

PHOTONICS SHOWCASE



July 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.

Featured Products

[Ultra-High Resolution Interferometer](#)

From: Zygo Corporation

The Verifire™HDX system is ideally suited for advanced 3D optical metrology of precision optics and optical systems requiring high spatial resolution and imaging. The new optical design, including an 11.5-megapixel camera, enables enhanced characterization of mid-spatial frequency and PSD analysis. Standard industry-leading features include a high-performance frequency-stabilized laser with a 3-year warranty and Zygo's patented QPSI™ vibration-robust on-axis acquisition technology.



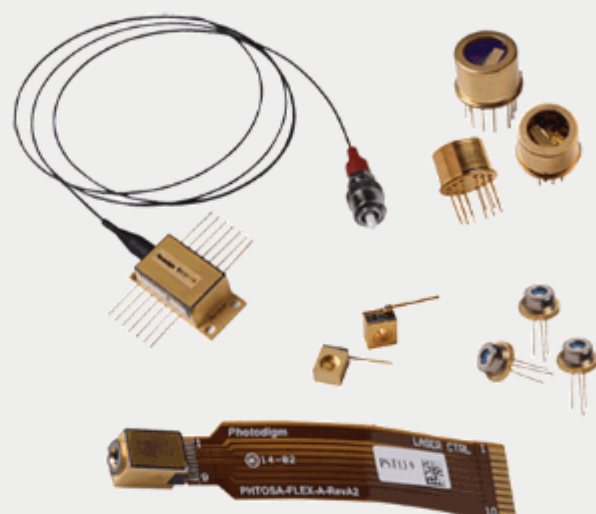
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[Precision DBR Laser Diodes](#)

From: Photodigm Inc.

From Space-Qualified to Spectroscopy- Certified DBR laser diodes, Photodigm Inc. manufactures precision laser products in the near-IR for applications with powers up to 400 mW. We offer standard wavelengths between 760 and 1083 nm with many packaging options. Our monolithic die construction allows our products to be used in some of the most demanding conditions. Visit our website for more detailed information about our DBR laser technology and our other laser products.



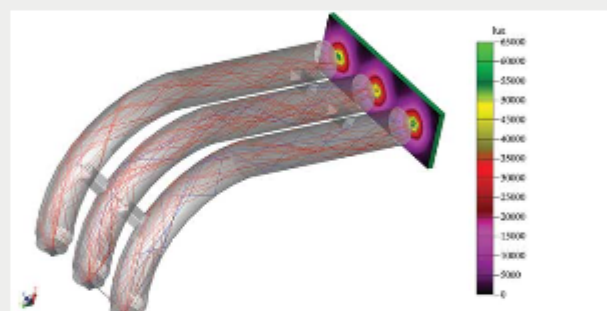
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[New TracePro and RayViz 8.0](#)

From: Lambda Research Corp.

Lambda Research Corporation announces the latest releases of its easiest-to-use optical/illumination software programs. TracePro 8.0 features faster ray tracing 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. Free trial at our website below.



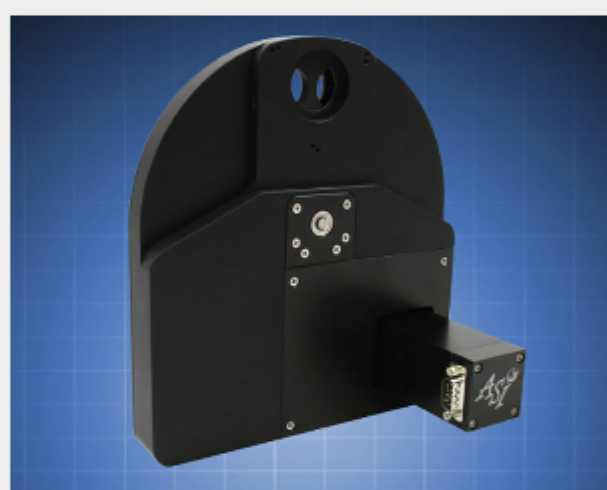
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[16-Position Filter Wheel](#)

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^{-4} kg-m²/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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Additional Products



[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
- Tactile probe for measurement of unfinished optics or nonoptical surfaces
- Measures a wide range of optics including aspheric, diffractive and freeform lenses

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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. The catalog now includes comparative diagrams of glasses and optical liquids.

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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 for virtual prototyping of optical systems.

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[Micro-g® Vibration Isolators](#)

TMC

TMC pneumatic vibration isolators come in a range of capacities, damping levels and leveling options. Damping options include our Gimbal Piston™, MaxDamp® and new UltraDamp™ isolators. Ideal for OEM applications, Micro-g® isolators are modular, interchangeable and upgradable.

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[Clear Poly Protection for Nd:YAG](#)

Kentek Corporation

Kentek's new XVT™ Extraordinary Visible Transmission Technology Filter (#5161)

delivers protection levels of OD 7+ at 1064 nm with a glass-like VLT of 60 percent, using revolutionary narrow notch absorbers in ultralight polycarbonate lenses. Choose from our many frame styles to create perfection in both fit and safety.

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[Sapphire for Gimbaled Systems](#)

Meller Optics Inc.

Meller Optics Sapphire Windows feature Mohs 9 hardness, which is second only to diamond, and can withstand pressures to 10,000 psi, depending upon thickness. Manufactured to customer specification, they are available in sizes from 0.25- to

10.00-in. diameter with varying wall thicknesses and can include stepped edges and elliptical edge shaping, holes, slots and wedges for mounting.

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[USB Shutter](#)

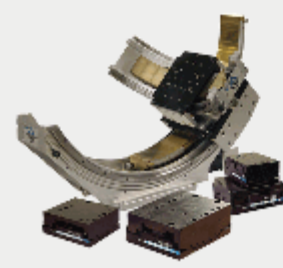
Picard Industries

The Picard Industries USB-Shutter offers a compact and simple method of automating the blocking of a beam path.

The pivoting-paddle shutter is powered and controlled through a USB port. This provides a self-powered, hot-pluggable method of control unmatched in the industry.

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[Goniometers](#)

Aerotech Inc.

Aerotech goniometers are offered in direct-drive and worm-gear models. ANT-20G series direct-drive goniometers offer 0.05 arc-second resolution, ±0.03 arc-second in-position stability, ±6 arc-second accuracy and 20° travel.

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