Tuesday, March 21, 2017

PHOTONICS SHOWCASE

PHOTONICS MEDIA

March 2017

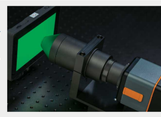
Bi-monthly product-focused newsletter with highlights from the latest issue of Photonics Showcase. Use the Request Info links below to ask for more information about these products, or visit Photonics.com/ssc.

Featured Products

Conoscope Lens

From: Radiant Vision Systems, Test & Measurement

The Radiant Vision Systems conoscope lens enables photopic measurement of the angular distribution of color, luminance and contrast of displays. Fourier optics capture a full cone of viewing angle data in a single measurement to ±60 degrees. When mounted directly to Radiant imaging colorimeters, the lens offers fast and efficient in-line quality control for OLEDs, LCDs and backlights in production.



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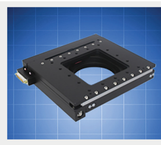
OE-1250 GEN II MS-Stage

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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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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Ferroelectric Liquid Crystal Optics

From: Meadowlark Optics Inc.

Does your application require fast optical response time? Ask about our NEW FLC Shutters and Rotators: • Response Time: ≤100 µsec • Retardances: λ/4 and λ/2 • Clear Aperture: up to 40 mm • Wavelength: 405 to 850 nm (custom ranges up to 2 µm)

High-Speed Binary Operation High-Purity Linearly Polarized Output Maximum Extinction Ratio Solid-State — No Vibration Optional FLC Controller Available

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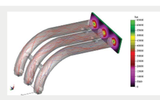
New TracePro and RayViz 8.0

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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Precision DBR Laser Diodes

From: Photodigm Inc.

Photodigm DBR fiber-coupled lasers set the world standard for precision laser diodes in the near IR. These devices deliver beams rivaling those of benchtop systems. With these research lasers, new trails have been blazed in optical engineering, opening up new concepts in spectroscopy, diagnostic imaging and metrology. Photodigm monolithic DBR lasers offer a high level of reliability and stability for those applications and are making these instruments commercially viable.

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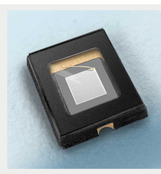
NIR, Surface-Mount Photodiode

From: Opto Diode Corporation

The new, red- and near-infrared-enhanced, reduced-footprint, surface-mount photodiode from Opto Diode, the NXBI-RF100C, has a spectral response from 320 to 1100 nm and can be used for laser-monitoring and rain- and sun-sensor applications. The rugged package is designed specifically for environments requiring extended temperature ranges from -40 °C to +125 °C. The anti-reflective-coated window provides greater than 98 percent transmission.



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PICOEXPLORER™ PAS-110

From: USHIO America Inc.

The PICOEXPLORER™ photo absorbance sensor (PAS) is a handheld, compact lab research device that conducts experiments in just 3 EASY steps. The PICOEXPLORER can be controlled by a smartphone or tablet mobile device, allowing quick concentration measurement and detection of protein, heavy metals, endocrine disruptors and DNA. This Bluetooth-enabled lab tool requires no pipetting, reducing bottlenecks and saving valuable time.

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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

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 wideбands. This is done with a variety of coating technologies: magnetron sputtering, ion-assisted electron beam deposition and thermal evaporation. AS9100 + ISO9001 certified.

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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. Meets ANSI Z136.1 and ANSI Z87 standards.

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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. The wave plates are offered in λ/4 and λ/2 versions and with diameters from 10 to 30 mm. Stock wave plates are available by phone or from our website.

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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, this system provides the most detailed information about the spectral properties of lasers operating from 375 nm to 12 µm.

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Enclosed USB-FilterWheel

Picard Industries

Picard's enclosed version of the USB-FilterWheel system offers a compact, quiet and simple method of automating the selection of six 1.0-in. (25-mm) optical filters. It provides a USB-powered method of filter selection unmatched in size, simplicity and cost. The system comes complete with a custom Windows application software 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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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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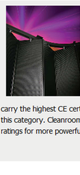

Ultrasafe Laser Barrier Curtains

Kentek Corporation

Kentek's EVER-GUARD® laser barrier curtains are surprisingly light in weight, deceptively easy to use, and ANSI Z136.1-rated upward of 1200 W/cm2. Our patterned all-metal materials are fully tested at multiple laser wavelengths and carry the highest CE certified laser safety ratings of any product in this category. Cleanroom compatible. Consult Kentek for higher ratings for more powerful laser systems.

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PlanarDLA XY, Linear Motor Stage

Aerotech Inc.

Aerotech's PlanarDLA integrated, low-profile, XY, linear-motor stages with clear aperture feature high dynamics and exceptional geometric performance with straightness to ±500 nm, ±1.25-µm flatness, 5-µrad orthogonality, accuracy to ±400 nm, speeds to 2.0 m/s, and accelerations to 2 g. Proprietary direct-drive technology allows for unmatched performance.

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