Tuesday, January 17, 2017

PHOTONICS SHOWCASE

PHOTONICS MEDIA

January 2017

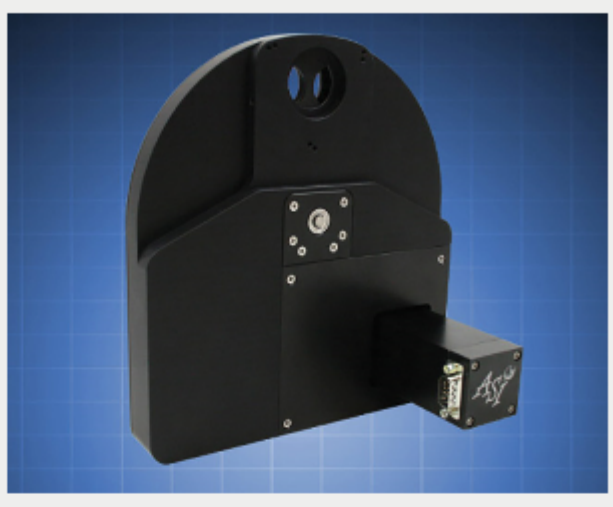
Bi-monthly product-focused newsletter with highlights from the latest issue of Photonics Showcase. Use the Request Info links below to ask for more information about these products, or visit Photonics.com/rssc.

Featured Products

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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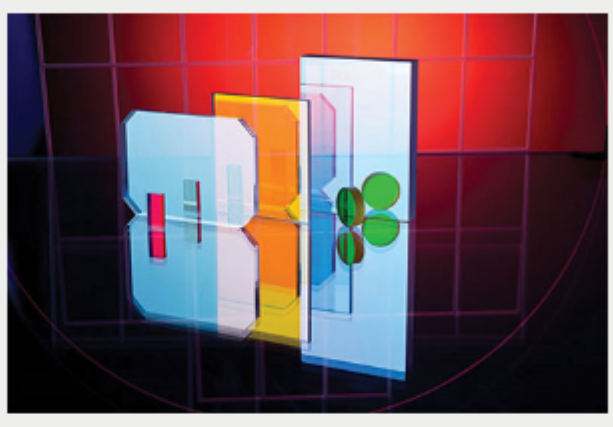
Flat Top Narrowband Filters

From: Alluxa

Alluxa's Ultra Series Flat Top Narrowband Filters offer the narrowest bandwidths and squarest filter profiles in the visible and NIR, with FWHMs of 0.25 nm to 2 nm, transmission levels >90% and OD6 blocking out of band. Applications such as laser cleanup, lidar, telecommunications and instrumentation greatly benefit from their groundbreaking performance.



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PiCOEXPLORER™ PAS-110

From: USHIO America Inc.

The USHIO PiCOEXPLORER™ photo absorbance sensor (PAS) is a handheld, compact lab research device that conducts experiments in seconds in just 3 EASY steps. This Bluetooth-enabled lab tool requires no pipetting, reducing bottlenecks and saving valuable time. USHIO's groundbreaking Silicone Optical Technology, inside PiCOEXPLORER, reduces light scatter, enhancing the optical efficacy ensuring accurate and reliable results.

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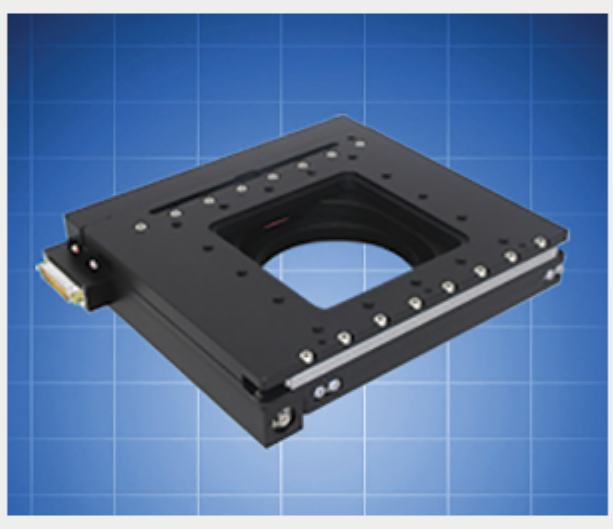
OE-1250 GEN II MS-Stage

From: Applied Scientific Instrumentation Inc.

ASI has designed the OE-1250 GEN II Stage specifically to be configurable for manufacturers and easily integrated into their systems. The OE-1250 Stage has custom mounting options, a flat top designed with multiple configurations, higher load capacity, precise motion and high repeatability. The OE-1250 provides controlled linear motion alignment, orthogonal movement and lower driving friction.



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Additional Products

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.

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PC-Controlled Variable Coupler

Evanescent 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. Standard coupling range is from 0 to 99%; other ranges are available.

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Precision Polymer Optics

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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PreciseMode™ DBR Laser

Photodigm Inc.

Photodigm DBR lasers are now available with internal beam correction and control of thermal mode hops. A virtual point source microlens corrects astigmatism and reduces fast axis divergence, resulting in a user-friendly beam that can be focused or collimated as needed with a single aspherical lens. The device locks to a selected cavity mode in stable operation without hops over an extended range of current tuning. Available now in a Mercury™ or TO-8 package.

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High-Load, Precision Hexapod

Aerotech Inc.

Aerotech's HEX500-350HL hexapod is ideal for applications in x-ray diffraction, sensor testing, high-force device manipulation, synchrotron sample or optics adjustment, semiconductor manufacturing and inspection, or satellite sensor testing. The HEX500-350HL provides ± 0.5-µm linear/± 2.5-µrad angular positioning accuracy, and 20-nm linear/0.2-µrad angular positioning resolution.

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USB-LabJack

Picard Industries

Picard's USB-LabJack offers a compact, efficient and simple method of motorizing a Newport Model 271 Lab Jack. This enhanced automated lab jack can lift loads of up to 250 N (~50 lbs) a distance of 40 mm. This provides a USB-powered method of positional control unmatched in size, simplicity and cost. The system comes complete with a custom Windows application that operates on any PC with Windows-XP or higher. A DLL is provided for integrating the device into your own automation. Visit our website for more details about this and our other unique USB-powered devices.

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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.

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Sapphire Wave Plates

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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