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Aeluma Commences Sampling of Its Large-Diameter Wafer Photodetectors to a First Tier-1 Automotive Supplier Customer

GOLETA, CA / ACCESSWIRE / March 10, 2023 [Aeluma, Inc.](#) (the "Company") (OTCQB:ALMU), a semiconductor company specializing in scalable, cost-effective sensor technologies for LiDAR (light detection and ranging), communication, and sensing, announced today that it has begun sampling its large-diameter-wafer compatible photodetectors with a delivery to a Tier-1 Automotive Supplier.

The engineering samples were produced with Aeluma's large-diameter wafer manufacturing platform, which is compatible with large-scale foundry manufacturing. The Tier-1 Automotive Supplier is expected to evaluate the samples for performance validation.

[Aeluma recently announced its performance breakthrough](#) for a new class of photodetectors. These sensors achieve low dark current of less than 100 picoamperes (pA) and high quantum efficiency greater than 90%. The breakthrough was achieved on a large-diameter substrate platform enabling many more chips to be produced per wafer. Higher chip count per wafer and highly automated manufacturing directly translates to lower cost chips and allows photodetector arrays to be economically produced.

Differently, incumbent, high performance compound semiconductor sensors are manufactured on small substrates with specialty, low-throughput manufacturing. Those sensors are expensive and do not inherently scale to the volumes necessary for mass market adoption. Aeluma's platform combines large-diameter wafer manufacturing with high performance compound semiconductors, providing a path to scale to mass market volumes and significantly reduce cost without sacrificing performance.

About Aeluma, Inc.

Aeluma (www.aeluma.com) develops novel optoelectronic devices for sensing and communications applications. Aeluma has pioneered a technique to manufacture devices using high performance compound semiconductor materials on large-diameter silicon wafers that are commonly used for mass market microelectronics. The technology has the potential to enhance performance and provide a path to cost-effective, large-scale manufacturing, both of which are critical for future LiDAR and other sensor applications. Aeluma is developing a streamlined business model from its headquarters in Goleta, CA that has a state-of-the-art manufacturing cleanroom.

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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