



# PHOTONICS SHOWCASE



PHOTONICS MEDIA

## May 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](http://Photonics.com/rssc). Manage your Photonics Media membership at [Photonics.com/subscribe](http://Photonics.com/subscribe).

## Featured Products

### Combo Laser/TEC Controller

From: **Arroyo Instruments, LLC**

Arroyo Instruments is pleased to announce its new 6300 Series ComboSource, a combination laser driver and temperature controller in a single, compact enclosure. Based on proven technology, the 6300 combines a 60 Watt temperature controller and up to 4 Amps of current drive to provide a stable, low-noise controller for your laser or LED application. Visit our Web site to discover more.



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### Quality Precision Reliability

From: **SUTTER INSTRUMENT**

For more than 45 years, Sutter Instrument has set the highest standards for performance and innovation. New products include the award-winning Lambda OBC and Lambda 421 optical beam combiners; the highly stable TRIO 3-axis micromanipulator; the multiphoton MOM, already proven for 3P; LED, Xenon, and plasma light sources; filter changers; and shutter solutions.



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### FC100, a 100-mm Fiber Collimator

From: **Micro Laser Systems Inc.**

A large 100-mm aperture Fiber Collimator is introduced for free space communications, lidar or metrology applications. Beam is 50 mm at  $1/e^2$  point with about  $1/10$  wave over the 50-mm beam. It features adjustable focus with lockdown and second lockdown for vibrations. A broadband AR coating from 1000 nm to 1700 nm has low reflectivity at 1550 nm. Options include a mount for use on stages and tripods and a tripod.



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### 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  $\mu$ m. The piezo insert is controlled via an MS-2000 controller that accepts serial, USB, and analog inputs.



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## Additional Products



### For the Safe Transit of Optics

**Alliance Corp., Scratch Free Packaging**

These extremely soft pouches made from spunlaced nonwoven fabric will keep optics safe while in transit. We have many stock sizes, and custom sizes are also available. We can custom print to feature your company name, logo, or message. Safe for cleanrooms, electronics, and sterilization.

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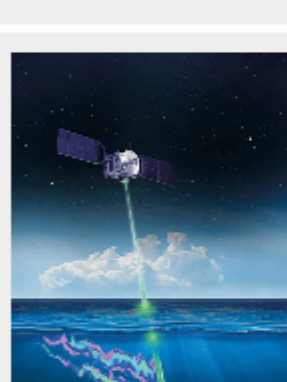


### Multichannel X-Ray Detectors

**OSI Optoelectronics Inc.**

Get superior x-ray imaging resolution with our photoconductive multichannel detector arrays, which feature 16 individual elements grouped together and mounted on 2.35-sq-mm PCBs with end-to-end connectivity. Other features include scintillator-mounting options, 5-V bias, and a variety of channel spacing.

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### MCP-PMT for Lidar

**Photonis Technologies**

Photonis MCP-PMTs feature zero recovery time, extremely low dark noise, and eight orders of magnitude dynamic range. With short pulse widths and a long lifetime, they are the choice for many demanding applications.

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### Pockels Cells with Large Clear Apertures

**Inrad Optics Inc.**

Inrad Optics designs and builds Pockels cells with clear apertures up to 25 mm for a wide range of applications, from laser Q-switching to pulse picking. These devices offer much faster response times than acousto-optic devices.

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### New Large-Area TaperCamD-LCM

**DataRay Inc.**

DataRay's new large-area TaperCamD-LCM CMOS beam profiler offers industry-leading features, such as 25- x 25-mm imaged area, 12.5- $\mu$ m (effective) pixels, global shutter for pulsed or CW beams, port-powered USB 3.0 with screw-locking cable, and 2500:1 SNR.

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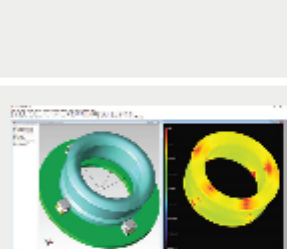


### OptoFlat Flatness Interferometer

**InterOptics LLC**

This production-ready 4-in. aperture, downward-looking interferometer uses a reliable LED low-coherence source to separate front surface from backside for testing thin parallel components with no spurious fringes. The platform is rigid for high-throughput part measurement on the shop floor...

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### Optical Design Software

**Lambda Research Corp.**

TracePro<sup>®</sup> is software for the design and analysis of optical and illumination systems. You can simulate and virtually prototype many types of devices and systems. TracePro simulates and optimizes light pipes, light guides, and nonimaging lenses and mirrors.

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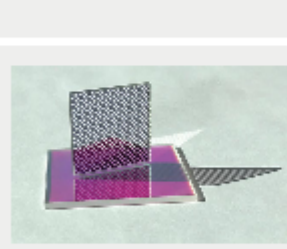


### FRED MPC FRED Optical Engineering Software

**Photon Engineering LLC**

Unleash your engineering creativity and inquisitive mind with FRED<sup>MPC</sup>. 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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### Patterned Thin-Film Optics

**Reynard Corporation**

Reynard offers custom photolithography services to produce a wide range of complex patterned optics with geometries down to 5  $\mu$ m on substrates up to 18 in. in diameter. Applications include alignment test and reference patterns, heated windows, patterned filters, polka dot...

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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. Applications include readout for unity quantum-efficient detectors,...

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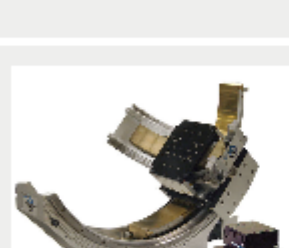


### Custom-Injected Molded Optics

**Diverse Optics Inc.**

Let Diverse Optics' experience and obsession help transform your optics into functional works of art. We work to reduce cost, trim weight, and improve performance for every customer. After manufacturing the most difficult optics for medical, defense...

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### Goniometers

**Aerotech Inc.**

Aerotech goniometers are offered in direct-drive and worm-gear models. ANT20G Series direct-drive models offer 0.05 arcsec resolution and 20 $^\circ$  travel, with speeds up to 150 $^\circ$  per second. AGC Series worm-gear models provide 90 $^\circ$  of angular travel and 3 arcsec resolution with up to 50-kg loads.

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### Multi-Pixel Photon Counters

**Hamamatsu Corporation**

Hamamatsu offers an extensive selection of products for laser and photonics applications. Visit our website to learn more about our latest products, including MPPC silicon photomultipliers for visible to NIR detection, laser diodes, and QCLs.

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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  $\pm 0.0001$  nm. By combining proven Fizeau etalon technology with automatic calibration, the most reliable accuracy is ensured.

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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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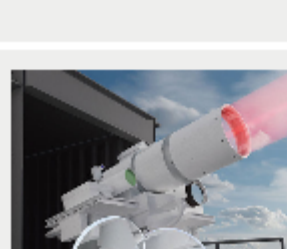
### Precision Polymer Optics

**GS Plastic Optics**

Injection-molded optics. Engineered for your success.

- Design for manufacturing
- Diamond turning
- Production injection molding
- Thin-film coatings on polymers

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### Sapphire for Directed Energy

**Meller Optics Inc.**

Featuring flatness to  $< 1/20$  wave,  $\leq 3$   $\text{\AA}$  surface roughness, 10 to 5 scratch-dig finishes, and  $< 2$  arcsec parallelism, these windows are ideal for directed energy weapons. Manufactured to customer specifications in sizes from 0.25 to 9.00 in.

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### Measuring VCSEL Optical Power

**Ophir, Photonics**

The Ophir IS6D integrating spheres measure optical power of widely divergent laser diode sources, such as VCSELs. They accurately measure light that diverges up to  $\pm 85^\circ$  and are delivered as a calibrated unit with a photodiode detector.

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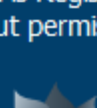
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