



PHOTONICS SHOWCASE



PHOTONICS MEDIA

January 2019

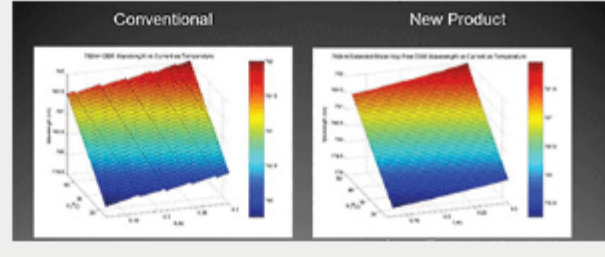
Bi-monthly product-focused newsletter with highlights from the latest issue of Photonics Showcase. Use the Request Info links below to ask for more information about these products, or visit Photonics.com/rssc. Manage your Photonics Media membership at Photonics.com/subscribe.

Featured Products

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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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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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/e² 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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Cleared Tissue Objective

From: Applied Scientific Instrumentation Inc.

The objective has been designed for light sheet microscopy of cleared tissue samples. It's used with any ASI SPIM configuration, enabling isotropic resolution without manipulating the sample. The objective offers submicron resolution in X, Y, and Z when used with a multiple-view system. It permits imaging >5 mm deep into flat samples, or up to 12 mm into spherical samples.



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Additional Products

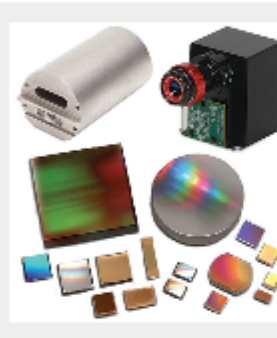


New Large-Area TaperCamD-LCM

DataRay Inc.

DataRay's new large-area TaperCamD-LCM CMOS beam profiler offers industry-leading features, such as 25- x 25-mm image area, 12.5-µm (effective) pixels, global shutter for pulsed or CW beams, port-powered USB 3.0 with screw-locking cable, 2500:1 SNR, and ISO-11146 compliant measurements.

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Original Holographic Gratings for OEMs

Headwall Photonics Inc.

Come to the leader in master-quality gratings for OEM instruments — convex, concave, or flat in high volumes with outstanding quality, alone or part of a custom optical package. With decades of experience designing and manufacturing for ourselves and others, we can develop an economical solution that will put you ahead of your competition.

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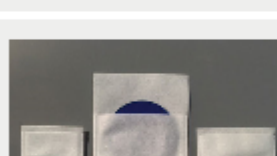


MCP-PMT for Lidar

Photonis Technologies

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

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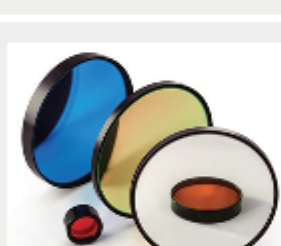


For the Safe Transit of Optics

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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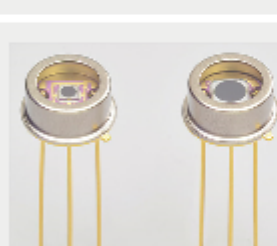


Optical Filters and Coatings

Andover Corporation

Andover was established in 1976 with the purpose of designing and manufacturing high-quality optical filters and coatings. We design and manufacture filters and coatings for a wide variety of applications. We are AS9100 and ISO 9001 certified.

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See Photons in a New Light

Hamamatsu Corporation

Hamamatsu's MPPCs (silicon photomultipliers) are among our most popular products, featuring high photon detection efficiency and precision for your visible to NIR applications. Ideal for flow cytometry, fluorescence measurement, and laser scanning microscopes...

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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, and commercial applications, we can help you...

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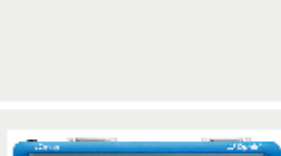


Circular Variable ND Filters

Reynard Corporation

Customizable Circular Variable Neutral Density (CVND) filters change light intensity from 100 percent to less than 0.1 percent. Densities can be supplied as a standard linear or customized gradient function, which can range from 45° to 360° of rotation.

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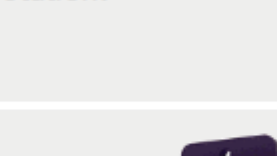


Advanced Laser Power Meter

Ophir, Photonics

Ophir® Centauri is a compact, portable laser power/energy meter for precise measurements of laser performance over time. A large, sophisticated touchscreen provides visual review of data using a wide range of display formats, such as displays with bar graph, pulse chart, and real-time statistics displays.

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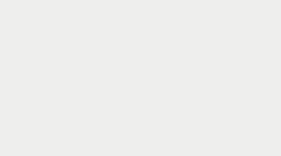


Phase-Locked Loop Optical Chopper

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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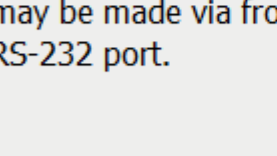


High-Power Blue Laser Modules

Akela Laser Corp.

AKELA Laser Corporation's ALC-450-XXXX-F105.22 family of fiber-coupled, high-brightness diode laser modules are the most compact high-power blue laser sources on the market. They are ideal for applications in materials processing and 3D printing of copper and other metals with high reflectivity in the IR.

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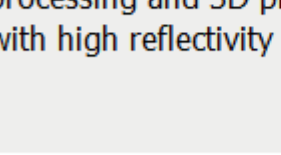


Pockels Cells with Large Clear Apertures

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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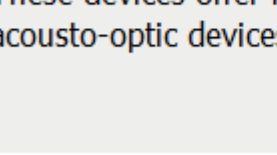


Integrating Spheres and Accessories

Newport/MKS Instruments

At MKS Instruments, in addition to our preconfigured sphere detectors, general purpose integrating spheres and accessories are available. The integrating spheres for other common sphere applications, such as uniform light sources and reflectance or transmittance measurements.

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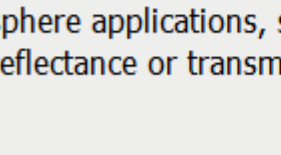


Sapphire Protects Vision Systems

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, fast-moving particles, gases, and high heat. Custom fabricated in sizes from 0.25- to 10-in. diameter and 0.5 mm to 1 in. thick.

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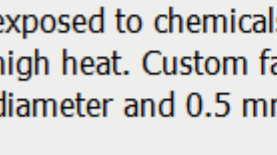


Fastest Laser Wavelength Meter

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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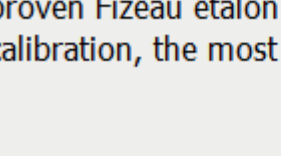


Single-Axis, Piezo Nanopositioning Stage

Aerotech Inc.

Aerotech's QFOCUS® QF-50 piezo nanopositioning stage enables microscope objective and optics positioning at a large travel (400 µm CL, 450 µm OL) without sacrificing speed or nanometer-level performance. The QF-50 is designed to accommodate newer optical instruments and next-generation laser micromachining applications.

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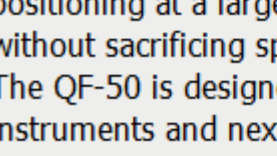


Continuous-Zoom AccuFiz

4D Technology Corporation

3x continuous optical zoom AccuFiz® — a coherent, laser Fizeau interferometer, making high-resolution measurements of varying optical part sizes. Measures surface shape, transmitted wavefront, homogeneity, and even plane-parallel optics.

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Annular Quadrant Si Detectors

OSI Optoelectronics Inc.

Quadrant silicon photodiodes operate between 350 and 1100 nm. Used for backscatter-reflectivity measurements, the annular quadrant design features 200 µm laser-cut hole on the chip and a header that enables coupling a fiber from the back of the detector.

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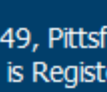
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