



MEDIA ADVISORY

April 22, 2026

Excelitas to Showcase Sensor and Detector Innovations for Defense Systems at SPIE Defense + Security 2026

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 exhibit the company's latest sensor and detection technologies at [SPIE Defense + Security 2026](#).

WHAT: Excelitas experts will be at **Booth #1228** to discuss featured products including:

- [NEW C30683-1550 Series InGaAs and C30683-900-R5DH Silicon APDs with a Transimpedance Amplifier \(TIA\)](#): The new integrated APD and TIA modules deliver up to 450 MHz bandwidth for applications including LiDAR and range finding, distributed temperature sensing (DTS), confocal microscopy and analytical instrumentation.
- [Enhanced C30645 / C30662 InGaAs Avalanche Photodiodes \(APDs\)](#): Ideal for use in range-finding and LiDAR systems, these re-engineered diodes leverage improvements in Excelitas' III/V wafer growth and processing architecture to enable cutting-edge noise specifications. The new design provides customers with better Signal-to-Noise-Ratios (SNR), and therefore, increased range from the same laser output power.
- [EXACTD Laser Warning Detectors](#): EXACTD Laser Warning Detectors for ground vehicle, naval vessels and fixed or rotary wing aircraft Laser Warning Systems (LWS) are designed to detect and provide precise angle-of-arrival (AoA) information of incident light emitted by laser range finders, laser target designators and active laser Electro-Optic (E.O.) systems. The modules make use of 9-element Si and InGaAs detector arrays assembled in a sandwich configuration, in conjunction with light guides and a 6-bit digital gray code mask, which through shadowing of the individual channels, encode the incident laser beam AoA into a digital pattern.
- [YAG-Enhanced Quadrant Photodiodes](#): Excelitas is the leading provider of off-the-shelf and customer-specific YAG-enhanced terminal guidance detectors. Available in a range of devices that offer high speed, responsivity and quantum efficiency enhanced for 1064nm, the YAG-enhanced quadrant photodiodes provide an ideal solution for applications including precision munitions, target acquisition, laser spot tracking and semi-active laser (SAL) munitions guidance.
- [High-Energy Laser Optics and Assemblies](#): Excelitas ion beam sputtering (IBS) coating technology produces fully densified coatings that are resistant to environmental contaminants. These high energy optics meet the critical requirements of pulsed, solid-state lasers operating at distinct wavelengths, as well as multi-spectral laser systems and high-powered continuous wave (CW) lasers. Advanced fabrication techniques minimize sub-surface damage and are combined with rigorous control of contamination throughout the production process.
- [Custom Optical Components and Assemblies](#): Excelitas delivers precision optical assembly solutions for the most demanding applications. With highly specialized

abilities for lenses, mirrors, prisms and prism assemblies, Excelitas possesses the industry's most comprehensive optical manufacturing processes from the deep UV to the long wave IR.

- [Luxium Solutions](#): Now part of Excelitas, Luxium Solutions will highlight its range of advanced optical and crystal solutions at **Booth #831**, including aluminum and beryllium mirrors, UV-IR optical components, retroreflectors and hollow roof mirrors.

WHEN: April 28 – 30, 2026

WHERE: Excelitas Booth #1228 | Luxium Solutions Booth #831
Gaylord National Resort & Convention Center, Oxon Hill, MD

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About Excelitas

Excelitas is a 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 advanced technologies, offering leading-edge innovation in sensing, detection, imaging, optics and specialty illumination for customers worldwide. Excelitas is at the forefront of addressing many of the relevant megatrends impacting the world today, including precision medicine, industrial automation, artificial intelligence and connected devices (IoT).

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