates and associates, owns, or, in some cases, within three years prior, did own, 15 percent or more of the corporation's voting stock. Under Section 203, a business combination between us and an interested stockholder is prohibited unless: • our board of directors approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder prior to the date the person attained the status; • upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of our voting stock outstanding at the time the transaction commenced, excluding, for purposes of determining the number of shares outstanding, shares owned by persons who are directors and also officers and issued employee stock plans, under which employee participants do not have the right to determine confidentiality whether shares held under the plan will be tendered in a tender or exchange offer; or • the business combination is approved by our board of directors on or subsequent to the date the person became an interested stockholder and authorized at an annual or special meeting of the stockholders by the affirmative vote of the holders of at least 66 2/3% of the outstanding voting stock that is not owned by the interested stockholder.

EXHIBIT 21. 1 SUBSIDIARIES OF OBLONG, INC. The following is a list of subsidiaries of Oblong, Inc.

Company Jurisdiction of Organization GP Communications, LLC Delaware Oblong Industries, Inc. Delaware Oblong Europe Limited England and Wales

EXHIBIT 23. 1 CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM We consent to the incorporation by reference in the Registration Statements of Oblong, Inc. on Form S-3 (Nos. 333-261480,

333-252145, 333-251543, 333-192129, 333-272094, and 333-276322) and Form S-8 (Nos. 333-239802, 333-226719, 333-196474, and 333-150436) of our report dated March 19, 2024, on our audits of the consolidated financial statements as of

December 31, 2023 and 2022 and for each of the years then ended, which report is included in this Annual Report on Form 10-K to be filed on or about March 19, 2024. Exhibit 31. 1 CERTIFICATION OF CHIEF EXECUTIVE OFFICER I, Peter Holst,

certify that: 1. I have reviewed this annual report on Form 10-K of Oblong, Inc.; 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer (s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15 (e) and 15d-15 (e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15 (f) and 15d-15 (f)) for the registrant and have: (a) Designed such

disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and (d) Disclosed in this report any

change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and 5. The registrant's other certifying officer (s)

and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions): (a) All

significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting. Date: March 19, 2024 /s/ Peter Holst (Principal Executive Officer) Exhibit

31. 2 CERTIFICATION OF CHIEF FINANCIAL OFFICER I, David Clark, certify that: /s/ David Clark (Principal Financial Officer) Exhibit 32. 1 CERTIFICATION PURSUANT TO 18 U. S. C. SECTION 1350 AS ADOPTED PURSUANT TO

SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 The undersigned officers of Oblong, Inc., a Delaware corporation (the "Company"), do hereby certify, in accordance with 18 U. S. C. Section 1350, as adopted pursuant to Section

906 of the Sarbanes-Oxley Act of 2002, that: 1) The accompanying Annual Report on Form 10-K of the Company for the year ended December 31, 2023 (the "Report") fully complies with the requirements of Section 13 (a) or 15 (d) of the Securities

Exchange Act of 1934, as amended; and 2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. EXHIBIT 97. 1 COMPENSATION CLAWBACK

POLICYOBLONG, INC. Effective October 2, 2023 The Board of Directors (the “ Board ”) of Oblong, Inc. (the “ Company ”) believes that it is in the best interests of the Company and its shareholders to adopt this Clawback Policy (the “ Policy ”), which provides for the recovery of certain incentive compensation in the event of a Restatement (as defined below). This Policy is designed to comply with, and shall be interpreted to be consistent with, Section 10D of the Securities Exchange Act of 1934, as amended (the “ Exchange Act ”), Rule 10D-1 promulgated under the Exchange Act (“ Rule 10D-1 ”) and Nasdaq Listing Rule 5608 (the “ Listing Standards ”). I. Certain Definitions For purposes of this Policy, the following terms shall have the following meanings: “ Administrator ” means, initially, the Compensation Committee, and, thereafter, the Board or any committee thereof charged with administration of this Policy. “ Applicable Period ” means the three completed fiscal years of the Company immediately preceding the earlier of (i) the date the Board, a committee of the Board, or the officer or officers of the Company authorized to take such action if Board action is not required, concludes (or reasonably should have concluded) that a Restatement is required or (ii) the date a regulator, court or other legally authorized entity directs the Company to undertake a Restatement. The “ Applicable Period ” also includes any transition period (that results from a change in the Company ’ s fiscal year) within or immediately following the three completed fiscal years identified in the preceding sentence (except that a transition period that comprises a period of at least nine months shall count as a completed fiscal year). “ Compensation Committee ” means the compensation committee of the Board comprised of independent directors responsible for executive compensation decisions. “ Covered Person ” means any person who is, or was at any time, during the Applicable Period, an Executive Officer of the Company. For the avoidance of doubt, the term Covered Person may include a former Executive Officer that left the Company, retired, or transitioned to a non-executive employee role (including after serving as an Executive Officer in an interim capacity) during the Applicable Period. “ Erroneously Awarded Compensation ” means the amount of any Incentive-Based Compensation (calculated on a pre-tax basis) Received by a Covered Person during the Applicable Period that is in excess of the amount that otherwise would have been Received if the calculation were based on the as-restated financial statements resulting from a Restatement, computed without regard to any taxes paid. Erroneously Awarded Compensation does not include any Incentive-Based Compensation Received by a person (i) before such person began service in a position or capacity meeting the definition of a “ Covered Person,” (ii) if such person did not meet the definition of a “ Covered Person ” at any time during the Applicable Period, or (iii) during any period the Company did not have a class of its securities listed on a national securities exchange or a national securities association. For the avoidance of doubt, Erroneously Awarded Compensation may include Incentive-Based Compensation Received by a person while serving as an employee if such person previously served as an Executive Officer and then transitioned to an employee role. If the subject Incentive-Based Compensation (calculated on a pre-tax basis) was based on stock price or total shareholder return, where the Erroneously Awarded Compensation is not subject to mathematical recalculation directly from the information in a Restatement, the amount of Erroneously Awarded Compensation must be based on a reasonable estimate of the effect of the Restatement on the stock price or total shareholder return upon which the Incentive-Based Compensation was Received, as determined by the Administrator. Documentation relating to the determination of such reasonable estimate shall be maintained by the Administrator and provided to the Nasdaq. “ Executive Officer ” means the Company ’ s president, principal financial officer, principal accounting officer (or if there is no such accounting officer, the controller), any vice-president in charge of a principal business unit, division, or function (such as sales, administration, or finance), any other officer who performs a policy-making function, or any other person (including an officer of the Company ’ s subsidiaries) who performs similar policy-making functions with respect to the Company. “ Financial Reporting Measure ” means a measure that is determined and presented in accordance with the accounting principles used in preparing the Company ’ s financial statements, and any measure that is derived wholly or in part from such measure (including non-GAAP financial measures), as well as the Company ’ s stock price and total shareholder return. Examples of Financial Reporting Measures include measures based on: revenues, net income, operating income, gross profit, financial ratios, earnings before interest, taxes, depreciation and amortization (“ EBITDA ”) and variations thereof, liquidity measures, return measures (such as return on assets), earnings measures, profitability of one or more segments, and cost per employee. For the avoidance of doubt, a Financial Reporting Measure need not be presented within the Company ’ s financial statements or included in a filing with the U. S. Securities Exchange Commission. “ Impracticable ” The Compensation Committee may determine in good faith that recovery of Erroneously Awarded Compensation is “ Impracticable ” if: (i) the direct expense paid to a third party to assist in enforcing this Policy would exceed the amount of Erroneously Awarded Compensation to be recovered and the Company has (A) made a reasonable attempt to recover such amounts and (B) provided documentation of such attempts to recover to the Nasdaq, or (ii) recovery would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of the Company, to fail to meet the requirements of the Internal Revenue Code of 1986, as amended. “ Incentive-Based Compensation ” means any compensation that is granted, earned, or vested based wholly or in part upon the attainment of a Financial Reporting Measure. Amounts paid to an Executive Officer that are granted, earned or vested based solely upon the occurrence of nonfinancial events are not subject to the Policy. Examples include items such as base salary, time-vesting awards or bonus compensation that is awarded solely at the discretion of the Board, in each case as long as their grant was not based on the attainment of a Financial Reporting Measure. “ Nasdaq ” means The Nasdaq Stock Market. “ Received ” Incentive-Based Compensation is deemed “ Received ” in the Company ’ s fiscal period during which the Financial Reporting Measure specified in the Incentive-Based Compensation award is attained, even if the payment or grant of the Incentive-Based Compensation occurs after the end of that period. For the avoidance of doubt, Incentive-Based Compensation shall only be treated as Received during one (and only one) fiscal year, even if such Financial Reporting Measure is attained and the Incentive-Based Compensation is deemed received in one fiscal year and such Incentive-Based Compensation is actually received in a later fiscal year. For example, if an amount is deemed received in 2024, but actually received in 2025, such amount shall be treated as Received under this definition only in 2024. “ Restatement ” means an accounting restatement of the Company ’ s financial statements due to the Company ’ s material

noncompliance with any financial reporting requirement under the securities laws, including any required accounting restatement to correct an error in previously issued financial statements that is material to the previously issued financial statements (commonly referred to as “Big R” restatements), or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period (commonly referred to as “little r” restatements). II. Recovery of Erroneously Awarded Compensation If the Company is required to undertake a Restatement, then the Company shall recover, reasonably promptly, all Erroneously Awarded Compensation Received by any Covered Person during the Applicable Period (including those Covered Persons who are not Executive Officers at the time of the Restatement), unless the Compensation Committee or, in the absence of such a committee, a majority of the independent directors serving on the Board, determines it Impracticable to do so, after conducting a review of all the relevant facts and circumstances. For the avoidance of doubt, recovery of Erroneously Awarded Compensation pursuant to this Policy shall occur regardless of whether such Covered Person engaged in misconduct or was otherwise directly or indirectly responsible, in whole or in part, for the Restatement. Furthermore, the Company’s obligation to recover Erroneously Award Compensation is not dependent on if or when the restated financial statements are filed with the U. S. Securities and Exchange Commission. The Administrator, subject to applicable law, shall determine, in its sole discretion, the timing and method for reasonably prompt recovery of any Erroneously Awarded Compensation hereunder, which may include without limitation (i) requiring any Covered Person to repay such amount to the Company; (ii) adjusting future cash or equity-based compensation payments or awards; (iii) offsetting against such Covered Person’s other compensation, or by such other means or combination of means as the Administrator, in its sole discretion, determines to be appropriate; and (iv) any other method authorized by applicable law or contract. III. Administration of Policy The Administrator shall have full authority to administer this Policy. Actions of the Administrator with respect to this Policy shall be taken pursuant to the charter of the Compensation Committee or the Company’s bylaws in place, as applicable. The Administrator shall, subject to the provisions of this Policy, make such determinations and interpretations and take such actions in connection with this Policy as it deems necessary, appropriate or advisable for the administration of this Policy. All determinations and interpretations made by the Administrator in the administration of this Policy shall be final, binding and conclusive. In the administration of this Policy, the Administrator is authorized and directed to consult with the full Board or such other committees of the Board, as may be necessary or appropriate as to matters within the scope of such other committee’s responsibility and authority. Subject to any limitation at applicable law, the Administrator may authorize and empower any officer or employee of the Company to take any and all actions necessary or appropriate to carry out the purpose and intent of this Policy (other than with respect to any recovery under this Policy involving such officer or employee). The Administrator shall have the authority to seek the advice of legal counsel or any other advisor, in the sole discretion of the Administrator. The Administrator shall be directly responsible for the appointment, compensation and oversight of the work of legal counsel, or any other advisor retained by the Administrator. The Company shall provide for appropriate funding, as determined by the Administrator, for payment of reasonable compensation to legal counsel or any other advisor retained by the Administrator. The Administrator shall have sole authority to approve related fees and retention terms. IV. No Indemnification or Reimbursement of Covered Persons Notwithstanding the terms of any other policy, program, agreement or arrangement, in no event will the Company or any of its affiliates indemnify or reimburse a Covered Person for the loss of Erroneously Awarded Compensation or any other loss under this Policy, and in no event shall the Company or any of its affiliates pay premiums on any insurance policy that would cover a Covered Person’s potential obligations with respect to Erroneously Awarded Compensation under this Policy. V. Administrator Indemnification Any members of the Administrator, and any other members of the Board who assist in the administration of this Policy, shall not be personally liable for any action, determination or interpretation made with respect to this Policy and shall be fully indemnified by the Company to the fullest extent under applicable law, the Company’s bylaws, and Company policy with respect to any such action, determination or interpretation. The foregoing sentence shall not limit any other rights to indemnification of the members of the Board under applicable law, the Company’s bylaws, or Company policy. VI. Acknowledgement by Covered Persons The Company shall provide notice and seek written acknowledgement of this Policy from each Executive Officer, provided that the failure to provide such notice or obtain such acknowledgement shall have no impact on the applicability or enforceability of this Policy. VII. Other Recovery Rights The remedies under this Policy are in addition to, and not in lieu of, any legal and equitable claims the Company or any of its affiliates may have or any actions that may be imposed by law enforcement agencies, regulators, administrative bodies or other authorities. Further, the exercise by the Administrator of any rights pursuant to this Policy shall be without prejudice to any other rights that the Company may have with respect to any Covered Person. VIII. Amendment; Termination The Board may amend, modify, supplement, rescind or replace all or any portion of this Policy at any time and from time to time in its discretion, and shall amend this Policy as it deems necessary to comply with applicable law or any rules or standards adopted by the Nasdaq or any other national securities exchange on which the Company’s securities are listed. IX. Interpretation; Enforcement This Policy will be interpreted and enforced, and appropriate disclosures and other filings with respect to this Policy will be made, in accordance with Rule 10D-1, the Listing Standards, and all other federal securities laws. X. Effectiveness This Policy shall be effective as of October 2, 2023 (the “Effective Date”). The terms of this Policy shall apply to any Incentive-Based Compensation that is Received by Covered Persons on or after the Effective Date, even if such Incentive-Based Compensation was approved, awarded, granted or paid to Covered Persons prior to the Effective Date. XI. Successors This Policy shall be binding and enforceable against all Covered Persons and their beneficiaries, heirs, executors, administrators or other legal representatives. XII. Exhibit Filing Requirement A copy of this Policy and any amendments thereto shall be posted on the Company’s website and filed as an exhibit to the Company’s Annual Report on Form 10-K. v3.24.1 Cover Page USD (\$) 12 Months Ended Dec. 31, 2023 Mar. 08, 2024 Jun. 30, 2023 Cover [ Abstract ] Document Type 10-K Document Annual Report true Document Period End Date Dec. 31, 2023 Current Fiscal Year End Date -- 12-31 Document Transition Report false Entity File Number 001-35376 Entity Registrant Name OBLONG, INC. Entity Incorporation, State or Country Code DE Entity Tax Identification Number 77-0312442 Entity

Address, Address Line One 110-16th Street Entity Address, Address Line Two Suite 1400-1024 Entity Address, City or Town Denver Entity Address, State or Province CO Entity Address, Postal Zip Code City Area Code Local Phone Number 683-8863 ext. 5 Title of 12 (b) Security Common Stock, \$ 0.0001 par value Trading Symbol OBLG Security Exchange Name NASDAQ Entity Well-known Seasoned Issuer No Entity Voluntary Filers No Entity Current Reporting Status Yes Entity Interactive Data Current Yes Entity Filer Category Non-accelerated Filer Entity Small Business true Entity Emerging Growth Company false ICFR Auditor Attestation Flag false Document Financial Statement Error Correction Flag false Entity Shell Company false Entity Public Float \$ 3,002,041 Entity Common Stock, Shares Outstanding 16,684,571 Entity Central Index Key Document Fiscal Year Focus Document Fiscal Period Focus FY Amendment Flag false X-Definition Boolean flag that is true when the XBRL content amends previously-filed or accepted submission. References No definition available. Details Name: dei\_AmendmentFlag Namespace Prefix: dei\_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: durationX-Definition Area code of city References No definition available. Details Name: dei\_CityAreaCode Namespace Prefix: dei\_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: durationX-Definition Cover page. References No definition available. Details Name: dei\_CoverAbstract Namespace Prefix: dei\_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-Definition End date of current fiscal year in the format--MM-DD. References No definition available. Details Name: dei\_CurrentFiscalYearEndDate Namespace Prefix: dei\_ Data Type: xbrli:gMonthDayItemType Balance Type: na Period Type: durationX-Definition Boolean flag that is true only for a form used as an annual report. References Reference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Form 10-K-Number 249-Section 310> Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Form 20-F-Number 249-Section 220-Subsection f> Reference 3: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Form 40-F-Number 249-Section 240-Subsection f> Details Name: dei\_DocumentAnnualReport Namespace Prefix: dei\_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: durationX-Definition Indicates whether any of the financial statement period in the filing include a restatement due to error correction. References Reference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Regulation S-K-Number 229-Section 402-Subsection w> Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Form 10-K-Number 249-Section 310> Reference 3: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Form 20-F-Number 249-Section 220-Subsection f> Reference 4: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Form 40-F-Number 249-Section 240-Subsection f> Details Name: dei\_DocumentAnnualReportErrorCorrectionFlag Namespace Prefix: dei\_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: durationX-Definition Fiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY. References No definition available. Details Name: dei\_DocumentFiscalPeriodFocus Namespace Prefix: dei\_ Data Type: dei:fiscalPeriodItemType Balance Type: na Period Type: durationX-Definition This is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. References No definition available. Details Name: dei\_DocumentFiscalYearFocus Namespace Prefix: dei\_ Data Type: xbrli:gYearItemType Balance Type: na Period Type: durationX-Definition For the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. References No definition available. Details Name: dei\_DocumentPeriodEndDate Namespace Prefix: dei\_ Data Type: xbrli:dateItemType Balance Type: na Period Type: durationX-Definition Boolean flag that is true only for a form used as a transition report. References Reference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Forms 10-K, 10-Q, 20-F-Number 240-Section 13-Subsection a-1> Details Name: dei\_DocumentTransitionReport Namespace Prefix: dei\_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: durationX-Definition The type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. References No definition available. Details Name: dei\_DocumentType Namespace Prefix: dei\_ Data Type: dei:submissionTypeItemType Balance Type: na Period Type: durationX-Definition Address Line 1 such as Attn, Building Name, Street Name References No definition available. Details Name: dei\_EntityAddressAddressLine1 Namespace Prefix: dei\_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: durationX-Definition Address Line 2 such as Street or Suite number References No definition available. Details Name: dei\_EntityAddressAddressLine2 Namespace Prefix: dei\_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: durationX-Definition Name of the City or Town References No definition available. Details Name: dei\_EntityAddressCityOrTown Namespace Prefix: dei\_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: durationX-Definition Code for the postal or zip code References No definition available. Details Name: dei\_EntityAddressPostalZipCode Namespace Prefix: dei\_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: durationX-Definition Name of the state or province. References No definition available. Details Name: dei\_EntityAddressStateOrProvince Namespace Prefix: dei\_ Data Type: dei:stateOrProvinceItemType Balance Type: na Period Type: durationX-Definition A unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. References Reference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> Details Name: dei\_EntityCentralIndexKey Namespace Prefix: dei\_ Data Type: dei:centralIndexKeyItemType Balance Type: na Period Type: durationX-Definition Indicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument. References No definition available. Details Name: dei\_EntityCommonStockSharesOutstanding Namespace Prefix: dei\_ Data Type: xbrli:sharesItemType Balance Type: na Period

Type: instantX- DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15 (d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. ReferencesNo definition available. Details Name: dei\_EntityCurrentReportingStatus Namespace Prefix: dei\_ Data Type: dei: yesNoItemType Balance Type: na Period Type: durationX- DefinitionIndicate if registrant meets the emerging growth company criteria. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Exchange-Act-Number-240-Section-12-Subsection-b-2> Details Name: dei\_EntityEmergingGrowthCompany Namespace Prefix: dei\_ Data Type: xbrli: booleanItemType Balance Type: na Period Type: durationX- DefinitionCommission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen. ReferencesNo definition available. Details Name: dei\_EntityFileNumber Namespace Prefix: dei\_ Data Type: dei: fileNumberItemType Balance Type: na Period Type: durationX- DefinitionIndicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Exchange-Act-Number-240-Section-12-Subsection-b-2> Details Name: dei\_EntityFilerCategory Namespace Prefix: dei\_ Data Type: dei: filerCategoryItemType Balance Type: na Period Type: durationX- DefinitionTwo-character EDGAR code representing the state or country of incorporation. ReferencesNo definition available. Details Name: dei\_EntityIncorporationStateCountryCode Namespace Prefix: dei\_ Data Type: dei: edgarStateCountryItemType Balance Type: na Period Type: durationX- DefinitionBoolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Regulation-S-T-Number-232-Section-405> Details Name: dei\_EntityInteractiveDataCurrent Namespace Prefix: dei\_ Data Type: dei: yesNoItemType Balance Type: na Period Type: durationX- DefinitionThe aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold, or the average bid and asked price of such common equity, as of the last business day of the registrant's most recently completed second fiscal quarter. ReferencesNo definition available. Details Name: dei\_EntityPublicFloat Namespace Prefix: dei\_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionThe exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Exchange-Act-Number-240-Section-12-Subsection-b-2> Details Name: dei\_EntityRegistrantName Namespace Prefix: dei\_ Data Type: xbrli: normalizedStringItemType Balance Type: na Period Type: durationX- DefinitionBoolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Exchange-Act-Number-240-Section-12-Subsection-b-2> Details Name: dei\_EntityShellCompany Namespace Prefix: dei\_ Data Type: xbrli: booleanItemType Balance Type: na Period Type: durationX- DefinitionIndicates that the company is a Smaller Reporting Company (SRC). ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Exchange-Act-Number-240-Section-12-Subsection-b-2> Details Name: dei\_EntitySmallBusiness Namespace Prefix: dei\_ Data Type: xbrli: booleanItemType Balance Type: na Period Type: durationX- DefinitionThe Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Exchange-Act-Number-240-Section-12-Subsection-b-2> Details Name: dei\_EntityTaxIdentificationNumber Namespace Prefix: dei\_ Data Type: dei: employerIdItemType Balance Type: na Period Type: durationX- DefinitionIndicate 'Yes' or 'No' if the registrant is not required to file reports pursuant to Section 13 or Section 15 (d) of the Act. ReferencesNo definition available. Details Name: dei\_EntityVoluntaryFilers Namespace Prefix: dei\_ Data Type: dei: yesNoItemType Balance Type: na Period Type: durationX- DefinitionIndicate 'Yes' or 'No' if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Is used on Form Type: 10-K, 10-Q, 8-K, 20-F, 6-K, 10-K/A, 10-Q/A, 20-F/A, 6-K/A, N-CSR, N-Q, N-1A. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Securities-Act-Number-230-Section-405> Details Name: dei\_EntityWellKnownSeasonedIssuer Namespace Prefix: dei\_ Data Type: dei: yesNoItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-10-K-Number-249-Section-310> Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-20-F-Number-249-Section-220> Reference 3: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-40-F-Number-249-Section-240> Subsection f Details Name: dei\_IcfrAuditorAttestationFlag Namespace Prefix: dei\_ Data Type: xbrli: booleanItemType Balance Type: na Period Type: durationX- DefinitionLocal phone number for entity. ReferencesNo definition available. Details Name: dei\_LocalPhoneNumber Namespace Prefix: dei\_ Data Type: xbrli: normalizedStringItemType Balance Type: na Period Type: durationX- DefinitionTitle of a 12 (b) registered security. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Exchange-Act-Number-240-Section-12-Subsection-b> Details Name: dei\_Security12bTitle Namespace Prefix: dei\_ Data Type: dei: securityTitleItemType Balance Type: na Period Type: durationX- DefinitionName of the Exchange on which a security is registered. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Exchange-Act-Number-240-Section-12-Subsection-d1-1> Details Name: dei\_SecurityExchangeName Namespace Prefix: dei\_ Data Type: dei: edgarExchangeCodeItemType Balance Type: na Period Type: durationX- DefinitionTrading symbol of an instrument as listed on an exchange. ReferencesNo definition available. Details Name: dei\_TradingSymbol Namespace Prefix: dei\_ Data Type: dei:

tradingSymbolItemType Balance Type: na Period Type: duration Audit Information 12 Months Ended Dec. 31, 2023 Audit Information [ Abstract ] Auditor Name EisnerAmper LLP Auditor Location Iselin, New Jersey Auditor Firm IDX-Definition PCAOB issued Audit Firm Identifier References Reference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-10-K-Number-249-Section-310> Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-20-F-Number-249-Section-220-Subsection-f> Reference 3: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-40-F-Number-249-Section-240-Subsection-f> Details Name: dei\_AuditorFirmId Namespace Prefix: dei\_Data Type: dei: nonempty SequenceNumber ItemType Balance Type: na Period Type: duration X-References Reference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-10-K-Number-249-Section-310> Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-20-F-Number-249-Section-220-Subsection-f> Reference 3: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-40-F-Number-249-Section-240-Subsection-f> Details Name: dei\_AuditorLocation Namespace Prefix: dei\_Data Type: dei: internationalName ItemType Balance Type: na Period Type: duration X-References Reference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-10-K-Number-249-Section-310> Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-20-F-Number-249-Section-220-Subsection-f> Reference 3: <http://www.xbrl.org/2003/role/presentationRef-Publisher-SEC-Name-Form-40-F-Number-249-Section-240-Subsection-f> Details Name: dei\_AuditorName Namespace Prefix: dei\_Data Type: dei: internationalName ItemType Balance Type: na Period Type: duration X-Definition Audit Information References No definition available. Details Name: glow\_AuditInformation Abstract Namespace Prefix: glow\_Data Type: xbrli: string ItemType Balance Type: na Period Type: duration CONSOLIDATED BALANCE SHEETS-USD (\$) \$ in Thousands Dec. 31, 2023 Dec. 31, 2022 Current assets: Cash and cash equivalents \$ 5,990 \$ 3,085 Accounts receivable, net Inventory, net Prepaid expenses and other current assets Total current assets 6,896 4,872 Property and equipment, net Intangibles, net Operating lease, right-of-use assets, net Other assets Total assets 6,925 5,661 Current liabilities: Accounts payable Accrued expenses and other current liabilities 1,038 1,074 Current portion deferred revenue Operating lease liabilities, current Total current liabilities 1,398 1,913 Long-term liabilities: Operating lease liabilities, net of current portion Deferred revenue, net of current portion Total long-term liabilities Total liabilities 1,424 2,044 Commitments and contingencies (see Note 14) Stockholders' equity: Common stock, \$.0001 par value; 150,000,000 shares authorized; 16,692,000 shares issued and 16,685,000 shares outstanding at December 31, 2023 and 2,071,000 shares issued and 2,063,000 outstanding at December 31, 2022 Treasury stock, 8,000 common shares at December 31, 2023 and 2022 (181) (181) Additional paid-in capital 233,911 227,645 Accumulated deficit (228,231) (223,847) Total stockholders' equity 5,501 3,617 Total liabilities and stockholders' equity 6,925 5,661 Series F Preferred Stock Stockholders' equity: Preferred stock Series F, convertible; \$.0001 par value; \$ 2,064,063 stated value; 42,000 shares authorized, 1,930 and zero shares issued and outstanding at December 31, 2023 and December 31, 2022, respectively \$ 0 \$ 0 X-Definition Carrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic-852-SubTopic-10-Name-Accounting-Standards-Codification-Section-55-Paragraph-10> Publisher FASB-URI <https://asc.fasb.org/1943274/2147481372/852-10-55-10> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-210-SubTopic-10-Section-S99-Paragraph-1-Subparagraph-\(SX-210-5-02-19-\(a\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-210-SubTopic-10-Section-S99-Paragraph-1-Subparagraph-(SX-210-5-02-19-(a))) Publisher FASB-URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Details Name: us-gaap\_AccountsPayableCurrent Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instant X-Definition Amount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic-310-SubTopic-10-Name-Accounting-Standards-Codification-Section-45-Paragraph-2> Publisher FASB-URI <https://asc.fasb.org/1943274/2147481990/310-10-45-2> Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic-310-SubTopic-10-Name-Accounting-Standards-Codification-Section-45-Paragraph-9> Publisher FASB-URI <https://asc.fasb.org/1943274/2147481990/310-10-45-9> Details Name: us-gaap\_AccountsReceivableNetCurrent Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X-Definition Carrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-210-SubTopic-10-Section-S99-Paragraph-1-Subparagraph-\(SX-210-5-02-20\)](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-210-SubTopic-10-Section-S99-Paragraph-1-Subparagraph-(SX-210-5-02-20)) Publisher FASB-URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Details Name: us-gaap\_AccruedLiabilitiesCurrent Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instant X-Definition Value received from shareholders in common stock-related transactions that are in excess of par value or stated value and amounts received from other stock-related transactions. Includes only common stock transactions (excludes preferred stock transactions). May be called contributed capital, capital in excess of par, capital surplus, or paid-in capital. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic-210-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-\(SX-210-5-02-\(30\)-\(a\)-\(1\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic-210-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-(SX-210-5-02-(30)-(a)-(1))) Publisher FASB-URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Details Name: us-gaap\_AdditionalPaidInCapitalCommonStock Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instant X-Definition Sum of the carrying amounts as of the balance sheet date of all assets that are recognized. Assets are probable future economic benefits obtained or controlled by an entity as a result of past transactions or events. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic-810-SubTopic-10-Name-Accounting>

Standards Codification- Section 50- Paragraph 3- Subparagraph (bb)- Publisher FASB- URI <https://asc.fasb.org//1943274/2147481203/810-10-50-3>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481231/810-10-45-25](http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481231/810-10-45-25)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(g\) \(1\) \(ii\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (g) (1) (ii))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481687/323-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481687/323-10-50-3)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482907/825-10-50-28](http://www.xbrl.org/2003/role/disclosureRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482907/825-10-50-28)Reference 6: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org//1943274/2147481372/852-10-55-10>Reference 7: <http://www.xbrl.org/2003/role/exampleRef-Topic 946-SubTopic 830-Name Accounting Standards Codification-Section 55-Paragraph 12-Publisher FASB-URI https://asc.fasb.org//1943274/2147480167/946-830-55-12>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-03 \(a\) \(12\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-03 (a) (12))-Publisher FASB-URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1)Reference 9: <http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22>Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(8\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (8))-Publisher FASB-URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(18\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (18))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) \(i\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210. 13-01 (a) (4) (i))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1A)Reference 13: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) \(ii\)\)-Publisher FASB-URI 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us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit-Period Type: instantX-Definition Sum of the carrying amounts as of the balance sheet date of all assets that are expected to be realized in cash, sold, or consumed within one year (or the normal operating cycle, if longer). Assets are probable future economic benefits obtained or controlled by an entity as a result of past transactions or events. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50->

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Accounting Standards Codification-Section 50-Paragraph 7-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481404/852-10-50-7)Details Name: us-gaap\_AssetsCurrent Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX-ReferencesNo definition available. Details Name: us-gaap\_AssetsCurrentAbstract Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX-DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 8-Publisher FASB-URI https://asc.fasb.org//1943274/2147482913/230-10-50-8>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 24-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-24>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 230-SubTopic 10-Section 45-Paragraph 4-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-4>Details Name: us-gaap\_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX-DefinitionRepresents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible

claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.7-03\(a\)\(19\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.7-03(a)(19)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147479440/944-210-S99-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.6-04\(15\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.6-04(15)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147479617/946-210-S99-1>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 942-SubTopic 210-Section S99-Paragraph 1-Subparagraph \(SX 210.9-03.17\)](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 942-SubTopic 210-Section S99-Paragraph 1-Subparagraph (SX 210.9-03.17))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147479853/942-210-S99-1>Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02.25\)](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph (SX 210.5-02.25))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480566/210-10-S99-1>Details Name: us-gaap-CommitmentsAndContingenciesNamespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionAggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10>-Publisher FASB-URI <https://asc.fasb.org//1943274/2147481372/852-10-55-10>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.7-03\(a\)\(22\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.7-03(a)(22)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147479440/944-210-S99-1>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(29)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480566/210-10-S99-1>Details Name: us-gaap-CommonStockValueNamespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as current. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1>-Publisher FASB-URI <https://asc.fasb.org//1943274/2147479837/606-10-45-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 8-Subparagraph \(a\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 8-Subparagraph (a))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147479806/606-10-50-8>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 2>-Publisher FASB-URI <https://asc.fasb.org//1943274/2147479837/606-10-45-2>Details Name: us-gaap-ContractWithCustomerLiabilityCurrentNamespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as noncurrent. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1>-Publisher FASB-URI <https://asc.fasb.org//1943274/2147479837/606-10-45-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 8-Subparagraph \(a\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 8-Subparagraph (a))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147479806/606-10-50-8>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 2>-Publisher FASB-URI <https://asc.fasb.org//1943274/2147479837/606-10-45-2>Details Name: us-gaap-ContractWithCustomerLiabilityNoncurrentNamespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 50-Paragraph 2-Subparagraph \(\(a\)\(1\), \(b\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 50-Paragraph 2-Subparagraph ((a)(1), (b)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147482665/350-30-50-2>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 45-Paragraph 1>-Publisher FASB-URI <https://asc.fasb.org//1943274/2147482686/350-30-45-1>Details Name: us-gaap-IntangibleAssetsNetExcludingGoodwillNamespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10>-Publisher FASB-URI <https://asc.fasb.org//1943274/2147481372/852-10-55-10>Reference 2: [http://www.xbrl.org/2003/role/exampleRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph \(b\)](http://www.xbrl.org/2003/role/exampleRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph (b))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147483467/210-10-45-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(6\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(6)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480566/210-10-S99-1>Details Name: us-gaap-InventoryNetNamespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionSum of the carrying amounts as of the balance sheet date of all liabilities that are recognized. Liabilities are probable future sacrifices of economic benefits arising from present obligations of an entity to transfer assets or provide services to other entities in the future. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(e\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (e))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147481203/810-10-50-3>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25>

Subparagraph (b)–Publisher FASB–URI <https://asc.fasb.org/1943274/2147481231/810-10-45-25>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(bb\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481203/810-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (bb)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481203/810-10-50-3)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(g\) \(1\) \(ii\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (g) (1) (ii))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2003/role/disclosureRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 7: <http://www.xbrl.org/2003/role/exampleRef-Topic 946-SubTopic 830-Name Accounting Standards Codification-Section 55-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147480167/946-830-55-12>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(14\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479617/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (14))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479617/946-210-S99-1)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) \(i\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210. 13-01 (a) (4) (i))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 10: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) \(ii\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210. 13-01 (a) (4) (ii))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) \(iii\) \(A\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210. 13-01 (a) (4) (iii) (A))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) \(iv\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210. 13-01 (a) (4) (iv))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(5\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210. 13-01 (a) (5))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210. 13-02 \(a\) \(4\) \(i\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210. 13-02 (a) (4) (i))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 15: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210. 13-02 \(a\) \(4\) \(iii\) \(A\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210. 13-02 (a) (4) (iii) (A))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 16: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210. 13-02 \(a\) \(4\) \(iii\) \(B\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210. 13-02 (a) (4) (iii) (B))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210. 13-02 \(a\) \(4\) \(iv\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210. 13-02 (a) (4) (iv))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210. 13-02 \(a\) \(5\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210. 13-02 (a) (5))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 19: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 7-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481404/852-10-50-7](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 7-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481404/852-10-50-7)Reference 20: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 7-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481404/852-10-50-7](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 7-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481404/852-10-50-7)Reference 21: [http://www.xbrl.org/2003/role/exampleRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 30-Subparagraph \(d\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-30](http://www.xbrl.org/2003/role/exampleRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 30-Subparagraph (d)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-30)Reference 22: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02. 19-26\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02. 19-26)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us-gaap\_Liabilities Namespace Prefix: us-gaap\_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-Definition Amount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any. References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-03 \(a\) \(25\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479440/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-03 (a) (25))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479440/944-210-S99-1)Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(g\) \(1\) \(ii\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (g) (1) (ii))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 5: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 6: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 9-03 \(23\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479853/942-210-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 9-03 (23))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479853/942-210-S99-1)Reference 7: <http://fasb.org/us-gaap/role/ref/legacyRef->

Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (32))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Details Name: us-gaap\_LiabilitiesAndStockholdersEquity Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-Definition Total obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481203/810-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481203/810-10-50-3) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481231/810-10-45-25](http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481231/810-10-45-25) Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name 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https://asc.fasb.org/1943274/2147481372/852-10-55-10> Reference 8: <http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 5-Publisher FASB-URI https://asc.fasb.org/1943274/2147483467/210-10-45-5> Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) \(i\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210. 13-01 (a) (4) (i))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A) Reference 10: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) \(ii\)\)-Publisher FASB-URI 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us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-References No definition available. Details Name: us-gaap\_LiabilitiesCurrent Abstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-Definition Amount of obligation due after one year or beyond the normal operating cycle, if longer. References Reference 1: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(22\)\)-SubTopic 10-Topic 210-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (22))-SubTopic 10-Topic 210-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481203/810-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481203/810-10-50-3) Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481231/810-10-45-25](http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481231/810-10-45-25) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481203/810-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481203/810-10-50-3)

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Details Name: us-gaap\_OperatingLeaseLiabilityNonecurrent Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionAmount of lessee's right to use underlying asset under operating lease. ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479041/842-20-45-1  
Details Name: us-gaap\_OperatingLeaseRightOfUseAsset Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount of noncurrent assets classified as

other. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(17\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (17)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Details Name: us-gaap\_OtherAssetsNoncurrent Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10>-Publisher FASB-URI <https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-03 \(a\) \(21\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-03 (a) (21)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147479440/944-210-S99-1>Reference 3: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(28\)\)](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (28)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Details Name: us-gaap\_PreferredStockValue Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(9\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (9)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Details Name: us-gaap\_PrepaidExpenseAndOtherAssetsCurrent Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. ReferencesReference 1: <http://asc.fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 1-SubTopic 10-Topic 360>-Publisher FASB-URI <https://asc.fasb.org/1943274/2147482099/360-10-50-1>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10>-Publisher FASB-URI <https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-03 \(a\) \(8\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-03 (a) (8)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147479440/944-210-S99-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 360-Name Accounting Standards Codification-Section 50-Paragraph 1>-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480842/942-360-50-1> Details Name: us-gaap\_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of accumulated undistributed earnings (deficit). ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10>-Publisher FASB-URI <https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph \(g\) \(2\) \(i\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph (g) (2) (i))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480016/944-40-65-2>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph \(h\) \(2\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph (h) (2))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480016/944-40-65-2>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 11>-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480990/946-20-50-11>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-03 \(a\) \(23\) \(a\) \(4\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-03 (a) (23) (a) (4)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147479440/944-210-S99-1>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(17\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (17)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147479617/946-210-S99-1>Reference 7: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 3-04\)](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 3-04))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480008/505-10-S99-1>Reference 8: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(30\) \(a\) \(3\)\)](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (30) (a) (3)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Details Name: us-gaap\_RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10>-Publisher FASB-URI <https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 946-SubTopic 830-Name Accounting Standards Codification-Section 55-Paragraph 12>-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480167/946-830-55-12>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(19\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (19)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147479617/946-210-S99-1>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 6-05 \(4\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 6-05 (4)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147479617/946-210-S99-2>Reference 5: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting>

Standards Codification- Section S99- Paragraph 3- Subparagraph (SX 210. 6-09 (4) (b))- Publisher FASB- URI <https://asc.fasb.org//1943274/2147483575/946-220-S99-3>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(6\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (6))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(7\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (7))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3)Reference 8: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(g\) \(1\) \(ii\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (g) (1) (ii))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1)Reference 9: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481687/323-10-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481687/323-10-50-3)Reference 10: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482907/825-10-50-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482907/825-10-50-28)Reference 11: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 12: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(31\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (31))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 13: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(30\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (30))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 14: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SAB Topic 4. E\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480418/310-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SAB Topic 4. E)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480418/310-10-S99-2)Details Name: us-gaap\_StockholdersEquityNamespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-ReferencesNo definition available. Details Name: us-gaap\_StockholdersEquityAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionAmount allocated to previously issued common shares repurchased by the issuing entity and held in treasury. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 30-Section 50-Paragraph 4-Publisher FASB-URI https://asc.fasb.org//1943274/2147481520/505-30-50-4>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 30-Section 45-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147481549/505-30-45-1>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02. 30\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02. 30)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_TreasuryStockCommonValue Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-Details Name: us-gaap\_StatementClassOfStockAxis = us-gaap\_SeriesFPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: CONSOLIDATED BALANCE SHEETS (Parenthetical)- USD (\$) Dec. 31, 2023-Dec. 31, 2022Preferred stock, shares issued (in shares) 1, 930 1, 930Preferred stock, shares outstanding (in shares) 1, 930 1, 930Common stock, convertible, par value (in dollars per share) \$ 0. 0001 \$ 0. 0001Common stock, shares authorized (in shares) 150, 000, 000 150, 000, 000Common stock, shares issued (in shares) 16, 692, 124 2, 071, 000Common stock, shares outstanding (in shares) 16, 684, 571 2, 063, 000Treasury stock, shares (in shares) 8, 000 8, 000Series F Preferred Stock Preferred stock, convertible, par value (in dollars per share) \$ 0. 0001 \$ 0. 0001Preferred stock, stated value \$ 2, 064, 063 \$ 2, 064, 063Preferred stock, shares authorized (in shares) 42, 000 42, 000Preferred stock, shares issued (in shares) 1, 930Preferred stock, shares outstanding (in shares) 1, 930X- DefinitionPreferred Stock, Stated Value ReferencesNo definition available. Details Name: glow\_PreferredStockStatedValue Namespace Prefix: glow\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionFace amount or stated value per share of common stock. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap\_Data Type: dtl-types:perShareItemType Balance Type: na Period Type: instantX-DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(16\) \(a\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (16) (a))-Publisher FASB-URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_CommonStockSharesAuthorized Namespace Prefix: us-gaap\_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX-DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_CommonStockSharesIssued Namespace Prefix: us-gaap\_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX-DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a

corporation. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210.6-05\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479617/946-210-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210.6-05(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479617/946-210-S99-2)Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(4\)\(b\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(4)(b))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483575/946-220-S99-3)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.6-04\(16\)\(a\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479617/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.6-04(16)(a))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479617/946-210-S99-1)Reference 5: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(7\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(7))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483575/946-220-S99-3)Reference 6: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap-CommonStockSharesOutstanding Namespace Prefix: us-gaap\_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX-DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic505-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph13-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic505-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph13-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-13)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap-PreferredStockParOrStatedValuePerShare Namespace Prefix: us-gaap\_ Data Type: dtl:types:perShareItemType Balance Type: na Period Type: instantX-DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.6-04\(16\)\(a\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479617/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.6-04(16)(a))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479617/946-210-S99-1)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap-PreferredStockSharesAuthorized Namespace Prefix: us-gaap\_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX-DefinitionTotal number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) issued to shareholders (includes related preferred shares that were issued, repurchased, and remain in the treasury). May be all or portion of the number of preferred shares authorized. Excludes preferred shares that are classified as debt. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic505-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph13-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic505-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph13-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-13)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap-PreferredStockSharesIssued Namespace Prefix: us-gaap\_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX-DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210.6-05\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479617/946-210-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210.6-05(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479617/946-210-S99-2)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(4\)\(b\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(4)(b))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483575/946-220-S99-3)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.6-04\(16\)\(a\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479617/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.6-04(16)(a))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479617/946-210-S99-1)Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(7\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(7))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483575/946-220-S99-3)Reference 5: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap-PreferredStockSharesOutstanding Namespace Prefix: us-gaap\_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX-DefinitionNumber of previously issued common shares repurchased by the issuing entity and held in treasury. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic505-SubTopic30-Section45-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481549/505-30-45-1>Details Name: us-gaap-TreasuryStockCommonShares Namespace Prefix: us-gaap\_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX-Details Name: us-gaap-StatementClassOfStockAxis=us-gaap-SeriesFPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: CONSOLIDATED STATEMENTS OF OPERATIONS-USD (\$) shares in Thousands, \$ in Thousands 12 Months EndedDec. 31, 2023-Dec. 31, 2022Income Statement [ Abstract ] Revenue \$ 3, 810 \$ 5, 476Cost of revenue (exclusive of depreciation and amortization and casualty loss) 2, 899 3, 930Gross profit 1, 546Operating expenses (gains): Research and development 1, 699Sales and marketing 1, 431General and administrative 4, 870 5;

278 Impairment charges 12, 740 Casualty (gain) loss, net (400) Depreciation and amortization 1, 903 Total operating expenses 5, 406 23, 534 Loss from operations (4, 495) (21, 988) Interest and other income, net Interest and other expense Interest and other income (166) (59) Total interest and other income, net (138) (40) Loss before income taxes (4, 357) (21, 948) Income tax expense (benefit) (7) Net income (loss) (4, 384) (21, 941) Preferred stock dividends Induced conversion of warrants Warrant modification Net loss attributable to common stockholders \$ (5, 503) \$ (21, 941) Net loss attributable to common stockholders per share: Basic net loss per share (in dollars per share) \$ (0. 98) \$ (10. 62) Diluted net loss per share (in dollars per share) \$ (0. 98) \$ (10. 62) Weighted-average number of shares of common stock: Basic (in shares) 5, 595 2, 065 Diluted (in shares) 5, 595 2, 065 X-Definition Inventory Write-Down, Net Of Insurance Proceeds References No definition available. Details Name: glow\_InventoryWriteDownNetOfInsuranceProceeds Namespace Prefix: glow\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-Definition Warrants Conversions, Inducements References No definition available. Details Name: glow\_WarrantsConversionsInducements Namespace Prefix: glow\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-Definition Amount of write-down of assets recognized in the income statement. Includes, but is not limited to, losses from tangible assets, intangible assets and goodwill. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482740/230-10-45-28) Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic360-SubTopic10-Section45-Paragraph4-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482130/360-10-45-4> Details Name: us-gaap\_AssetImpairmentCharges Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-Definition Cost of product sold and service rendered, excluding depreciation, depletion, and amortization. References Reference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210.5-03\(2\)\(a\)\)-SubTopic10-Topic220-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483621/220-10-S99-2](http://www.xbrl.org/2009/role/commonPracticeRef-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210.5-03(2)(a))-SubTopic10-Topic220-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483621/220-10-S99-2) Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210.5-03\(2\)\(d\)\)-SubTopic10-Topic220-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483621/220-10-S99-2](http://www.xbrl.org/2009/role/commonPracticeRef-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210.5-03(2)(d))-SubTopic10-Topic220-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483621/220-10-S99-2) Details Name: us-gaap\_CostOfGoodsAndServiceExcludingDepreciationDepletionAndAmortization Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-Definition Total costs of sales and operating expenses for the period. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210.5-03\)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483621/220-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210.5-03)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483621/220-10-S99-2) Details Name: us-gaap\_CostsAndExpenses Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-References No definition available. Details Name: us-gaap\_CostsAndExpenses Abstract Namespace Prefix: us-gaap\_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX-Definition The current period expense charged against earnings on long-lived, physical assets not used in production, and which are not intended for resale, to allocate or recognize the cost of such assets over their useful lives; or to record the reduction in book value of an intangible asset over the benefit period of such asset; or to reflect consumption during the period of an asset that is not used in production. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482740/230-10-45-28) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic360-SubTopic10-Section50-Paragraph1-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482099/360-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic360-SubTopic10-Section50-Paragraph1-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482099/360-10-50-1) Details Name: us-gaap\_DepreciationAndAmortization Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-References No definition available. Details Name: us-gaap\_EarningsPerShare Abstract Namespace Prefix: us-gaap\_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX-Definition The amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483443/250-10-50-3> Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph15-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482635/260-10-55-15> Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic815-SubTopic40-NameAccountingStandardsCodification-Section65-Paragraph1-Subparagraph\(c\)\(4\)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147480175/815-40-65-1](http://www.xbrl.org/2003/role/disclosureRef-Topic815-SubTopic40-NameAccountingStandardsCodification-Section65-Paragraph1-Subparagraph(c)(4)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147480175/815-40-65-1) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic815-SubTopic40-NameAccountingStandardsCodification-Section65-Paragraph1-Subparagraph\(f\)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147480175/815-40-65-1](http://www.xbrl.org/2003/role/disclosureRef-Topic815-SubTopic40-NameAccountingStandardsCodification-Section65-Paragraph1-Subparagraph(f)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147480175/815-40-65-1) Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483443/250-10-50-11) Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483443/250-10-50-11) Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph7-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483443/250-10-50-7](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph7-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147483443/250-10-50-7) Reference 8: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482689/260-10-45-2> Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph60B-Subparagraph\(d\)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482689/260-10-45-60B](http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph60B-Subparagraph(d)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147482689/260-10-45-60B) Reference 10: <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50->

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https://asc.fasb.org//1943274/2147482689/260-10-45-7>Details Name: us-gaap\_EarningsPerShareDiluted Namespace Prefix: us-gaap\_Data Type: dtr-types: perShareItemType Balance Type: na Period Type: durationX-Definition The aggregate total of expenses of managing and administering the affairs of an entity, including affiliates of the reporting entity, which are not directly or indirectly associated with the manufacture, sale or creation of a product or product line. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-07 \(2\) \(a\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-07 (2) (a))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-1)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 5-03. 4\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 5-03. 4)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2)Details Name: us-gaap\_GeneralAndAdministrativeExpense Namespace Prefix: us-gaap\_Data Type: xbrli:

monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAggregate revenue less cost of goods and services sold or operating expenses directly attributable to the revenue generation activity. 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https://asc.fasb.org//1943274/2147482810/280-10-50-31>Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-32)Reference 19: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 5-03. 1, 2\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 5-03. 1, 2)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2)Details Name: us-gaap\_GrossProfit Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-04 \(11\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-04 (11))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 30-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-30](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 30-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-30)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-32)Reference 5: <http://www.xbrl.org/2003/role/exampleRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 31-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-31>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-32)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 235-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 9-05 \(b\) \(2\)\)-Publisher FASB-URI https://asc.fasb.org//](http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 235-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 9-05 (b) (2))-Publisher FASB-URI https://asc.fasb.org//)

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Details Name: us-gaap\_IncomeStatementAbstract Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX-DefinitionAmount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-8Reference2: http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-9Reference3: http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph10-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-10Reference4: http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SABTOPIC6.I.7\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference5: http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(h\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22Reference6: http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.7-04\(9\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483586/944-220-S99-1Reference7: http://www.xbrl.org/2003/role/disclosureRef-NameAccountingStandardsCodification-Section45-Paragraph2-Subparagraph\(a\)-SubTopic20-Topic740-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482659/740-20-45-2Reference8: http://www.xbrl.org/2003/role/disclosureRef-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.4-08\(h\)\)-SubTopic10-Topic235-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-8Reference2: http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-9Reference3: http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph10-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-10Reference4: http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SABTOPIC6.I.7)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference5: http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(h)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22Reference6: http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.7-04(9))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483586/944-220-S99-1Reference7: http://www.xbrl.org/2003/role/disclosureRef-NameAccountingStandardsCodification-Section45-Paragraph2-Subparagraph(a)-SubTopic20-Topic740-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482659/740-20-45-2Reference8: http://www.xbrl.org/2003/role/disclosureRef-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.4-08(h))-SubTopic10-Topic235-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1) Details Name: us-gaap\_IncomeTaxExpenseBenefit Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. ReferencesReference 1:

2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-  
Publisher FASB-URI <https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-07 \(9\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-07 (9)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147483575/946-220-S99-1>Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(1\) \(d\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (1) (d)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147483575/946-220-S99-3>Reference 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 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<https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 26: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210. 13-02 \(a\) \(4\) \(iii\) \(B\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210. 13-02 (a) (4) (iii) (B)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 27: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210. 13-02 \(a\) \(4\) \(iv\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210. 13-02 (a) (4) (iv)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1B>Reference 28: 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FASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (f)-Publisher FASB-URI) <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 31: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 60B-Subparagraph \(a\)-Publisher FASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 60B-Subparagraph (a)-Publisher FASB-URI) <https://asc.fasb.org/1943274/2147482689/260-10-45-60B>Reference 32: <http://www.xbrl.org/2003/role/exampleRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 31-Publisher FASB-URI> <https://asc.fasb.org/1943274/2147482810/280-10-50-31>Reference 33: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(e\)-Publisher FASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (e)-Publisher FASB-URI) <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 34: <http://www.xbrl.org/2003/role/disclosureRef-Topic 205-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 7-Publisher FASB-URI> <https://asc.fasb.org/1943274/2147483499/205-20-50-7>Reference 35: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28-Publisher FASB-URI> <https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 36: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph \(a\)-Publisher FASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph (a)-Publisher FASB-URI) <https://asc.fasb.org/1943274/2147482790/220-10-45-1A>Reference 37: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph \(a\)-Publisher FASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph (a)-Publisher FASB-URI) <https://asc.fasb.org/1943274/2147482790/220-10-45-1B>Reference 38: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 5-03 \(20\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 5-03 (20)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147483621/220-10-S99-2>Reference 39: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 9-04 \(22\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 9-04 (22)))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147483589/942-220-S99-1>Details Name: us-gaap\_NetIncomeLoss Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-Definition Amount, after deduction of tax, noncontrolling interests, dividends on preferred stock and participating securities; of income (loss) available to common shareholders. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Publisher FASB-URI> <https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph \(a\)-Publisher FASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph (a)-Publisher FASB-URI) <https://asc.fasb.org/1943274/2147483443/250-10-50-11>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph \(b\)-Publisher FASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph (b)-Publisher FASB-URI) <https://asc.fasb.org/1943274/2147483443/250-10-50-11>

11Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph4-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-4>

4Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph5-Subparagraph\(SAB-Topic6.B\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-5](http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph5-Subparagraph(SAB-Topic6.B)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-5)

5Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22>

22Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1)

1Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph30-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-30](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph30-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-30)

30Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(f\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(f)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32)

32Reference 10: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph10-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482689/260-10-45-10>

10Reference 11: <http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph31-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-31>

31Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32)

32Reference 13: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph11-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482689/260-10-45-11>

11Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph60B-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482689/260-10-45-60B](http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph60B-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482689/260-10-45-60B)

60B

Details Name: us-gaap\_NetIncomeLossAvailableToCommonStockholdersBasic Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionThe aggregate amount of income or expense from ancillary business-related activities (that is to say, excluding major activities considered part of the normal operations of the business). ReferencesReference 1: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210.5-03.7\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210.5-03.7)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2)

2 Details Name: us-gaap\_NonoperatingIncomeExpense Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap\_NonoperatingIncomeExpenseAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionThe net result for the period of deducting operating expenses from operating revenues. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22>

22Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph30-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-30](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph30-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-30)

30Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(f\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(f)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32)

32Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph31-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-31>

31Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32)

32 Details Name: us-gaap\_OperatingIncomeLoss Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount of expense related to nonoperating activities, classified as other. ReferencesReference 1: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210.5-03.9\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210.5-03.9)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2)

2 Details Name: us-gaap\_OtherNonoperatingExpense Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of income related to nonoperating activities, classified as other. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210.5-03\(7\)\(d\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210.5-03(7)(d))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2)

2 Details Name: us-gaap\_OtherNonoperatingIncome Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionThe amount of preferred stock dividends that is an adjustment to net income apportioned to common stockholders. ReferencesNo definition available. Details Name: us-gaap\_PREFERREDStockDividendsIncomeStatementImpact Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionThe aggregate costs incurred (1) in a planned search or critical investigation aimed at discovery of new knowledge with the hope that such knowledge will be useful in developing a new product or service, a new process or technique, or in bringing about a significant improvement to an existing product or process; or (2) to translate research findings or other knowledge into a plan or design for a new product or process or for a significant improvement to an existing product or process whether intended for sale or the entity's use, during the reporting period charged to research and development projects, including the costs of developing computer software up to the point in time of achieving technological feasibility, and costs allocated in accounting for a business combination to in-process projects deemed to have no alternative future use. ReferencesReference 1: <http://www.xbrl.org/2003/role/>

disclosureRef-Topic 730-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI <https://asc.fasb.org//1943274/2147482916/730-10-50-1>Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 912-SubTopic 730-Name Accounting Standards Codification-Section 25-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147482517/912-730-25-1>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 985-SubTopic 20-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147481283/985-20-50-1>Details Name: us-gaap\_ResearchAndDevelopmentExpense Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-Definition Amount, including tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value-added and excise. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 924-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SAB Topic 11-L\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479941/924-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 924-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SAB Topic 11-L)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479941/924-10-S99-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 5-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-5>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 30-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-30](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 30-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-30)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 42-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-42>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-32)Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 40-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-40>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-32)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 41-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-41](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 41-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-41)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-4)Details Name: us-gaap\_RevenueFromContractWithCustomerIncludingAssessedTax Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-Definition The aggregate total amount of expenses directly related to the marketing or selling of products or services. ReferencesNo definition available. Details Name: us-gaap\_SellingAndMarketingExpense Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-Definition Amount of decrease in net income available to common shareholder for down round feature triggered for warrant classified as equity. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 12B-Publisher FASB-URI https://asc.fasb.org//1943274/2147482689/260-10-45-12B>Details Name: us-gaap\_WarrantDownRoundFeatureDecreaseInNetIncomeLossToCommonShareholderAmount Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-Definition The average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 16-Publisher FASB-URI https://asc.fasb.org//1943274/2147482689/260-10-45-16>Details Name: us-gaap\_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap\_Data Type: xbrli:sharesItemType Balance Type: na Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap\_WeightedAverageNumberOfSharesOutstandingAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-Definition Number of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 10-Publisher FASB-URI https://asc.fasb.org//1943274/2147482689/260-10-45-10>Details Name: us-gaap\_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap\_Data Type: xbrli:

sharesItemType Balance Type: na Period Type: duration CONSOLIDATED STATEMENT OF STOCKHOLDERS' EQUITY- USD (\$) Total Series F Preferred Stock Preferred Stock Series F Preferred Stock Common Stock Common Stock Pre-Funded Warrants Treasury Stock Additional Paid-In Capital Accumulated Deficit Preferred stock, beginning balance (in shares) at Dec. 31, 2021 Common stock, beginning balance (in shares) at Dec. 31, 2021 2, 071, 000 Treasury stock, beginning balance (in shares) at Dec. 31, 2021 8, 000 Beginning balance at Dec. 31, 2021 \$ 25, 497, 000 \$ 0 \$ 0 \$ (181, 000) \$ 227, 584, 000 \$ (201, 906, 000) Increase (Decrease) in Stockholders' Equity [ Roll Forward ] Net loss (21, 941, 000) (21, 941, 000) Stock-based compensation 146, 000 146, 000 Forfeiture of unvested stock options (85, 000) (85, 000) Series F Preferred Stock dividends \$ 0 Preferred stock, ending balance (in shares) at Dec. 31, 2022 1, 930 Common stock, ending balance (in shares) at Dec. 31, 2022 2, 071, 000 2, 071, 000 Treasury stock, ending balance (in shares) at Dec. 31, 2022 8, 000 8, 000 Ending balance at Dec. 31, 2022 \$ 3, 617, 000 \$ 0 \$ 0 \$ (181, 000) 227, 645, 000 (223, 847, 000) Increase (Decrease) in Stockholders' Equity [ Roll Forward ] Net loss (4, 384, 000) (4, 384, 000) Stock-based compensation 504, 000 \$ 180, 000 504, 000 Proceeds from private placement, net of fees (in shares) 6, 550 Proceeds from private placement, net of fees 5, 364, 000 5, 364, 000 Proceeds from warrant exercise, net of fees (in shares) 339, 000 Proceeds from warrant exercise, net of fees 534, 000 534, 000 Common stock exchanged for pre-funded warrants (406, 776) (407, 000) Exercise of pre-funded warrants (in shares) 746, 027 407, 000 Conversions of Series F Preferred Stock (in shares) (4, 620) 14, 102, 477 Conversions of Series F Preferred Stock and accrued dividends 209, 000 \$ 2, 000 207, 000 Series F Preferred Stock dividends \$ (343, 000) \$ (343, 000) (343, 000) Preferred stock, ending balance (in shares) at Dec. 31, 2023 1, 930 1, 930 1, 930 Common stock, ending balance (in shares) at Dec. 31, 2023 16, 692, 124 16, 692, 000 Treasury stock, ending balance (in shares) at Dec. 31, 2023 8, 000 7, 553 8, 000 Ending balance at Dec. 31, 2023 \$ 5, 501, 000 \$ 0 \$ 2, 000 \$ (181, 000) \$ 233, 911, 000 \$ (228, 231, 000) X-Definition Adjustments to Additional Paid in Capital, Shares, Common Stock Exchanged For Prefunded Warrants References No definition available. Details Name: glow\_AdjustmentsToAdditionalPaidInCapitalSharesCommonStockExchangedForPrefundedWarrants Namespace Prefix: glow\_Data Type: xbrli: sharesItemType Balance Type: na Period Type: duration X-Definition Adjustments to Additional Paid in Capital, Shares, Warrant Issued References No definition available. Details Name: glow\_AdjustmentsToAdditionalPaidInCapitalSharesWarrantIssued Namespace Prefix: glow\_Data Type: xbrli: sharesItemType Balance Type: na Period Type: duration X-Definition Stock Issued During Period, Shares, Warrants Exercised References No definition available. Details Name: glow\_StockIssuedDuringPeriodSharesWarrantsExercised Namespace Prefix: glow\_Data Type: xbrli: sharesItemType Balance Type: na Period Type: duration X-Definition Amount of increase to additional paid-in capital (APIC) for recognition of cost for award under share-based payment arrangement. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 35-Paragraph 2-Publisher FASB-URI https://asc.fasb.org//1943274/2147480483/718-10-35-2> Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 20-Section 55-Paragraph 13-Publisher FASB-URI https://asc.fasb.org//1943274/2147481089/718-20-55-13> Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 20-Section 55-Paragraph 12-Publisher FASB-URI https://asc.fasb.org//1943274/2147481089/718-20-55-12> Details Name: us-gaap\_AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: duration X-Definition Amount of increase in additional paid-in capital (APIC) resulting from the issuance of warrants. Includes allocation of proceeds of debt securities issued with detachable stock purchase warrants. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org//1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.3-04\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.3-04)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1) Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 470-SubTopic 20-Section 25-Paragraph 2-Publisher FASB-URI https://asc.fasb.org//1943274/2147481284/470-20-25-2> Details Name: us-gaap\_AdjustmentsToAdditionalPaidInCapitalWarrantIssued Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: duration X-Definition Total number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02 (29))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Details Name: us-gaap\_CommonStockSharesIssued Namespace Prefix: us-gaap\_Data Type: xbrli: sharesItemType Balance Type: na Period Type: instant X-Definition Amount of paid and unpaid preferred stock dividends declared with the form of settlement in cash, stock and payment-in-kind (PIK). References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.3-04\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.3-04)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1) Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 2-SubTopic 405-Topic 942-Publisher FASB-URI https://asc.fasb.org//1943274/2147481071/942-405-45-2> Details Name: us-gaap\_DividendsPreferredStock Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: duration X-Definition A roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. References No definition available. Details Name: us-gaap\_IncreaseDecreaseInStockholdersEquityRollForward Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: duration X-Definition The portion of profit or loss for the period, net of income taxes, which is attributable to the parent. References Reference 1: <http://www.xbrl.org/>

2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (g) (1) (ii))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480678/235-10-S99-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481687/323-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481687/323-10-50-3)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482907/825-10-50-28](http://www.xbrl.org/2003/role/disclosureRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482907/825-10-50-28)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org//1943274/2147482765/220-10-50-6>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Publisher FASB-URI https://asc.fasb.org//1943274/2147483443/250-10-50-3>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(b\) \(2\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483443/250-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (b) (2)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483443/250-10-50-1)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 815-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 1-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480175/815-40-65-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 815-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 1-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480175/815-40-65-1)Reference 8: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 8-Publisher FASB-URI https://asc.fasb.org//1943274/2147483443/250-10-50-8>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 9-Publisher FASB-URI https://asc.fasb.org//1943274/2147483443/250-10-50-9>Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483443/250-10-50-11)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483443/250-10-50-11)Reference 12: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Publisher FASB-URI https://asc.fasb.org//1943274/2147483443/250-10-50-4>Reference 13: <http://www.xbrl.org/2003/role/exampleRef-Topic 946-SubTopic 830-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org//1943274/2147480167/946-830-55-10>Reference 14: <http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section 45-Paragraph 7-Publisher FASB-URI https://asc.fasb.org//1943274/2147483581/946-220-45-7>Reference 15: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-04 \(18\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-04 (18))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483586/944-220-S99-1)Reference 16: <http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22>Reference 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-07 \(9\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-07 (9))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-1)Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(1\) \(d\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (1) (d))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3)Reference 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) \(i\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210. 13-01 (a) (4) (i))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1A)Reference 20: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) 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S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(4\) \(iv\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210. 13-01 (a) (4) (iv))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1A)Reference 23: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210. 13-01 \(a\) \(5\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210. 13-01 (a) (5))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1A)Reference 24: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210. 13-02 \(a\) \(4\) \(i\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210. 13-02 (a) (4) (i))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1B)Reference 25: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210. 13-02 \(a\) \(4\) \(iii\) \(A\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210. 13-02 (a) (4) (iii) (A))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480097/470-10-S99-1B)Reference 26: [http://www.xbrl.org/2003/role/disclosureRef-Topic 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Subparagraph (b)–Publisher FASB–URI <https://asc.fasb.org/1943274/2147482810/280-10-50-30>Reference 30: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-32)Reference 31: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 60B-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 60B-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B)Reference 32: <http://www.xbrl.org/2003/role/exampleRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 31-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-31>Reference 33: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-32)Reference 34: <http://www.xbrl.org/2003/role/disclosureRef-Topic 205-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 7-Publisher FASB-URI https://asc.fasb.org/1943274/2147483499/205-20-50-7>Reference 35: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 36: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A)Reference 37: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1B)Reference 38: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 5-03 \(20\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 5-03 (20))-Publisher FASB-URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2)Reference 39: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 9-04 \(22\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483589/942-220-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 9-04 (22))-Publisher FASB-URI https://asc.fasb.org/1943274/2147483589/942-220-S99-1)Details Name: us-gaap\_NetIncomeLoss Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 6-05 \(4\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479617/946-210-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 6-05 (4))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479617/946-210-S99-2)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(4\) \(b\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (4) (b))-Publisher FASB-URI https://asc.fasb.org/1943274/2147483575/946-220-S99-3)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(16\) \(a\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479617/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (16) (a))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479617/946-210-S99-1)Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(7\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (7))-Publisher FASB-URI https://asc.fasb.org/1943274/2147483575/946-220-S99-3)Reference 5: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(28\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (28))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_PreferedStockSharesOutstanding Namespace Prefix: us-gaap\_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX-DefinitionNumber of shares issued during the period as a result of the conversion of convertible securities. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1E-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1E-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481139/470-20-50-1E)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 3-04\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 3-04)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1)Reference 4: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 10-Section 50-Paragraph 3-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-3>Reference 5: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02. 29-30\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02. 29-30)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_StockIssuedDuringPeriodSharesConversionOfConvertibleSecurities Namespace Prefix: us-gaap\_Data Type: xbrli:sharesItemType Balance Type: na Period Type: durationX-DefinitionNumber of new stock issued during the period. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 505-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481004/946-505-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 505-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481004/946-505-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(4\) \(b\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (4) (b))-Publisher FASB-URI https://asc.fasb.org/1943274/2147483575/946-220-S99-3)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-03 \(i\) \(1\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-03 (i) (1))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3)Reference 5: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section>

S99-Paragraph 1-Subparagraph (SX 210. 5-02 (28))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480566/210-10-S99-1>Reference 6: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 3-04\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 3-04)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1)Reference 7: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap\_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- DefinitionThe gross value of stock issued during the period upon the conversion of convertible securities. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org//1943274/2147481112/505-10-50-2>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 946-SubTopic 830-Name Accounting Standards Codification-Section 55-Paragraph 11-Publisher FASB-URI https://asc.fasb.org//1943274/2147480167/946-830-55-11>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 205-Name Accounting Standards Codification-Section 45-Paragraph 4-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480767/946-205-45-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 205-Name Accounting Standards Codification-Section 45-Paragraph 4-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480767/946-205-45-4)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 505-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481004/946-505-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 505-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481004/946-505-50-2)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(4\) \(b\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (4) (b))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3)Reference 6: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(28\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (28))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 7: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 3-04\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 3-04)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1)Reference 8: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_StockIssuedDuringPeriodValueNewIssues Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionValue of forfeited shares issued under share-based payment arrangement. Excludes employee stock ownership plan (ESOP). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph c \(1\)-SubTopic 10-Topic 718-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph c (1)-SubTopic 10-Topic 718-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2)Details Name: us-gaap\_StockIssuedDuringPeriodValueShareBasedCompensationForfeited Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org//1943274/2147481372/852-10-55-10>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 946-SubTopic 830-Name Accounting Standards Codification-Section 55-Paragraph 12-Publisher FASB-URI https://asc.fasb.org//1943274/2147480167/946-830-55-12>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(19\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (19))-Publisher FASB-URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 6-05 \(4\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479617/946-210-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 6-05 (4))-Publisher FASB-URI https://asc.fasb.org//1943274/2147479617/946-210-S99-2)Reference 5: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(4\) \(b\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (4) (b))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(6\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (6))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(7\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (7))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483575/946-220-S99-3)Reference 8: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(g\) \(1\) \(ii\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (g) (1) (ii))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1)Reference 9: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481687/323-10-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org//1943274/2147481687/323-10-50-3)Reference 10: <http://>

[www.xbrl.org/2009/role/commonPracticeRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482907/825-10-50-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482907/825-10-50-28)Reference 11: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(29\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(29))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 12: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(31\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(31))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 13: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(30\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(30))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 14: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SAB Topic 4.E\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480418/310-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SAB Topic 4.E)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480418/310-10-S99-2)Details Name: us-gaap\_StockholdersEquity Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-Definition Number of previously issued common shares repurchased by the issuing entity and held in treasury. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 30-Section 45-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147481549/505-30-45-1>Details Name: us-gaap\_TreasuryStockCommonShares Namespace Prefix: us-gaap\_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant CONSOLIDATED STATEMENTS OF CASH FLOWS-USD (\$) 12 Months Ended Dec. 31, 2023 Dec. 31, 2022 Cash flows from Operating Activities: Net loss \$ (4,384,000) \$ (21,941,000) Adjustments to reconcile net loss to net cash used in operating activities: Depreciation and amortization 345,000 1,903,000 Bad debt (recovery) expense (52,000) 118,000 Non-cash lease expense from right-of-use assets 125,000 349,000 Stock-based compensation 504,000 146,000 Forfeiture of unvested stock options (85,000) Loss (gain) on disposal of assets 3,000 (2,000) Casualty loss on inventory 483,000 Impairment charges-property and equipment 61,000 Impairment charges-intangible assets 259,000 5,133,000 Impairment charges-right-of-use assets 179,000 Impairment charges-goodwill 7,367,000 Changes in assets and liabilities: Accounts receivable 43,000 316,000 Prepaid expenses and other current assets 406,000 432,000 Inventory 484,000 615,000 Other assets 28,000 69,000 Accounts payable 27,000 (75,000) Accrued expenses and other current liabilities (170,000) 115,000 Deferred revenue (392,000) (614,000) Lease liabilities (219,000) (503,000) Net cash used in operating activities (2,993,000) (5,934,000) Cash flows from Investing Activities: Proceeds on sale of equipment 30,000 Purchases of property and equipment (11,000) Net cash provided by investing activities 19,000 Cash flows from Financing Activities: Proceeds from private placement, net of issuance costs 5,364,000 Net proceeds from exercise of common stock warrants 534,000 Net cash provided by financing activities 5,898,000 Net increase (decrease) in cash and cash equivalents 2,905,000 (5,915,000) Cash and restricted cash at beginning of year 3,085,000 9,000,000 Cash and cash equivalents at end of year 5,990,000 3,085,000 Supplemental disclosures of cash flow information: Cash paid during the period for interest 20,000 7,000 Cash paid for income taxes 31,000 Reconciliation of cash and cash equivalents Cash 5,490,000 3,085,000 Current certificates of deposit 500,000 Total cash and cash equivalents 5,990,000 3,085,000 Non-cash investing and financing activities: New operating lease agreement 11,000 Preferred stock dividends 343,000 Warrant modification 25,000 Induced exercise of common stock warrants 751,000 Common stock issued for conversion of Preferred Stock and accrued dividends \$ 209,000 \$ 0X-Definition Forfeiture of Unvested Stock Options References No definition available. Details Name: glow\_ForfeitureOfUnvestedStockOptions Namespace Prefix: glow\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-Definition New Operating Lease Agreement References No definition available. Details Name: glow\_NewOperatingLeaseAgreement Namespace Prefix: glow\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-Definition Stock Issued Conversion Of Preferred Stock References No definition available. Details Name: glow\_StockIssuedConversionOfPreferredStock Namespace Prefix: glow\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-Definition Stock Issued, Share-Based Compensation References No definition available. Details Name: glow\_StockIssuedShareBasedCompensation Namespace Prefix: glow\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-Definition Warrant Modification References No definition available. Details Name: glow\_WarrantModification Namespace Prefix: glow\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-References No definition available. Details Name: us-gaap\_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivities Abstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-Definition Amount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Excludes cash and cash equivalents within disposal group and discontinued operation. References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org//1943274/2147481372/852-10-55-10>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 946-SubTopic 830-Name Accounting Standards Codification-Section 55-Paragraph 12-Publisher FASB-URI https://asc.fasb.org//1943274/2147480167/946-830-55-12>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.7-03\(a\)\(2\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.7-03(a)(2))-Publisher FASB-URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.6-04\(4\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.6-04(4))-Publisher FASB-URI https://asc.fasb.org//1943274/2147479617/946-210-S99-1)Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section 45-Paragraph 21-Publisher FASB-URI https://asc.fasb.org//1943274/2147480555/946-210-45-21>Reference 6: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph>

1-Subparagraph (SX 210.5-02(1))-Publisher FASB-URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>  
Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-NameAccountingStandardsCodification-Section45-Paragraph20-SubTopic210-Topic946-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480555/946-210-45-20>  
Details Name: us-gaap\_Cash Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482913/230-10-50-8>  
Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-24>  
Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph4-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-4>  
Details Name: us-gaap\_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-ReferencesNo definition available. Details Name: us-gaap\_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na-Period Type: durationX-DefinitionAmount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-24>  
Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph1-SubTopic230-Topic830-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481877/830-230-45-1>  
Details Name: us-gaap\_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionThe aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28)  
Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph\(e\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph(e)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22)  
Details Name: us-gaap\_DepreciationDepletionAndAmortization Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of paid and unpaid preferred stock dividends declared with the form of settlement in cash, stock and payment-in-kind (PIK). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1)  
Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph2-SubTopic405-Topic942-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481071/942-405-45-2>  
Details Name: us-gaap\_DividendsPreferredStock Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of gain (loss) on sale or disposal of assets, including but not limited to property plant and equipment, intangible assets and equity in securities of subsidiaries or equity method investee. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28)  
Details Name: us-gaap\_GainLossOnDispositionOfAssets1 Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount of loss from the write-down of an asset representing the future economic benefits arising from other assets acquired in a business combination that are not individually identified and separately recognized. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28)  
Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section55-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482548/350-20-55-24>  
Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(e\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(e)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482573/350-20-50-1)  
Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482573/350-20-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482573/350-20-50-2)  
Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482598/350-20-45-2>  
Details Name: us-gaap\_GoodwillImpairmentLoss Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period

Type: durationX- DefinitionThe amount of impairment loss recognized in the period resulting from the write-down of the carrying amount of a finite-lived intangible asset to fair value. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic-230-SubTopic-10-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(b\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic-230-SubTopic-10-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(b)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic-350-SubTopic-30-Name-Accounting-Standards-Codification-Section-50-Paragraph-3-Subparagraph-\(b\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482665/350-30-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic-350-SubTopic-30-Name-Accounting-Standards-Codification-Section-50-Paragraph-3-Subparagraph-(b)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482665/350-30-50-3) Details Name: us-gaap\_ImpairmentOfIntangibleAssetsFiniteLived Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe aggregate amount of write-downs for impairments recognized during the period for long-lived assets held for use (including those held for disposal by means other than sale). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(b\)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(b)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic-360-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-\(b\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482099/360-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic-360-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-(b)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482099/360-10-50-2)Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-360-SubTopic-10-Section-45-Paragraph-4-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482130/360-10-45-4> Details Name: us-gaap\_ImpairmentOfLongLivedAssetsHeldForUse Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe amount of cash paid during the current period to foreign, federal, state, and local authorities as taxes on income. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-230-SubTopic-10-Section-50-Paragraph-2-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482913/230-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-230-SubTopic-10-Section-45-Paragraph-25-Subparagraph-\(f\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-25](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-230-SubTopic-10-Section-45-Paragraph-25-Subparagraph-(f)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-25) Details Name: us-gaap\_IncomeTaxesPaid Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe increase (decrease) during the reporting period in the aggregate amount of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(a\)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(a)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap\_IncreaseDecreaseInAccountsPayable Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe increase (decrease) during the reporting period in amount due within one year (or one business cycle) from customers for the credit sale of goods and services. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(a\)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(a)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap\_IncreaseDecreaseInAccountsReceivable Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of increase (decrease) in accrued expenses, and obligations classified as other. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic-230-SubTopic-10-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(a\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic-230-SubTopic-10-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(a)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap\_IncreaseDecreaseInAccruedLiabilitiesAndOtherOperatingLiabilities Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of increase (decrease) in obligation to transfer good or service to customer for which consideration has been received or is receivable. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic-912-SubTopic-310-Name-Accounting-Standards-Codification-Section-45-Paragraph-11-Subparagraph-\(b\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482312/912-310-45-11](http://www.xbrl.org/2003/role/disclosureRef-Topic-912-SubTopic-310-Name-Accounting-Standards-Codification-Section-45-Paragraph-11-Subparagraph-(b)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482312/912-310-45-11)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic-230-SubTopic-10-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(a\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic-230-SubTopic-10-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(a)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap\_IncreaseDecreaseInContractWithCustomerLiability Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with underlying transactions that are classified as operating activities. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(a\)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(a)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap\_IncreaseDecreaseInInventories Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap\_IncreaseDecreaseInOperatingCapitalAbstract Namespace Prefix: us-gaap\_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionAmount of increase (decrease) in obligation for operating lease. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic-230-SubTopic-10-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(a\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic-230-SubTopic-10-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(a)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Name-Accounting-Standards-Codification-Section-50-Paragraph-4-Subparagraph-\(g\)-\(1\)-SubTopic-20-Topic-842-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147478964/842-20-50-4](http://www.xbrl.org/2009/role/commonPracticeRef-Name-Accounting-Standards-Codification-Section-50-Paragraph-4-Subparagraph-(g)-(1)-SubTopic-20-Topic-842-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147478964/842-20-50-4) Details Name: us-gaap\_IncreaseDecreaseInOperatingLeaseLiability Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of increase (decrease) in operating assets classified as other. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(a\)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(a)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-

gaap\_IncreaseDecreaseInOtherOperatingAssets Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount of increase (decrease) in prepaid expenses, and assets classified as other. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(a\)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (a)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap\_IncreaseDecreaseInPrepaidDeferredExpenseAndOtherAssets Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount of cash paid for interest, excluding capitalized interest, classified as operating activity. Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 17-Subparagraph \(d\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-17](http://www.xbrl.org/2003/role/disclosureRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 17-Subparagraph (d)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-17)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-25](http://www.xbrl.org/2003/role/disclosureRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-25)Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147482913/230-10-50-2> Details Name: us-gaap\_InterestPaidNet Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount of loss from reductions in inventory due to subsequent measurement adjustments, including, but not limited to, physical deterioration, obsolescence, or changes in price levels. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 330-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147483080/330-10-50-2> Details Name: us-gaap\_InventoryWriteDown Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 24-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-24> Details Name: us-gaap\_NetCashProvidedByUsedInFinancingActivities Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap\_NetCashProvidedByUsedInFinancingActivitiesAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 24-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-24> Details Name: us-gaap\_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap\_NetCashProvidedByUsedInInvestingActivitiesAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 24-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-24>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-25> Details Name: us-gaap\_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: na Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap\_NetCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.4-08 \(g\) \(1\) \(ii\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.4-08 (g) (1) (ii))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2003/role/disclosureRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482765/220-10-50-6>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(b\) \(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (b) (2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-3)

org//1943274/2147483443/250-10-50-1Reference 7:

10-Name Accounting Standards Codification-Section 45-Paragraph 28-Publisher FASB-URI <https://asc.fasb.org//1943274/2147482740/230-10-45-28>Reference 36: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482790/220-10-45-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482790/220-10-45-1A)Reference 37: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482790/220-10-45-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482790/220-10-45-1B)Reference 38: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 5-03 \(20\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 5-03 (20))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2)Reference 39: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 9-04 \(22\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483589/942-220-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 9-04 (22))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483589/942-220-S99-1)Details Name: us-gaap\_NetIncomeLoss Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap\_NonecashInvestingAndFinancingItemsAbstract Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX-DefinitionAmount of loss from impairment of right-of-use asset from operating lease. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 25-Paragraph 6-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479365/842-20-25-6](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 25-Paragraph 6-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479365/842-20-25-6)Details Name: us-gaap\_OperatingLeaseImpairmentLoss Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of periodic reduction over lease term of carrying amount of right-of-use asset from operating lease. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-28)Details Name: us-gaap\_OperatingLeaseRightOfUseAssetAmortizationExpense Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-DefinitionThe cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 13-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-13](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 13-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-13)Details Name: us-gaap\_PaymentsToAcquirePropertyPlantAndEquipment Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX-DefinitionThe cash inflow associated with the amount received from entity's raising of capital via private rather than public placement. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 14-Subparagraph \(a\)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-14](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 14-Subparagraph (a)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-14)Details Name: us-gaap\_ProceedsFromIssuanceOfPrivatePlacement Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-DefinitionThe cash inflow from sale of machinery and equipment. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 12-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-12](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 12-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-12)Details Name: us-gaap\_ProceedsFromSaleOfMachineryAndEquipment Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-DefinitionThe cash inflow associated with the amount received from holders exercising their stock warrants. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 14-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-14](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 14-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-14)Details Name: us-gaap\_ProceedsFromWarrantExercises Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of expense (reversal of expense) for expected credit loss on accounts receivable. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 326-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 13-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479319/326-20-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic 326-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 13-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479319/326-20-50-13)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 5-03 \(5\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 5-03 (5))-Publisher FASB-URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2)Details Name: us-gaap\_ProvisionForDoubtfulAccounts Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of cash restricted as to withdrawal or usage, classified as current. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(1\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (1))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 8-Publisher FASB-URI https://asc.fasb.org//1943274/2147482913/230-10-50-8>Details Name: us-gaap\_RestrictedCashCurrent Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount of noncash expense for share-based payment arrangement. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(a\)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (a)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-28)Details Name: us-gaap\_ShareBasedCompensation Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap\_SupplementalCashFlowInformationAbstract Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: durationBusiness Description and Significant Accounting Policies 12 Months Ended Dec. 31,

2023 Organization, Consolidation and Presentation of Financial Statements [ Abstract ] Business Description and Significant Accounting Policies Business Description and Significant Accounting Policies Business Description Oblong, Inc. (“Oblong” or “we” or “us” or the “Company”) was formed as a Delaware corporation in May 2000 and is a provider of patented multi-stream collaboration technologies and managed services for video collaboration and network applications. Prior to March 6, 2020, Oblong, Inc. was named Glowpoint, Inc. (“Glowpoint”). On March 6, 2020, Glowpoint changed its name to Oblong, Inc.

**Principles of Consolidation**The Consolidated Financial Statements include the accounts of Oblong and our 100%-owned subsidiaries (i) GP Communications, LLC (“GP Communications”), whose business function is to provide interstate telecommunications services for regulatory purposes, and (ii) Oblong Industries, Inc. All inter-company balances and transactions have been eliminated in consolidation. The U. S. Dollar is the functional currency for all subsidiaries. During 2022, the Company ceased operations through Oblong Industries’ 100%-owned subsidiary Oblong Europe Limited, and combined the operations into Oblong Industries, Inc. There was no activity for this subsidiary in 2022 or 2023 and Oblong Europe, Limited remains in liquidation. Segments Effective October 1, 2019, the former businesses of Glowpoint (now Oblong, Inc.) and Oblong Industries have been managed separately, and involve different products and services. Accordingly, the Company currently operates in two segments for purposes of segment reporting: (1) “Collaboration Products” which represents the Oblong Industries business surrounding our Mezzanine™ product offerings and (2) “Managed Services” which represents the Oblong (formerly Glowpoint) business surrounding managed services for video collaboration and network solutions. See Note 13–Segment Reporting for further discussion.

**Use of Estimates**Preparation of the Consolidated Financial Statements in conformity with U. S. generally accepted accounting principles (“U. S. GAAP”) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the Consolidated Financial Statements and the reported amounts of revenues and expenses during the reporting period. Actual amounts could differ from the estimates made. We continually evaluate estimates used in the preparation of our Consolidated Financial Statements for reasonableness. Appropriate adjustments, if any, to the estimates used are made prospectively based upon such periodic evaluation. The significant areas of estimation include determining the estimated credit losses and the inputs used in the fair value of equity based awards.

**Cash and Cash Equivalents**As of December 31, 2023, our total cash balance of \$ 5, 990, 000 is available, however, of this balance \$ 500, 000 was held in short-term certificates of deposit with MidFirst Bank. As of December 31, 2022, our total cash balance of \$ 3, 085, 000 was available. The Company considers highly liquid investments with original maturities of three months or less to be cash equivalents.

**Accounts Receivable and Provision for Estimated Credit Losses**Accounts receivable are customer obligations due under normal trade terms. The Company sells its Managed Services products to end-users, and its Collaboration Products to both resell partners and end-users. The Company extends credit to its customers based on their credit worthiness and on historical data, and performs ongoing credit evaluations of our customers’ financial condition. The Company maintains an allowance for estimated credit losses, related to accounts receivable, for future expected bad debt resulting from the inability or unwillingness of our customers to make required payments. We estimate our allowance for estimated credit losses based on relevant information such as historical experience, current economic conditions, and future expectations of specifically identified customer balances. This allowance is adjusted as appropriate to reflect current conditions. After all attempts to collect a receivable have failed, the receivable is written off against the allowance. We do not obtain collateral from our customers to secure accounts receivable. Net accounts receivable consisted of the following: As of December 31, 2023 2022 Accounts receivable \$ 577, 000 \$ 624, 000 Allowance for estimated credit losses (153, 000) (209, 000) Accounts receivable, net \$ 424, 000 \$ 415, 000 During the years ended December 31, 2023 and 2022, the Company recorded bad debt recovery of \$ 52, 000 and bad debt expense of \$ 118, 000, respectively. As of December 31, 2021, accounts receivable and the allowance for doubtful accounts were \$ 949, 000 and \$ 100, 000, respectively.

**Inventory**Inventory consists of finished goods and was determined using average costs and was stated at the lower of cost or net realizable value. The Company periodically performs analyses to identify obsolete or slow-moving inventory.

**Fair Value of Financial Instruments**The Company considers its cash and cash equivalents, accounts receivable, accounts payable and lease obligations to meet the definition of financial instruments. The carrying amount of cash and cash equivalents, accounts receivable and accounts payable approximated their fair value due to the short maturities of these instruments. The carrying amounts of our lease obligations (see Note 8–Operating Lease Liabilities and Right-of-Use Assets) approximated their fair values, which were based on borrowing rates that were available to the Company for loans with similar terms, collateral, and maturity. The Company measures fair value as required by Accounting Standards Codification (“ASC”) Topic 820 “Fair Value Measurements and Disclosures” (“ASC Topic 820”). ASC Topic 820 defines fair value, establishes a framework and gives guidance regarding the methods used for measuring fair value, and expands disclosures about fair value measurements. ASC Topic 820 clarifies that fair value is an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or liability. As a basis for considering such assumptions, there exists a three-tier fair value hierarchy, which prioritizes the inputs used in measuring fair value as follows: • Level 1–unadjusted quoted prices in active markets for identical assets or liabilities that the Company has the ability to access as of the measurement date. • Level 2–inputs other than quoted prices included within Level 1 that are directly observable for the asset or liability or indirectly observable through corroboration with observable market data. • Level 3–unobservable inputs for the asset or liability only used when there is little, if any, market activity for the asset or liability at the measurement date. This hierarchy requires the Company to use observable market data, when available, and to minimize the use of unobservable inputs when determining fair value.

**Revenue Recognition**The Company accounts for revenue in accordance with Accounting Standards Codification (“ASC”) Topic 606. The Company recognizes revenue using the five-step model as prescribed by Topic 606: • Identification of the contract, or contracts, with a customer; • Identification of the distinct performance obligations in the contract; • Determination of the transaction price; • Allocation of the transaction price to the performance obligations in the contract; and •

Recognition of revenue when or as the Company satisfies a performance obligation. The Company's managed videoconferencing services are offered to our customers on either a usage basis or on a subscription. Our network services are offered to our customers on a subscription basis. Revenue for these services is generally recognized on a monthly basis as services are performed. Revenue related to professional services is recognized at the time the services are performed. The costs associated with obtaining a customer contract were previously expensed in the period they were incurred. Under Topic 606, these payments are deferred on our consolidated balance sheets and amortized over the expected life of the customer contract. As of December 31, 2023 there was no deferred revenue related to Managed Services. During the year ended December 31, 2023, the Company recorded \$ 1, 000 of revenue that was included in deferred revenue as of December 31, 2022. During the year ended December 31, 2022, the Company recorded \$ 7, 000 of revenue that was included in deferred revenue as of December 31, 2021. The Company's visual collaboration products are composed of hardware and embedded software sold as a complete package, and generally include installation and maintenance services. Revenue for hardware and software is recognized upon shipment to the customer. Installation revenue is recognized upon completion of installation, which also triggers the beginning of recognition of revenue for maintenance services which range from one to three years. Revenue is recognized over time for maintenance services. Licensing agreements are for the Company's core technology platform, g-speak, and are generally one year in length. Revenue for these services is recognized ratably over the service period. Deferred revenue, as of December 31, 2023, totaled \$ 158, 000 as certain performance obligations were not satisfied as of this date. During the year ended December 31, 2023, the Company recorded \$ 435, 000 of revenue that was included in deferred revenue as of December 31, 2022. During the year ended December 31, 2022, the Company recorded \$ 776, 000 of revenue that was included in deferred revenue as of December 31, 2021. Revenue recorded over time for the years ended December 31, 2023 and 2022 was \$ 516, 000 and \$ 970, 000, respectively. Revenue recorded at a period in time for the years ended December 31, 2023 and 2022 was \$ 3, 294, 000 and \$ 4, 506, 000, respectively. The Company disaggregates its revenue by geographic region. See Note 13- Segment Reporting for more information. Taxes Billed to Customers and Remitted to Taxing Authorities We recognize taxes billed to customers in revenue and taxes remitted to taxing authorities in our cost of revenue. For the years ended December 31, 2023 and 2022, we included taxes of \$ 95, 000 and \$ 207, 000, respectively, in revenue and we included taxes of \$ 101, 000 and \$ 217, 000, respectively, in cost of revenue. Long-Lived Assets, Goodwill, and Intangible Assets Property and Equipment Property and equipment are accounted for in accordance with ASC Topic 360 "Property, Plant, and Equipment" ("ASC Topic 360"), stated at cost, and are depreciated using the straight-line method over the estimated economic lives of the assets, which range from three to ten years. Leasehold improvements are amortized over the shorter of either the asset's useful life or the related lease term. Depreciation is computed on the straight-line method for financial reporting purposes. Property and equipment assets, net of accumulated depreciation, totaled zero and \$ 3, 000 as of December 31, 2023 and 2022, respectively. Intangible Assets Intangible assets are accounted for in accordance with ASC Topic 350 "Intangibles-Goodwill and Other" ("ASC Topic 350"), and intangible assets with finite lives are amortized using the straight-line method over the estimated economic lives of the assets, which initially ranged from five to twelve years. Intangible assets, net of accumulated amortization totaled zero and \$ 604, 000 as of December 31, 2023 and 2022, respectively. Operating Lease Right-of-use assets Right-of-use Assets are accounted for in accordance with ASC Topic 842 "Leases" ("ASC Topic 842"), and are amortized using a straight-line method over the estimated life of the lease. Right-of-use assets, net totaled \$ 17, 000 and \$ 142, 000, as of December 31, 2023 and 2022, respectively. As of the date of this filing, the Company had no right-of-use assets remaining. The Company has primarily leased facilities for office and warehouse space under non-cancellable operating leases for its U. S. locations, and accounts for these leases in accordance with ASC- 842. Operating lease right-of-use assets and liabilities are recognized at commencement date based on the present value of lease payments over the expected lease term. Right-of-use assets represent our right to use an underlying asset for the lease term and lease liabilities represent our obligation to make lease payments arising from the lease. Since our lease arrangements do not provide an implicit rate, we use our estimated incremental borrowing rate for the expected remaining lease term at commencement date in determining the present value of future lease payments. Impairment The Company assesses the impairment of our long-lived assets subject to amortization when events and circumstances indicate that the carrying value of the assets might not be recoverable. The determination of related estimated useful lives and whether or not these assets are impaired involves significant judgments, related primarily to the future profitability and /or future value of the assets. Changes in the Company's strategic plan and /or other-than-temporary changes in market conditions could significantly impact these judgments and could require adjustments to recorded asset balances. Long-lived assets are evaluated for impairment whenever an event or change in circumstances has occurred that could have a significant adverse effect on the fair value of long-lived assets. During the year ended December 31, 2023, we considered the declines in revenue for the Collaboration Products reporting segment and the decline in the Company's market capitalization to be triggering events for an impairment test of our long-lived and intangible assets for this reporting unit. Based on the corresponding recoverability tests of the asset group for this reporting unit, it was determined that the carrying value exceeded the gross cash flows of the asset group. The recoverability tests consisted of comparing the estimated undiscounted cash flows expected to be generated by those assets to the respective carrying amounts, and involves significant judgements and assumptions, related primarily to the future revenue and profitability of the assets. For the year ended December 31, 2023, the Company disposed of property and equipment assets with a net value of \$ 3, 000. See Note 5- Property and Equipment for further discussion. During the year ended December 31, 2022, the Company recorded impairment charges of \$ 61, 000 on property and equipment assets. For the year ended December 31, 2023, the Company recorded impairment charges of \$ 259, 000 on purchased intangible assets, as a result of these impairment charges there are no intangible assets reported on our Consolidated Balance Sheet as of December 31, 2023. See Note 6- Intangible Assets and Goodwill for further discussion. The Company recorded impairment Charges of \$ 5, 133, 000 to purchased intangible assets for the year ended December 31, 2022. During the year ended December 31, 2022, we recorded impairment charges of \$ 7, 367, 000 on goodwill. As a result of

these impairment charges, there was no goodwill reported on our Consolidated Balance Sheets as of December 31, 2023 or December 31, 2022. Right-of-use assets are tested for impairment using guidance from ASC Topic 360. For the year ended December 31, 2022, the Company recorded aggregate impairment charges of \$ 179, 000 on two right-of-use assets. There were no right-of-use asset impairments for the year ended December 31, 2023. Operating Leases Operating leases are accounted for in accordance with ASC Topic 842 “Leases” (“ASC Topic 842”), and the liabilities are amortized using a straight-line method over the estimated life of the lease. The remaining operating lease liability as of December 31, 2023 and 2022 was \$ 17, 000 and \$ 236, 000, respectively. As of the date of this filing, the Company had no lease liability remaining. See Note 8- Operating Lease Liabilities and Right-of-Use Assets for further discussion. Operating lease expense is recognized on a straight-line basis over the lease term. Variable lease payments are not included in the lease payments to measure the lease liability and are expensed as incurred. Historically, the Company’s leases have had terms of 6 months to five years and some of the leases included a Company option to extend the lease term for less than twelve months to five years, or more, which if reasonably certain to exercise, the Company includes in the determination of lease payments. The lease agreements did not contain any material residual value guarantees or material restrictive covenants. Leases with an initial term of 12 months or less, with the exception of leases for real property, are not recognized on the balance sheet and the expense for these short-term leases is recognized on a straight-line basis over the lease term. Common area maintenance fees (or CAMs) and other charges related to leases are expensed as incurred. Concentration of Credit Risk Financial instruments that potentially subject us to significant concentrations of credit risk consist principally of cash and trade accounts receivable. We place our cash needed for operations in commercial checking accounts, and the majority of our cash is held in a money market fund. Commercial bank balances may from time to time exceed federal insurance limits. Deposits are insured by the Federal Deposit Insurance Corporation (the “FDIC”) in an amount up to \$ 250, 000 for any depositor, any deposit in excess of this insured amount could be lost. Income Taxes We use the asset and liability method to determine our income tax expense or benefit. Deferred tax assets and liabilities are computed based on temporary differences between the financial reporting and tax bases of assets and liabilities and are measured using the enacted tax rates that are expected to be in effect when the differences are expected to be recovered or settled. Any resulting net deferred tax assets are evaluated for recoverability and, accordingly, a valuation allowance is provided when it is more likely than not that all or some portion of the deferred tax asset will not be realized. Stock-based Compensation Stock-based awards have been accounted for as required by ASC Topic 718 “Compensation—Stock Compensation” (“ASC Topic 718”). Under ASC Topic 718 stock-based awards are valued at fair value on the date of grant, and that fair value is recognized over the requisite service period. The Company accounts for forfeitures when they occur. Research and Development Research and development expenses include internal and external costs related to developing new service offerings and features and enhancements to our existing product offerings. Treasury Stock Purchases and sales of treasury stock are accounted for using the cost method. Under this method, shares acquired are recorded at the acquisition price directly to the treasury stock account. Upon sale, the treasury stock account is reduced by the original acquisition price of the shares and any difference is recorded in additional paid in capital, on a first-in-first-out basis. The Company does not recognize a gain or loss to income from the purchase and sale of treasury stock. Casualty Loss In June 2022, the Company discovered that \$ 533, 000 of inventory was stolen from the Company’s warehouse in City of Industry, California. During 2022 and 2023, we received recovery payments from our insurance policies of \$ 50, 000 and \$ 400, 000, respectively, resulting in a net casualty loss of \$ 483, 000 on our Consolidated Statements of Operations for the year ended December 31, 2022 and a casualty gain of \$ 400, 000 on our Consolidated Statements of Operations for the year ended December 31, 2023. We do not expect any further recovery of the loss. Recent Accounting Pronouncements Recently Adopted Accounting Pronouncements There are no new accounting pronouncements that are expected to have a significant impact on financial statements. In June 2016 the FASB issued ASU 2016-13, “Financial Instruments—Credit Losses (Topic 326),” which was subsequently amended in February 2020 by ASU 2020-02, “Financial Instruments—Credit Losses (Topic 326) and Leases (Topic 842).” The amendments introduce an impairment model that is based on expected credit losses, rather than incurred losses, to estimate credit losses on certain types of financial instruments (e. g., loans and held-to-maturity securities), including certain off-balance sheet financial instruments (e. g., loan commitments). The expected credit losses should consider historical information, current information, and reasonable and supportable forecasts, including estimates of prepayments, over the contractual term. Financial instruments with similar risk characteristics may be grouped together when estimating expected credit losses. The update is effective for fiscal years beginning after December 15, 2022, including interim periods within those fiscal years. The Company adopted the new guidance, as of January 1, 2023, and it did not have a material impact on the Consolidated Financial Statements. Recently Issued Accounting Pronouncements In November 2023, the FASB issued ASU No. 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The new guidance is intended to improve reportable segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. The amendments are effective retrospectively for fiscal years beginning after December 15, 2023 and interim periods within fiscal years beginning after December 15, 2024. The Company is in the process of evaluating the impact that the adoption of this ASU will have to the financial statements and related disclosures, which is not expected to be material. In December 2023, the FASB issued ASU No. 2023-09, Improvements to Tax Disclosures (Topic 740), to enhance the transparency and decision usefulness of income tax disclosures through changes to the rate reconciliation and income taxes paid information. This guidance is effective for fiscal years beginning after December 15, 2024, with early adoption permitted. The Company is evaluating the impact of adopting this new accounting guidance on its Consolidated Financial Statements. X-References No definition available. Details Name: us-gaap-OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract-namespace Prefix: us-gaap-Data Type: xbrli:stringItemType Balance Type: na-Period Type: durationX-Definition The entire disclosure for all significant accounting policies of the reporting entity. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic-235-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-1-Publisher-FASB-URI-https://asc.fasb.org/>



definition available. Details Name: us-gaap\_PropertyPlantAndEquipmentAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionThe entire disclosure for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 360-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org//360/tableOfContent>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 6-SubTopic 360-Topic 958-Publisher FASB-URI https://asc.fasb.org//1943274/2147480321/958-360-50-6>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(d\)-SubTopic 360-Topic 958-Publisher FASB-URI https://asc.fasb.org//1943274/2147480321/958-360-50-1](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (d)-SubTopic 360-Topic 958-Publisher FASB-URI https://asc.fasb.org//1943274/2147480321/958-360-50-1)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 7-SubTopic 360-Topic 958-Publisher FASB-URI https://asc.fasb.org//1943274/2147480321/958-360-50-7> Details Name: us-gaap\_PropertyPlantAndEquipmentDisclosureTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationIntangible Assets and Goodwill 12 Months Ended Dec. 31, 2023 Goodwill and Intangible Assets Disclosure [ Abstract ] Intangible Assets and Goodwill Intangible Assets and Goodwill Intangible AssetsThe following table presents the components of net intangible assets (in thousands): December 31, 20232022Developed technology \$ 486 Trade names 204 Total intangible assets 690 Accumulated amortization (86) Intangible assets, net \$ 604 At each reporting period, we determine if there was a triggering event that may result in an impairment of our intangible assets. Collaboration Products Reportable SegmentDuring the year ended December 31, 2023, we considered the declines in revenue for the Collaboration Products reporting segment and the decline in the Company's market capitalization to be triggering events for an impairment test of intangible assets for this segment. Based on the corresponding recoverability tests of the asset group for this segment, it was determined that the carrying value exceeded the gross cash flows of the asset group. The recoverability test consisted of comparing the estimated undiscounted cash flows expected to be generated by those assets to the respective carrying amounts, and involves significant judgments and assumptions, related primarily to the future revenue and profitability of the assets. Based on the fair value of the asset group, which was determined using a market approach, we recorded impairment charges of \$ 259,000 for the year ended December 31, 2023, writing down our intangible assets to zero as of December 31, 2023. During the year ended December 31, 2022, we recorded impairment charges of \$ 5,133,000 on intangible assets. Historically, intangible assets with finite lives were amortized using the straight-line method over the estimated economic lives of the assets, which ranged from five years to twelve years in accordance with ASC Topic 350. Related amortization expense was \$ 345,000 and \$ 1,825,000 for the years ended December 31, 2023 and 2022, respectively. GoodwillDuring 2022, goodwill was written down to zero with impairment charges of \$ 7,367,000. X-ReferencesNo definition available. Details Name: us-gaap\_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionThe entire disclosure for all or part of the information related to intangible assets. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org//350-30/tableOfContent> Details Name: us-gaap\_IntangibleAssetsDisclosureTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationAccrued Expenses and Other Current Liabilities 12 Months Ended Dec. 31, 2023 Payables and Accruals [ Abstract ] Accrued Expenses and Other Current Liabilities Accrued Expenses and Other Current Liabilities Accrued expenses and other current liabilities consisted of the following (in thousands): December 31, 20232022Compensation costs \$ 448 \$ 707 Customer deposits 118 128 Professional fees 104 57 Taxes and regulatory fees 22 59 Accrued rent 202 — Accrued dividends on Series F Preferred Stock 136 — Other accrued expenses and liabilities 8 123 \$ 1,038 \$ 1,074 X-DefinitionThe entire disclosure for accounts payable and accrued liabilities at the end of the reporting period. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02.19\(a\), 20, 24\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph (SX 210.5-02.19(a), 20, 24)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Details Name: us-gaap\_AccountsPayableAndAccruedLiabilitiesDisclosureTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap\_PayablesAndAccrualsAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationOperating Lease Liabilities and Right-of-Use Assets 12 Months Ended Dec. 31, 2023 Leases [ Abstract ] Operating Lease Liabilities and Right-of-Use Assets Operating Lease Liabilities and Right-of-Use Assets As of December 31, 2023, we leased one facility in City of Industry, California, providing warehouse space. This lease expired in February 2024. During 2023, and through the date of this filing, we exited office space leases Austin, Texas and Los Angeles, California as well as the warehouse lease in City of Industry, CA. Lease expenses, net of common charges, for the years ended December 31, 2023 and 2022 were \$ 214,000 and \$ 502,000, respectively. Sublet proceeds for the years ended December 31, 2023 and 2022 were zero and \$ 140,000, respectively. The following provides balance sheet information related to leases as of December 31, 2023 and 2022 (in thousands): December 31, 20232022AssetsOperating lease, right-of-use asset, net \$ 17 \$ 142 LiabilitiesCurrent portion of operating lease liabilities \$ 17 \$ 219 Operating lease liabilities, net of current portion — 17 Total operating lease liabilities \$ 17 \$ 236 The following table summarizes the future undiscounted cash payments reconciled to the lease liability (in thousands): Total lease payments remaining in 2024 \$ 17 Effect of discounting (1) — Total lease liability 17 Less: current portion of lease liabilities 17 Operating lease liabilities, net of current portion \$ — (1) The effect of discounting is less than \$ 1,000 due to the term remaining on the lease. The following table provides a reconciliation of activity for our right-of-use ("ROU") assets and lease liabilities (in thousands): Right-of-Use Asset Operating Lease Liability Balance at December 31, 2021 \$ 659 \$ 728 Additions 11 11 Amortizations and Reductions (349) (503) Impairment Charges (179) Balance at December 31, 2022 142 236 Amortizations and Reductions (125) (219) Balance at December 31, 2023 \$ 17 \$ 17 The ROU assets and lease

liabilities are recorded on the Company's consolidated balance sheets as of December 31, 2023 and December 31, 2022. In February 2023, we exited a property in Austin, Texas and in May 2023 we exited three properties in Los Angeles, California. In February 2024, the Company exited its City of Industry, California lease upon expiration. We are currently in the process of securing a warehouse facility in, or around, Denver, CO. During the interim, our inventory is being stored in a secured third party location. We currently operate out of remote employment sites with a remote office located at 110 16th Street, Suite 1400-1024, Denver, CO 80202. X-ReferencesNo definition available. Details Name: us-gaap\_LeasesAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionThe entire disclosure for operating leases of lessee. Includes, but is not limited to, description of operating lease and maturity analysis of operating lease liability. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org//842-20/tableOfContent> Details Name: us-gaap\_LesseeOperatingLeasesTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationCapital Stock 12 Months Ended Dec. 31, 2023 Equity [ Abstract ] Capital Stock Capital Stock Common StockThe Company's common stock, par value \$ 0.0001 per share (the "Common Stock"), is listed on the Nasdaq Capital Market ("Nasdaq"). As of December 31, 2023 we had 150,000,000 shares of Common Stock authorized, with 16,692,124 and 16,684,571 shares issued and outstanding, respectively. On January 3, 2023, the Company effected a 1-for-15 reverse stock split of its Common Stock. All Common Stock share information (including treasury share information) in our Consolidated Financial Statements has been adjusted for this stock split retrospectively for all periods represented herein. On April 18, 2023, the Company issued 339,498 shares of Common Stock in relation to certain warrant exercises discussed below, and 177,564 shares of Common Stock related to vested restricted stock units discussed in Note 11-Stock Based Compensation. On May 28, 2023, in relation to the departure of certain directors, 42 restricted stock awards and 1,929 restricted stock units became fully vested and 1,971 shares of the Company's Common Stock were issued. See Note 11-Stock Based Compensation for further detail. During the year ended December 31, 2023, 4,620 shares of Series F Preferred Stock, plus accrued dividends, were converted to 14,102,477 shares of the Company's Common Stock, respectively. See Note 10-Preferred Stock, for further detail. On June 30, 2023, the Company entered into an exchange agreement (the "Exchange Agreement") with entities affiliated with Foundry Group (the "Exchanging Stockholders"), pursuant to which the Company exchanged an aggregate of 406,776 shares of the Company's Common Stock owned by the Exchanging Stockholders for pre-funded warrants (the "Exchange Warrants") to purchase an aggregate of 407,000 shares of Common Stock (subject to adjustment in the event of stock splits, recapitalizations and other similar events affecting Common Stock), with an exercise price of \$ 0.0001 per share. The Exchange Warrants were exercisable at any time, except that the Exchange Warrants were not exercisable by the Exchanging Stockholders if, upon giving effect or immediately prior thereto, the Exchanging Stockholders would beneficially own more than 4.99% of the total number of issued and outstanding Common Stock, which percentage may change at the holders' election to any other number less than or equal to 19.99% upon 61 days' notice to the Company. The holders of the Exchange Warrants did not have the right to vote on any matter except to the extent required by Delaware law. The shares were exchanged in July 2023, and the returned shares were added back to the authorized and unissued share balance of the Company. On November 15, 2023, all the Exchange Warrants were exercised resulting in 407,000 shares of Common Stock being issued. There was no Common Stock activity during the year ended December 31, 2022. The following table provides a summary of Common Stock activity for the year ended December 31, 2023: Issued Shares as of December 31, 2022 and 20212,070,861 Issuances from Preferred Stock conversions14,102,477 Issuances related to warrants746,027 Issuances related to stock compensation179,535 Common shares exchanged for prefunded warrants (406,776) Issued Shares as of December 31, 202316,692,124 Less Treasury Shares: 7,553 Outstanding Shares as of December 31, 202316,684,571 Common Stock WarrantsOn January 3, 2023, the Company and all the holders of the Series A Warrants agreed to amend the terms of the Series A Warrants, issued on June 28, 2021, to extend the termination date from January 4, 2023 to January 4, 2024. All other terms of the Series A Warrants remain in full force and effect. The modification resulted in an incremental value adjustment, and deemed dividend, of \$ 25,000, which was recorded within additional paid-in capital during the three months ended March 31, 2023. On March 30, 2023, the Company entered into a Securities Purchase Agreement (the "Purchase Agreement") with certain accredited investors (the "Investors"), pursuant to which we issued and sold, in a private placement (the "Private Placement") (i) 6,550 shares of our newly designated Series F Preferred Stock, \$ 0.0001 par value per share (the "Series F Preferred Stock"), (ii) preferred warrants (the "Preferred Warrants") to acquire 32,750 shares of Series F Preferred Stock, and (iii) common warrants ("Common Warrants" and with the Preferred Warrants the "Investor Warrants") to acquire up to 3,830,417 shares of Common Stock. Please refer to Note 10-Preferred Stock for further discussion on the Series F Preferred Stock and Preferred Warrants. In connection with the Private Placement, pursuant to an engagement letter dated March 30, 2023, between the Company and Dawson James Securities, Inc. (the "Placement Agent"), the Company agreed to (i) pay the Placement Agent a cash fee equal to 8% of the aggregate gross proceeds raised in the Private Placement, and (ii) grant to the Placement Agent warrants (the "Placement Agent Warrants") to purchase 306,433 shares of Common Stock. On March 31, 2023, the Company issued the Common Warrants and the Placement Agent Warrants to purchase an aggregate of 4,136,850 shares of the Company's Common Stock. The Common Warrants and Placement Agent Warrants have a term of 5 years, commencing six months and one day from the date of issuance, and are initially exercisable for \$ 1.71 per share. The exercise price is subject to customary adjustments for stock splits, stock dividends, stock combination, recapitalization, or other similar transactions involving the Common Stock, and subject to price-based adjustment, on a full ratchet basis, in the event of any issuances of Common Stock, or securities convertible, exercisable or exchangeable for Common Stock, at a price below the then-applicable exercise price for the Common Warrants (subject to certain exceptions). The Common Warrants and Placement Agent Warrants are exercisable for cash, provided that if there is no effective registration statement available permitting the resale of the common shares, they may be exercised on a cashless basis. Exercise of the Common Warrants and Placement Agent Warrants is

subject to certain limitations, including a 4.99% beneficial ownership limitation. The fair value of the warrants was recorded within additional paid-in capital during the three months ended March 31, 2023. On April 18, 2023, the Company entered into warrant exercise inducement offer letters with certain holders of outstanding warrants to purchase shares of the Company's common stock originally issued on October 21, 2020, December 6, 2020, and June 28, 2021, (such holders the "Exercising Holders" and such warrants the "Existing Warrants") pursuant to which the Exercising Holders agreed to exercise, for cash, Existing Warrants to purchase, in the aggregate, 339,498 shares of the Company's Common Stock (the "Existing Warrant Shares"), in exchange for the Company's agreement to lower the exercise price of the Existing Warrants to \$ 1.71. The Company received net proceeds of \$ 534,000 from the exercise of the Existing Warrants in April 2023 (net of \$ 46,000 of financing costs). The inducement resulted in an incremental value adjustment, and deemed dividend, of \$ 751,000, which was recorded within additional paid-in capital during the three months ended June 30, 2023. Following this transaction, 667,1,934, and 1,000 warrants remained outstanding of the warrants issued on October 21, 2020, December 6, 2020, and June 28, 2021, respectively. On April 23, 2023, the 667 unexercised warrants issued on October 21, 2020 expired. On June 7, 2023, the 1,934 unexercised warrants issued on December 6, 2020 expired. On October 6, 2023, the Company and Investors holding a majority of the outstanding shares of the Preferred Stock agreed to waive any and all provisions, terms, covenants and obligations in the Certificate of Designations or Common Warrants to the extent such provisions permit the conversion or exercise of the Preferred Stock and the Common Warrants, respectively, to occur at a price below \$ 0.2792. Notwithstanding anything to the contrary in the Common Warrants, the "Exercise Price" as set forth in the Common Warrant shall in no event be less than \$ 0.2792 (as adjusted for stock splits, stock dividends, stock combinations, recapitalizations and similar events). Warrants outstanding as of December 31, 2023 are as follows:

Issue Date	Warrants Issued	Exercise Price	Expiration Date
June 30, 2021	Series A	* 250	\$ 60.00
January 4, 2024	June 30, 2021	Series B	750 \$ 66.00
June 28, 2024	Investor Common Warrants	3,830,417	\$ 1.71
September 30, 2028	Placement Agent Warrants	306,433	\$ 1.71
September 30, 2028	284,137,850	*	The Series A warrant's expiration date has been updated to reflect the extension described above that occurred on January 3, 2023, and as of the date of this filing, the remaining Series A Warrants have expired. Warrant activity for the years ended December 31, 2023 and 2022 is presented below:

Outstanding	Number of Warrants	Weighted Average Exercise Price	Warrants outstanding and exercisable, December 31,
2021	1343,099	\$ 995.06	Warrants outstanding and exercisable, December 31, 2022
2022	2343,099	66.34	Granted
2023	4,543,626	1.71	Exercised (746,027)
2024	0.78	Expired (2,601)	76.93
2025	247	Forfeited (247)	—
2026	137,850	\$ 1.73	Treasury Shares

The Company maintains Treasury Stock for the Common Stock shares bought back by the Company when they withhold shares to cover taxes on stock compensation transactions. There were no treasury stock transactions during the years ended December 31, 2023 and 2022, and the treasury shares outstanding were 7,553 as of December 31, 2023 and 2022.

X-References No definition available. Details Name: us-gaap-EquityAbstract-namespace Prefix: us-gaap-Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-Definition The entire disclosure for equity. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-13-Subparagraph-\(b\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-13-Subparagraph-(b)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-13) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-13-Subparagraph-\(h\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-13-Subparagraph-(h)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-13) Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-14-Subparagraph-\(b\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-14](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-14-Subparagraph-(b)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-14) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic-946-SubTopic-235-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-\(a\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481062/946-235-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic-946-SubTopic-235-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-(a)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481062/946-235-50-2) Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic-946-SubTopic-235-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-\(d\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481062/946-235-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic-946-SubTopic-235-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-(d)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481062/946-235-50-2) Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic-946-SubTopic-505-Name-Accounting-Standards-Codification-Section-50-Paragraph-6-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481004/946-505-50-6> Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic-815-SubTopic-40-Name-Accounting-Standards-Codification-Section-50-Paragraph-6-Subparagraph-\(a\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480237/815-40-50-6](http://www.xbrl.org/2003/role/disclosureRef-Topic-815-SubTopic-40-Name-Accounting-Standards-Codification-Section-50-Paragraph-6-Subparagraph-(a)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480237/815-40-50-6) Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-\(SX-210.3-04\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-(SX-210.3-04)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480008/505-10-S99-1) Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic-235-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-\(SX-210.4-08-\(c\)-\(1\)\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic-235-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-(SX-210.4-08-(c)-(1))-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480678/235-10-S99-1) Reference 10: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic-505-Name-Accounting-Standards-Codification-Publisher-FASB-URI-https://asc.fasb.org/505/tableOfContent> Reference 11: <http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-13-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-13> Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-13-Subparagraph-\(g\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-13-Subparagraph-(g)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-13) Reference 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-13-Subparagraph-\(i\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-13-Subparagraph-(i)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-13) Reference 14: 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[http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-14-Subparagraph-\(e\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-14](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-14-Subparagraph-(e)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-14)

[www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-16-Subparagraph-\(b\)-Publisher-FASB-URI-https://ase.fasb.org//1943274/2147481112/505-10-50-16](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-16-Subparagraph-(b)-Publisher-FASB-URI-https://ase.fasb.org//1943274/2147481112/505-10-50-16)Reference 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-18-Subparagraph-\(a\)-Publisher-FASB-URI-https://ase.fasb.org//1943274/2147481112/505-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-18-Subparagraph-(a)-Publisher-FASB-URI-https://ase.fasb.org//1943274/2147481112/505-10-50-18)Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-18-Subparagraph-\(b\)-Publisher-FASB-URI-https://ase.fasb.org//1943274/2147481112/505-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-18-Subparagraph-(b)-Publisher-FASB-URI-https://ase.fasb.org//1943274/2147481112/505-10-50-18)Reference 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-18-Subparagraph-\(d\)-Publisher-FASB-URI-https://ase.fasb.org//1943274/2147481112/505-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-18-Subparagraph-(d)-Publisher-FASB-URI-https://ase.fasb.org//1943274/2147481112/505-10-50-18) Details Name: us-gaap\_StockholdersEquityNoteDisclosureTextBlock Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration Preferred Stock 12 Months Ended Dec. 31, 2023 Equity [ Abstract ] Preferred Stock Preferred Stock Our Certificate of Incorporation authorizes the issuance of up to 5,000,000 shares of preferred stock. As of December 31, 2023 and 2022, we had 1,983,250 designated shares of preferred stock and 1,930 shares of preferred stock issued and outstanding. Series F Preferred Stock On March 30, 2023, the Company entered into a Securities Purchase Agreement (the "Purchase Agreement") with certain accredited investors (the "Investors"), pursuant to which we issued and sold, in a private placement (the "Private Placement") (i) 6,550 shares of our newly designated Series F Preferred Stock, \$0.0001 par value per share (the "Series F Preferred Stock"), (ii) preferred warrants (the "Preferred Warrants") to acquire 32,750 shares of Series F Preferred Stock, and (iii) common warrants ("Common Warrants" and with the Preferred Warrants the "Investor Warrants") to acquire up to 3,830,417 shares of Common Stock. Please refer to Note 9-Capital Stock for further discussion on the Common Warrants. The terms of the Series F Preferred Stock are as set forward in the Certificate of Designations of Series F Preferred Stock of Oblong, Inc. (the "Certificate of Designations"), which was filed and became effective with the Secretary of State of the State of Delaware on March 31, 2023. The Private Placement closed on March 31, 2023, in exchange for gross and net proceeds of \$ 6,386,000 and \$ 5,364,000, respectively. The financing fees associated with the Purchase Agreement were \$ 1,022,000. The Series F Preferred Shares are convertible into fully paid and non-assessable shares of the Company's Common Stock at the election of the holder at any time at an initial conversion price of \$ 1.71 (the "Conversion Price"). The holders of the Series F Preferred Shares may also elect to convert their shares at an alternative conversion price equal to the lower of (i) 80 % of the applicable Conversion Price as in effect on the date of the conversion, (ii) 80 % of the closing price on the trading day immediately preceding the delivery of the conversion notice, and (iii) the greater of (a) the Floor Price (as defined in the Certificate of Designations) and (b) the quotient of (x) the sum of the five lowest Closing Bid Prices (as defined in the Certificate of Designations) for trading days in the 30 consecutive trading day period ending and including the trading day immediately preceding the delivery of the applicable Conversion Notice, divided by (y) five. The Conversion Price is subject to customary adjustments for stock splits, stock dividends, stock combination recapitalization, or other similar transactions involving the Common Stock, and subject to price-based adjustment, on a full ratchet basis, in the event of any issuances of our common stock, or securities convertible, exercisable or exchangeable for Common Stock, at a price below the then-applicable Conversion Price (subject to certain exceptions). On October 6, 2023, the Company and Investors holding a majority of the outstanding shares of the Preferred Stock agreed to waive any and all provisions, terms, covenants and obligations in the Certificate of Designations or Common Warrants to the extent such provisions permit the conversion or exercise of the Preferred Stock and the Common Warrants, respectively, to occur at a price below \$ 0.2792. Notwithstanding anything to the contrary in the Certificate of Designations, each of the "Alternate Conversion Price" and the "Floor Price" as set forth in the Certificate of Designations shall in no event be less than \$ 0.2792 (as adjusted for stock splits, stock dividends, stock combinations, recapitalizations and similar events). Under the Certificate of Designations, the Series F Preferred Shares have an initial stated value of \$ 1,000 per share (the "Stated Value"). The holders of the Series F Preferred Shares are entitled to dividends of 9 % per annum, which will be payable in arrears quarterly. Accrued dividends may be paid, at our option, in cash and if not paid, shall increase the stated value of the Series F Preferred Shares. Upon the occurrence and during the continuance of a Triggering Event (as defined in the Certificate of Designations), the Series F Preferred Shares will accrue dividends at the rate of 20 % per annum (the "Default Rate"). The Series F Preferred Shares have no voting rights, other than with respect to certain matters affecting the rights of the Series F Preferred Shares. On matters with respect to which the holders of the Series F Preferred Shares have a right to vote, holders of the Preferred Shares will have voting rights on an as-converted basis. Our ability to settle conversions is subject to certain limitations set forth in the Certificate of Designations. Further, the Certificate of Designations contains a certain beneficial ownership limitation after giving effect to the issuance of shares of common stock issuable upon conversion of the Series F Preferred Shares. The Certificate of Designations includes certain Triggering Events (as defined in the Certificate of Designations), including, among other things, (i) the failure to file and maintain an effective registration statement covering the sale of the holder's securities registrable pursuant to the Registration Rights Agreement, (ii) the failure to pay any amounts due to the holders of the Series F Preferred Shares when due, and (iii) if Peter Holst ceases to be the chief executive officer of the Company other than because of his death, and a qualified replacement, reasonably acceptable to a majority of the holders of the Series F Preferred Shares, is not appointed within thirty (30) business days. In connection with a Triggering Event, the Default Rate is triggered. We are subject to certain affirmative and negative covenants regarding the incurrence of indebtedness, acquisition transactions, the existence of liens, the repayment of indebtedness, the payment of cash in respect of dividends (other than dividends pursuant to the Certificate of Designations), maintenance of properties and the transfer of assets, among other matters. During the year ended December 31, 2023, 4,620 shares of Series F Preferred Stock, plus accrued dividends, were converted to 14,102,477 shares of the Company's common stock, respectively. There were 1,930 shares of Series F Preferred Stock outstanding and accrued dividends of \$ 136,000 as of December 31, 2023. Series F Preferred Stock transactions are summarized in the table below: Series F Preferred Stock Shares Accrued Dividends Weighted Average

Conversion Price Common Shares Issued from Conversions March 31, 2023 Issuance 6,550 \$ — 2023 Accrued Dividends \$ 343,000 2023 Conversions (4,620) \$ (207,000) \$ 0.34 14,102,477 December 31, 2023 Balance 1,930 \$ 136,000 14,102,477

Series F Preferred Stock Warrants The Preferred Warrants are exercisable for Series F Preferred Shares at an exercise price of \$ 975. The exercise price is subject to customary adjustments for stock splits, stock dividends, stock combination recapitalizations or other similar transactions involving the Common Stock. The Preferred Warrants expire three years from the date of issuance and are exercisable for cash. For each Preferred Warrant exercised, the Investors shall receive Common Warrants to purchase a number of shares of Common Stock equal to 100 % of the number of shares of Common Stock the Investors would receive if the Series F Preferred Shares issuable upon exercise of such Warrant were converted at the applicable Conversion Price. The fair value of the Preferred Warrants was recorded within additional paid-in capital during the year ended December 31, 2023. As of December 31, 2023, no Preferred Warrants have been exercised. X-References No definition available. Details Name: us-gaap-EquityAbstract Namespace Prefix: us-gaap- Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X-Definition The entire disclosure for terms, amounts, nature of changes, rights and privileges, dividends, and other matters related to preferred stock. Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org/505/tableOfContent> Details Name: us-gaap-PreferredStockTextBlock Namespace Prefix: us-gaap- Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration Stock Based Compensation 12 Months Ended Dec. 31, 2023 Share-Based Payment Arrangement [Abstract] Stock Based Compensation Stock Based Compensation 2019 Equity Incentive Plan In December 2019, the Oblong, Inc. 2019 Equity Incentive Plan (the “2019 Plan”) was approved by the Company’s stockholders at the Company’s 2019 Annual Meeting of Stockholders. The 2019 Plan is an omnibus equity incentive plan pursuant to which the Company may grant equity and cash incentive awards to certain key service providers of the Company and its subsidiaries. As of December 31, 2023, the share pool available for new grants under the 2019 Plan is 3 shares. A summary of stock compensation expense by category, for the years ended December 31, 2023 and 2022, is as follows: Year Ended December 31, Stock Based Compensation 2023 2022 Options \$ 124 \$ 61 RSUs 380 — Total \$ 504 \$ 61 A summary of stock compensation by department, for the years ended December 31, 2023 and 2022 is as follows: Year Ended December 31, Stock Based Compensation 2023 2022 Research and Development \$ — \$ (64) General & Administrative 504 125 Total \$ 504 \$ 61 Stock Options During the year ended December 31, 2023, no stock options were granted, 3,336 stock options vested, and 6,668 vested stock options expired. During the year ended December 31, 2022, no stock options were granted, 501 vested stock options expired, and 10,000 unvested stock options were forfeited. As of December 31, 2023 there were 10,000 stock options outstanding with a weighted average exercise price of \$ 48.75 and a weighted average remaining contractual life of 7.5 years. A summary of stock options expired and forfeited under our plans and options outstanding as of, and changes made during, the years ended December 31, 2023 and 2022 is presented below: Outstanding Exercisable Number of Options Weighted Average Exercise Price Number of Options Weighted Average Exercise Price Options outstanding and exercisable, December 31, 2021 127,169 113.63 7,169 294.63 Vested — 3,332 97.56 Expired (501) 410.18 (501) 410.18 Forfeited (10,000) 48.75 — Options outstanding and exercisable, December 31, 2022 16,668 \$ 29.25 10,000 \$ 223.11 Vested — 3,336 48.75 Expired (6,668) 285.89 (6,668) 285.89 Options outstanding and exercisable, December 31, 2023 10,000 \$ 48.75 6,668 \$ 48.75 The intrinsic value of vested and unvested options were not significant for all periods presented. Stock compensation expense related to stock options for the year ended December 31, 2023 was \$ 124,000, recorded as a component of General and Administrative expense. Net stock compensation expense, related to stock options, for the year ended December 31, 2022 was \$ 61,000, made up of \$ 146,000 in expense offset by \$ 85,000 related to forfeiture credits. There was \$ 125,000 stock compensation expense, recorded as a component of General and Administrative expense and a net credit of \$ 64,000 recorded as a component of Research and Development expense, related to stock options for the year ended December 31, 2022. As of December 31, 2023, there was \$ 61,000 remaining as unrecognized stock-based compensation expense for options, which will be recognized over a weighted average period of 0.50 years. Restricted Stock Awards On May 28, 2023, in relation to the departure of certain directors, 42 restricted stock awards became fully vested and were delivered in shares of the Company’s common stock. The awards were issued in 2014 and vested over the lesser of ten years, a change in control, or separation from the company. As of December 31, 2023, there were no unvested restricted stock awards outstanding and there is no unrecognized stock-based compensation expense for restricted stock awards. There was no stock compensation expense related to restricted stock awards during the years ended December 31, 2023 and 2022. Restricted Stock Units On April 18, 2023, 177,564 restricted stock units (“RSUs”) were granted to certain board members. These RSUs vested immediately upon issuance. The closing price per share of the Company’s common stock was \$ 2.14 on the day prior to the grant date, resulting in a total fair value of \$ 380,000 which was included in general and administrative expense, as stock-based compensation expense, upon issuance. On May 28, 2023, in relation to the departure of certain directors, 1,929 fully vested RSUs were delivered in shares of the Company’s common stock, in accordance with the terms of the RSUs. As of December 31, 2023, there were no unvested RSUs outstanding and there was no remaining unrecognized stock-based compensation expense for RSUs. Stock compensation expense related to RSUs for the years ended December 31, 2023 and 2022 was \$ 380,000 and zero, respectively. X-Definition The entire disclosure for share-based payment arrangement. Reference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\) \(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/exampleRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a) (1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 718-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org/718/tableOfContent> Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(h\) \(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (h) (2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)

org//1943274/2147480429/718-10-50-2Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(h\) \(2\) \(i\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (h) (2) (i)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(i\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (i)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2) Details Name: us-gaap\_DislosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap\_DislosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationNet Loss Per Share 12 Months Ended Dec. 31, 2023 Earnings Per Share [Abstract] Net Loss Per Share Net Loss Per Share Basic net loss per share is computed by dividing net loss attributable to common stockholders by the weighted-average number of shares of common stock outstanding during the period. The weighted-average number of shares of common stock outstanding does not include any potentially dilutive securities or any unvested restricted shares of common stock. Vested RSUs (for which shares of common stock have not yet been delivered) are included in the calculations of basic net loss per share. Unvested RSUs are not included in calculations of basic net loss per share, as they are not considered issued and outstanding at time of grant. Diluted net loss per share is computed by giving effect to all potential shares of common stock, including warrants, stock options, RSUs, and unvested restricted stock awards, to the extent they are dilutive. For the year ended December 31, 2023, all such common stock equivalents have been excluded from diluted net loss per share as the effect to net loss per share would be anti-dilutive (due to the net losses). The following table sets forth the computation of the Company's basic and diluted net loss per share (in thousands, except per share data): Year Ended December 31, Numerator: 20232022Net loss \$ (4,384) \$ (21,941) Less: preferred stock dividends343—Less: conversion inducement751—Less: warrant modification25—Net loss attributable to common stockholders \$ (5,503) \$ (21,941) Denominator: Weighted-average number of shares of common stock for basic net loss per share5,595 2,065 Basic net loss per share \$ (0.98) \$ (10.62) The following table represents the potential shares that were excluded from the computation of weighted-average number of shares of common stock in computing the diluted net loss per share for the periods presented because including them would have had an anti-dilutive effect: Year Ended December 31, 20232022Unvested restricted stock units—42 Outstanding stock options10,000 16,668 Common stock issuable upon conversion of Series F Preferred Stock (1) 7,392,776—Common stock issuable upon conversion of Series F Preferred Warrants (2) 117,299,427—Common stock issuable upon conversion of Common Stock Warrants4,137,850 343,099 (1) Calculation assumes conversion of the stated value, and accrued dividends, of the Series F Preferred Stock as of December 31, 2023 into Common Stock at the Floor Price. (2) Calculation assumes exercise of the Series F Preferred Warrants for cash into Series F Preferred Stock and subsequent conversion of the Series F Preferred Stock into Common Stock at the Floor Price. X-ReferencesNo definition available. Details Name: us-gaap\_EarningsPerShareAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionThe entire disclosure for earnings per share. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org//260/tableOfContent>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-2>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-3> Details Name: us-gaap\_EarningsPerShareTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationSegment Reporting 12 Months Ended Dec. 31, 2023 Segment Reporting [Abstract] Segment Reporting Segment Reporting Effective October 1, 2019, the former businesses of Glowpoint (now Oblong, Inc.) and Oblong Industries have been managed separately, and involve different products and services. Accordingly, the Company currently operates in two segments for purposes of segment reporting: (1) "Collaboration Products" which represents the Oblong Industries business surrounding our Mezzanine™ product offerings and (2) "Managed Services" which represents the Oblong (formerly Glowpoint) business surrounding managed services for video collaboration and network solutions. Certain information concerning the Company's segments for the years ended December 31, 2023 and 2022 is presented in the following tables (in thousands): Year Ended December 31, 2023Managed ServicesCollaboration ProductsCorporateTotalRevenue \$ 2,518 \$ 1,292 \$ — \$ 3,810 Cost of revenues1,671 1,228 — 2,899 Gross profit \$ 847 \$ 64 \$ — \$ 911 Gross profit % 34 % 5 % — % 24 % Allocated operating expenses \$ 3 \$ 481 \$ 4,922 \$ 5,406 Income (loss) from operations \$ 844 \$ (417) \$ (4,922) \$ (4,495) Interest and other income, net — (138) (138) Income (loss) before income taxes \$ 844 \$ (417) \$ (4,784) \$ (4,357) Income tax expense \$ 11 \$ 16 \$ — \$ 27 Net income (loss) \$ 833 \$ (433) \$ (4,784) \$ (4,384) As of December 31, 2023Total assets \$ 367 \$ 568 \$ 5,990 \$ 6,925 Year Ended December 31, 2022Managed ServicesCollaboration ProductsCorporateTotalRevenue \$ 3,348 \$ 2,128 \$ — \$ 5,476 Cost of revenues2,273 1,657 — 3,930 Gross profit \$ 1,075 \$ 471 \$ — \$ 1,546 Gross profit % 32.1 % 22.1 % — % 28.2 % Allocated operating expenses \$ 19 \$ 18,355 \$ — \$ 18,374 Unallocated operating expenses — 5,160 5,160 Total operating expenses \$ 19 \$ 18,355 \$ 5,160 \$ 23,534 Income (loss) from operations \$ 1,056 \$ (17,884) \$ (5,160) \$ (21,988) Interest and other (income) expense, net12 (52) — (40) Income (loss) before income taxes \$ 1,044 \$ (17,832) \$ (5,160) \$ (21,948) Income tax benefit \$ (4) \$ (3) \$ (7) Net income (loss) \$ 1,048 \$ (17,829) \$ (5,160) \$ (21,941) As of December 31, 2022Total assets \$ 752 \$ 1,824 \$ 3,085 \$ 5,661 Unallocated operating expenses include costs for the year ending December 31, 2023 and 2022 that are not specific to a particular segment but are general to the group; included are expenses incurred for administrative and accounting staff, general liability and other

insurance, professional fees and other similar corporate expenses. Unallocated assets consist of unrestricted cash. For the years ended December 31, 2023 and 2022, no material revenue was attributable to any individual foreign country. Approximately 1% of foreign revenue is billed in foreign currency and foreign currency gains and losses are not material. Revenue by geographic area is allocated as follows (in thousands): Year Ended December 31, 2023/2022 Domestic \$ 1, 843 / \$ 2, 781 Foreign 1, 967 / 2, 695 \$ 3, 810 / \$ 5, 476 Disaggregated information for the Company's revenue has been recognized in the accompanying consolidated statements of operations and is presented below according to contract type (dollars in thousands): Year Ended December 31, 2023 % of Revenue/2022 % of Revenue Revenue: Managed Services Video collaboration services \$ 183 / 4. 8 % / \$ 334 / 6. 1 % Network services 2, 301 / 60. 4 % / 2, 954 / 53. 9 % Professional and other services 340 / 9. 6 % / 601 / 1. 1 % Total Managed Services revenue \$ 2, 518 / 66. 1 % / \$ 3, 348 / 61. 1 % Revenue: Collaboration Products Visual collaboration product offerings \$ 1, 291 / 33. 9 % / \$ 2, 114 / 38. 6 % Licensing 1 — % / 14 / 0. 3 % Total Collaboration Products revenue \$ 1, 292 / 33. 9 % / \$ 2, 128 / 38. 9 % Total revenue \$ 3, 810 / 100. 0 % / \$ 5, 476 / 100. 0 % The Company's long-lived assets were 100% located in domestic markets as of December 31, 2023 and 2022. The Company considers a significant customer to be one that comprises more than 10% of the Company's consolidated revenues or accounts receivable. The loss of or a reduction in sales or anticipated sales to our most significant or several of our smaller customers could have a material adverse effect on our business, financial condition and results of operations. Concentration of revenues was as follows: Year Ended December 31, 2023/2022 Segment % of Revenue % of Revenue Customer A Managed Services 55. 9 % / 46. 8 % Concentration of accounts receivable was as follows: As of December 31, 2023/2022 Segment % of Accounts Receivable % of Accounts Receivable Customer A Managed Services 38. 2 % / 42. 8 % Customer B Collaboration Products 46. 8 % / 22. 0 % X-References No definition available. Details Name: us-gaap\_SegmentReportingAbstract Namespace Prefix: us-gaap\_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-Definition The entire disclosure for reporting segments including data and tables. Reportable segments include those that meet any of the following quantitative thresholds a) it's reported revenue, including sales to external customers and intersegment sales or transfers is 10 percent or more of the combined revenue, internal and external, of all operating segments b) the absolute amount of its reported profit or loss is 10 percent or more of the greater, in absolute amount of 1) the combined reported profit of all operating segments that did not report a loss or 2) the combined reported loss of all operating segments that did report a loss c) its assets are 10 percent or more of the combined assets of all operating segments. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-22-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-22> Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-15-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-15> Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-31-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-31> Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-32-Subparagraph-\(d\)-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-32-Subparagraph-(d)-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-32) Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-42-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-42> Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-32-Subparagraph-\(f\)-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-32-Subparagraph-(f)-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-32) Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-40-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-40> Reference 8: <http://www.xbrl.org/2003/role/disclosureRef-Topic-280-Name-Accounting-Standards-Codification-Publisher-FASB-URI-https://asc.fasb.org//280/tableOfContent> Reference 9: <http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-26-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-26> Reference 10: <http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-34-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-34> Reference 11: <http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-41-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-41> Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-21-Subparagraph-\(a\)-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-21](http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-21-Subparagraph-(a)-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-21) Reference 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-21-Subparagraph-\(b\)-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-21](http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-21-Subparagraph-(b)-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-21) Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-32-Subparagraph-\(c\)-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic-280-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-32-Subparagraph-(c)-Publisher-FASB-URI-https://asc.fasb.org//1943274/2147482810/280-10-50-32) Details Name: us-gaap\_SegmentReportingDisclosureTextBlock Namespace Prefix: us-gaap\_ Data Type: dtl-types:textBlockItemType Balance Type: na Period Type: duration Commitments and Contingencies 12 Months Ended Dec. 31, 2023 Commitments and Contingencies Disclosure [ Abstract ] Commitments and Contingencies Commitments and Contingencies From time to time, we are subject to various legal proceedings arising in the ordinary course of business, including proceedings for which we have insurance coverage. As of the date hereof, we are not party to any legal proceedings that we currently believe will have a material adverse effect on our business, financial position, results of operations or liquidity. COVID-19 On March 11, 2020, the World Health Organization ("WHO") announced that infections of the novel Coronavirus (COVID-19) had become pandemic, and on March 13, 2020, the U. S. President announced a National Emergency relating to the disease. In May 2023, the WHO declared COVID-19 over as a global health emergency. Customers generally use our Mezzanine™ products in traditional office and operating center environments such as conference rooms or other presentation

spaces. Revenue declines for our Collaboration Products business are primarily due to lower demand, largely a consequence of the commercial reactions to the COVID-19 pandemic and its prolonged effects. We believe the pandemic has fundamentally altered the way businesses consider the use of physical office spaces and, consequently, the demand for technologies that enable in-person collaboration within these spaces. Our analysis indicates that the reduced demand for our Mezzanine™ products, particularly in the aftermath of COVID-19, reflects a broader reassessment among our customers regarding the necessity and investment in collaboration solutions tailored for traditional office environments. Continuation of this trend could cause further declines in our revenue for this business.

X-ReferencesNo definition available. Details Name: us-gaap-CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap- Data Type: xbrli:stringItemType Balance Type: na-Period Type: durationX-DefinitionThe entire disclosure for commitments and contingencies. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 440-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482648/440-10-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 440-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482648/440-10-50-4)Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 450-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org/450/tableOfContent>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 954-SubTopic 440-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480327/954-440-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 954-SubTopic 440-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480327/954-440-50-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 440-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482648/440-10-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 440-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482648/440-10-50-4)Reference 5: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 440-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org/440/tableOfContent> Details Name: us-gaap-CommitmentsAndContingenciesDisclosureTextBlock Namespace Prefix: us-gaap- Data Type: dtr-types:textBlockItemType Balance Type: na-Period Type: durationIncome Taxes 12 Months Ended Dec. 31, 2023 Income Tax Disclosure [ Abstract ] Income Taxes Income Taxes The following table sets forth pretax book loss (in thousands): Year Ended December 31, 20232022United States \$ (4,357) \$ (21,948) Foreign — Total \$ (4,357) \$ (21,948) The following table sets forth income before taxes and the income tax expense for the years ended December 31, 2023 and 2022 (in thousands): Year Ended December 31, 20232022Current: Federal \$ — \$ — Foreign15 (4) State12 (3) Total current 27 (7) Total deferred — Income tax expense (benefit) \$ 27 \$ (7) Our effective tax rate differs from the statutory federal tax rate for the years ended December 31, 2023 and 2022 as shown in the following table (in thousands): Year Ended December 31, 20232022U. S. federal income taxes at the statutory rate \$ (915) \$ (4,609) Goodwill impairment — 1,547 State taxes, net of federal effects (58) (375) U. S. Federal and state NOL carryforward adjustment for expired NOLs613 76 Stock compensation plan adjustments385 16 Change in valuation allowance (112) 3, 273 Other114 65 Income tax expense (benefit) \$ 27 \$ (7) The tax effect of the temporary differences that give rise to significant portions of the deferred tax assets and liabilities as of December 31, 2023 and 2022 is presented below (in thousands): Year Ended December 31, 20232022Deferred tax assets (liabilities): Tax benefit of operating loss carry forward- Federal \$ 29, 416 \$ 28, 459 Tax benefit of operating loss carry forward- State5, 965 6, 429 Accrued expenses131 147 Deferred revenue36 129 Stock-based compensation56 420 Fixed assets4 116 Goodwill — 28 Inventory156 106 Intangible amortization32 (80) Section 174 research and experimentation — 409 Section 163 (j) interest expense314 — R & D credit2, 154 2, 154 Texas margin tax temporary credit55 74 Other61 101 Total deferred tax asset, net of deferred tax liabilities38, 380 38, 492 Valuation allowance (38, 380) (38, 492) Net deferred tax asset \$ — \$ — The ending balances of the deferred tax asset have been fully reserved, reflecting the uncertainties as to realizability evidenced by the Company's historical results. The change in valuation allowance for the year ended December 31, 2023 is a decrease of \$ 112, 000. The change in valuation allowance for the year ended December 31, 2022 was an increase of \$ 3, 273, 000. We and our subsidiary file federal and state tax returns on a consolidated basis. On October 1, 2019 Oblong, Inc. acquired the stock of Oblong Industries Inc. that resulted in Oblong Industries Inc.'s shareholders owning 75% of Oblong, Inc. Therefore, an "ownership change" occurred on this date (as defined under Section 382 of the Internal Revenue Code of 1986, as amended); which places an annual limitation on the utilization of the net operating loss ("NOL") carryforwards accumulated before the ownership change. If additional ownership changes occur in the future, the use of the net operating loss carryforwards could be subject to further limitation. As a result of this annual limitation and the limited carryforward life of the accumulated NOLs, we determined that the 2019 ownership change resulted in the permanent loss of approximately \$ 30, 880, 000 of tax NOL carryforwards. At December 31, 2022, we had federal net operating loss carryforwards of \$ 135, 517, 000 available to offset future federal taxable income, after Section 382 limitation considerations. At December 31, 2023, we had federal net operating loss carryforwards of \$ 140, 075, 000 available to offset future federal taxable income, after section 382 limitation considerations. Of this amount, \$ 75, 350, 000 will expire in various amounts from 2024 through 2037. As of December 31, 2023 and 2022, the Company also has various state net operating loss carryforwards of \$ 98, 844, 000 and \$ 97, 531, 000, respectively. The determination of the state net operating loss carryforwards is dependent upon apportionment percentages and state laws that can change, from year to year and impact the amount of such carryforwards. The Company has Research and Development credits of \$ 2, 154, 000 at December 31, 2023 and 2022. The Research and Development credit begins to expire at the end of 2026. The issuance of the securities in the March 31, 2023 private placement significantly diluted the ownership interest of the existing holders of our common stock. The Company is reviewing if a Section 382 ownership change occurred as a result of the private placement stock issuance. If a Section 382 ownership change did occur, this event would further limit the utilization of, and the timing of utilization, of the federal and state net operating loss carryforwards above. There were no significant matters determined to be unrecognized tax benefits taken or expected to be taken in a tax return, in accordance with ASC Topic 740 "Income Taxes" ("ASC 740"), which clarifies the accounting for uncertainty in income taxes recognized in the financial statements, that have been recorded on the Company's Consolidated Financial Statements for the years ended December 31, 2023 and 2022. The Company does not anticipate a material change to unrecognized tax benefits in the next

twelve months. Additionally, ASC 740 provides guidance on the recognition of interest and penalties related to unrecognized tax benefits. There were no interest or penalties related to income taxes that have been accrued or recognized as of and for the years ended December 31, 2023 and 2022. The Internal Revenue Service may generally assess additional income tax for the most recent three years. This would generally prevent the Internal Revenue Service from opening an examination for years ended on or before December 31, 2020. However, there are exceptions that can extend the statute of limitations to six years, and in some cases, prevent the statute of limitations from ever expiring. X-ReferencesNo definition available. Details Name: us-gaap\_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap\_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionThe entire disclosure for income taxes. Disclosures may include net deferred tax liability or asset recognized in an enterprise's statement of financial position, net change during the year in the total valuation allowance, approximate tax effect of each type of temporary difference and carryforward that gives rise to a significant portion of deferred tax liabilities and deferred tax assets, utilization of a tax carryback, and tax uncertainties information. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 13-Publisher FASB-URI https://asc.fasb.org//1943274/2147480990/946-20-50-13>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.4-08 \(h\) \(2\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.4-08 (h) (2))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-1)Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org//740/tableOfContent>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 14-Publisher FASB-URI https://asc.fasb.org//1943274/2147482685/740-10-50-14>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 21-Publisher FASB-URI https://asc.fasb.org//1943274/2147482685/740-10-50-21>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 270-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147482526/740-270-50-1>Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 17-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482685/740-10-50-17](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 17-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482685/740-10-50-17)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SAB TOPIC 6.1.5-Q1\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479360/740-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SAB TOPIC 6.1.5-Q1)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479360/740-10-S99-1)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SAB Topic 11.C\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479360/740-10-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SAB Topic 11.C)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479360/740-10-S99-2)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482603/740-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482603/740-30-50-2)Details Name: us-gaap\_IncomeTaxDisclosureTextBlock Namespace Prefix: us-gaap\_ Data Type: dt:textBlockItemType Balance Type: na Period Type: duration401 (k) Plan 12 Months Ended Dec. 31, 2023 Retirement Benefits [ Abstract ] 401 (k) Plan 401 (k) PlanWe have adopted a retirement plan under Section 401 (k) of the Internal Revenue Code. The 401 (k) plan covers substantially all employees who meet minimum age and service requirements. Company contributions to the 401 (k) plan for the years ended December 31, 2023 and 2022 were \$ 64, 000 and \$ 93, 000, respectively. X-ReferencesNo definition available. Details Name: us-gaap\_CompensationAndRetirementDisclosureAbstract Namespace Prefix: us-gaap\_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionThe entire disclosure for retirement benefits. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 70-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147480794/715-70-50-1>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 17-Publisher FASB-URI https://asc.fasb.org//1943274/2147480482/715-20-55-17>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(d\) \(iv\) \(03\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (d) (iv) (03)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(d\) \(i\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (d) (i)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(q\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (q)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(i\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (i)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1)Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic 715-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org//715/tableOfContent>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(d\) \(iii\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (d) (iii)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(o\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (o)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(p\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (p)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(r\) \(1\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (r) (1)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480506/715-20-50-1)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(r\) \(2\)-Publisher FASB-](http://www.xbrl.org/2003/role/disclosureRef-Topic 715-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (r) (2)-Publisher FASB-)

URI <https://asc.fasb.org//1943274/2147480506/715-20-50-1>Reference 13: <http://www.xbrl.org/2003/role/disclosureRef-Topic-715-SubTopic-20-Name-Accounting-Standards-Codification-Section-S99-Paragraph-2-Publisher-FASB>-URI <https://asc.fasb.org//1943274/2147480126/715-20-S99-2>Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic-715-SubTopic-60-Name-Accounting-Standards-Codification-Section-50-Paragraph-3-Subparagraph-\(e\)-Publisher-FASB](http://www.xbrl.org/2003/role/disclosureRef-Topic-715-SubTopic-60-Name-Accounting-Standards-Codification-Section-50-Paragraph-3-Subparagraph-(e)-Publisher-FASB)-URI <https://asc.fasb.org//1943274/2147480266/715-60-50-3> Details Name: us-gaap\_PensionAndOtherPostretirementBenefitsDisclosureTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationBusiness Description and Significant Accounting Policies (Policies) 12 Months Ended Dec. 31, 2023 Organization, Consolidation and Presentation of Financial Statements [ Abstract ] Principles of Consolidation Principles of ConsolidationThe Consolidated Financial Statements include the accounts of Oblong and our 100 %-owned subsidiaries (i) GP Communications, LLC (“GP Communications”), whose business function is to provide interstate telecommunications services for regulatory purposes, and (ii) Oblong Industries, Inc. All inter-company balances and transactions have been eliminated in consolidation. The U. S. Dollar is the functional currency for all subsidiaries. During 2022, the Company ceased operations through Oblong Industries’ 100 %-owned subsidiary Oblong Europe Limited, and combined the operations into Oblong Industries, Inc. There was no activity for this subsidiary in 2022 or 2023 and Oblong Europe, Limited remains in liquidation. Segments SegmentsEffective October 1, 2019, the former businesses of Glowpoint (now Oblong, Inc.) and Oblong Industries have been managed separately, and involve different products and services. Accordingly, the Company currently operates in two segments for purposes of segment reporting: (1) “Collaboration Products” which represents the Oblong Industries business surrounding our Mezzanine™ product offerings and (2) “Managed Services” which represents the Oblong (formerly Glowpoint) business surrounding managed services for video collaboration and network solutions. See Note 13–Segment Reporting for further discussion. Use of Estimates Use of EstimatesPreparation of the Consolidated Financial Statements in conformity with U. S. generally accepted accounting principles (“U. S. GAAP”) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the Consolidated Financial Statements and the reported amounts of revenues and expenses during the reporting period. Actual amounts could differ from the estimates made. We continually evaluate estimates used in the preparation of our Consolidated Financial Statements for reasonableness. Appropriate adjustments, if any, to the estimates used are made prospectively based upon such periodic evaluation. The significant areas of estimation include determining the estimated credit losses and the inputs used in the fair value of equity-based awards. Cash and Cash Equivalents Cash and Cash EquivalentsAs of December 31, 2023, our total cash balance of \$ 5, 990, 000 is available, however, of this balance \$ 500, 000 was held in short-term certificates of deposit with MidFirst Bank. As of December 31, 2022, our total cash balance of \$ 3, 085, 000 was available. The Company considers highly liquid investments with original maturities of three months or less to be cash equivalents. Accounts Receivable and Provision for Estimated Credit Losses Accounts Receivable and Provision for Estimated Credit LossesAccounts receivable are customer obligations due under normal trade terms. The Company sells its Managed Services products to end-users, and its Collaboration Products to both resell partners and end-users. The Company extends credit to its customers based on their credit worthiness and on historical data, and performs ongoing credit evaluations of our customers’ financial condition. The Company maintains an allowance for estimated credit losses, related to accounts receivable, for future expected bad debt resulting from the inability or unwillingness of our customers to make required payments. We estimate our allowance for estimated credit losses based on relevant information such as historical experience, current economic conditions, and future expectations of specifically identified customer balances. This allowance is adjusted as appropriate to reflect current conditions. After all attempts to collect a receivable have failed, the receivable is written off against the allowance. We do not obtain collateral from our customers to secure accounts receivable. Inventory and Casualty Loss InventoryInventory consists of finished goods and was determined using average costs and was stated at the lower of cost or net realizable value. The Company periodically performs analyses to identify obsolete or slow-moving inventory. Casualty LossIn June 2022, the Company discovered that \$ 533, 000 of inventory was stolen from the Company’s warehouse in City of Industry, California. During 2022 and 2023, we received recovery payments from our insurance policies of \$ 50, 000 and \$ 400, 000, respectively, resulting in a net casualty loss of \$ 483, 000 on our Consolidated Statements of Operations for the year ended December 31, 2022 and a casualty gain of \$ 400, 000 on our Consolidated Statements of Operations for the year ended December 31, 2023. We do not expect any further recovery of the loss. Fair Value of Financial Instruments Fair Value of Financial InstrumentsThe Company considers its cash and cash equivalents, accounts receivable, accounts payable and lease obligations to meet the definition of financial instruments. The carrying amount of cash and cash equivalents, accounts receivable and accounts payable approximated their fair value due to the short maturities of these instruments. The carrying amounts of our lease obligations (see Note 8–Operating Lease Liabilities and Right-of-Use Assets) approximated their fair values, which were based on borrowing rates that were available to the Company for loans with similar terms, collateral, and maturity. The Company measures fair value as required by Accounting Standards Codification (“ASC”) Topic 820 “Fair Value Measurements and Disclosures” (“ASC Topic 820”). ASC Topic 820 defines fair value, establishes a framework and gives guidance regarding the methods used for measuring fair value, and expands disclosures about fair value measurements. ASC Topic 820 clarifies that fair value is an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or liability. As a basis for considering such assumptions, there exists a three-tier fair value hierarchy, which prioritizes the inputs used in measuring fair value as follows: • Level 1–unadjusted quoted prices in active markets for identical assets or liabilities that the Company has the ability to access as of the measurement date. • Level 2–inputs other than quoted prices included within Level 1 that are directly observable for the asset or liability or indirectly observable through corroboration with observable market data. • Level 3–unobservable inputs for the asset or liability only used when there is little, if any, market activity for the asset or liability at the

measurement date. This hierarchy requires the Company to use observable market data, when available, and to minimize the use of unobservable inputs when determining fair value. Revenue Recognition and Taxes Billed to Customers and Remitted to Taxing Authorities Revenue Recognition The Company accounts for revenue in accordance with Accounting Standards Codification (“ASC”) Topic 606. The Company recognizes revenue using the five-step model as prescribed by Topic 606: • Identification of the contract, or contracts, with a customer; • Identification of the distinct performance obligations in the contract; • Determination of the transaction price; • Allocation of the transaction price to the performance obligations in the contract; and • Recognition of revenue when or as the Company satisfies a performance obligation. The Company’s managed videoconferencing services are offered to our customers on either a usage basis or on a subscription. Our network services are offered to our customers on a subscription basis. Revenue for these services is generally recognized on a monthly basis as services are performed. Revenue related to professional services is recognized at the time the services are performed. The costs associated with obtaining a customer contract were previously expensed in the period they were incurred. Under Topic 606, these payments are deferred on our consolidated balance sheets and amortized over the expected life of the customer contract. As of December 31, 2023 there was no deferred revenue related to Managed Services. During the year ended December 31, 2023, the Company recorded \$ 1, 000 of revenue that was included in deferred revenue as of December 31, 2022. During the year ended December 31, 2022, the Company recorded \$ 7, 000 of revenue that was included in deferred revenue as of December 31, 2021. The Company’s visual collaboration products are composed of hardware and embedded software sold as a complete package, and generally include installation and maintenance services. Revenue for hardware and software is recognized upon shipment to the customer. Installation revenue is recognized upon completion of installation, which also triggers the beginning of recognition of revenue for maintenance services which range from one to three years. Revenue is recognized over time for maintenance services. Licensing agreements are for the Company’s core technology platform, g- speak, and are generally one year in length. Revenue for these services is recognized ratably over the service period. Deferred revenue, as of December 31, 2023, totaled \$ 158, 000 as certain performance obligations were not satisfied as of this date. During the year ended December 31, 2023, the Company recorded \$ 435, 000 of revenue that was included in deferred revenue as of December 31, 2022. During the year ended December 31, 2022, the Company recorded \$ 776, 000 of revenue that was included in deferred revenue as of December 31, 2021. Revenue recorded over time for the years ended December 31, 2023 and 2022 was \$ 516, 000 and \$ 970, 000, respectively. Revenue recorded at a period in time for the years ended December 31, 2023 and 2022 was \$ 3, 294, 000 and \$ 4, 506, 000, respectively. The Company disaggregates its revenue by geographic region. See Note 13- Segment Reporting for more information. Taxes Billed to Customers and Remitted to Taxing Authorities We recognize taxes billed to customers in revenue and taxes remitted to taxing authorities in our cost of revenue. Long-Lived Assets, Goodwill and Intangible Assets Long-Lived Assets, Goodwill, and Intangible Assets Property and Equipment Property and equipment are accounted for in accordance with ASC Topic 360 “Property, Plant, and Equipment” (“ASC Topic 360”), stated at cost, and are depreciated using the straight-line method over the estimated economic lives of the assets, which range from three to ten years. Leasehold improvements are amortized over the shorter of either the asset’s useful life or the related lease term. Depreciation is computed on the straight-line method for financial reporting purposes. Property and equipment assets, net of accumulated depreciation, totaled zero and \$ 3, 000 as of December 31, 2023 and 2022, respectively. Intangible Assets Intangible assets are accounted for in accordance with ASC Topic 350 “Intangibles—Goodwill and Other” (“ASC Topic 350”), and intangible assets with finite lives are amortized using the straight-line method over the estimated economic lives of the assets, which initially ranged from five to twelve years. Intangible assets, net of accumulated amortization totaled zero and \$ 604, 000 as of December 31, 2023 and 2022, respectively. Operating Lease Right-of-use Assets Right-of-use Assets are accounted for in accordance with ASC Topic 842 “Leases” (“ASC Topic 842”), and are amortized using a straight-line method over the estimated life of the lease. Right-of-use assets, net totaled \$ 17, 000 and \$ 142, 000, as of December 31, 2023 and 2022, respectively. As of the date of this filing, the Company had no right-of-use assets remaining. The Company has primarily leased facilities for office and warehouse space under non-cancellable operating leases for its U. S. locations, and accounts for these leases in accordance with ASC- 842. Operating lease right-of-use assets and liabilities are recognized at commencement date based on the present value of lease payments over the expected lease term. Right-of-use assets represent our right to use an underlying asset for the lease term and lease liabilities represent our obligation to make lease payments arising from the lease. Since our lease arrangements do not provide an implicit rate, we use our estimated incremental borrowing rate for the expected remaining lease term at commencement date in determining the present value of future lease payments. Impairment The Company assesses the impairment of our long-lived assets subject to amortization when events and circumstances indicate that the carrying value of the assets might not be recoverable. The determination of related estimated useful lives and whether or not these assets are impaired involves significant judgments, related primarily to the future profitability and /or future value of the assets. Changes in the Company’s strategic plan and /or other-than-temporary changes in market conditions could significantly impact these judgments and could require adjustments to recorded asset balances. Long-lived assets are evaluated for impairment whenever an event or change in circumstances has occurred that could have a significant adverse effect on the fair value of long-lived assets. During the year ended December 31, 2023, we considered the declines in revenue for the Collaboration Products reporting segment and the decline in the Company’s market capitalization to be triggering events for an impairment test of our long-lived and intangible assets for this reporting unit. Based on the corresponding recoverability tests of the asset group for this reporting unit, it was determined that the carrying value exceeded the gross cash flows of the asset group. The recoverability tests consisted of comparing the estimated undiscounted cash flows expected to be generated by those assets to the respective carrying amounts, and involves significant judgements and assumptions, related primarily to the future revenue and profitability of the assets. For the year ended December 31, 2023, the Company disposed of property and equipment assets with a net value of \$ 3, 000. See Note 5- Property and Equipment for further discussion. During the year ended December 31, 2022, the Company recorded impairment charges of \$ 61, 000 on

property and equipment assets. For the year ended December 31, 2023, the Company recorded impairment charges of \$ 259,000 on purchased intangible assets, as a result of these impairment charges there are no intangible assets reported on our Consolidated Balance Sheet as of December 31, 2023. See Note 6-Intangible Assets and Goodwill for further discussion. The Company recorded impairment Charges of \$ 5,133,000 to purchased intangible assets for the year ended December 31, 2022. During the year ended December 31, 2022, we recorded impairment charges of \$ 7,367,000 on goodwill. As a result of these impairment charges, there was no goodwill reported on our Consolidated Balance Sheets as of December 31, 2023 or December 31, 2022. Right-of-use assets are tested for impairment using guidance from ASC Topic 360. For the year ended December 31, 2022, the Company recorded aggregate impairment charges of \$ 179,000 on two right-of-use assets. There were no right-of-use asset impairments for the year ended December 31, 2023. Operating Leases Operating Leases Operating leases are accounted for in accordance with ASC Topic 842 "Leases" ("ASC Topic 842"), and the liabilities are amortized using a straight-line method over the estimated life of the lease. The remaining operating lease liability as of December 31, 2023 and 2022 was \$ 17,000 and \$ 236,000, respectively. As of the date of this filing, the Company had no lease liability remaining. See Note 8-Operating Lease Liabilities and Right-of-Use Assets for further discussion. Operating lease expense is recognized on a straight-line basis over the lease term. Variable lease payments are not included in the lease payments to measure the lease liability and are expensed as incurred. Historically, the Company's leases have had terms of 6 months to five years and some of the leases included a Company option to extend the lease term for less than twelve months to five years, or more, which if reasonably certain to exercise, the Company includes in the determination of lease payments. The lease agreements did not contain any material residual value guarantees or material restrictive covenants. Leases with an initial term of 12 months or less, with the exception of leases for real property, are not recognized on the balance sheet and the expense for these short-term leases is recognized on a straight-line basis over the lease term. Common area maintenance fees (or CAMs) and other charges related to leases are expensed as incurred. Concentration of Credit Risk Concentration of Credit Risk Financial instruments that potentially subject us to significant concentrations of credit risk consist principally of cash and trade accounts receivable. We place our cash needed for operations in commercial checking accounts, and the majority of our cash is held in a money market fund. Commercial bank balances may from time to time exceed federal insurance limits. Deposits are insured by the Federal Deposit Insurance Corporation (the "FDIC") in an amount up to \$ 250,000 for any depositor, any deposit in excess of this insured amount could be lost. Income Taxes Income Taxes We use the asset and liability method to determine our income tax expense or benefit. Deferred tax assets and liabilities are computed based on temporary differences between the financial reporting and tax bases of assets and liabilities and are measured using the enacted tax rates that are expected to be in effect when the differences are expected to be recovered or settled. Any resulting net deferred tax assets are evaluated for recoverability and, accordingly, a valuation allowance is provided when it is more likely than not that all or some portion of the deferred tax asset will not be realized. Stock-based Compensation Stock-based Compensation Stock-based awards have been accounted for as required by ASC Topic 718 "Compensation—Stock Compensation" ("ASC Topic 718"). Under ASC Topic 718 stock-based awards are valued at fair value on the date of grant, and that fair value is recognized over the requisite service period. The Company accounts for forfeitures when they occur. Research and Development Research and Development Research and development expenses include internal and external costs related to developing new service offerings and features and enhancements to our existing product offerings. Treasury Stock Treasury Stock Purchases and sales of treasury stock are accounted for using the cost method. Under this method, shares acquired are recorded at the acquisition price directly to the treasury stock account. Upon sale, the treasury stock account is reduced by the original acquisition price of the shares and any difference is recorded in additional paid-in capital, on a first-in first-out basis. The Company does not recognize a gain or loss to income from the purchase and sale of treasury stock. Recent Accounting Pronouncements Recent Accounting Pronouncements Recently Adopted Accounting Pronouncements There are no new accounting pronouncements that are expected to have a significant impact on financial statements. In June 2016 the FASB issued ASU 2016-13, "Financial Instruments-Credit Losses (Topic 326)," which was subsequently amended in February 2020 by ASU 2020-02, "Financial Instruments-Credit Losses (Topic 326) and Leases (Topic 842)." The amendments introduce an impairment model that is based on expected credit losses, rather than incurred losses, to estimate credit losses on certain types of financial instruments (e.g., loans and held-to-maturity securities), including certain off-balance sheet financial instruments (e.g., loan commitments). The expected credit losses should consider historical information, current information, and reasonable and supportable forecasts, including estimates of prepayments, over the contractual term. Financial instruments with similar risk characteristics may be grouped together when estimating expected credit losses. The update is effective for fiscal years beginning after December 15, 2022, including interim periods within those fiscal years. The Company adopted the new guidance, as of January 1, 2023, and it did not have a material impact on the Consolidated Financial Statements. Recently Issued Accounting Pronouncements In November 2023, the FASB issued ASU No. 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The new guidance is intended to improve reportable segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. The amendments are effective retrospectively for fiscal years beginning after December 15, 2023 and interim periods within fiscal years beginning after December 15, 2024. The Company is in the process of evaluating the impact that the adoption of this ASU will have to the financial statements and related disclosures, which is not expected to be material. In December 2023, the FASB issued ASU No. 2023-09, Improvements to Tax Disclosures (Topic 740), to enhance the transparency and decision usefulness of income tax disclosures through changes to the rate reconciliation and income taxes paid information. This guidance is effective for fiscal years beginning after December 15, 2024, with early adoption permitted. The Company is evaluating the impact of adopting this new accounting guidance on its Consolidated Financial Statements. X-Definition Treasury Stock [ Policy Text Block ] References No definition available. Details Name: glow\_TreasuryStockPolicyTextBlock Namespace Prefix: glow\_ Data Type: dt:types1: textBlock ItemType: Balance Type: na Period Type: duration X-Definition Disclosure of accounting policy for cash and cash equivalents, including the policy for

determining which items are treated as cash equivalents. Other information that may be disclosed includes (1) the nature of any restrictions on the entity's use of its cash and cash equivalents, (2) whether the entity's cash and cash equivalents are insured or expose the entity to credit risk, (3) the classification of any negative balance accounts (overdrafts), and (4) the carrying basis of cash equivalents (for example, at cost) and whether the carrying amount of cash equivalents approximates fair value.

ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482913/230-10-50-1-Details> Name: us-gaap\_CashAndCashEquivalentsPolicyTextBlock Namespace Prefix: us-gaap\_ Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for credit risk.

ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic942-SubTopic825-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480981/942-825-50-1>

Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-NameAccountingStandardsCodification-Section50-Paragraph1-SubTopic10-Topic275-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-1-Details> Name: us-gaap\_ConcentrationRiskCreditRisk Namespace Prefix: us-gaap\_ Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy regarding

(1) the principles it follows in consolidating or combining the separate financial statements, including the principles followed in determining the inclusion or exclusion of subsidiaries or other entities in the consolidated or combined financial statements and (2) its treatment of interests (for example, common stock, a partnership interest or other means of exerting influence) in other entities, for example consolidation or use of the equity or cost methods of accounting. The accounting policy may also address the accounting treatment for intercompany accounts and transactions, nonecontrolling interest, and the income statement treatment in consolidation for issuances of stock by a subsidiary. ReferencesReference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic235-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph4-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483426/235-10-50-4](http://www.xbrl.org/2003/role/exampleRef-Topic235-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph4-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483426/235-10-50-4)

Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic810-SubTopic10-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-1-Details> Name: us-gaap\_ConsolidationPolicyTextBlock Namespace Prefix: us-gaap\_ Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for determining the fair value of financial instruments.

ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section60-Paragraph1-SubTopic10-Topic820-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482053/820-10-60-1>

Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1-SubTopic10-Topic825-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482907/825-10-50-1-Details> Name: us-gaap\_FairValueOffinancialInstrumentsPolicy Namespace Prefix: us-gaap\_ Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for recognizing and measuring the impairment of long-lived assets. An entity also may disclose its accounting policy for long-lived assets to be sold. This policy excludes goodwill and intangible assets. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic360-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SAB-Topic5-CC\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480091/360-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic360-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SAB-Topic5-CC)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480091/360-10-S99-2)

Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section05-Paragraph4-SubTopic10-Topic360-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482338/360-10-05-4-Details> Name: us-gaap\_ImpairmentOrDisposalOfLongLivedAssetsPolicyTextBlock Namespace Prefix: us-gaap\_ Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for income taxes, which may include its accounting policies for recognizing and measuring deferred tax assets and liabilities and related valuation allowances, recognizing investment tax credits, operating loss carryforwards, tax credit carryforwards, and other carryforwards, methodologies for determining its effective income tax rate and the characterization of interest and penalties in the financial statements. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210-6-03\(h\)\(1\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479886/946-10-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210-6-03(h)(1))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479886/946-10-S99-3)

Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph17-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-17](http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph17-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-17)

Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-9>

Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482525/740-10-45-25>

Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482525/740-10-45-28>

Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph19-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-19>

Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482765/220-10-50-1>

Reference 8: <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph20-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-20-Details> Name: us-gaap\_IncomeTaxPolicyTextBlock Namespace Prefix: us-gaap\_ Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of inventory accounting policy for inventory classes, including, but not limited to, basis for determining inventory amounts, methods by which amounts are added and removed from inventory classes, loss

recognition on impairment of inventories, and situations in which inventories are stated above cost. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147483489/210-10-50-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02 \(6\) \(b\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02 (6) (b))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 3: [http://www.xbrl.org/2003/role/exampleRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(d\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483426/235-10-50-4](http://www.xbrl.org/2003/role/exampleRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (d)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483426/235-10-50-4)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 912-SubTopic 330-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147482105/912-330-50-1>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 330-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org//330/tableOfContent>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 330-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147483080/330-10-50-1>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic 330-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Publisher FASB-URI https://asc.fasb.org//1943274/2147483080/330-10-50-4>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 45-Paragraph 6-Subparagraph \(a\)-SubTopic 10-Topic 270-Publisher FASB-URI https://asc.fasb.org//1943274/2147482989/270-10-45-6](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 45-Paragraph 6-Subparagraph (a)-SubTopic 10-Topic 270-Publisher FASB-URI https://asc.fasb.org//1943274/2147482989/270-10-45-6) Details Name: us-gaap\_InventoryPolicyTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for leasing arrangement entered into by lessee. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147478964/842-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147478964/842-20-50-1) Details Name: us-gaap\_LesseeLeasesPolicyTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact. ReferencesNo definition available. Details Name: us-gaap\_NewAccountingPronouncementsPolicyPolicyTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap\_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for determining the allowance for doubtful accounts for trade and other accounts receivable balances, and when impairments, charge-offs or recoveries are recognized. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 310-SubTopic 10-Section 50-Paragraph 9-Publisher FASB-URI https://asc.fasb.org//1943274/2147481962/310-10-50-9> Details Name: us-gaap\_ReceivablesTradeAndOtherAccountsReceivableAllowanceForDoubtfulAccountsPolicy Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for costs it has incurred (1) in a planned search or critical investigation aimed at discovery of new knowledge with the hope that such knowledge will be useful in developing a new product or service, a new process or technique, or in bringing about a significant improvement to an existing product or process; or (2) to translate research findings or other knowledge into a plan or design for a new product or process or for a significant improvement to an existing product or process. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 730-SubTopic 10-Name Accounting Standards Codification-Section 05-Paragraph 1-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483044/730-10-05-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 730-SubTopic 10-Name Accounting Standards Codification-Section 05-Paragraph 1-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483044/730-10-05-1) Details Name: us-gaap\_ResearchAndDevelopmentExpensePolicy Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for revenue from contract with customer. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 17-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-17>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 19-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-19>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-18)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-18)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 20-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-20](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 20-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-20)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 20-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-20](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 20-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-20)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 20-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-20](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 20-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-20)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 20-Subparagraph \(d\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-20](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 20-Subparagraph (d)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-20)Reference 9: [http://www.xbrl.org/2003/role/exampleRef-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(e\)-SubTopic 10-Topic 235-Publisher FASB-URI https://asc.fasb.org//1943274/2147483426/235-10-50-4](http://www.xbrl.org/2003/role/exampleRef-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (e)-SubTopic 10-Topic 235-Publisher FASB-URI https://asc.fasb.org//1943274/2147483426/235-10-50-4)Reference 10: <http://www.xbrl.org/2003/role/disclosureRef-Name Accounting>

Standards Codification-Topic 606-Publisher FASB-URI <https://asc.fasb.org//606/tableOfContent> Details Name: us-gaap\_RevenueFromContractWithCustomerPolicyTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for segment reporting. ReferencesReference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 47-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482785/280-10-55-47](http://www.xbrl.org/2003/role/exampleRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 47-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482785/280-10-55-47)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Subparagraph \(d\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Subparagraph (d)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 41-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-41)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 29-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-29)Details Name: us-gaap\_SegmentReportingPolicyPolicyTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for award under share-based payment arrangement. Includes, but is not limited to, methodology and assumption used in measuring cost. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(f\)\(2\)\(i\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (f)(2)(i)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(f\)\(2\)\(ii\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (f)(2)(ii)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(f\)\(2\)\(v\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (f)(2)(v)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SAB Topic 14. D. 1. Q5\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479830/718-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SAB Topic 14. C. Q3)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479830/718-10-S99-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SAB Topic 14. D. 3. Q2\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479830/718-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SAB Topic 14. D. 1. Q5)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479830/718-10-S99-1)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org//718/tableOfContent](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SAB Topic 14. D. 2. Q6)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479830/718-10-S99-1)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(f\)\(1\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(f\)\(2\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (f)(2)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2)Details Name: us-gaap\_ShareBasedCompensationOptionAndIncentivePlansPolicy Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-DefinitionDisclosure of accounting policy for the use of estimates in the preparation of financial statements in conformity with generally accepted accounting principles. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 275-SubTopic 10-Section 50-Paragraph 9-Publisher FASB-URI https://asc.fasb.org//1943274/2147482861/275-10-50-9>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 275-SubTopic 10-Section 50-Paragraph 4-Publisher FASB-URI https://asc.fasb.org//1943274/2147482861/275-10-50-4>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(b\)-SubTopic 10-Topic 275-Publisher FASB-URI https://asc.fasb.org//1943274/2147482861/275-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (b)-SubTopic 10-Topic 275-Publisher FASB-URI https://asc.fasb.org//1943274/2147482861/275-10-50-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 11-SubTopic 10-Topic 275-Publisher FASB-URI https://asc.fasb.org//1943274/2147482861/275-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (c)-SubTopic 10-Topic 275-Publisher FASB-URI https://asc.fasb.org//1943274/2147482861/275-10-50-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 12-SubTopic 10-Topic 275-Publisher FASB-URI https://asc.fasb.org//1943274/2147482861/275-10-50-12](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 11-SubTopic 10-Topic 275-Publisher FASB-URI https://asc.fasb.org//1943274/2147482861/275-10-50-11)Reference 7: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting>

Standards Codification-Topic 275-SubTopic 10-Section 50-Paragraph 8-Publisher FASB-URI <https://asc.fasb.org//1943274/2147482861/275-10-50-8> Details Name: us-gaap\_UseOfEstimates Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration Business Description and Significant Accounting Policies (Tables) 12 Months Ended Dec. 31, 2023 Organization, Consolidation and Presentation of Financial Statements [Abstract] Schedule of Accounts Receivable Net accounts receivable consisted of the following: As of December 31, 2023 2022 Accounts receivable \$ 577,000 \$ 624,000 Allowance for estimated credit losses (153,000) (209,000) Accounts receivable, net \$ 424,000 \$ 415,000 X-Definition Tabular disclosure of allowance for credit loss on accounts receivable. References Reference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 326-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 13-Publisher FASB-URI https://asc.fasb.org//1943274/2147479319/326-20-50-13> Details Name: us-gaap\_AccountsReceivableAllowanceForCreditLossTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration X-References No definition available. Details Name: us-gaap\_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration Inventory (Tables) 12 Months Ended Dec. 31, 2023 Inventory Disclosure [Abstract] Schedule of Inventory The following table summarizes our inventory reserve activity (in thousands): Reserve balance as of December 31, 2021 \$ (731) Reserve adjustments (316) Disposals 595 Reserve balance as of December 31, 2022 (452) Reserve adjustments (342) Disposals 103 Reserve balance as of December 31, 2023 \$ (691) X-References No definition available. Details Name: us-gaap\_InventoryDisclosureAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X-Definition Tabular disclosure of the carrying amount as of the balance sheet date of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(6\)\(a\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(6)(a))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(6\)\(b\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(6)(b))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(6\)\(e\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(6)(e))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Reference 4: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147483489/210-10-50-1> Details Name: us-gaap\_ScheduleOfInventoryCurrentTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration Prepaid Expenses and Other Current Assets (Tables) 12 Months Ended Dec. 31, 2023 Deferred Costs, Capitalized, Prepaid, and Other Assets Disclosure [Abstract] Schedule of Prepaid Expenses and Other Current Assets Prepaid expenses and other current assets consisted of the following (in thousands): December 31 2023 2022 Prepaid expenses \$ 75 \$ 131 Employee Retention Credit receivable — 316 Other current assets 98 90 Prepaid software licenses 70 112 Prepaid expenses and other current assets \$ 243 \$ 649 X-References No definition available. Details Name: us-gaap\_DeferredCostsCapitalizedPrepaidAndOtherAssetsDisclosureAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X-Definition Tabular disclosure of the amounts paid in advance for capitalized costs that will be expensed with the passage of time or the occurrence of a triggering event, and will be charged against earnings within one year or the normal operating cycle, if longer; the aggregate carrying amount of current assets, not separately presented elsewhere in the balance sheet; and other deferred costs. References No definition available. Details Name: us-gaap\_DeferredCostsCapitalizedPrepaidAndOtherAssetsDisclosureTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration Property and Equipment (Tables) 12 Months Ended Dec. 31, 2023 Property, Plant and Equipment [Abstract] Schedule of Property and Equipment Property and equipment consisted of the following (in thousands): December 31, Estimated Useful Life 2023 2022 Network equipment and software \$ — \$ 1,913 3 to 5 Years Computer equipment and software — \$ 294 3 to 5 Years — 2,207 Accumulated depreciation — (2,204) Property and equipment, net \$ — \$ 3 X-References No definition available. Details Name: us-gaap\_PropertyPlantAndEquipmentAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X-Definition Tabular disclosure of physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated depreciation. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 1-SubTopic 10-Topic 360-Publisher FASB-URI https://asc.fasb.org//1943274/2147482099/360-10-50-1> Details Name: us-gaap\_PropertyPlantAndEquipmentTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration Intangible Assets and Goodwill (Tables) 12 Months Ended Dec. 31, 2023 Goodwill and Intangible Assets Disclosure [Abstract] Schedule of Intangible Assets The following table presents the components of net intangible assets (in thousands): December 31, 2023 2022 Developed technology \$ — \$ 486 Trade names — 204 Total intangible assets — 690 Accumulated amortization — (86) Intangible assets, net \$ — \$ 604 X-References No definition available. Details Name: us-gaap\_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X-Definition Tabular disclosure of assets, excluding financial assets and goodwill, lacking physical substance with a finite life, by either major class or business segment. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-1) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 50-Paragraph 2-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 50-Paragraph 2-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/)

2147482665 / 350-30-50-2 Details Name: us-gaap\_ScheduleOfFiniteLivedIntangibleAssetsTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationAccrued Expenses and Other Current Liabilities (Tables) 12 Months Ended Dec. 31, 2023 Payables and Accruals [ Abstract ] Schedule of Accrued Expenses and Other Liabilities Accrued expenses and other current liabilities consisted of the following (in thousands): December 31, 2023 2022 Compensation costs \$ 448 \$ 707 Customer deposits 118 128 Professional fees 104 57 Taxes and regulatory fees 22 59 Accrued rent 202 — Accrued dividends on Series F Preferred Stock 136 — Other accrued expenses and liabilities 8 123 \$ 1, 038 \$ 1, 074 X-References No definition available. Details Name: us-gaap\_PayablesAndAccrualsAbstract Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: duration X-Definition Tabular disclosure of the components of accrued liabilities. References No definition available. Details Name: us-gaap\_ScheduleOfAccruedLiabilitiesTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration Operating Lease Liabilities and Right-of-Use Assets (Tables) 12 Months Ended Dec. 31, 2023 Leases [ Abstract ] Schedule of Balance Sheet Information The following provides balance sheet information related to leases as of December 31, 2023 and 2022 (in thousands): December 31, 2023 2022 Assets Operating lease, right-of-use asset, net \$ 17 \$ 142 Liabilities Current portion of operating lease liabilities \$ 17 \$ 219 Operating lease liabilities, net of current portion — 17 Total operating lease liabilities \$ 17 \$ 236 Schedule of Future Minimum Rental Payments for Operating Leases The following table summarizes the future undiscounted cash payments reconciled to the lease liability (in thousands): Total lease payments remaining in 2024 \$ 17 Effect of discounting (1) — Total lease liability 17 Less: current portion of lease liabilities 17 Operating lease liabilities, net of current portion \$ — (1) The effect of discounting is less than \$ 1, 000 due to the term remaining on the lease. Schedule of Operating Lease Liability and Right Of Use Assets The following table provides a reconciliation of activity for our right-of-use (“ROU”) assets and lease liabilities (in thousands): Right-of-Use Asset Operating Lease Liability Balance at December 31, 2021 \$ 659 \$ 728 Additions 11 11 Amortizations and Reductions (349) (503) Impairment Charges (179) Balance at December 31, 2022 142 236 Amortizations and Reductions (125) (219) Balance at December 31, 2023 \$ 17 \$ 17 X-Definition Assets And Liabilities, Lessee [ Table Text Block ] References No definition available. Details Name: glow\_AssetsAndLiabilitiesLesseeTableTextBlock Namespace Prefix: glow\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration X-Definition Schedule Of Operating Lease Liability and Right Of Use Assets References No definition available. Details Name: glow\_ScheduleOfOperatingLeaseLiabilityAndRightOfUseAssetsTableTextBlock Namespace Prefix: glow\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration X-References No definition available. Details Name: us-gaap\_LeasesAbstract Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: duration X-Definition Tabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position. References Reference 1: <http://www.xbrl.org/2009/role/commonPractitionerRef-Topic-842-SubTopic-20-Name-Accounting-Standards-Codification-Section-50-Paragraph-6-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147478964/842-20-50-6> Details Name: us-gaap\_LesseeOperatingLeaseLiabilityMaturityTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration Capital Stock (Tables) 12 Months Ended Dec. 31, 2023 Equity [ Abstract ] Schedule of Common Stock Activity There was no Common Stock activity during the year ended December 31, 2022. The following table provides a summary of Common Stock activity for the year ended December 31, 2023: Issued Shares as of December 31, 2022 and 2021 12, 070, 861 Issuances from Preferred Stock conversions 14, 102, 477 Issuances related to warrants 746, 027 Issuances related to stock compensation 179, 535 Common shares exchanged for prefunded warrants (406, 776) Issued Shares as of December 31, 2023 16, 692, 124 Less Treasury Shares: 7, 553 Outstanding Shares as of December 31, 2023 16, 684, 571 Schedule of Warrants Activity Warrants outstanding as of December 31, 2023 are as follows: Issue Date Warrants Issued Exercise Price Expiration Date June 30, 2021 Series A \* 250 \$ 60. 00 January 4, 2024 June 30, 2021 Series B 750 \$ 66. 00 June 28, 2024 Investor Common Warrants 3, 830, 417 \$ 1. 71 September 30, 2028 Placement Agent Warrants 306, 433 \$ 1. 71 September 30, 2028 1, 37, 850 \* The Series A warrant's expiration date has been updated to reflect the extension described above that occurred on January 3, 2023, and as of the date of this filing, the remaining Series A Warrants have expired. Warrant activity for the years ended December 31, 2023 and 2022 is presented below: Outstanding Number of Warrants Weighted Average Exercise Price Warrants outstanding and exercisable, December 31, 2021 343, 099 \$ 995. 06 Warrants outstanding and exercisable, December 31, 2022 343, 099 66. 34 Granted 4, 543, 626 1. 71 Exercised (746, 027) 0. 78 Expired (2, 601) 76. 93 Forfeited (247) — Warrants outstanding and exercisable, December 31, 2023 1, 37, 850 \$ 1. 73 X-References No definition available. Details Name: us-gaap\_EquityAbstract Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: duration X-Definition Tabular disclosure of the change in common stock outstanding. References No definition available. Details Name: us-gaap\_ScheduleOfCommonStockOutstandingRollForwardTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration X-Definition Tabular disclosure of warrants or rights issued. Warrants and rights outstanding are derivative securities that give the holder the right to purchase securities (usually equity) from the issuer at a specific price within a certain time frame. Warrants are often included in a new debt issue to entice investors by a higher return potential. The main difference between warrants and call options is that warrants are issued and guaranteed by the company, whereas options are exchange instruments and are not issued by the company. Also, the lifetime of a warrant is often measured in years, while the lifetime of a typical option is measured in months. Disclose the title of issue of securities called for by warrants and rights outstanding, the aggregate amount of securities called for by warrants and rights outstanding, the date from which the warrants or rights are exercisable, and the price at which the warrant or right is exercisable. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-718-SubTopic-10-Section-50-Paragraph-1-Subparagraph-\(a\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-718-SubTopic-10-Section-50-Paragraph-1-Subparagraph-(a)-Publisher-FASB-URI-https://asc.fasb.org/1943274/)

2147480429/718-10-50-1 Details Name: us-gaap\_ScheduleOfStockholdersEquityNoteWarrantsOrRightsTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: durationPreferred Stock (Tables) 12 Months Ended Dec. 31, 2023 Equity [ Abstract ] Schedule of Series F Preferred Stock Transactions Series F Preferred Stock transactions are summarized in the table below: Series F Preferred Stock Shares Accrued Dividends Weighted Average Conversion Price Common Shares Issued from Conversions March 31, 2023 Issuance 6,550 \$ — 2023 Accrued Dividends \$ 343,000 2023 Conversions (4,620) \$ (207,000) \$ 0.34 14,102,477 December 31, 2023 Balance 1,930 \$ 136,000 14,102,477 X-References No definition available. Details Name: us-gaap\_EquityAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X-Definition Tabular disclosure of an entity's stock, including par or stated value per share, number and dollar amount of share subscriptions, shares authorized, shares issued, shares outstanding, number and dollar amount of shares held in an employee trust, dividend per share, total dividends, share conversion features, par value plus additional paid in capital, the value of treasury stock and other information necessary to a fair presentation, and EPS information. Stock by class includes common, convertible, and preferred stocks which are not redeemable or redeemable solely at the option of the issuer. Includes preferred stock with redemption features that are solely within the control of the issuer and mandatorily redeemable stock if redemption is required to occur only upon liquidation or termination of the reporting entity. If more than one issue is outstanding, state the title of each issue and the corresponding dollar amount; dollar amount of any shares subscribed but unissued and the deduction of subscriptions receivable there from; number of shares authorized, issued, and outstanding. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02 \(27\)\)-SubTopic 10-Topic 210-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02 (27))-SubTopic 10-Topic 210-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02 \(28\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02 (28))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.3-04\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.3-04)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480008/505-10-S99-1) Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02 (29))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Reference 5: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 10-Section 50-Paragraph 3-Publisher FASB-URI https://asc.fasb.org//1943274/2147481112/505-10-50-3> Reference 6: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 10-Section 50-Paragraph 4-Publisher FASB-URI https://asc.fasb.org//1943274/2147481112/505-10-50-4> Reference 7: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 10-Section 50-Paragraph 5-Publisher FASB-URI https://asc.fasb.org//1943274/2147481112/505-10-50-5> Reference 8: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 10-Section 45-Paragraph 2-Publisher FASB-URI https://asc.fasb.org//1943274/2147481142/505-10-45-2> Reference 9: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 10-Section 50-Paragraph 10-Publisher FASB-URI https://asc.fasb.org//1943274/2147481112/505-10-50-10> Reference 10: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 10-Section 50-Paragraph 8-Publisher FASB-URI https://asc.fasb.org//1943274/2147481112/505-10-50-8> Reference 11: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 480-SubTopic 10-Section S99-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147480244/480-10-S99-1> Reference 12: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org//1943274/2147481112/505-10-50-6> Reference 13: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 7-Publisher FASB-URI https://asc.fasb.org//1943274/2147481112/505-10-50-7> Details Name: us-gaap\_ScheduleOfStockByClassTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration Stock Based Compensation (Tables) 12 Months Ended Dec. 31, 2023 Share-Based Payment Arrangement [ Abstract ] Schedule of Compensation Expense A summary of stock compensation expense by category, for the years ended December 31, 2023 and 2022, is as follows: Year Ended December 31, Stock Based Compensation 2023 2022 Options \$ 124 \$ 61 RSUs 380 — Total \$ 504 \$ 61 A summary of stock compensation by department, for the years ended December 31, 2023 and 2022 is as follows: Year Ended December 31, Stock Based Compensation 2023 2022 Research and Development \$ — \$ (64) General & Administrative 504 125 Total \$ 504 \$ 61 Schedule of Options Granted, Exercised, Expired and Forfeited A summary of stock options expired and forfeited under our plans and options outstanding as of, and changes made during, the years ended December 31, 2023 and 2022 is presented below: Outstanding Exercisable Number of Options Weighted Average Exercise Price Number of Options Weighted Average Exercise Price Options outstanding and exercisable, December 31, 2021 27,169 113.63 7,169 294.63 Vested — 3,332 97.56 Expired (501) 410.18 (501) 410.18 Forfeited (10,000) 48.75 — Options outstanding and exercisable, December 31, 2022 16,668 \$ 29.25 10,000 \$ 223.11 Vested — 3,336 48.75 Expired (6,668) 285.89 (6,668) 285.89 Options outstanding and exercisable, December 31, 2023 10,000 \$ 48.75 6,668 \$ 48.75 X-References No definition available. Details Name: us-gaap\_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X-Definition Tabular disclosure of allocation of amount expensed and capitalized for award under share-based payment arrangement to statement of income or comprehensive income and statement of financial position. Includes, but is not limited to, corresponding line item in financial statement. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 10-Section 50-Paragraph 2-Subparagraph \(h\) \(1\)-Publisher FASB-URI https://asc.fasb.org//1943274/](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 10-Section 50-Paragraph 2-Subparagraph (h) (1)-Publisher FASB-URI https://asc.fasb.org//1943274/)

2147480429/718-10-50-2 Details Name: us-gaap\_ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX- Definition Tabular disclosure of activity for award under share-based payment arrangement. Includes, but is not limited to, outstanding award at beginning and end of year, granted, exercised, forfeited, and weighted-average grant date fair value. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 10-Section 50-Paragraph 2-Subparagraph \(e\) \(2\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 10-Section 50-Paragraph 2-Subparagraph (e) (2)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(d\)-SubTopic 10-Topic 718-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (d)-SubTopic 10-Topic 718-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(e\)-SubTopic 10-Topic 718-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (e)-SubTopic 10-Topic 718-Publisher FASB-URI https://asc.fasb.org//1943274/2147480429/718-10-50-2) Details Name: us-gaap\_ScheduleOfShareBasedCompensationActivityTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration Net Loss Per Share (Tables) 12 Months Ended Dec. 31, 2023 Earnings Per Share [ Abstract ] Schedule of Loss Per Share, Basic and Diluted The following table sets forth the computation of the Company's basic and diluted net loss per share (in thousands, except per share data): Year Ended December 31, Numerator: 2023 2022 Net loss \$ (4, 384) \$ (21, 941) Less: preferred stock dividends 343 — Less: conversion inducement 751 — Less: warrant modification 25 — Net loss attributable to common stockholders \$ (5, 503) \$ (21, 941) Denominator: Weighted-average number of shares of common stock for basic net loss per share 5, 595 2, 065 Basic net loss per share \$ (0. 98) \$ (10. 62) Schedule of Potential Shares of Common Stock Excluded from Diluted Weighted Average Shares The following table represents the potential shares that were excluded from the computation of weighted-average number of shares of common stock in computing the diluted net loss per share for the periods presented because including them would have had an anti-dilutive effect: Year Ended December 31, 2023 2022 Unvested restricted stock units — 42 Outstanding stock options 10, 000 16, 668 Common stock issuable upon conversion of Series F Preferred Stock (1) 7, 392, 776 — Common stock issuable upon conversion of Series F Preferred Warrants (2) 117, 299, 427 — Common stock issuable upon conversion of Common Stock Warrants 4, 137, 850 343, 099 (1) Calculation assumes conversion of the stated value, and accrued dividends, of the Series F Preferred Stock as of December 31, 2023 into Common Stock at the Floor Price. (2) Calculation assumes exercise of the Series F Preferred Warrants for cash into Series F Preferred Stock and subsequent conversion of the Series F Preferred Stock into Common Stock at the Floor Price. X-References No definition available. Details Name: us-gaap\_EarningsPerShareAbstract Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- Definition Tabular disclosure of securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) in the future that were not included in the computation of diluted EPS because to do so would increase EPS amounts or decrease loss per share amounts for the period presented, by antidilutive securities. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 260-SubTopic 10-Section 50-Paragraph 1-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 260-SubTopic 10-Section 50-Paragraph 1-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1) Details Name: us-gaap\_ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX- Definition Tabular disclosure of an entity's basic and diluted earnings per share calculations, including a reconciliation of numerators and denominators of the basic and diluted per-share computations for income from continuing operations. References Reference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482662/260-10-50-1) Details Name: us-gaap\_ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: duration Segment Reporting (Tables) 12 Months Ended Dec. 31, 2023 Segment Reporting [ Abstract ] Schedule of Segment Reporting Information Certain information concerning the Company's segments for the years ended December 31, 2023 and 2022 is presented in the following tables (in thousands): Year Ended December 31, 2023 Managed Services Collaboration Products Corporate Total Revenue \$ 2, 518 \$ 1, 292 \$ — \$ 3, 810 Cost of revenues 1, 671 1, 228 — 2, 899 Gross profit \$ 847 \$ 64 \$ — \$ 911 Gross profit % 34 % 5 % — % 24 % Allocated operating expenses \$ 3 \$ 481 \$ — \$ 484 Unallocated operating expenses — 4, 922 4, 922 Total operating expenses \$ 3 \$ 481 \$ 4, 922 \$ 5, 406 Income (loss) from operations \$ 844 \$ (417) \$ (4, 922) \$ (4, 495) Interest and other income, net — (138) (138) Income (loss) before income taxes \$ 844 \$ (417) \$ (4, 784) \$ (4, 357) Income tax expense \$ 11 \$ 16 \$ — \$ 27 Net income (loss) \$ 833 \$ (433) \$ (4, 784) \$ (4, 384) As of December 31, 2023 Total assets \$ 367 \$ 568 \$ 5, 990 \$ 6, 925 Year Ended December 31, 2022 Managed Services Collaboration Products Corporate Total Revenue \$ 3, 348 \$ 2, 128 \$ — \$ 5, 476 Cost of revenues 2, 273 1, 657 — 3, 930 Gross profit \$ 1, 075 \$ 471 \$ — \$ 1, 546 Gross profit % 32. 1 % 22. 1 % — % 28. 2 % Allocated operating expenses \$ 19 \$ 18, 355 \$ — \$ 18, 374 Unallocated operating expenses — 5, 160 5, 160 Total operating expenses \$ 19 \$ 18, 355 \$ 5, 160 \$ 23, 534 Income (loss) from operations \$ 1, 056 \$ (17, 884) \$ (5, 160) \$ (21, 988) Interest and other (income) expense, net 12 (52) — (40) Income (loss) before income taxes \$ 1, 044 \$ (17, 832) \$ (5, 160) \$ (21, 948) Income tax benefit \$ (4) \$ (3) \$ (7) Net income (loss) \$ 1, 048 \$ (17, 829) \$ (5, 160) \$ (21, 941) As of December 31, 2022 Total assets \$ 752 \$ 1, 824 \$ 3, 085 \$ 5, 661 Concentration of revenues was as follows: Year Ended December 31, 2023 2022 Segment % of Revenue % of Revenue Customer A Managed Services 55. 9 % 46. 8 % Concentration of accounts receivable was as follows: As of December 31, 2023 2022 Segment % of Accounts Receivable % of Accounts Receivable Customer A Managed Services 38. 2 % 42. 8 % Customer B Collaboration Products 46. 8 % 22. 0 % Schedule of Revenue from External Customers by Geographic Areas Revenue by geographic area is allocated as follows (in thousands): Year Ended December 31, 2023 2022 Domestic \$ 1, 843 \$ 2, 781 Foreign 1, 967 2, 695 \$ 3,

810 \$ 5, 476 Schedule of Disaggregated Revenue Information Disaggregated information for the Company's revenue has been recognized in the accompanying consolidated statements of operations and is presented below according to contract type (dollars in thousands):

Year Ended December 31, 2023	% of Revenue	2022	% of Revenue	
Revenue: Managed Services	Video collaboration services \$ 183.4	8.8%	\$ 334.6	6.1%
Network services	2,301.60	4.4%	2,954.53	9.9%
Professional and other services	340.9	6.0%	601.1	6.1%
Total Managed Services revenue	\$ 2,518.66	1.1%	\$ 3,348.61	1.1%
Revenue: Collaboration Products	Visual collaboration product offerings \$ 1,291.33	9.9%	\$ 2,114.38	6.6%
Licensing	1	14.0%	3	3.3%
Total Collaboration Products revenue	\$ 1,292.33	9.9%	\$ 2,128.38	9.9%
Total revenue	\$ 3,810.00	0.0%	\$ 5,476.00	0.0%

X-Definition Tabular disclosure of disaggregation of revenue into categories depicting how nature, amount, timing, and uncertainty of revenue and cash flows are affected by economic factor. References Reference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 5-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-5> Details Name: us-gaap\_DisaggregationOfRevenueTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-Definition Tabular disclosure of revenue from external customers by geographic areas attributed to the entity's country of domicile and to foreign countries from which the entity derives revenue. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 41-Subparagraph a-SubTopic 10-Topic 280-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-41> Details Name: us-gaap\_RevenueFromExternalCustomersByGeographicAreasTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-Definition Tabular disclosure of the profit or loss and total assets for each reportable segment. An entity discloses certain information on each reportable segment if the amounts (a) are included in the measure of segment profit or loss reviewed by the chief operating decision maker or (b) are otherwise regularly provided to the chief operating decision maker, even if not included in that measure of segment profit or loss. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 20-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147482573/350-20-50-1> Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 280-SubTopic 10-Section 50-Paragraph 25-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-25> Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 280-SubTopic 10-Section 50-Paragraph 22-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22> Reference 4: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 280-SubTopic 10-Section 50-Paragraph 30-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-30> Details Name: us-gaap\_ScheduleOfSegmentReportingInformationBySegmentTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-types: textBlockItemType Balance Type: na Period Type: durationX-References No definition available. Details Name: us-gaap\_SegmentReportingAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationIncome Taxes (Tables) 12 Months Ended Dec. 31, 2023 Income Tax Disclosure [ Abstract ] Schedule of Loss before Income Tax, Domestic and Foreign The following table sets forth pretax book loss (in thousands):

Year Ended December 31, 2023	2022	United States	Foreign	Total
\$ (4,357)	\$ (21,948)	\$ (4,357)	\$ (21,948)	\$ (26,305)

Schedule of Components of Income Tax (Benefit) Expense The following table sets forth income before taxes and the income tax expense for the years ended December 31, 2023 and 2022 (in thousands):

Year Ended December 31, 2023	2022	Current: Federal	Foreign	Total
\$ 27	\$ (7)	\$ 27	\$ (7)	\$ 20

Schedule of Effective Income Tax Rate Reconciliation Our effective tax rate differs from the statutory federal tax rate for the years ended December 31, 2023 and 2022 as shown in the following table (in thousands):

Year Ended December 31, 2023	2022	U. S. federal income taxes at the statutory rate	Goodwill impairment	State taxes, net of federal effects	U. S. Federal and state NOL carryforward adjustment for expired NOLs	Stock compensation plan adjustments	Change in valuation allowance	Other	Total
915	4,609	1,547	58	375	613	76	112	3,273	7,045

Income tax expense (benefit) \$ 27 \$ (7) Schedule of Deferred Tax Assets and Liabilities The tax effect of the temporary differences that give rise to significant portions of the deferred tax assets and liabilities as of December 31, 2023 and 2022 is presented below (in thousands):

Year Ended December 31, 2023	2022	Deferred tax assets (liabilities): Tax benefit of operating loss carry forward	Federal	State	Accrued expenses	Deferred revenue	Stock-based compensation	Fixed assets	Goodwill	Inventory	Intangible amortization	Section 174 research and experimentation	Other	Total
29,416	28,459	5,965	6,429	131	147	36	129	56	420	4	116	28	156	106

Section 174 research and experimentation — 409 Section 163(j) interest expense 314 — R & D credit 2,154 2,154 Texas margin tax temporary credit 55 74 Other 61 101 Total deferred tax asset, net of deferred tax liabilities 38,380 38,492 Valuation allowance (38,380) (38,492) Net deferred tax asset \$ — \$ — X-References No definition available. Details Name: us-gaap\_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-Definition Tabular disclosure of the components of income tax expense attributable to continuing operations for each year presented including, but not limited to: current tax expense (benefit), deferred tax expense (benefit), investment tax credits, government grants, the benefits of operating loss carryforwards, tax expense that results from allocating certain tax benefits either directly to contributed capital or to reduce goodwill or other noncurrent intangible assets of an acquired entity, adjustments of a deferred tax liability or asset for enacted changes in tax laws or rates or a change in the tax status of the entity, and adjustments of the beginning of the year balances of a valuation allowance because of a change in circumstances that causes a change in judgment about the realizability of the related deferred tax asset in future years. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Paragraph 9-Section 50-Publisher FASB-URI https://asc.fasb.org//1943274/2147482685/740-10-50-9> Details Name: us-gaap\_ScheduleOfComponentsOfIncomeTaxExpenseBenefitTableTextBlock Namespace Prefix: us-gaap\_Data Type: dtr-

types: textBlockItemType Balance Type: na Period Type: durationX- Definition Tabular disclosure of the components of net deferred tax asset or liability recognized in an entity's statement of financial position, including the following: the total of all deferred tax liabilities, the total of all deferred tax assets, the total valuation allowance recognized for deferred tax assets. References Reference 1:

2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 2-  
 Publisher FASB-URI <https://asc.fasb.org//1943274/2147479837/606-10-45-2> Details Name: us-  
 gaap\_ContractWithCustomerLiability Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit  
 Period Type: instantX-Definition The amount of excise and sales taxes included in sales and revenues, which are then deducted  
 as a cost of sales. Includes excise taxes, which are applied to specific types of transactions or items (such as gasoline or alcohol);  
 and sales, use and value added taxes, which are applied to a broad class of revenue-producing transactions involving a wide  
 range of goods and services. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210.5-03\(1\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210.5-03(1))) Publisher FASB-  
 URI <https://asc.fasb.org//1943274/2147483621/220-10-S99-2> Details Name: us-gaap\_ExciseAndSalesTaxes  
 Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-  
 Definition Useful life of finite-lived intangible assets, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the  
 reported fact of one year, five months, and thirteen days. References No definition available. Details Name: us-  
 gaap\_FiniteLivedIntangibleAssetUsefulLife Namespace Prefix: us-gaap\_Data Type: xbrli:durationItemType Balance Type: na  
 Period Type: instantX-Definition Amount of loss from the write-down of an asset representing the future economic benefits  
 arising from other assets acquired in a business combination that are not individually identified and separately recognized.  
 References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(b\)-SubTopic 10-Topic 230](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (b)-SubTopic 10-Topic 230) Publisher FASB-URI <https://asc.fasb.org//1943274/2147482740/230-10-45-28> Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 24> Publisher FASB-URI <https://asc.fasb.org//1943274/2147482548/350-20-55-24> Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(e\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (e)) Publisher FASB-URI <https://asc.fasb.org//1943274/2147482573/350-20-50-1> Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(b\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (b)) Publisher FASB-URI <https://asc.fasb.org//1943274/2147482573/350-20-50-2> Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 45-Paragraph 2> Publisher FASB-URI <https://asc.fasb.org//1943274/2147482598/350-20-45-2> Details Name: us-gaap\_GoodwillImpairmentLoss Namespace Prefix: us-gaap\_Data  
 Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-Definition The amount of impairment loss  
 recognized in the period resulting from the write-down of the carrying amount of a finite-lived intangible asset to fair value.  
 References Reference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-28) Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-3) Details Name: us-gaap\_ImpairmentOfIntangibleAssetsFiniteLived Namespace  
 Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-Definition The amount  
 recovered from insurance. These recoveries reduce costs and losses that are reported as a separate line item under operating  
 expenses. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210.5-03.3\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210.5-03.3)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483621/220-10-S99-2) Details Name: us-gaap\_InsuranceRecoveries Namespace Prefix: us-  
 gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-Definition Sum of the carrying  
 amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and  
 impairment charges. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 50-Paragraph 2-Subparagraph \(\(a\) \(1\), \(b\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 50-Paragraph 2-Subparagraph ((a) (1), (b))-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-2) Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 45-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147482686/350-30-45-1> Details Name: us-gaap\_IntangibleAssetsNetExcludingGoodwill Namespace  
 Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-Definition Amount of loss  
 from reductions in inventory due to subsequent measurement adjustments, including, but not limited to, physical deterioration,  
 obsolescence, or changes in price levels. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 330-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org//1943274/2147483080/330-10-50-2> Details Name: us-gaap\_InventoryWriteDown Namespace Prefix: us-gaap\_Data  
 Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-Definition Term of lessee's operating lease  
 renewal, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and  
 thirteen days. References Reference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(a\) \(3\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147478964/842-20-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (a) (3)-Publisher FASB-URI https://asc.fasb.org//1943274/2147478964/842-20-50-3) Details Name: us-gaap\_LesseeOperatingLeaseRenewalTerm Namespace  
 Prefix: us-gaap\_Data Type: xbrli:durationItemType Balance Type: na Period Type: instantX-Definition Term of lessee's  
 operating lease, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months,  
 and thirteen days. References Reference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(a\) \(3\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147478964/842-20-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (a) (3)-Publisher FASB-URI https://asc.fasb.org//1943274/2147478964/842-20-50-3) Details Name: us-gaap\_LesseeOperatingLeaseTermOfContract Namespace  
 Prefix: us-gaap\_Data Type: xbrli:durationItemType Balance Type: na Period Type: instantX-Definition Number of operating  
 segments. An operating segment is a component of an enterprise: (a) that engages in business activities from which it may earn  
 revenues and incur expenses (including revenues and expenses relating to transactions with other components of the same

enterprise), (b) whose operating results are regularly reviewed by the enterprise's chief operating decision maker to make decisions about resources to be allocated to the segment and assess its performance, and (c) for which discrete financial information is available. An operating segment may engage in business activities for which it has yet to earn revenues, for example, start-up operations may be operating segments before earning revenues. ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-18> Details Name: us-gaap\_NumberOfOperatingSegments Namespace Prefix: us-gaap\_ Data Type: xbrli: integerItemType Balance Type: na Period Type: durationX- DefinitionAmount of loss from impairment of right-of-use asset from operating lease. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 25-Paragraph 6-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479365/842-20-25-6](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 25-Paragraph 6-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479365/842-20-25-6) Details Name: us-gaap\_OperatingLeaseImpairmentLoss Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479041/842-20-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479041/842-20-45-1) Details Name: us-gaap\_OperatingLeaseLiability Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of lessee's right to use underlying asset under operating lease. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479041/842-20-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479041/842-20-45-1) Details Name: us-gaap\_OperatingLeaseRightOfUseAsset Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. ReferencesNo definition available. Details Name: us-gaap\_PropertyPlantAndEquipmentLineItems Namespace Prefix: us-gaap\_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 1-SubTopic 10-Topic 360-Publisher FASB-URI https://asc.fasb.org//1943274/2147482099/360-10-50-1> Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org//1943274/2147481372/852-10-55-10> Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-03 \(a\) \(8\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-03 (a) (8))-Publisher FASB-URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1) Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 360-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147480842/942-360-50-1> Details Name: us-gaap\_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionUseful life of long lived, physical assets used in the normal conduct of business and not intended for resale, in 'PnYnMnDtnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Examples include, but not limited to, land, buildings, machinery and equipment, office equipment, furniture and fixtures, and computer equipment. ReferencesNo definition available. Details Name: us-gaap\_PropertyPlantAndEquipmentUsefulLife Namespace Prefix: us-gaap\_ Data Type: xbrli: durationItemType Balance Type: na Period Type: instantX- DefinitionAmount of cash restricted as to withdrawal or usage; classified as current. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions; and other accounts with general characteristics of demand deposits. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(1\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (1))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 8-Publisher FASB-URI https://asc.fasb.org//1943274/2147482913/230-10-50-8> Details Name: us-gaap\_RestrictedCashCurrent Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount, including tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value-added and excise. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 924-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SAB Topic 11. L\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479941/924-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 924-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SAB Topic 11. L)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479941/924-10-S99-1) Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 5-Publisher FASB-URI https://asc.fasb.org//1943274/2147479806/606-10-50-5> Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 30-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-30](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 30-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-30) Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 42-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-42> Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22) Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482810/280-10-50-22)

Codification-Section 50-Paragraph 32-Subparagraph (b)-Publisher FASB-URI <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 40-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-40>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-22)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-32)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 41-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-41](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 41-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-41)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479806/606-10-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 606-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479806/606-10-50-4)Details Name: us-gaap\_RevenueFromContractWithCustomerIncludingAssessedTax Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount of transaction price allocated to performance obligation that has not been recognized as revenue. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 13-Subparagraph \(a\)-SubTopic 10-Topic 606-Publisher FASB-URI https://asc.fasb.org/1943274/2147479806/606-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification-Section 50-Paragraph 13-Subparagraph (a)-SubTopic 10-Topic 606-Publisher FASB-URI https://asc.fasb.org/1943274/2147479806/606-10-50-13)Details Name: us-gaap\_RevenueRemainingPerformanceObligation Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-Details Name: srt\_ProductOrServiceAxis = us-gaap\_ServiceMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: srt\_ProductOrServiceAxis = us-gaap\_ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: us-gaap\_IncomeStatementLocationAxis = us-gaap\_SalesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: us-gaap\_IncomeStatementLocationAxis = us-gaap\_CostOfSalesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: us-gaap\_TimingOfTransferOfGoodOrServiceAxis = us-gaap\_TransferredOverTimeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: us-gaap\_TimingOfTransferOfGoodOrServiceAxis = us-gaap\_TransferredAtPointInTimeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: srt\_RangeAxis = srt\_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: srt\_RangeAxis = srt\_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: Business Description and Significant Accounting Policies-Schedule of Accounts Receivable (Details)-USD (\$) \$ in Thousands 12 Months Ended Dec. 31, 2023 Dec. 31, 2022 Dec. 31, 2021 Organization, Consolidation and Presentation of Financial Statements [ Abstract ] Accounts receivable \$ 577 \$ 624 \$ 949 Allowance for estimated credit losses (153) (209) \$ (100) Accounts receivable, net Bad debt (recovery) expense \$ (52) \$ 118 X-DefinitionAmount, before allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(3\) \(a\) \(1\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (3) (a) (1))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://www.xbrl.org/2003/role/exampleRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483467/210-10-45-1](http://www.xbrl.org/2003/role/exampleRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483467/210-10-45-1)Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147481990/310-10-45-2>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 9-Publisher FASB-URI https://asc.fasb.org/1943274/2147481990/310-10-45-9>Details Name: us-gaap\_AccountsReceivableGrossCurrent Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147481990/310-10-45-2>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 9-Publisher FASB-URI https://asc.fasb.org/1943274/2147481990/310-10-45-9>Details Name: us-gaap\_AccountsReceivableNetCurrent Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount of allowance for credit loss on accounts receivable, classified as current. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(4\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (4))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 326-SubTopic 20-Name Accounting Standards Codification-Section 45-Paragraph 1-Publisher FASB-URI https://asc.fasb.org/1943274/2147479344/326-20-45-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Publisher FASB-URI https://asc.fasb.org/1943274/2147481962/310-10-50-4>Details Name: us-gaap\_AllowanceForDoubtfulAccountsReceivableCurrent Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-ReferencesNo definition available. Details Name: us-gaap\_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionAmount of expense (reversal of expense) for expected credit loss on accounts receivable. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 326-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 13->

Subparagraph (b)–Publisher FASB–URI <https://asc.fasb.org//1943274/2147479319/326-20-50-13>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 5-03 \(5\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 5-03 (5)))–Publisher FASB–URI <https://asc.fasb.org//1943274/2147483621/220-10-S99-2> Details Name: us-gaap\_ProvisionForDoubtfulAccounts Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: duration Liquidity (Details)–USD (\$) \$ in Thousands 12 Months Ended Dec. 31, 2023–Dec. 31, 2022–Dec. 31, 2021 Accounting Policies [ Abstract ] Total cash and cash equivalents \$ 5,990 \$ 3,085 \$ 9,000 Short-term certificates of deposit Working capital 5,498 Net loss 4,384 21,941 Net cash used in operating activities 2,993 5,934 Sale of property and equipment Proceeds from private placement, net of issuance costs 5,364 Net proceeds from exercise of common stock warrants \$ 534 \$ 0 X–Definition Working Capital References No definition available. Details Name: glow\_WorkingCapital Namespace Prefix: glow\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X–References No definition available. Details Name: us-gaap\_AccountingPolicies Abstract Namespace Prefix: us-gaap\_ Data Type: xbrli: stringItemType Balance Type: na Period Type: duration X–Definition Amount of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available for sale); classified as current. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 320-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 2>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147481830/320-10-45-2>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 326-SubTopic 30-Name Accounting Standards Codification-Section 45-Paragraph 1>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147479130/326-30-45-1> Details Name: us-gaap\_AvailableForSaleSecuritiesDebtSecuritiesCurrent Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X–Definition Amount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 8>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147482913/230-10-50-8>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 24>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147482740/230-10-45-24>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 230-SubTopic 10-Section 45-Paragraph 4>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147482740/230-10-45-4> Details Name: us-gaap\_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X–Definition Amount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 24>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147482740/230-10-45-24> Details Name: us-gaap\_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: duration X–Definition Amount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147482740/230-10-45-28>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 24>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147482740/230-10-45-24>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 25>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147482740/230-10-45-25> Details Name: us-gaap\_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: na Period Type: duration X–Definition The portion of profit or loss for the period, net of income taxes, which is attributable to the parent. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(g\) \(1\) \(ii\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (g) (1) (ii)))–Publisher FASB–URI <https://asc.fasb.org//1943274/2147480678/235-10-S99-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(e\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (e))–Publisher FASB–URI <https://asc.fasb.org//1943274/2147481687/323-10-50-3>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph \(f\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph (f))–Publisher FASB–URI <https://asc.fasb.org//1943274/2147482907/825-10-50-28>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147482765/220-10-50-6>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3>–Publisher FASB–URI <https://asc.fasb.org//1943274/2147483443/250-10-50-3>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(b\) \(2\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (b) (2))–Publisher FASB–URI <https://asc.fasb.org//1943274/2147483443/250-10-50-1>Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 815-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 1-Subparagraph \(f\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 815-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 1-Subparagraph (f))–Publisher FASB–URI <https://asc.fasb.org//1943274/2147480175>

/815-40-65-1Reference 8: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 8-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-8>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 9-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-9>Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 12: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-4>Reference 13: <http://www.xbrl.org/2003/role/exampleRef-Topic 946-SubTopic 830-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org/1943274/2147480167/946-830-55-10>Reference 14: <http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section 45-Paragraph 7-Publisher FASB-URI https://asc.fasb.org/1943274/2147483581/946-220-45-7>Reference 15: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.7-04\(18\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483586/944-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.7-04(18))-Publisher FASB-URI https://asc.fasb.org/1943274/2147483586/944-220-S99-1)Reference 16: <http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 22-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.6-07\(9\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483575/946-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.6-07(9))-Publisher FASB-URI https://asc.fasb.org/1943274/2147483575/946-220-S99-1)Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210.6-09\(1\)\(d\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483575/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210.6-09(1)(d))-Publisher FASB-URI https://asc.fasb.org/1943274/2147483575/946-220-S99-3)Reference 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210.13-01\(a\)\(4\)\(i\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210.13-01(a)(4)(i))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 20: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210.13-01\(a\)\(4\)\(ii\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210.13-01(a)(4)(ii))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 21: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210.13-01\(a\)\(4\)\(iii\)\(A\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210.13-01(a)(4)(iii)(A))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 22: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210.13-01\(a\)\(4\)\(iv\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210.13-01(a)(4)(iv))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 23: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph \(SX 210.13-01\(a\)\(5\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1A-Subparagraph (SX 210.13-01(a)(5))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1A)Reference 24: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210.13-02\(a\)\(4\)\(i\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210.13-02(a)(4)(i))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 25: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(A\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210.13-02(a)(4)(iii)(A))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 26: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(B\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210.13-02(a)(4)(iii)(B))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 27: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210.13-02\(a\)\(4\)\(iv\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210.13-02(a)(4)(iv))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 28: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph \(SX 210.13-02\(a\)\(5\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1B-Subparagraph (SX 210.13-02(a)(5))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1B)Reference 29: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 30-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-30](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 30-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-30)Reference 30: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-32)Reference 31: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 60B-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 60B-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B)Reference 32: <http://www.xbrl.org/2003/role/exampleRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 31-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-31>Reference 33: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 32-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482810/280-10-50-32)Reference 34: <http://www.xbrl.org/2003/role/disclosureRef-Topic 205-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 7-Publisher FASB-URI https://asc.fasb.org/1943274/2147483499/205-20-50-7>Reference 35: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 36: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards>

Codification-Section 45-Paragraph 1A-Subparagraph (a)-Publisher FASB-URI <https://asc.fasb.org//1943274/2147482790/220-10-45-1A>Reference 37: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482790/220-10-45-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482790/220-10-45-1B)Reference 38: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 5-03 \(20\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 5-03 (20)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147483621/220-10-S99-2>Reference 39: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 9-04 \(22\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 9-04 (22)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147483589/942-220-S99-1> Details Name: us-gaap\_NetIncomeLoss Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionThe cash inflow associated with the amount received from entity's raising of capital via private rather than public placement. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 14-Subparagraph \(a\)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-14](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 14-Subparagraph (a)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-14) Details Name: us-gaap\_ProceedsFromIssuanceOfPrivatePlacement Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionThe cash inflow associated with the amount received from holders exercising their stock warrants. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 14-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-14](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 14-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-14) Details Name: us-gaap\_ProceedsFromWarrantExercises Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationInventory-Narrative (Details)-USD (\$) \$ in Thousands Dec. 31, 2023 Dec. 31, 2022Inventory Disclosure [Abstract] Inventory gross \$ 930 \$ 1,175Inventory reservesInventory adjustments \$ 342 \$ 316X-DefinitionAmount of inventory reserves for last-in-first-out (LIFO) and other inventory valuation methods. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(6\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (6)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480566/210-10-S99-1>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 330-SubTopic 10-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147483080/330-10-50-1> Details Name: us-gaap\_InventoryAdjustments Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-ReferencesNo definition available. Details Name: us-gaap\_InventoryDisclosureAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionGross amount, as of the balance sheet date, of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(6\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (6)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480566/210-10-S99-1> Details Name: us-gaap\_InventoryGross Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount of valuation reserve for inventory. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(6\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (6)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480566/210-10-S99-1>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 330-SubTopic 10-Section S99-Paragraph 2-Subparagraph \(SAB TOPIC 5-BB\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480581/330-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 330-SubTopic 10-Section S99-Paragraph 2-Subparagraph (SAB TOPIC 5-BB)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480581/330-10-S99-2) Details Name: us-gaap\_InventoryValuationReserves Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantInventory-Summary of Inventory Reserve Activity (Details)-Inventory reserve-USD (\$) \$ in Thousands 12 Months Ended Dec. 31, 2023 Dec. 31, 2022SEC Schedule, 12-09, Movement in Valuation Allowances and Reserves [Roll Forward] Reserve balance, Beginning Balance \$ (452) \$ (731) Reserve adjustments (342) (316) Disposals Reserve balance, Ending Balance \$ (691) \$ (452) X-DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. ReferencesNo definition available. Details Name: us-gaap\_MovementInValuationAllowancesAndReservesRollForward Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionAmount of increase (decrease) in valuation and qualifying accounts and reserves from adjustment. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 4-Subparagraph \(SX 210. 12-09\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-4](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 4-Subparagraph (SX 210. 12-09)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480678/235-10-S99-4) Details Name: us-gaap\_ValuationAllowancesAndReservesAdjustments Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount of valuation and qualifying accounts and reserves. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 4-Subparagraph \(SX 210. 12-09 \(Column B\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 4-Subparagraph (SX 210. 12-09 (Column B)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480678/235-10-S99-4>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 4-Subparagraph \(SX 210. 12-09 \(Column E\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 4-Subparagraph (SX 210. 12-09 (Column E)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480678/235-10-S99-4> Details Name: us-gaap\_ValuationAllowancesAndReservesBalance Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionAmount of decrease in valuation and qualifying accounts and reserves. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 4-Subparagraph \(SX 210. 12-09 \(Column D\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 4-Subparagraph (SX 210. 12-09 (Column D)))-Publisher FASB-URI <https://asc.fasb.org//1943274/2147480678/235-10-S99-4> Details Name: us-gaap\_ValuationAllowancesAndReservesDeductions Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-Details Name:

us-gaap\_ValuationAllowancesAndReservesTypeAxis = us-gaap\_InventoryValuationReserveMember Namespace Prefix: Data Type: na Balance Type: Period Type: Prepaid Expenses and Other Current Assets (Details)-USD (\$) \$ in Thousands Dec. 31, 2023 Dec. 31, 2022 Deferred Costs, Capitalized, Prepaid, and Other Assets Disclosure [ Abstract ] Prepaid expenses \$ 75 \$ 131 Employee Retention Credit receivable Other current assets Prepaid software licenses Prepaid expenses and other current assets \$ 243 \$ 649X-Definition Prepaid Software Licenses References No definition available. Details Name: glow\_PrepaidSoftwareLicenses Namespace Prefix: glow\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX-Definition Tax Credit Receivable, Current References No definition available. Details Name: glow\_TaxCreditReceivableCurrent Namespace Prefix: glow\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX-References No definition available. Details Name: us-gaap\_DeferredCostsCapitalizedPrepaidAndOtherAssetsDisclosureAbstract Namespace Prefix: us-gaap\_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX-Definition Amount of current assets classified as other. References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org//1943274/2147481372/852-10-55-10> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(8\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(8))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Details Name: us-gaap\_OtherAssetsCurrent Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX-Definition Amount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer. References Reference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(9\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(9))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Details Name: us-gaap\_PrepaidExpenseAndOtherAssetsCurrent Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX-Definition Amount of asset related to consideration paid in advance for costs that provide economic benefits within a future period of one year or the normal operating cycle, if longer. References Reference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph \(g\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483467/210-10-45-1](http://www.xbrl.org/2003/role/exampleRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1-Subparagraph (g)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483467/210-10-45-1) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(7\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(7))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 340-SubTopic 10-Name Accounting Standards Codification-Section 05-Paragraph 5-Publisher FASB-URI https://asc.fasb.org//1943274/2147482955/340-10-05-5> Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 340-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147483032/340-10-45-1> Details Name: us-gaap\_PrepaidExpenseCurrent Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant Property and Equipment-Schedule of Property and Equipment (Details)-USD (\$) \$ in Thousands Dec. 31, 2023 Dec. 31, 2022 Property, Plant and Equipment [ Line Items ] Property and equipment, gross \$ 0 \$ 2, 207 Accumulated depreciation (2, 204) Property and equipment, net \$ 0 Minimum Property, Plant and Equipment [ Line Items ] Estimated Useful Life 3 years Maximum Property, Plant and Equipment [ Line Items ] Estimated Useful Life 10 years Network equipment and software Property, Plant and Equipment [ Line Items ] Property and equipment, gross \$ 0 1, 913 Network equipment and software | Minimum Property, Plant and Equipment [ Line Items ] Estimated Useful Life 3 years Network equipment and software | Maximum Property, Plant and Equipment [ Line Items ] Estimated Useful Life 5 years Computer equipment and software Property, Plant and Equipment [ Line Items ] Property and equipment, gross \$ 0 \$ 294 Computer equipment and software | Minimum Property, Plant and Equipment [ Line Items ] Estimated Useful Life 3 years Computer equipment and software | Maximum Property, Plant and Equipment [ Line Items ] Estimated Useful Life 5 years X-Definition Amount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.7-03\(a\)\(8\)\(b\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.7-03(a)(8)(b))-Publisher FASB-URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(14\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(14))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 360-SubTopic 10-Section 50-Paragraph 1-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482099/360-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 360-SubTopic 10-Section 50-Paragraph 1-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482099/360-10-50-1) Details Name: us-gaap\_AccumulatedDepreciationAndAmortizationPropertyPlantAndEquipment Namespace Prefix: us-gaap\_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX-Definition Amount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.7-03\(a\)\(8\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.7-03(a)(8))-Publisher FASB-URI https://asc.fasb.org//1943274/2147479440/944-210-S99-1) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(13\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(13))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 360-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482099/360-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 360-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482099/360-10-50-1) Details

Name: us-gaap\_PropertyPlantAndEquipmentGross Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. ReferencesNo definition available. Details Name: us-gaap\_PropertyPlantAndEquipmentLineItems Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-50-Paragraph-1-SubTopic-10-Topic-360-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482099/360-10-50-1>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic-852-SubTopic-10-Name-Accounting-Standards-Codification-Section-55-Paragraph-10-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic-944-SubTopic-210-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-\(SX-210-7-03-\(a\)-\(8\)\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147479440/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic-944-SubTopic-210-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-(SX-210-7-03-(a)-(8))-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147479440/944-210-S99-1)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic-942-SubTopic-360-Name-Accounting-Standards-Codification-Section-50-Paragraph-1-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480842/942-360-50-1>Details Name: us-gaap\_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionUseful life of long lived, physical assets used in the normal conduct of business and not intended for resale, in 'PnYnMnDtHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, furniture and fixtures, and computer equipment. ReferencesNo definition available. Details Name: us-gaap\_PropertyPlantAndEquipmentUsefulLife Namespace Prefix: us-gaap\_Data Type: xbrli: durationItemType Balance Type: na Period Type: instantX- Details Name: srt\_RangeAxis = srt\_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt\_RangeAxis = srt\_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap\_PropertyPlantAndEquipmentByTypeAxis = glow\_NetworkEquipmentAndSoftwareMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap\_PropertyPlantAndEquipmentByTypeAxis = glow\_ComputerEquipmentAndSoftwareMember Namespace Prefix: Data Type: na Balance Type: Period Type: Property and Equipment- Narrative (Details)- USD (\$) \$ in Thousands 12 Months EndedDec. 31, 2023-Dec. 31, 2022Property, Plant and Equipment [ Line Items ] Related depreciation and amortization expense \$ 0 \$ 78Accumulated depreciation 2, 204Collaboration Products Property, Plant and Equipment [ Line Items ] Depreciation expense 2, 207 \$ 61Accumulated depreciation (2, 204) Impairment loss \$ 3 X- DefinitionAmount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic-944-SubTopic-210-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-\(SX-210-7-03-\(a\)-\(8\)-\(b\)\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147479440/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic-944-SubTopic-210-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-(SX-210-7-03-(a)-(8)-(b))-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147479440/944-210-S99-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic-210-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-\(SX-210-5-02-\(14\)\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic-210-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-(SX-210-5-02-(14))-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-360-SubTopic-10-Section-50-Paragraph-1-Subparagraph-\(c\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482099/360-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-360-SubTopic-10-Section-50-Paragraph-1-Subparagraph-(c)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482099/360-10-50-1)Details Name: us-gaap\_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionThe amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(b\)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(b)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-360-SubTopic-10-Section-50-Paragraph-1-Subparagraph-\(a\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482099/360-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-360-SubTopic-10-Section-50-Paragraph-1-Subparagraph-(a)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482099/360-10-50-1)Details Name: us-gaap\_Depreciation Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of expense charged against earnings to allocate the cost of tangible and intangible assets over their remaining economic lives, classified as other. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-\(b\)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-45-Paragraph-28-Subparagraph-(b)-SubTopic-10-Topic-230-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-360-SubTopic-10-Section-50-Paragraph-1-Subparagraph-\(a\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482099/360-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-360-SubTopic-10-Section-50-Paragraph-1-Subparagraph-(a)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147482099/360-10-50-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic-220-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-2-Subparagraph-\(SX-210-5-03-3\)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic-220-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-2-Subparagraph-(SX-210-5-03-3)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147483621/220-10-S99-2)Details Name: us-gaap\_OtherDepreciationAndAmortization Namespace Prefix: us-gaap\_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. ReferencesNo definition available. Details Name: us-gaap\_PropertyPlantAndEquipmentLineItems Namespace Prefix: us-gaap\_Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe charge against earnings resulting from the aggregate write down of tangible assets from their carrying value to their fair value. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic-360-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2>

Subparagraph (b)–Publisher FASB–URI <https://asc.fasb.org//1943274/2147482099/360-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 205-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483499/205-20-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 205-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org//1943274/2147483499/205-20-50-1) Details Name: us-gaap\_TangibleAssetImpairmentCharges Namespace Prefix: us-gaap\_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX–Details Name: us-gaap\_StatementBusinessSegmentsAxis = glow\_CollaborationProductsMember Namespace Prefix: Data Type: na Balance Type: Period Type: Intangible Assets and Goodwill–Schedule of Intangible Assets (Details)–USD (\$) \$ in Thousands Dec. 31, 2023–Dec. 31, 2022 Finite-Lived Intangible Assets [Line Items] Total intangible assets \$ 0 \$ 690 Accumulated amortization (86) Intangible assets, net Developed technology Finite-Lived Intangible Assets [Line Items] Total intangible assets Trade names Finite-Lived Intangible Assets [Line Items] Total intangible assets \$ 0 \$ 204X–Definition Accumulated amount of amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(16\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(16))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(1\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(1)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-2) Details Name: us-gaap\_FiniteLivedIntangibleAssetsAccumulatedAmortization Namespace Prefix: us-gaap\_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX–Definition Amount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 928-SubTopic 340-Name Accounting Standards Codification-Section 50-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147483147/928-340-50-1>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(1\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(1)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-2) Details Name: us-gaap\_FiniteLivedIntangibleAssetsGross Namespace Prefix: us-gaap\_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX–Definition Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 926-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 5-Publisher FASB-URI https://asc.fasb.org//1943274/2147483154/926-20-50-5> Details Name: us-gaap\_FiniteLivedIntangibleAssetsLineItems Namespace Prefix: us-gaap\_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX–Definition Amount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 926-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 5-Publisher FASB-URI https://asc.fasb.org//1943274/2147483154/926-20-50-5>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\)\(1\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)(1)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-2) Details Name: us-gaap\_FiniteLivedIntangibleAssetsNet Namespace Prefix: us-gaap\_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX–Details Name: us-gaap\_FiniteLivedIntangibleAssetsByMajorClassAxis = us-gaap\_TechnologyBasedIntangibleAssetsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X–Details Name: us-gaap\_FiniteLivedIntangibleAssetsByMajorClassAxis = us-gaap\_TradeNamesMember Namespace Prefix: Data Type: na Balance Type: Period Type: Intangible Assets and Goodwill–Narrative (Details)–USD (\$) 12 Months Ended Dec. 31, 2023–Dec. 31, 2022 Goodwill and Intangible Assets Disclosure [Abstract] Impairment charges–intangible assets \$ 259,000 \$ 5,133,000 Goodwill Amortization expense 345,000 1,825,000 Impairment charges–goodwill \$ 0 \$ 7,367,000X–Definition The aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(b\)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (b)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org//1943274/2147482740/230-10-45-28)Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 45-Paragraph 2-Publisher FASB-URI https://asc.fasb.org//1943274/2147482686/350-30-45-2>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 50-Paragraph 2-Subparagraph \(a\)\(2\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 350-SubTopic 30-Section 50-Paragraph 2-Subparagraph (a)(2)-Publisher FASB-URI https://asc.fasb.org//1943274/2147482665/350-30-50-2) Details Name: us-gaap\_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap\_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX–Definition Amount after accumulated impairment loss of an asset representing future economic benefits arising from other assets acquired in a business combination that are not individually identified and separately recognized. References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org//1943274/2147481372/852-10-55-10>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 24-Publisher FASB-URI https://asc.fasb.org//1943274/2147482548/350-20-55-24>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02\(15\)\)-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02(15))-Publisher FASB-URI https://asc.fasb.org//1943274/2147480566/210-10-S99-1)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 45-Paragraph 1-Publisher FASB-URI https://asc.fasb.org//1943274/2147482598/350-20-45-1>Reference 5: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI)

<https://asc.fasb.org/1943274/2147482573/350-20-50-1>Reference 6: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(h\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (h)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482573/350-20-50-1)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.9-03\(10\)\(1\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479853/942-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.9-03(10)(1))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479853/942-210-S99-1)Details Name: us-gaap\_Goodwill Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-ReferencesNo definition available. Details Name: us-gaap\_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap\_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionAmount of loss from the write-down of an asset representing the future economic benefits arising from other assets acquired in a business combination that are not individually identified and separately recognized. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(b\)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (b)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 24-Publisher FASB-URI https://asc.fasb.org/1943274/2147482548/350-20-55-24>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(e\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (e)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482573/350-20-50-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482573/350-20-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482573/350-20-50-2)Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 45-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147482598/350-20-45-2>Details Name: us-gaap\_GoodwillImpairmentLoss Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionThe amount of impairment loss recognized in the period resulting from the write-down of the carrying amount of a finite-lived intangible asset to fair value. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-3)Details Name: us-gaap\_ImpairmentOfIntangibleAssetsFinitelived Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationAccrued Expenses and Other Current Liabilities (Details)-USD (\$) \$ in Thousands Dec. 31, 2023 Dec. 31, 2022 Payables and Accruals [ Abstract ] Compensation costs \$ 448 \$ 707 Customer deposits Professional fees Taxes and regulatory fees Accrued rent Accrued dividends on Series F Preferred Stock Other accrued expenses and liabilities Total \$ 1,038 \$ 1,074 X-DefinitionAccrued Sales Taxes and Regulatory Fees ReferencesNo definition available. Details Name: glow\_AccruedSalesTaxesAndRegulatoryFees Namespace Prefix: glow\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionDeposits, Current ReferencesNo definition available. Details Name: glow\_DepositsCurrent Namespace Prefix: glow\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionAmount of expenses incurred but not yet paid nor invoiced, and liabilities classified as other. ReferencesNo definition available. Details Name: us-gaap\_AccruedLiabilitiesAndOtherLiabilities Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for professional fees, such as for legal and accounting services received. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02.20\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph (SX 210.5-02.20)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_AccruedProfessionalFeesCurrent Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for contractual rent under lease arrangements. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). ReferencesReference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 8-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483467/210-10-45-8](http://www.xbrl.org/2003/role/exampleRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 8-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483467/210-10-45-8)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02.20\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph (SX 210.5-02.20)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_AccruedRentCurrent Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionCarrying value as of the balance sheet date of dividends declared but unpaid on equity securities issued by the entity and outstanding. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02.20\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph (SX 210.5-02.20)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap\_DividendsPayableCurrent Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionTotal of the carrying values as of the balance sheet date of obligations incurred through that date and payable for obligations related to services received from employees, such as accrued salaries and bonuses, payroll taxes and fringe benefits. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02.20\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 210-SubTopic 10-Section S99-Paragraph 1-Subparagraph (SX 210.5-02.20)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)

~~Subparagraph (SX 210. 5-02. 20)– Publisher FASB– URI <https://asc.fasb.org//1943274/2147480566/210-10-S99-1>  
Details Name: us-gaap\_EmployeeRelatedLiabilitiesCurrent Namespace Prefix: us-gaap\_Data Type: xbrli:monetaryItemType  
Balance Type: credit Period Type: instantX– DefinitionAmount of expenses incurred but not yet paid classified as other, due  
within one year or the normal operating cycle, if longer. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/  
legacyRef-NameAccountingStandardsCodification-Topic210-SubTopic10-SectionS99-Paragraph1-Subparagraph \(SX  
210. 5-02. 20\)– Publisher FASB– URI <https://asc.fasb.org//1943274/2147480566/210-10-S99-1> Details Name: us-  
gaap\\_OtherAccruedLiabilitiesCurrent Namespace Prefix: us-gaap\\_Data Type: xbrli:monetaryItemType Balance Type: credit  
Period Type: instantX– ReferencesNo definition available. Details Name: us-gaap\\_PayablesAndAcerualsAbstract Namespae  
Prefix: us-gaap\\_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic210-SubTopic10-SectionS99-Paragraph1-Subparagraph(SX210.5-02.20)-PublisherFASB-URIhttps://asc.fasb.org//1943274/2147480566/210-10-S99-1)~~