



SPIE Defense + Commercial Sensing 2019 – Baltimore, US

April 16-18, 2019

An advance look at the products, trends and technologies being presented.




Piecing Together the Future Battlefield with Mosaic Warfare at DCS

Highly advanced technology and combatants have modernized the concepts and methods for war. Philip Perconti, Ph.D., director at the U.S. Army Research Lab, and Timothy Grayson, Ph.D., office director at Strategic Technology Office DARPA, will present their ideas on how to address these new and ever-changing characteristics in plenary sessions highlighting the first two days of SPIE's Defense and Commercial Sensing Conference, held next week in Baltimore, Md.

Dr. Philip Perconti (Photo courtesy of U.S. Army)


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The Optikos engineering team will help develop your optically-based solution, including:

- Night vision
- Sensor systems
- 3-D visualization
- Custom test stations
- Hyperspectral imaging
- Millimeter wave testing



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Featured Exhibitors

Telescope Test Bench - ImageMaster® Afocal
From: TRIOPTICS GmbH

For image quality testing of optical afocal systems TRIOPTICS has developed the telescope test bench ImageMaster® Afocal. The horizontal measurement system is well suited for afocal samples like telescopes and riflescopes. Additional options and dedicated sample holders enable measurements of various parameters for binoculars and spotting scopes. The wide range of parameters include MTF or magnification, and with its focusable collimator also specific measurements like parallax (free distance) are performed.



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Newest Uniform Source Systems
From: Labsphere Inc., Photonics

SPARC series of affordable uniform source systems are designed for flat fielding and calibrating cameras and sensors for photometric and radiometric responses from low to high light levels. SPARC yields high fidelity measurements while keeping the user experience simple with turnkey features and excellent dynamic range. A great all-around uniform source system for camera and sensor testing. Easy • Accurate • Awesome



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LensCheck™ LWIR System
From: Optikos Corporation

LensCheck™ offers a compact, cost-effective solution for long wave infrared lens testing and qualification. Powered by OpTest® 7 Software, automated measurement routines and industry-leading accuracy make it the instrument of choice in production and R&D facilities around the world. Measurements include MTF (on- and off-axis), focal length, distortion, field curvature, chief ray angle, relative illumination, chromatic aberration; and options include a Rotary Lens Mount, and Audit and Reference Lenses.



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New Test Equipment & Fiber Optic Components
From: OZ Optics Limited

OZ Optics is introducing OSNR generators, modulator bias controllers, super-fast EDFAs, handheld optical spectrometers, broadband entangled photon sources, single/multi-channel benchtop digital variable attenuators, high-speed polarization controllers/scramblers, delay lines, fiber length meters, electrically controlled/manual variable tunable filters, low-cost smart detector heads, polarization extinction ratio meters, 630-2000 nm backreflection meters, directional optical taps/power monitors, hermetically sealed fiber assemblies with glass/metal solder, components for OCT applications, and polarization maintaining components.



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Optics for High Power
From: Optimax Systems Inc.

Optimax is America's largest optics manufacturer. On the cutting-edge of future applications, Optimax implements an engineered solutions approach to help our customers achieve breakthroughs in the aerospace, defense, semiconductor, research, and medical industries. Optimax has a wide range of capabilities to support your programs, including aspheres, cylinders, freeforms, prisms, spheres, and advanced e-beam, APS, IAD, and IBS coatings.



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LPCVD Conformal AR Coatings
From: Deposition Sciences Inc. (DSI)

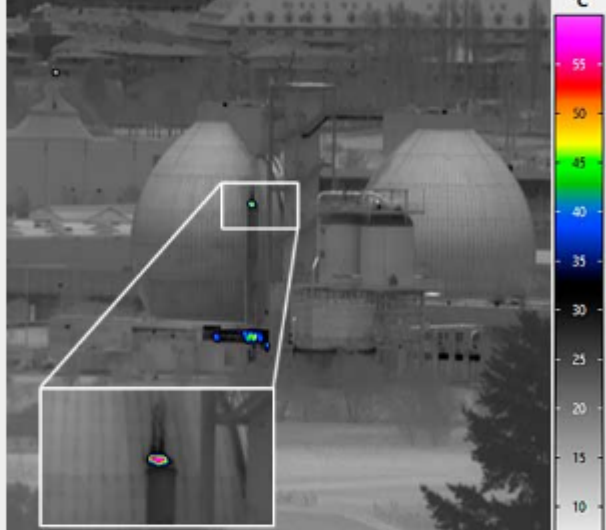
Low Pressure Chemical Vapor Deposition (LPCVD) is a high-temperature process that provides seamless, conformal coatings on a variety of substrates including glass, ceramics, and metals. In the LPCVD process, all surfaces are uniformly coated with a high-quality multilayer optical coating. Deposition Science's LPCVD coatings feature laser damage threshold levels as high as 25 MW/cm², making them ideal for high-energy systems such as laser, gas, diode, and diode-pumped solid-state systems.



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Thermographic Zoom Cameras
From: InfraTec GmbH, Infrarotsensorik und Messtechnik

Solving thermographic measurement tasks at rapidly varying distances or fields of view is often associated with technical effort and economically unacceptable costs. In these cases, rely on InfraTec's radiometrically-calibrated thermographic cameras with cooled and uncooled detectors up to (1,280 x 1,024) IR pixels with powerful zoom lenses. Due to 30x IR-optical zoom with (28 ... 850) mm focal length, different measurement scenes can be adapted quickly and flexibly.



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Diamond-Like Coating (DLC)
From: Materion Precision Spectral

DLC can be customized to provide spectral performance in the MWIR and LWIR range. Materials that can be coated include germanium, silicon, zinc-sulfide, etc. Due to the high-hardness of our product, it has extreme durability and is resistant to a variety of harsh conditions. We offer US-based, in-house integration and production of coatings up to 18 in. Contact us to see how we can help with your current needs.



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The new SWaP+C Neutrino LC
From: FLIR Systems Inc.

The new 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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