



SPIE Defense + Commercial Sensing 2019 – Baltimore, US

April 16-18, 2019
An advance look at the products, trends and technologies being presented.



SPIE's Defense + Commercial Sensing 2019 to Showcase Latest Advances
SPIE Defense + Commercial Sensing 2019 (DCS) — a leading conference on imaging, sensing, and photonic technologies designed for defense and security applications — is set to take place at the Baltimore Convention Center April 14-18, 2019. The conference will include two technical programs featuring 1600 presentations, a 300-company expo, and 29 courses focused on training and education.

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Featured Exhibitors

Embedded Vision Solutions
From: Critical Link LLC
Critical Link provides production-ready processor boards and embedded imaging platforms ranging from <1 MP up to 50 MP. Our latest design uses the CMV50000 image sensor from ams/CMOSIS and Arria 10 SoC from Intel/Altera. It is an open architecture design with dual core ARM and user-programmable FPGA fabric and an array of interface options for industrial embedded vision applications.

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New Thermal Imaging Assemblies
From: LightPath Technologies Inc.
LightPath Technologies will be showcasing its new line of Thermal Imaging Lens Assemblies (TILA) at SPIE DCS. These lenses are made from LightPath's in-house domestically melted BD6™ glass that delivers optically athermal performance and is suitable for high-volume, cost-effective manufacturing. With lens focal lengths ranging from 1.5mm to 60mm, along with custom design capabilities, LightPath has a lens solution for a broad array of thermal (LWIR) imaging applications.

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PCO Back Illuminated sCMOS Cameras
From: PCO-TECH Inc.
PCO's 16 bit back illuminated sCMOS cameras stand out with nearly perfect quantum efficiency up to 95%. High resolutions with 6.5µm² pixel size allow highly qualitative images. The pco.edge 4.2 bi's adjustable cooling system enables the use of air or water to cool the sensor down to -25°C. The pco.panda 4.2 bi comes in an ultra-compact design. It's perfectly suited for low light conditions without the need for active cooling.

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Thin-Film Optical Coatings for Defense
From: VIAVI Solutions Inc.
VIAVI Solutions Optical Coating Laboratory, founded 70 years ago as OCLI, is a leading supplier of military-grade, custom thin-film coated optical products. From prototype to production, our expertise, technology, and processes give customers a competitive advantage. Our solutions are critical to a variety of aerospace and defense applications, including optical filters and engineered diffusers for guidance systems, laser protection, high-energy laser systems, and night vision systems.

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High-Performance IR Detector & QCL
From: Boston Electronics Corporation
Boston Electronics offers from its industry leading partners, fast, non-cryogenic infrared detectors (Vigo System); and high-performance infrared quantum cascade lasers (QCL) from Alpes Lasers. Our fast detectors (room-temperature or TE-cooled) have nanosecond time constants. Tunable QCL are available from 4 to 16+ µm, with various packaging options, and fiber coupling. The detectors and QCL are available with supporting preamplifiers, controllers, drive and power electronics for turnkey operation.

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Laser Diode MicroModules
From: Advanced Photonic Sciences LLC
Advanced Photonic Sciences offers precision OEM micromodules for heatsinking, collimating, and mounting 9.0, 5.6, and 3.7 mm TO diode packages. Available with rectangular or circular form factors, simply solder wires to the integrated PCB and apply current. They can be used for diode lasers from the UV to the mid-IR and with output powers up to 3 W. Micromodules may also be used to mount and operate miniature DPSSLs such as our legacy MicroGreen™ lasers.

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The new SWaP+C Neutrino LC
From: FLIR Systems Inc.
The new compact and lightweight Neutrino LC, with its high operating temperature (HOT) focal plane array, sets the standard for SWaP+C. Neutrinos are ideal for commercial, industrial, and defense applications. Built from the ground up for integrators, they are easy to integrate, making for shorter time to market.

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