

Excelitas to Showcase LiDAR Technologies, Radon Detectors and Thermal IR Sensing Advancements at Sensors Converge 2022

WHO: [Excelitas Technologies® Corp.](#), a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions, will highlight its latest photon detection and thermal IR sensing solutions at [Sensors Converge 2022](#) in San Jose, CA.

WHAT: Driving industry performance standards through innovation in sensor functionality, sensitivity, intelligence and connectivity, Excelitas enables technology acceleration across the industrial, automotive, consumer product, medical and smart home sectors. The company's leading-edge detector and sensor technologies on display at Sensors Converge booth #732 include:

PHOTON DETECTION

- **[NEW Radon Detection VTH21 Series Photodiodes](#):** The Excelitas VTH21 Series of Photodiodes are offered in chip form for optimal alpha particle detection such as radon gas detection applications. Featuring a robust chip design in either a waffle pack or Mylar (preferred), these low-capacitance silicon photodiodes provide high responsivity to radiation of interest. These photodiodes are available in two different standard chip geometries including 5x5 mm and 10x10 mm large active area for maximum detection of low-level radiation and feature a spectral response between 400 nm – 1100 nm.
- **LiDAR Technologies Demonstration:** Expert technical staff will present a live demonstration of the joint Excelitas/Elmos 16-channel, solid-state LiDAR demonstrator showcasing the latest generation of Excelitas [Pulsed Laser Diodes](#) assembled onto an Elmos driver IC in combination with an Elmos SPAD (Single Photon Avalanche Diode) array and C-mount lens. Built in partnership with Elmos, the demonstration features the capabilities of both the Excelitas high-power lasers (150 W at 50 A) and laser module capabilities, as well as Elmos laser driver and SPAD array for use in LiDAR system applications to generate 3D point clouds.

THERMAL IR SENSING

- **Smart Home BluePyro Module Demonstration:** Presented at the Excelitas booth, this demonstration brings together the power of Excelitas' small form factor SMD DigiPyro for motion detection along with the integration flexibility of Bluetooth connectivity. The advanced sensor module features an Excelitas [PYD 2592 Dual-Element Low-Power SMD DigiPyro](#) integrated into a reference design with a Bluetooth interface to enable shorter time to market for a variety of low-power, low-cost IoT applications in smart home and consumer electronics sectors.
- **Non-Contact Temperature Measurement Demonstration:** The new



medical-grade version of the Excelitas multi-function CaliPile[®] Sensor [TPiS 1T 1386 L5.5 H](#) will be on demonstration during Sensors Converge at the **Digi-Key Electronics** booth #812. Designed to meet medical-grade temperature measurement requirements, the TPiS 1T 1386 L5.5 H thermopile sensor features integrated signal processing and is factory calibrated to achieve medically accurate measurement without the necessity for re-calibration after integration into the final device. The Non-Contact Temperature Measurement Demonstration will highlight the product's suitability for industrial applications including remote temperature measurement, fast remote over-temperature protection, mid-field human presence detection and far-field human motion detection.

WHEN: June 28 – June 29, 2022

WHERE: McEnergy Convention Center, San Jose, CA
Excelitas Booth # 732

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About Excelitas Technologies

Excelitas Technologies[®] Corp. is a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions to meet the illumination, optical, optronic, sensing, detection and imaging needs of our OEM and end-user customers. Serving a vast array of applications across biomedical, scientific, semiconductor, industrial manufacturing, safety, security, consumer products, defense and aerospace sectors, Excelitas stands committed to enabling our customers' success in their many various end-markets. Our team consists of more than 7,500 professionals working across North America, Europe and Asia, to serve customers worldwide.

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