



PHOTONICS SHOWCASE



PHOTONICS MEDIA

May 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

2 to 16 μm MWIR/FIR Beam Profiling

From: DataRay Inc.

DataRay's new WinCamD-IR-BB broadband 2 to 16 μm MWIR/FIR beam profiler system includes many industry-leading features, such as: broadband 2 to 16 μm VOx microbolometer; 640 × 480, 10.88 × 8.16-mm active area with 17-μm pixels; port-powered USB 3.0; up to 30 FPS update rate; integrated shutter for automated NUC; and M2 measurements.

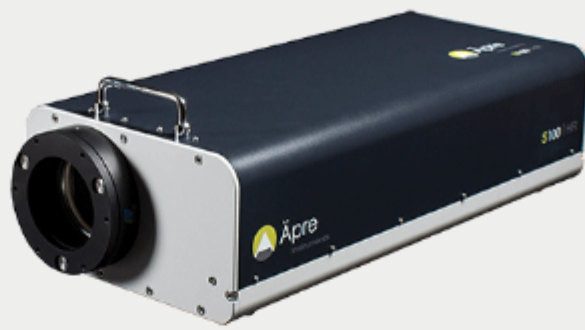


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Need a New Interferometer?

From: Apre Instruments

A²PRE's General Purpose SR Fizeaus have diffraction-limited imaging at 1 MP with <0.1 percent distortion. Plus <λ/20 retrace error at 250 fringes across each of the available 50-, 100-, and 150-mm apertures. Even better, it is priced comparable to a 6×-zoom system. Don't just add capacity, advance your optical manufacturing; email or call Don today.

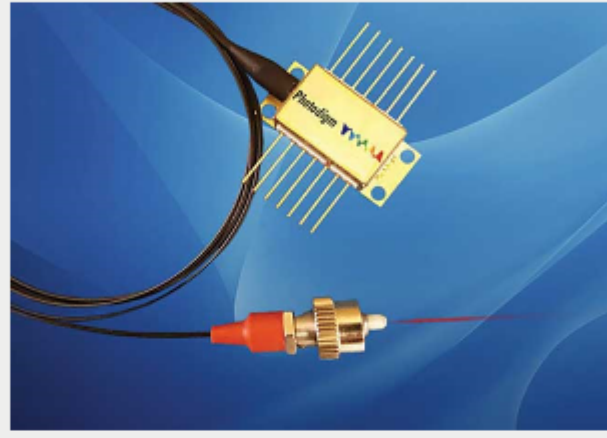


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Precision DBR Laser Diodes

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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Dual Light-Sheet Microscopy

From: Applied Scientific Instrumentation Inc.

The ct-dSPIM is a flexible and easy-to-use SPIM configuration made from ASI's modular microscope components. When used with ASI and Special Optics' objective optimized for light-sheet imaging of cleared tissue, imaging depth can exceed 5 mm into flat samples. The objective accommodates media RI from 1.33 to 1.56 (aqueous or organic media). The ct-dSPIM has successfully imaged various cleared tissue samples.



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Additional Products

FRED^{MPC} 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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Custom Optical Liquids

Cargille-Sacher Laboratories

With over 90 years of expertise, we can custom blend high-precision liquids to a specific refractive index, dispersion and density with high or low viscosities. We have liquids that closely match the refractive index and dispersion of Fused Silica, BK-7 and water at various temperatures.

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Photodiode Transimpedance Amplifier

Terahertz Technologies Inc.

The PDA-750 Photodiode Amplifier is a low-noise, high-gain transimpedance amplifier that is designed to provide a direct digital readout of the current generated from a photodiode, photomultiplier or similar current source.

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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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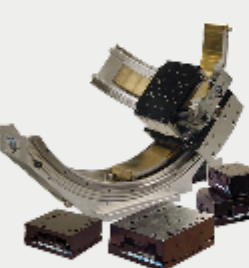


IR & Broadband Optics

Meller Optics Inc.

Meller IR and Broadband Optics can be produced as detector windows, filter substrates, front surface optics, viewports, and related applications with or without A/R coatings for transmitting at wavelengths out to 20 μm. Custom fabricated from calcium fluoride, magnesium fluoride, germanium, silicon, zinc selenide, and zinc sulfide, they conform to MIL-PRF-13830.

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Goniometers

Aerotech Inc.

Aerotech goniometers are offered in direct-drive and worm-gear models. ANT20G series direct-drive goniometers offer 0.05-arcsec resolution, ±0.03-arcsec in-position stability, and ±6-arcsec accuracy.

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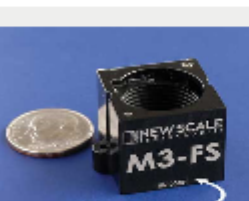


Mini-Hexapod Platform (MHP)

Picard Industries

Our MHP-11 system offers a compact method of six-axis motion control with micron resolution. This rigid and precise platform is perfect for positioning optical components. With its dedicated drive electronics and Windows-based 6D user interface with Space Mouse, the control of the platform's motions is greatly simplified.

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Compact Focus Module

New Scale Technologies Inc.

Create smaller instruments with embedded microscopy and spectroscopy features. This precision lens motion module's built-in controller accepts high-level commands directly from your system processor, over I2C or SPI interface; 3.3VDC for hand-held and portable applications. You achieve smallest size, fastest time to market, lowest system cost.

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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 × 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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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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Fastest Laser Wavelength Meter

Bristol Instruments Inc.

Bristol Instruments' popular 871 system measures laser wavelength at a sustained rate of 1 kHz, the fastest available. It also measures wavelength to an accuracy as high as ± 0.0001 nm. By combining proven Fizeau etalon technology with automatic calibration, the most reliable accuracy is ensured.

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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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