



# PHOTONICS SHOWCASE



## November 2018

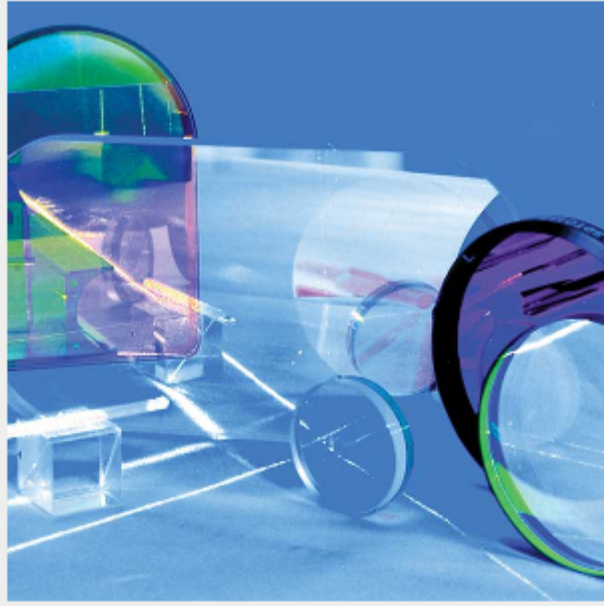
Bi-monthly product-focused newsletter with highlights from the latest issue of Photonics Showcase. Use the Request Info links below to ask for more information about these products, or visit [Photonics.com/rssc](http://Photonics.com/rssc). Manage your Photonics Media membership at [Photonics.com/subscribe](http://Photonics.com/subscribe).

## Featured Products

### Thin Films and Optical Assembly

#### From: Applied Optics Center (AOC)

The Applied Optics Center has been and continues to be one of the preeminent suppliers of laser blocking and absorbing filters as well as optical assemblies to both the U.S. military and commercial industry. Five 2-meter coating chambers, along with various 1-meter and 1/2-meter chambers, place AOC in a unique position with regard to coating capacity. A wide variety of coatings on various substrates can be designed.



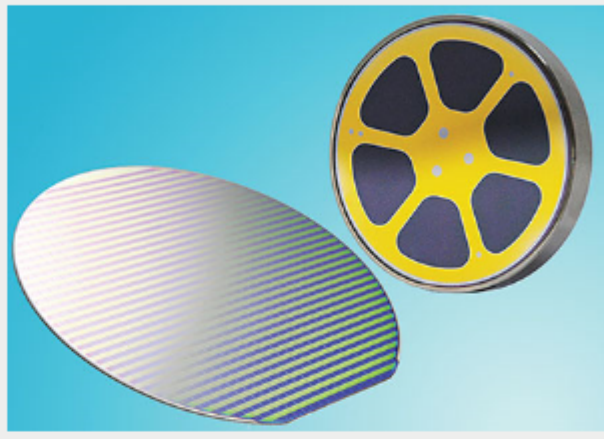
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### Patterned Thin-Film Optical Filters

#### From: Deposition Sciences Inc. (DSI)

DSI can photolithographically pattern coatings to deliver filter arrays, fiducials, apertures, and many other coatings with features down to 20  $\mu\text{m}$ , on substrates up to 8 in. in diameter. We specialize in supporting customers in the development of coatings for unusual or challenging substrate geometries for applications ranging from multispectral sensing and imaging, through colorimetry and remote sensing.



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### Z-Piezo Stage Insert IPZ-3000

#### From: Applied Scientific Instrumentation Inc.

The IPZ-3000 series piezo insert will fit in most microscope stages with the standard (K-size) stage insert opening. Several sample holders are available to fit the IPZ-3000 insert for holding small dishes, slides or chambers. Travel ranges available are 150, 300, and 500  $\mu\text{m}$ . The piezo insert is controlled via an MS-2000 controller that accepts serial, USB and analog inputs.



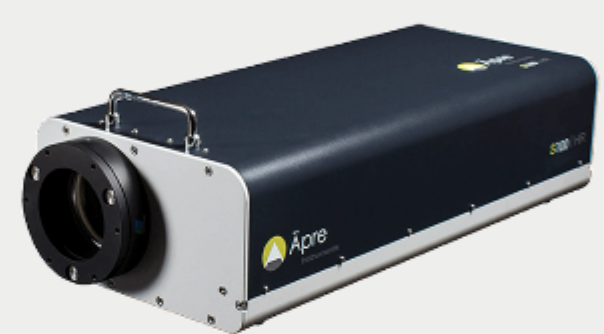
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### Need a New Interferometer?

#### From: Apre Instruments

APRE's General Purpose SR Fizeau have diffraction-limited imaging at 1 MP with  $<0.1$  percent distortion. Plus  $<\lambda/20$  retrace error at 250 fringes across each of the available 50-, 100-, and 150-mm apertures. Even better, it is priced comparable to a 6 $\times$ -zoom system. Don't just add capacity, advance your optical manufacturing; email or call Don today.



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## Additional Products



### Measure Large-Size LED Luminaires

#### Ophir, Photonics

Ophir<sup>®</sup> FluxGage<sup>™</sup> FG1500 is a compact system for fast, photometric measurement of large-size street and industrial luminaires, LED flat panels, and troffer lights. Features aperture size of 144  $\times$  64 cm and measurements of total luminous flux (up to 80,000 lm), spectrum and color parameters (CCT, CRI, TM-30),...

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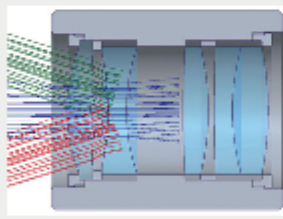
### FRED Optical Engineering Software

#### Photon Engineering LLC

Unleash your engineering creativity and inquisitive mind with FRED<sup>MPC</sup>. Predict performance with higher confidence by tracing orders of magnitude more rays through your system. Experiment by varying more parameters to find the optimum hardware configuration. Ask more "What if...?" questions.

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### Streamline Your Product Design

#### Zemax, Optical Product Design Software

Streamline your optomechanical design workflow with LensMechanix for Creo and SOLIDWORKS. Design mechanical structures around optical components using exact data. Apply surface finishes to mechanical components to accurately model scattering properties.

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### OptoSigma Compact Microscope

#### OptoSigma Corp.

The OptoSigma OUCI is a customizable, high-performance imaging system for use in a wide range of applications from scientific research to industrial production equipment. Designed for industry-standard infinite conjugate objectives...

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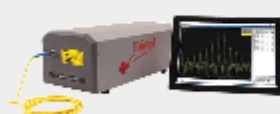
### Two-Axis Linear Stage

#### Aerotech Inc.

Aerotech's ANT130XY crossed-roller-bearing, direct-drive, dual-axis stage offers 60-  $\times$  60-mm, 110-  $\times$  110-mm, and 160-  $\times$  160-mm travels. Direct-drive has no hysteresis or backlash, enabling accurate and repeatable nanometer-scale motion in both the X and Y dimensions.

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### Laser Spectrum Analyzer

#### Bristol Instruments Inc.

The model 771 operates as both a high-resolution spectrum analyzer and a high-accuracy wavelength meter. With spectral resolution up to 2 GHz and wavelength accuracy as high as  $\pm 0.0001$  nm, this system provides the most detailed information.

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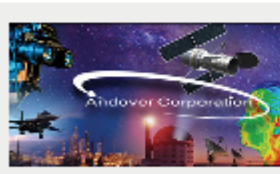
### Continuous-Zoom AccuFiz

#### 4D Technology Corporation

3 $\times$  continuous optical zoom AccuFiz<sup>®</sup> — a coherent, laser Fizeau interferometer, making high-resolution measurements of varying optical part sizes. Measures surface shape, transmitted wavefront, homogeneity, and even plane-parallel optics.

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### Optical Filters and Coatings

#### Andover Corporation

Andover was established in 1976 with the purpose of designing and manufacturing high-quality optical filters and coatings. We design and manufacture filters and coatings for a wide variety of applications. We are AS9100 and ISO 9001 certified.

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### Optical Laboratory Equipment

#### Terahertz Technologies Inc.

Terahertz Technologies Inc. manufactures a variety of U.S.-made products for your optical laboratory needs. We offer O/E converters in bandwidths from DC to 20 GHz and E/O/E fiber optic, lab grade links. We have a Phase-Locked-Loop Optical Chopper with direct digital synthesis to provide crystal controlled accuracy and stability.

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### 300°C Wire-Grid Polarizer

#### Moxtek Inc.

Moxtek polarizers are designed for broadband UV-VIS-IR wavelengths and have uniform performance over wide cone angles. Our polarizers are made from heat-tolerant inorganic materials, enabling high temperature exposures that would degrade film-based polarizers.

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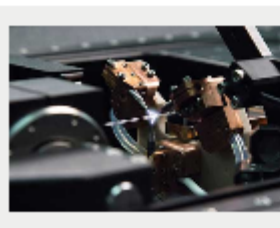
### Sapphire and Ruby Balls

#### Meller Optics Inc.

Meller sapphire and ruby balls feature Mohs 9 hardness, second only to diamond, and are impervious to most chemicals, solvents, and detergents. Offered in a wide range of sizes, they are suitable for applications such as ball check valves, and chromatography pistons and pumps..

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### 3SAE Combiner Manufacturing System

#### 3SAE Technologies Inc.

The 3SAE Combiner Manufacturing System (CMS) is a vacuum-based optical glass processing system designed to maintain production level repeatability for combiners and other fused optical components. The CMS includes tapering, cleaving, bundling and splicing utilizing...

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