

# PHOTONICS SHOWCASE



PHOTONICS MEDIA

## November 2017

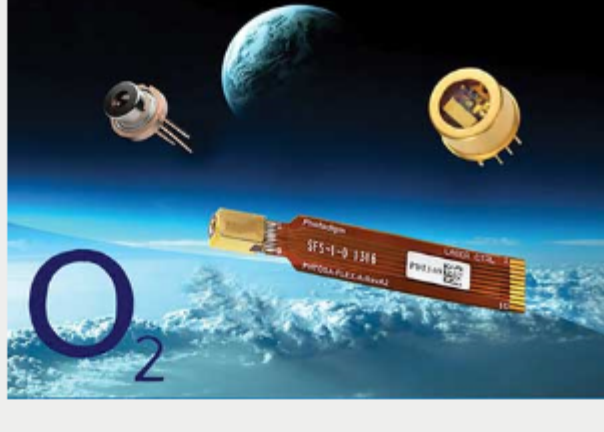
Bi-monthly product-focused newsletter with highlights from the latest issue of Photonics Showcase. Use the Request Info links below to ask for more information about these products, or visit [Photonics.com/rssc](http://Photonics.com/rssc). Manage your Photonics Media membership at [Photonics.com/subscribe](http://Photonics.com/subscribe).

## Featured Products

### [DBR Lasers for O<sub>2</sub> Monitoring](#)

**From: Photodigm Inc.**

Photodigm 760nm DBR laser diodes are the choice for oxygen monitoring. A mode-hop free tuning range of 2 nm enables flexible sampling of the pressure-broadened O<sub>2</sub> spectrum. These devices deliver up to 60 mW in a single spatial and longitudinal mode. Applications include optimization of combustion stoichiometry in smoky environments.



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### [3 MPix Spatial Light Modulator](#)

**From: Forth Dimension Displays Ltd.**

A Reflective LCOS with binary modulation of phase or amplitude with 2048 × 1536 pixels of 8 μm pixel pitch. Optimized for 430 to 750 nm, it allows a max. 4.5 kHz refresh rate from a Non-video IF board storing max. 1024 bit planes created by an easy-to-use GUI. Application examples: Structured Light for 3D Optical Metrology, Microscopy & Coded Aperture Imaging.



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### [NEW E-series 512x512 LCoS SLM](#)

**From: Meadowlark Optics Inc.**

The E-series Liquid Crystal on Silicon (LCoS) SLM is ideal for labs with a limited budget or researchers who do not require the high-speed features of our premium SLMs, yet still demand high performance. This entry-level SLM is affordably priced without sacrificing quality.

- 512 × 512 Resolution
- Analog Phase Control
- Phase Stability of 0.20%
- 16-bit Controller



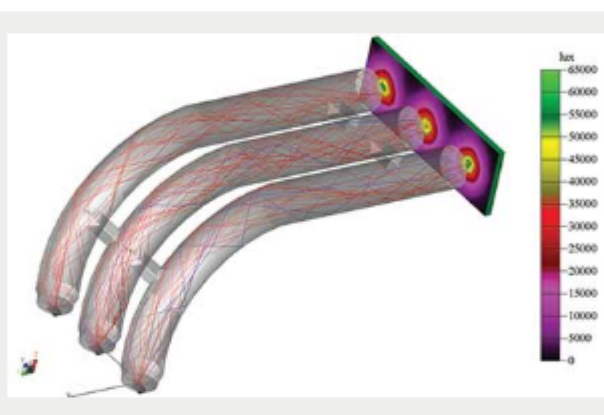
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### [New TracePro and RayViz 7.8.2](#)

**From: Lambda Research Corp.**

Lambda Research Corporation announces the latest releases of its easiest-to-use optical/illumination software programs. TracePro 7.8.2 features new interactive tools to design optics faster and new utilities to expedite your illumination projects. RayViz adds ray tracing and visualization to SOLIDWORKS®. Streamline your prototype to manufacturing process with our intuitive interfaces and unparalleled interoperability with CAD.



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### [16-Position Filter Wheel](#)

**From: Applied Scientific Instrumentation Inc.**

ASI's FW-1000 16-position filter wheel utilizes a closed-loop DC servomotor to provide high speed and low vibration operation (less than 3 × 10<sup>-4</sup> kg-m<sup>2</sup>/s maximum vibration torque impulse). It employs a high-resolution rotary encoder for positional feedback and utilizes nonvolatile flash memory to store programmable filter sequences and delays. It is great for use in many fluorescence microscopy applications.



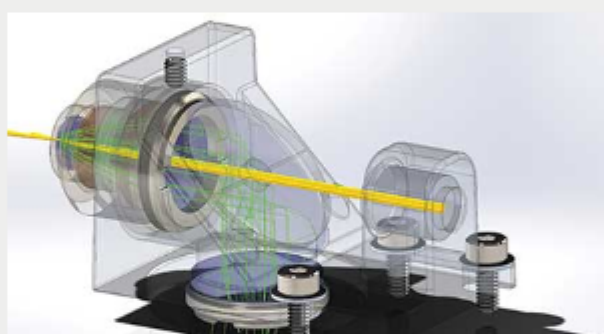
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### [LensMechanix® Software](#)

**From: Zemax LLC, Optical & Illumination Design Software**

With LensMechanix®, a SOLIDWORKS Certified Gold Partner add-in, you can eliminate STEP files, catch and correct errors early, and cut repeated physical prototypes. LensMechanix uses complete OpticStudio® lens design data, allowing you to design with precision. By simulating the impact of mechanical designs on optical performance, you can reduce design iterations and get your optical products to market faster.



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## Additional Products



### [Sapphire Domes for Deepwater](#)

**Meller Optics Inc.**

Custom-engineered sapphire optical domes for subsea drone applications are available from Meller Optics Inc. Domes are ideal for deepwater UAVs and other subsea applications because they can extend the viewing angle of cameras by up to 160 degrees, withstand pressures up to 10,000 psi and resist algae growth.

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### [Optical Liquids](#)

**Cargille Laboratories**

This Specialty Optical Liquids catalog features high-transmission, safe-handling laser liquids; fused silica matching liquids; and specific refractive index liquids (1.300 to 2.11 nD). Also featured are transparent and light-absorbing gels.

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### [Asphere and Freeform Metrology](#)

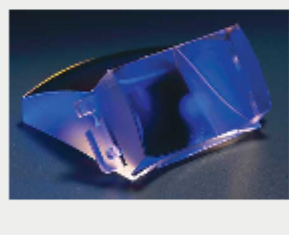
**Mahr Inc.**

The MarForm MFU 200 is the ideal measurement tool for contact and noncontact 3D measurement of optical surfaces

- Fully automated alignment of lens
- Export of differential profile for closed loop manufacturing
- Interferometric point sensor for noncontact scanning of optics

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### [Precision Polymer Optics](#)

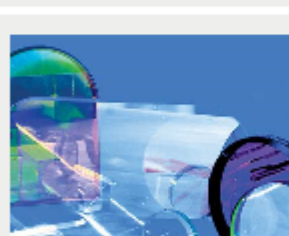
**GS Plastic Optics**

Improve your competitiveness. Improve your market share.

- Design for manufacturing
- Diamond turning
- Production injection molding
- Thin-film coatings on polymers
- Optical assemblies
- Complete metrology

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### [Thin Films and Optical Assembly](#)

**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.

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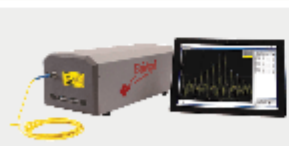
### [Mini-Hexapod Platform \(MHP\)](#)

**Picard Industries**

Our MHP-11 system offers a compact method of six-axis motion control with micron resolution. This rigid and precise platform is perfect for positioning optical components. With its dedicated drive electronics and Windows-based 6D user interface with Space Mouse, the control of the platform's motions is greatly simplified.

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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 ± 0.0001 nm.

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### [NeoSpectra Micro Development Kit](#)

**Si-Ware Systems, Neospectra**

The NeoSpectra Micro is a chip-sized FT-IR spectrometer with a spectral range of 1250 to 3000 nm. It is accurate, cost-effective and ubiquitous across many applications.

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### [Quality Custom Optical Coatings](#)

**Andover Corporation**

Andover Corporation has the ability to provide a diverse range of coatings spanning a broad wavelength range on a wide variety of materials. We produce coatings such as beamsplitters, dual bandpass, multiband ARs, custom dichroics, and narrow- and widebands.

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### [Planar<sub>DL</sub> XY, Linear-Motor Stage](#)

**Aerotech Inc.**

Aerotech's PlanarDL-series integrated, low-profile, XY, linear-motor stages offer excellent geometric and dynamic performance in a compact and cost-effective package. Available in nine different travel and performance configurations.

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### [PC-Controlled Variable Coupler](#)

**Evanescence Optics Inc.**

The Model 905(P)-M is a variable-ratio fiber coupler; the ratio can be remotely controlled with a PC through a USB port. Available in SM, non-PM and PM versions, it operates over wavelengths from 590 nm to 2 μm.

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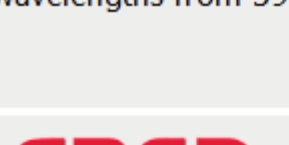
### [Photodiode Transimpedance Amplifier](#)

**Terahertz Technologies Inc.**

The PDA-750 Photodiode Amplifier is a low-noise, high-gain transimpedance amplifier that is designed to provide a direct digital readout of the current generated from a photodiode, photomultiplier or similar current source.

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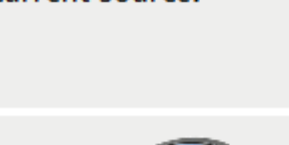
### [FRED Optimum Optical Engineering Software](#)

**Photon Engineering LLC**

FRED Optimum Optical Engineering Software is capable of simulating the propagation of light through any opto-mechanical system by ray tracing. Whether the design is imported from CAD, a lens design program or constructed from within the software itself, FRED provides engineers with the essential tool...

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### [Femtosecond Applications Protection](#)

**Kentek Corporation**

Kentek's C120C coated filter is an excellent choice for femtosecond applications including Ti:Sapphire for industrial, medical and scientific environments. The C120C filter provides scratchproof laser safety, 40 percent visibility and protection levels up to OD 9 at select wavelengths.

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