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Aeluma to Showcase Next-Generation Sensor and Silicon Photonic Solutions at SPIE Defense + Commercial Sensing

Advancing 3D Sensing, Optical Interconnects, AI, and Quantum Computing

GOLETA, CA / [ACCESS Newswire](#) / March 10, 2025 / [SPIE Defense + Commercial Sensing 2025](#) - Aeluma, Inc. (OTCQB:ALMU), a semiconductor company specializing in high performance, scalable technologies for mobile, automotive, AI, defense and aerospace, communication and quantum computing, will showcase its latest advancements in AI-driven photonics, quantum computing, and advanced sensing solutions at SPIE Defense + Commercial Sensing 2025, taking place April 13-17, 2025 at the Gaylord Palms Resort & Convention Center in Orlando, Florida.

During the event, Aeluma will highlight how its heterogeneous semiconductor platform is driving innovation across high-performance computing (HPC), data centers, defense and aerospace, and next-generation communication networks. By integrating quantum dot laser technology with silicon photonics, Aeluma is enabling scalable, high-efficiency optical solutions that meet the increasing demands of consumer sensing, defense and aerospace, AI infrastructure, and quantum computing. Aeluma is also scaling shortwave infrared (SWIR) photodetector sensors with large-diameter substrate manufacturing.

Visit [Aeluma at booth 1302](#) at the [Exhibition](#), taking place April 15-17, 2025, to see the latest **semiconductor and photonic solutions**, including:

- **SWIR Photodetectors:** Delivering scalable and high-performance sensors for AR/VR, mobile phones and tablets, smart devices, defense and aerospace, and autonomous systems.
- **Quantum Dot Lasers for Silicon Photonics:** Advancing optical interconnects for AI and HPC infrastructure.
- **Quantum Computing:** Leveraging 12-inch wafer technology to merge high performance materials with scalable manufacturing platforms.
- **Next-Generation Applications:** Transforming future advanced-node semiconductors for 5G/6G, AI, and quantum computing.
- **Scalable U.S.-Based Manufacturing:** Leveraging Aeluma's ISO 9001:2015 certified capability and 12-inch substrate manufacturing to bridge high-performance materials with mass-market applications.

Aeluma will also participate in key events focused on scaling image sensor technologies and on silicon photonics:

- **Conference: Image Sensing Technologies: Materials, Devices, Systems, and Applications XII**

Aeluma Presentation: [Scalable InGaAs Photodetector Arrays on Large Diameter Substrates](#)

Date: Monday, April 14, 2025

Time: 9:40 AM - 10:00 AM EDT

Location: Miami 2, Ballroom Level

- **Industry Event: [Silicon Photonics for Defense and National Security](#)**

Aeluma Panelist Presentation: Heterogeneous Integration and Quantum Dot Lasers for Silicon Photonics

Date: Thursday, April 17, 2025

Time: 10:30 AM - 11:30 AM EDT

Location: Industry Stage, Exhibition Level

Driving the Future of Sensing, AI, and Quantum Computing

Aeluma's presence at SPIE Defense + Commercial Sensing reinforces its leadership in advanced semiconductor manufacturing and next-generation photonic solutions. With growing market traction and strategic partnerships with NASA, DARPA, and the Department of Energy, Aeluma is well-positioned to support the evolution of sensors, AI, quantum computing, and high-performance optical networks.

To meet with the Aeluma team at the event, attendees are encouraged to contact the company at info@aeluma.com. For more information visit www.aeluma.com.

About Aeluma, Inc.

Aeluma (www.aeluma.com) develops novel optoelectronics for sensing and communication applications. Aeluma has pioneered a technique to manufacture semiconductor chips using high-performance compound semiconductor materials on large-diameter substrates that are commonly used for mass-market microelectronics. The technology has the potential to enhance performance and scale manufacturing, both of which are critical for emerging applications. Aeluma is developing a streamlined business model from its headquarters in Santa Barbara, California that has a state-of-the-art manufacturing cleanroom. Its transformative semiconductor chip technology may impact a variety of markets including automotive LiDAR, mobile, defense & aerospace, AR/VR, AI, quantum, and communication. Aeluma differentiates itself with unique semiconductor manufacturing capability, proprietary technology, the ability to perform rapid prototyping, and a broad set of product offerings.

Forward-Looking Statements

All statements in this press release that are not historical are forward-looking statements, including, among other things, statements relating to the Company's expectations regarding its market position and market opportunity, expectations and plans as to its product development, manufacturing and sales, and relations with its partners and investors. These

statements are not historical facts but rather are based on the Company's current expectations, estimates, and projections regarding its business, operations and other similar or related factors. Words such as "may," "will," "could," "would," "should," "anticipate," "predict," "potential," "continue," "expect," "intend," "plan," "project," "believe," "estimate," and other similar or related expressions are used to identify these forward-looking statements, although not all forward-looking statements contain these words. You should not place undue reliance on forward-looking statements because they involve known and unknown risks, uncertainties, and assumptions that are difficult or impossible to predict and, in some cases, beyond the Company's control. Actual results may differ materially from those in the forward-looking statements as a result of a number of factors, including those described in the Company's filings with the Securities and Exchange Commission. The Company undertakes no obligation to revise or update information in this release to reflect events or circumstances in the future, even if new information becomes available.

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