

PHOTONICS

showcase



September 2016

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

Leybold Optics Helios 800

From: **Buhler Leybold Optics, Advanced Materials Div.**

The Helios series is a high-precision, high-yield platform for demanding optical filters. Helios is optimized for maximum repeatability, throughput and productivity. The PARMS process technology allows for precise control of very thin layers at atomic scale, resulting in extremely high process stability.



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Optical Laboratory Equipment

From: **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.



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Ultra Precise Piezo-Z Stage

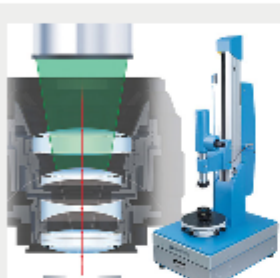
From: **Applied Scientific Instrumentation Inc.**

ASI's Ultra Precise Piezo-Z Focusing Stage provides a high-resolution, and highly repeatable, means of controlling the X, Y, and Z position of the microscope stage. The XY axes derive precisely through the use of closed-loop DC servomotors using high-resolution rotary encoders for positioning feedback.



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Additional Products

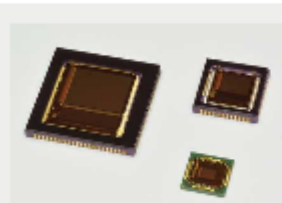


OptiCentric® 3D

From: **TRIOPTICS-USA Inc.**

The OptiCentric® 3D provides an ideal solution for the complete opto-mechanical characterization of assembled optical systems. The two-in-one solution combines OptiCentric® centration error measurement technology with a low-coherence interferometer called OptiSurf®.

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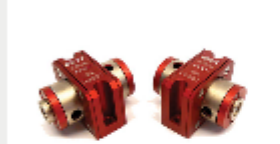


CMOS Image Sensors

From: **Hamamatsu Corporation**

We offer a variety of CMOS image sensors, such as linear arrays suitable for spectroscopy and scanning applications, and area arrays suitable for machine vision, scientific applications and security imaging. Our newest CMOS products include linear image sensors less than 1 mm thick and area image sensors in SXGA, VGA VGA and QVGA formats.

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Mid-IR Optical Isolators

From: **Electro-Optics Technology Inc.**

Our 2-µm Optical Isolators are for use with thulium and holmium lasers from 1900- to 2100-nm region providing >30 dB isolation for power levels to 30 W with a pulsed damage threshold of 5 J/cm² at 10 ns.

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Spectroscopy-Certified™ DBR Laser Diodes

From: **Photodigm Inc.**

Photodigm DBR lasers at 828 nm are proven robust performers as seed lasers for water vapor differential absorption LIDAR (DIAL) systems. Chosen for their high power, single frequency purity and agility, Photodigm DBR lasers will enable current and future ground, airborne and space-based water vapor DIAL missions for atmospheric monitoring for long-range weather forecasting.

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Precision Raman Optics

From: **Chroma Technology Corp.**

Chroma has developed precision optical filter sets for Raman spectroscopy using ultra-steep laser dichroic mirrors perfectly matched with ultra-steep longpass emission filters that are designed to block specific laser lines. Filters may also be purchased individually and carry a lifetime guarantee.

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Micro Injection Molding

From: **Accumold**

Accumold® is a high-tech manufacturer of precision micro, small and lead frame injection molded plastic components. Utilizing processes developed from Accumold's Micro-Mold® technology, the company efficiently designs, builds and produces unique molds and parts.

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PIXCI® EB1mini Camera Link Frame Grabber

From: **EPIX Inc.**

The PIXCI® EB1mini series of camera link frame grabbers use Mini Card slots in small embedded computers. Flexible cables that mount a camera link connector to the side of the enclosure are used on these three new frame grabbers.

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Laser Design & Solutions

From: **National Laser Company**

Specializing in laser design, manufacturing and service for almost 30 years. We work directly with customers who are looking for something more specialized than an off-the-shelf laser. Our lasers provide excellent beam quality, pointing stability and low optical noise.

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NANOCERAM™

From: **Ohara Corporation, Western Office**

Introducing NANOCERAM™ — New glass ceramic from OHARA with greater scratch resistance than other competing glass types and up to 3× the impact resistance of sapphire. It can be produced in large sizes and is moldable, making it suitable for a wide range of applications.

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InGaAs PIN Photodiode Series

From: **Marktech Optoelectronics**

The MTPD1346 series of InGaAs PIN Photodiodes are now available thru Digi-Key in standard aperture sizes and packages. For custom, Si and InGaAs Detectors, from bare die to packaged devices, hybrids or other custom assemblies, please contact us or visit our website.

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Control Laser Energy and Pulse

From: **Advanced Energy Industries Inc.**

Ideal for lasers and optical switches, the HVA series provides DC to 1 kHz, up to 20 kV, unipolar and bipolar. Symmetrical source and sink current capability enables uniform synchronous, asynchronous and arbitrary waveform generation that enhances system performance.

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New High-Speed Laser Wavelength Meter

From: **Bristol Instruments Inc.**

Bristol Instruments has introduced the model 871, a laser wavelength meter that measures the absolute wavelength of pulsed and CW lasers at a rate as high as 1 kHz. The system's accuracy is ± 1 part per million, guaranteed by automatic calibration with a built-in wavelength standard.

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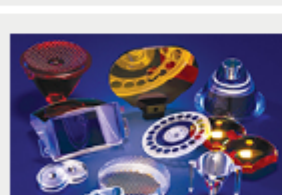


Lt665R CCD USB 3.0 Camera

From: **Lumenera Corporation**

The Lt665R builds on EXview HAD II CCD Quad Tap sensor technology to deliver high-quality imaging and high sensitivity in a compact camera rich in features. This camera is ideal for applications such as live cell imaging, laser profiling and antibiotic-resistant colony counting.

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Precision Polymer Optics

From: **GS Plastic Optics**

GS Plastic Optics works with executives and program managers to solve complex optical challenges. We manufacture high-performance injection molded polymer optics specifically designed to help customers improve their competitiveness and market share.

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Simple Microscopy Illumination

From: **CoolLED Ltd.**

Designed to fit most microscopes, the pE-300lite uses the same award-winning technology as CoolLED's more sophisticated LED Illumination Systems. The pE-300lite is a compact system, affordable through your lab consumables budget, and optimized to work with everyday fluorophores such as DAPI, FITC, TRITC and Cy5.

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USB Shutter

From: **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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Focus for Smaller Instruments

From: **New Scale Technologies Inc.**

The M3-FS Focus module has a built-in controller — NO external controller needed! You get the absolute smallest system size with maximum ease of integration into your system. Move M16 lenses with 0.5-µm resolution and amazing dynamic stability.

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Sapphire Wave Plates

From: **Meller Optics, Inc.**

Meller Optics sapphire wave plates for Er:YAG and holmium lasers extend polarization into the infrared and provide superior damage resistance to quartz and mica. They are available from 0.3 to 4.7 µm and, for Er:YAG and holmium lasers, at 2.94 and 2.10 µm, respectively.

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FiberMax^{HP} Photonics Alignment Platform

From: **Aerotech Inc.**

The FiberMaxHP is a second-generation 3-6 axis photonics alignment platform built on Aerotech ANT nanopositioning stages. It meets the demanding needs of critical photonics alignment in an automated, 24/7 production environment. It is capable of minimum incremental motion down to 2 nm coupled with speeds to 400 mm/s to...

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WaveMaster® PRO 2

From: **TRIOPTICS GmbH**

WaveMaster® PRO 2 and WaveMaster® PRO 2 Wafer perform highly accurate and comprehensive wavefront measurements of spherical and aspherical lenses, plane optical components and wafers. Adjusted to the needs in mass production, trays and wafers can be measured fast with a sample throughput of 1800 lenses per hour.

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