MEDIA ADVISORY **June 12, 2025**

Excelitas to Display Newest Sensors and Photon Detection Technologies at Sensors Converge 2025

WHO: Excelitas®, the leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor and avionics sectors, will showcase its latest sensors and photonic detection technologies at Sensors Converge 2025.

WHAT: Excelitas experts will present demonstrations of the following laser innovations in Booth 1140:

- **Solid-state LiDAR demonstration** showcasing a custom 16-channel module using a pulsed laser diode array. The chip on ASIC integrated driver features the capabilities of Excelitas high-power lasers (120 W / channel at 40 A) as well as CMOS SPAD (Single Photon Avalanche Diode) array for use in LiDAR system applications.
- **Live temperature measurement demonstration** showcasing medical accuracy with our New CoolEYE TPiA 4.4T 4766 4x4 pixel array with lens hood. The CoolEYE 2D Array is an exceptionally compact infrared array that boasts a 4x4 pixel configuration. Equipped with a high-quality infrared transmissive lens and a highly responsive thermopile sensor featuring a digital I2C interface, this sensor is designed for optimal performance.

Additional products on display include:

- **Next-Generation 905 nm TPG3 Series of Triple-Cavity Pulsed Laser Diodes**: Designed for high-volume range finding and LiDAR systems, Excelitas' new pulsed laser diodes in a TO-56 deliver improved beam uniformity, higher reliability and tailored performance options for diverse short- to long-range applications.
- **C30683 Silicon (Si) APDs with a Transimpedance Amplifier (TIA)**: C30683 receivers deliver best-in-class noise performance for high signal-to-noise ratio in photon detection. As a result, customers can achieve better accuracy, longer range and greater performance for applications including LiDAR, range finding, high-speed, low-light detection and analytical instrumentation.
- **Enhanced C30645 / C30662 InGaAs Avalanche Photodiodes (APDs):** The re-engineered diodes leverage improvements in Excelitas' III/V wafer growth and processing architecture to enable cutting-edge noise specifications for range-finding and LiDAR systems. The new design provides better Signal-to-Noise-Ratios (SNR), and therefore, increased range from the same laser output power.

WHEN: June 25 – 26, 2025

WHERE: Excelitas Booth # 1140
Santa Clara Convention Center, Santa Clara, CA, USA

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About Excelitas
Excelitas is the leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor and avionics end markets. Headquartered in Pittsburgh, PA, USA, Excelitas is an essential partner in the design, development and manufacture of photonic technologies, offering leading-edge innovation in sensing, detection, imaging, optics and specialty illumination for customers worldwide.

Connect with Excelitas on LinkedIn, Facebook, X and Instagram, or visit www.excelitas.com for more information.

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