

MEDIA ADVISORY

April 19, 2023

## **Excelitas Technologies to Present and Highlight Sensor, Detector and Camera Solutions for Defense and Aerospace at SPIE Defense + Commercial Sensing**

**WHO:** [Excelitas Technologies® Corp.](#), a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions, will showcase its advanced defense and aerospace technology solutions at [SPIE Defense + Commercial Sensing](#). During the conference program, Excelitas Optical Designer Christopher Beckerleg and VP Business Development, Advanced Electronic and Optronic Systems Russ Carpenter will present a session entitled, "[High-Definition Imaging for Long-Range Border Surveillance and Tactical Imaging](#)."

**WHAT:** Excelitas' conference session will discuss the user requirements for long range thermal imaging quantifying the system trade-offs driven by alternative pixel pitches and the impact on range performance. It will also propose a modular architecture and discuss the design philosophy for mid-wave infrared (MWIR) continuous zoom camera solutions to deliver long range performance with low size, weight and power budget constraints. Additionally, Excelitas will introduce the new state-of-the-art, fast aperture, ruggedized MWIR RaptIR camera family.

Company staff will be available at the booth to discuss products including:

- [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 series of quadrant photodiodes provide an ideal solution for applications including precision munitions, target acquisition, laser spot tracking and SAL munitions guidance.
- [RaptIR High-Definition MWIR Camera family](#): A range of high-definition (HD) MWIR thermal imaging cameras, RaptIR utilizes state-of-the-art small pixel pitch technology and fast F/3 aperture zoom lens systems. The cameras combines a ruggedized x12-14 continuous optical zoom capability with the very latest 8µm pixel pitch high operating temperature (HOT) detector to provide exceptional image clarity and range performance. RaptIR delivers long-range surveillance and target identification in a low SWaP ruggedized package featuring long life linear cooler and low noise operation.
- [Defense and Aerospace Sensors](#): Excelitas offers over 30 years of experience providing sensors for the accurate measurement and detection of light, heat,



motion and distance in mission-critical military and aerospace applications. Featuring both standard (off-the-shelf) products and customer-specific designs, Excelitas defense and aerospace solutions include a wide range of emitters and detectors for laser ranging and designating and proximity fuzing and laser warning systems, terminal guidance detectors for precision guided munitions and laser spot tracking, as well as emitters for target acquisition, ranging and designation.

**WHEN:** May 2 – May 4, 2023

**WHERE:** Gaylord Palms Resort & Convention Center, Kissimmee, FL  
Booth #1631

High-Definition Imaging for Long-Range Border Surveillance and Tactical Imaging Session, Tuesday, May 2, 2023 | 11:40 AM - 12:00 PM EDT | Osceola Ballroom B

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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.

Connect with Excelitas on [Facebook](#), [LinkedIn](#), [Twitter](#) and [Instagram](#), or visit <http://www.excelitas.com> for more information.

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