



PHOTONICS SHOWCASE



July 2018

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. Manage your Photonics Media membership at Photonics.com/subscribe.

Featured Products

Z-Piezo Stage Insert IPZ-3000

From: Applied Scientific Instrumentation Inc.

The IPZ-3000 series piezo insert will fit in most microscope stages with the standard (K-size) stage insert opening. Several sample holders are available to fit the IPZ-3000 insert for holding small dishes, slides or chambers. Travel ranges available are 150, 300, and 500 μm . The piezo insert is controlled via an MS-2000 controller that accepts serial, USB and analog inputs.



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IsoDyn — Coating Complex Shapes

From: Deposition Sciences Inc. (DSI)

DSI's unique IsoDyn coating technology was developed to overcome the limitations of traditional methods in producing uniform coatings on highly curved parts or components with complex three-dimensional shapes. IsoDyn enables volume production of uniform, multilayer, high-performance, HLDT coatings on any shaped parts, including ball lenses, hemispherical domes, cylindrical rods, faceted shapes, and even the inner surface of tubes.



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Advanced Dual-Output HD Video Camera

From: Toshiba Imaging Systems

Revolutionary, feature-rich, full 1920 x 1080 HD JCS-HRSU video camera provides SIMULTANEOUS real-time live viewing from a monitor plus high-res image capture to a computer via HDMI and SuperSpeed USB outputs. Optimal for color documentation systems integration for bio imaging, scientific imaging, and live tissue imaging. HDMI 1080p/1080i output at 59.94Hz, USB 3.0 1080p output at 59.94 fps maximum. Ultracompact at 1.75 in. x 1.75 in. x 3 in.



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Need a New Interferometer?

From: Apre Instruments

APRE's General Purpose SR Fizeaus have diffraction-limited imaging at 1 MP with <math><0.1\%</math> distortion. Plus <math><\lambda/20</math> retrace error at 250 fringes across each of the available 50-, 100-, and 150-mm apertures. Even better, it is priced comparable to a 6x-zoom system. Don't just add capacity, advance your optical manufacturing; email or call Don today.



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sponsor

New Advanced

DUAL-OUTPUT HD VIDEO CAMERA

- SIMULTANEOUS Live View & SuperSpeed USB Output
- Full HD Resolution 1920 x 1080
- Ultra-Compact



TOSHIBA
Leading Innovation >>>

Additional Products



High-Speed, High-Resolution SLM

Meadowlark Optics Inc.

New high-power handling options are available for our high-speed (up to 700 Hz), high-resolution (1920 x 1152) spatial light modulators (SLMs). All of Meadowlark's reflective SLMs incorporate analog addressing with high refresh rates to provide the lowest phase ripple SLMs available.

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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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FRED Optical Engineering Software

Photon Engineering LLC

Unleash your engineering creativity and inquisitive mind with FREDMPC. Predict performance with higher confidence by tracing orders of magnitude more rays through your system. Experiment by varying more parameters to find the optimum hardware configuration. Ask more "What if...?" questions.

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PhaseCam 6100 Laser Interferometer

4D Technology Corporation

The PhaseCam® 6100 dynamic laser interferometer is powerful and extremely compact for measuring flats, spheres, aspheres, large optics, and optical systems. Only 13 in. long, and featuring a 4-MP sensor and motorized controls, the PhaseCam is ideal for challenging measurements.

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Laser-Grade Optics

OptoSigma Corp.

OptoSigma manufactures a wide range of tight-tolerance and high-performing laser optics, which feature surfaces down to 1-Å Ra, high damage threshold, high finesse, and low and negative dispersion. Supermirrors offer R>99.999 percent. We also manufacture ultrabroadband mirrors, plate beamsplitters, and much more.

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Illumination Design Software

Lambda Research Corp.

Lambda Research Corporation announces the latest releases of its easy-to-use optical/illumination software programs, TracePro and RayViz. TracePro 2018 features new utilities to expedite luminaire, automotive, and streetlamp design. RayViz adds ray tracing and visualization to SOLIDWORKS.

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SLC 80 for Efficient Centering

Schneider Optical Machines Inc.

The SLC 80 midsize centering machine provides great performance and flexibility at highest quality. The sophisticated CNC-controlled clamping technique guarantees highly sensitive, automated lens clamping. The double-spindle design allows for simultaneous edge processing.

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Laser Wavelength Meter

Bristol Instruments Inc.

The 671 Series Laser Wavelength Meter uses a proven Michelson interferometer-based design to measure the wavelengths of CW lasers to an accuracy as high as ± 0.2 parts per million. Operation is available from 375 nm to 12 μm .

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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. Five 2-meter coating chambers, along with various 1-meter and 1/2-meter chambers...

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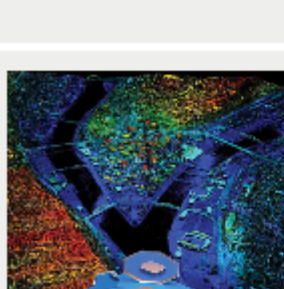


300 °C Wire-Grid Polarizer

Moxtek Inc.

Moxtek polarizers are designed for broadband UV-VIS-IR wavelengths and have uniform performance over wide cone angles. Our polarizers are made from heat-tolerant inorganic materials, enabling high temperature exposures that would degrade film-based polarizers.

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Commercial Lidar Optics

Meller Optics Inc.

Meller LIDAR Optics can be fabricated to OEM specifications from germanium, sapphire, silicon, UV glass, zinc selenide, zinc sulfide, and various other materials as windows, lenses, and mirrors in plano-concave, concave, and meniscus shapes, and as prisms.

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Microscope Slide Power Meter

Ophir, Photonics

The Ophir PD300-MS microscope slide power meter delivers accurate measurements of light emitted from fluorescence microscopes. Measures power levels of high-NA (numerical aperture) objectives, from 5 μW to 1 W. Special filter provides low angular dependence, enabling higher accuracy measurements.

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Hexapod Guarantees Positioning Accuracy

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.

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Superresolution Microscopy Poster

Photonics Media

With interest in the superresolution microscopy field growing rapidly, the editors of BioPhotonics magazine – in collaboration with acknowledged experts – created a poster with readers in mind that is suitable for lab, classroom and office.

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