



PHOTONICS SHOWCASE



PHOTONICS MEDIA

March 2019

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

High-Power Laser Drivers

From: **Arroyo Instruments LLC**

The 4400 Series Laser-Source laser diode driver is designed for demanding, high-power laser applications. With up to 100 A of drive current and high-voltage configurations, the 4400 can meet many high-power laser requirements. Add QCW operation, digital I/O, and temperature monitoring and you have a very capable instrument.



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Fiber Focuser

From: **Micro Laser Systems Inc.**

Our Fiber Focusers are designed to generate diffraction-limited micron spots at long working distance with single-mode fiber. The assembly is composed of a fiber collimator and a focusing cell that screws on to provide a compact, self-aligned assembly. Various focusing cells range from 1:1 imaging or less to 150-mm distance. There is no epoxy in the optical path. Applications include cytometry, scanning, wafer analysis, and probing in hazardous environments.

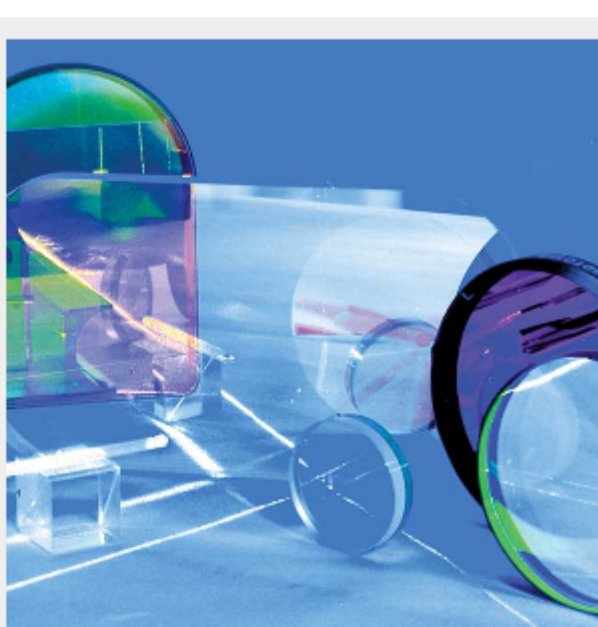


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Thin Films and Optical Assembly

From: **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, place AOC in a unique position with regard to coating capacity. A wide variety of coatings on various substrates can be designed.

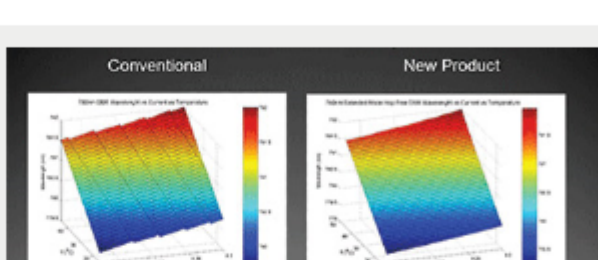


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Extended-Mode-Hop-Free DBR

From: **Photodigm Inc.**

Setting the global standard for precision, NIR laser diodes, Photodigm distributed Bragg reflectors (DBRs) offer continuous, deterministic spectral tuning ranges of much as 2 nm with a patented extended-mode-hop-free (EMHF) design. This represents the broadest range of any monolithic laser diode. Applications for Photodigm EMHF DBR lasers include spectroscopy, low-noise pumping, lidar, atom optics, and quantum information sources.



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Uniformly Coating Cylinders

From: **Deposition Sciences Inc. (DSI)**

Accurate solar simulation for improved product durability and increased lifetime relies on having uniform coatings on tubes and cylinders. To address the challenges of fabricating uniform coatings, DSI engineers have developed customized tooling for the company's reactive sputtering system to evenly coat the entire circumference of cylindrical parts. Synchronized rotation during sputtering allows consistent coating exposure for every part of the tube's outer surface.



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Dual Light Sheet Microscopy

From: **Applied Scientific Instrumentation Inc.**

ASI's Dual Selective Plane Illumination Microscopy for Cleared Tissue (ct-dSPIM) is one of many light sheet microscope configurations possible using our modular components. This flexible and easy-to-use SPIM implementation allows for dual views of large samples such as cleared tissue (ct). The ct-dSPIM has been successfully used to image various cleared-tissue samples, including whole mouse brains.



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Additional Products

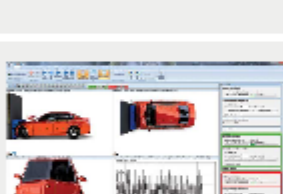


Durable Metalized Windows

From: **Reynard Corporation**

Reynard Corporation now provides high-performance metalized windows used in a variety of applications such as windows for cryogenics storage dewars, hermetically sealed detectors, medical endoscopes, and other special configurations. The manufacturing process is a thin-film coating method in which a predetermined pattern of metal is deposited on the surface of the optic.

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Digital Video Recording Software

From: **NorPix Inc.**

StreamPix 7 supports a wide selection of GigE Vision, 10 GigE, USB3, CoaXpress, and Camera Link cameras. StreamPix can capture from multiple synchronized cameras simultaneously along with computer time stamp, GPS coordinates, and IrigB or GPS timing. DAQ data can also be captured from single or multiple sources at rates of single or multiple inputs per second.

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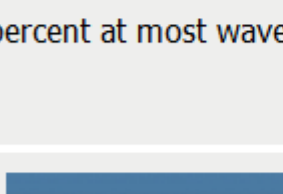


High-Damage-Threshold Laser Sensor

From: **Ophir, Photonics**

The Ophir® L50(150)A-LP2-35 is a compact, thermal measurement sensor for high power density and long-pulse lasers. An LP2 coating provides the highest damage threshold in the industry and reduces reflection, absorbing 95 percent at most wavelengths.

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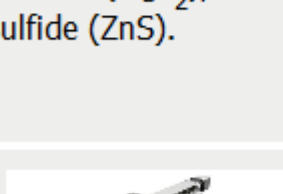


Finished Infrared Optics

From: **Precision Glass & Optics (PG&O)**

PG&O provides infrared optically clean, polished invarred (IR) optics for biomedical, industrial, laser, military and defense, night vision, homeland security, and surveillance applications. IR materials include calcium fluoride (CaF₂), magnesium fluoride (MgF₂), silicon (Si), germanium (Ge), and zinc sulfide (ZnS).

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ECO Series Linear Stages

From: **Aerotech Inc.**

Aerotech ECO series linear stages are available in linear motor, brushless servomotor, and stepper motor versions to perfectly match your requirements and budget. Excellent positioning specifications, high stiffness, and a variety of options...

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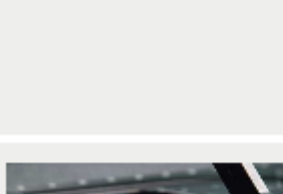


3SAE Combiner Manufacturing System

From: **3SAE Technologies Inc.**

The 3SAE Combiner Manufacturing System (CMS) is a vacuum-based optical glass processing system designed to maintain production level repeatability for combiners and other fused optical components. The CMS includes tapering, cleaving, bundling and splicing utilizing...

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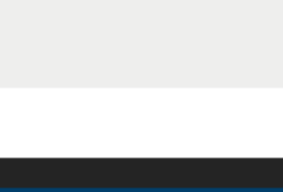


FRED MPC FRED Optical Engineering Software

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.

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Optical Laboratory Equipment

From: **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 and stability.

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