



PHOTONICS SHOWCASE



September 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

[Space-Certified™ Laser Diodes](#)

From: **Photodigm Inc.**

As the demand for qualifying commercial optoelectronic technologies for space missions grows, Photodigm has developed test procedures for its DBR lasers as well as third-party optoelectronic components to ensure the highest reliability for space applications. This level of testing includes a complete element evaluation with device screening, conformance inspection, and space environment lot qualification for the mission demands.



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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



[Phase-Locked Loop Optical Chopper](#)

From: **Terahertz Technologies Inc.**

The C-995 Phase-Locked Loop Optical Chopper provides crystal controlled chopping rates of 4 Hz to 5 KHz using only one blade. The use of direct digital synthesis permits the rate to be set to a precision of 0.001 Hz and provides quartz crystal stability. Frequency settings may be made via front panel controls and its bi-directional RS-232 port.

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[Steel Stages](#)

From: **OptoSigma Corp.**

Extended Contact Steel Stages by OptoSigma offer best-in-class performance and durability in the widest variety of sizes and motions in the industry: Linear stage sizes from 25 to 120 mm. Ultrathin linear and rotation stages only 1 cm tall. High-load, high-stiffness goniometers in a wide variety of sizes, center heights, and hole patterns.

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[Fastest Laser Wavelength Meter](#)

From: **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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[PhaseCam 6100 Laser Interferometer](#)

From: **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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[Low-Profile Motorized Gimbals](#)

From: **Aerotech Inc.**

Aerotech's AMG LP (Low Profile) gimbals provide precise angular position, rate and acceleration for development and testing in space-constrained applications. Direct-drive allows significantly higher speeds/accelerations than competing products.

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[Precision Polymer Optics](#)

From: **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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[GigE Industrial Beam Profiler](#)

From: **Ophir, Photonics**

The Ophir® SP920G GigE Silicon CCD beam profiling camera accurately captures and analyzes wavelengths from 190 to 1100 nm. Features include high-speed GigE interface, compact design, wide dynamic range, and unparalleled signal-to-noise ratio for measuring CW and pulsed lasers in industrial applications.

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[FRED MPC FRED Optical Engineering Software](#)

From: **Photon Engineering LLC**

Unleash your engineering creativity and inquisitive mind with FRED^{MPC}. 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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[Automated Microscope Focus](#)

From: **New Scale Technologies Inc.**

Embedding precision focus has never been easier. The M3-LS-3.4 Linear Smart Stage has the controller INSIDE for smallest size, submicrometer precision, and fastest integration. No multiple cables, no high-voltage isolation, no special electronics packaging.

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[Sapphire Windows for Drones](#)

From: **Meller Optics Inc.**

Meller Sapphire Windows provide optimum optical clarity and feature Mohs 9 hardness to protect drone vision systems in harsh environments where they may be exposed to chemicals, gases, and high heat. Custom fabricated in sizes from 1/4- to 10-in. diameter and 1/2 mm to 1 in. thick. Depending upon configuration, they can also include A/R coatings.

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[300°C Wire-Grid Polarizer](#)

From: **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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[Illumination Design Software](#)

From: **Lambda Research Corp.**

Lambda Research Corporation announces the latest release 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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