

# sneak PREVIEW



PHOTONICS MEDIA

## SPIE Defense + Commercial Sensing – Anaheim, CA

April 11 - 13

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



**Defense, Environment, Health Care in Focus at DCS 2017**  
Touted a leading global event in the photonics industry, the 2017 SPIE Defense and Commercial Sensing conference and exhibition — to be held in Anaheim, Calif., April 9-13 — will highlight innovative advances in defense and security sectors, as well as the environmental and health care segments. This annual event offers the opportunity for information exchange, as well as business and professional development.

DCS features two technical tracks — Defense and Security, and Commercial and Scientific Sensing and Imaging. Three focused topical tracks are also scheduled, covering unmanned autonomous systems technology, agriculture components, and fiber optic sensors. Courses, research presentations, and plenary talks will be offered, in addition to the Rising Researchers and SPIE Fellows recognition programs.

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**LEADER IN OPTICAL TECHNOLOGY**

- MOLDED GLASS ASPHERIC LENSES
- FUSED FIBER COLLIMATORS
- INFRARED LENSES AND THERMAL IMAGING ASSEMBLIES
- OPTICAL ASSEMBLIES

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## Featured Exhibitors

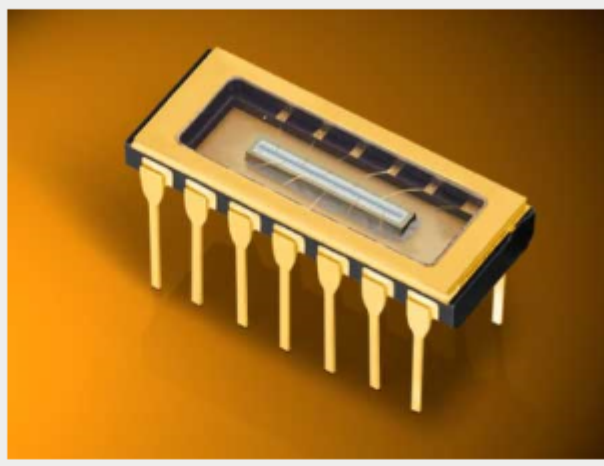
### Look into the Future

**From: Laser Components USA Inc.**

Autonomous cars, UAVs, and Robotics equipped with LiDAR systems will soon take over the marketplace. Laser Components offers Avalanche Photodiodes (APDs) and Pulsed Laser Diodes (PLDs) optimized for LiDAR applications. The latest advances include a 12-element APD Array with number and dimension of the individual elements that can be customized to the specific requirements, and the QuickSwitch PLD that generates 50 W at 2.5 ns in a TO56 package.

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### BD6 - Chalcogenide Glass

**From: LightPath Technologies Inc.**

As40Se60 chalcogenide glass or BD6 is being produced in high volumes in the Orlando, FL facility and can be used in many infrared applications. This also supports the precision diamond-turned and coating options available through its subsidiary, ISP Optics.

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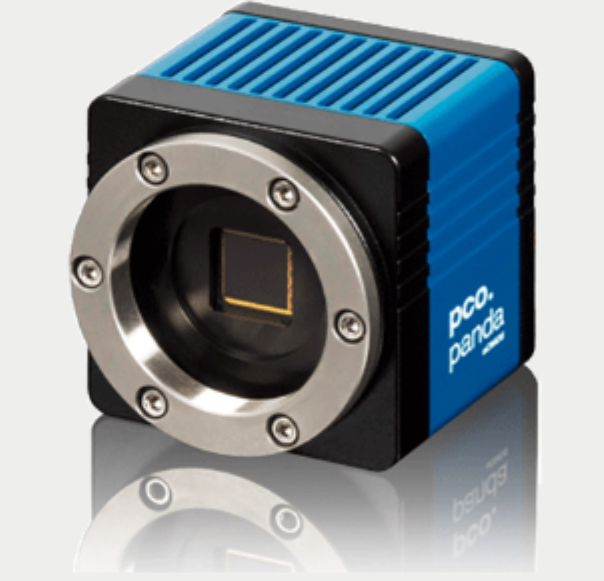
### PCO's Small But Mighty Panda Cam

**From: PCO**

The new pco.panda sCMOS camera provides high quantum efficiency with low dark current noise in an ultra-compact body. The addition of the USB 3.1 interface enables a new generation of cameras with ultra-speed data transfer and power via the USB cable. Be the first to see our "blue panda" exclusively at this year's SPIE Defense + Commercial Sensing in Anaheim and meet us at booth #657.

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### Distributed Strain & Temperature Sensor

**From: OZ Optics Limited**

2009 Frost & Sullivan Award Winning sensor simultaneously measures strain and temperature along the entire fiber length with high-resolution. By wrapping or embedding standard telecom fiber inside a power line/pipeline, users can detect when & where the structure is being strained or heated and correct the problem before failure occurs. It is ideal for monitoring pipelines or power lines. The sensor could also be used in detecting fire and corrosion/erosion.

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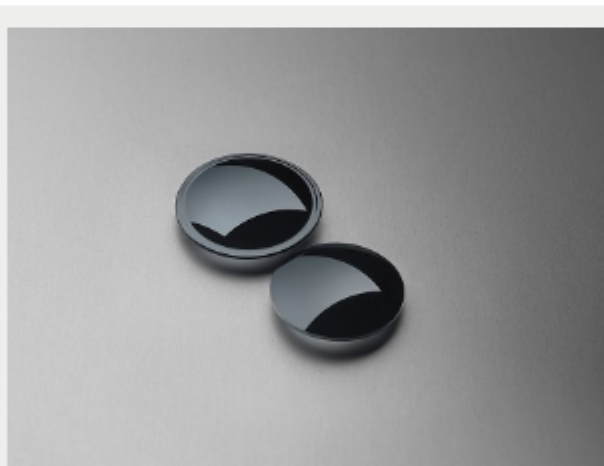
### FISBA Infrared Glass Optics

**From: FISBA AG**

FISBA produces solutions in precision glass molding for infrared, which include components in the SWIR, MWIR and LWIR. Infrared lenses are suited for many defense & security applications, such as thermal imaging, remote sensing and surveillance, among others. FISBA offers complete service from design to serial production including centering, coating and cementing. FISBA's precision molded optics for infrared are produced in Tucson, Arizona, at their ITAR registered facility.

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### Aerospace and Defense

**From: Corning Advanced Optics**

Corning Advanced Optics is a premier supplier of custom electro-optical solutions, opto-mechanical assemblies, optical materials, and large monolithic mirror blanks for the aerospace and defense communities. We are recognized around the world as leaders in process innovation, material science, optomechanical design, diamond-turning, optical grinding and polishing, ultra-precision machining, and thin-film coatings.

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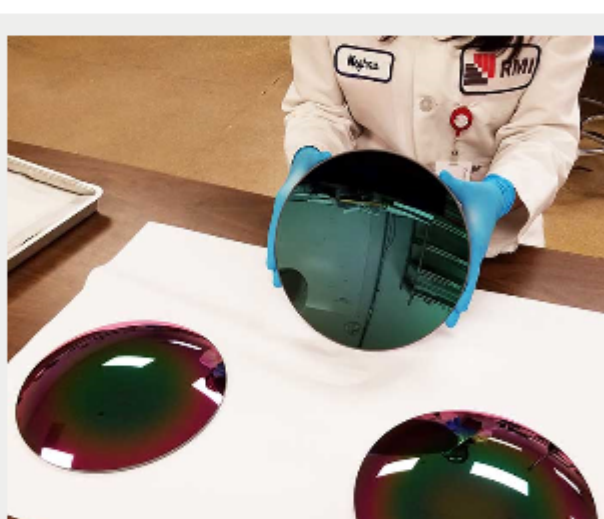
### IR & Thermal Imaging Optics

**From: Rocky Mountain Instrument Co. (RMI)**

Rocky Mountain Instrument (RMI) specializes in OEM solutions for IR thin-film coatings, IR optics & optical sub-assemblies. Our capabilities include thorium-free SWIR/MWIR/LWIR broadband AR coatings; diamond-turned and conventionally polished lens elements made from Si, Ge, Cleartran, ZnS, ZnSe, CaF<sub>2</sub>; and comprehensive in-house environmental testing including Mil-Spec. RMI products are ITAR registered, ISO certified & made in the USA since 1957.

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### Optical Measurement...Exactly

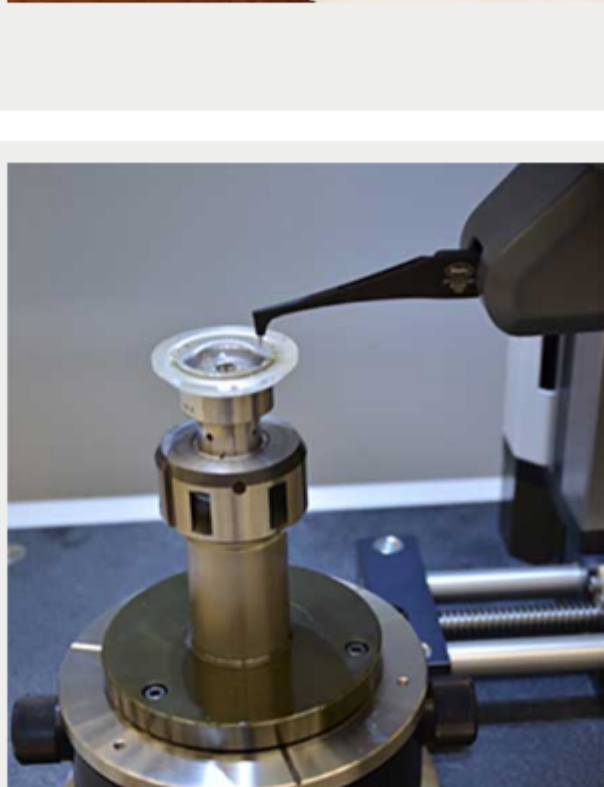
**From: Mahr Federal Inc.**

The MarSurf UD 130, MarSurf LD 130, and MarSurf LD 260 Aspheric measuring stations have been developed to allow the profile measurement of a wide range of optic types up to 260 mm in diameter without the need for stitching.

- Easy measurement of difference profile (P-V), RMS, and slope error
- Export of differential profile for closed loop manufacturing
- Easy probe exchange without requiring probe recalibration
- Aspheric, diffractive, axicon, plano, and cylindrical lenses
- Available in 2D and 3D machine versions

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## PHOTONICS MEDIA



### STOP BY OUR BOOTH

Visit *Photonics Spectra* in booth 200 as we celebrate 50 years in 2017! The April edition of *Photonics Spectra* magazine is our defense issue with feature articles covering:

- High-Speed IR Read-Outs for Defense Applications
- Augmented Reality/Virtual Reality for Defense
- UAS / UAVs for Emerging Defense and Military Applications
- Trends in Biological/Chemical Sensing in Defense
- Defense and Photonics – 50 Years in Review
- Plus, a preview of Defense + Commercial Sensing 2017

While you are at our booth you can start or renew a subscription to our magazines for FREE, look through all our latest issues, pick up a 2017 calendar highlighting some of the industry events, grab a FREE Photonics Media bag to carry them all away in, and enter-to-win a \$100 Amazon Gift Card.

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