



PHOTONICS SHOWCASE



November 2019

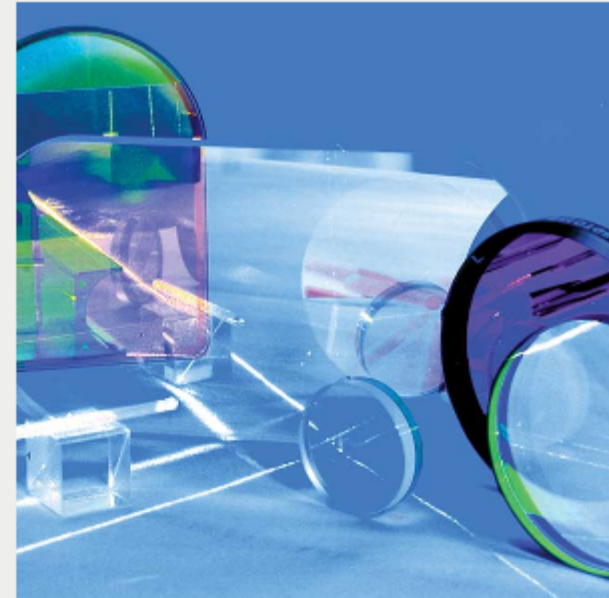
Bi-monthly product-focused newsletter with highlights from the latest issue of Photonics Showcase. Use the Request Info links below to ask for more information about these products, or visit Photonics.com/rssc. Manage your Photonics Media membership at Photonics.com/subscribe.

Featured Products

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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Quality, Precision, Reliability

From: SUTTER INSTRUMENT

The Lambda 421 optical beam combiner is a new, patented concept for combining multiple LEDs or any light guide-delivered light sources into a single common output beam, without the need for dichroic ladders. Each separate light source is collimated before entering the optical path through a bandpass filter. The filters for each light source also function as mirrors that reflect the collimated beams from the previous light sources.

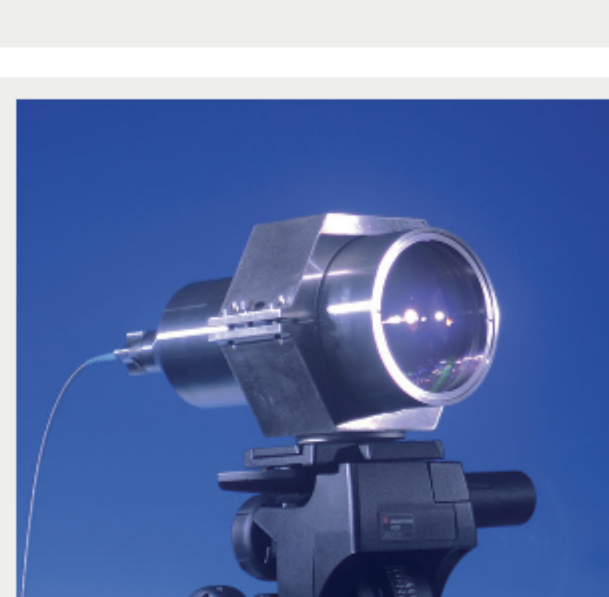


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FC100: A 100-mm Fiber Collimator

From: Micro Laser Systems Inc.

New SWIR (1500 to 2200 nm) coating and VIS1 (350 to 600 nm) coating have been added to the FC100. Focus is adjustable for wavelength tuning. With a large 50-mm beam and low wavefront error, this Fiber Collimator finds uses in FSO communications and lidar. Our 1550-nm (NIR2 coating) version is usually in stock. A mount is also available.



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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 μm . The piezo insert is controlled via an MS-2000 controller that accepts serial, USB, and analog inputs.



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Coatings for Highly Curved Optics

From: Deposition Sciences Inc. (DSI)

Coating highly curved optics is challenging for most thin-film deposition processes. In typical coating methods, curved parts become more thickly coated at their centers and thinner at their edges. To address this challenge, DSI developed IsoDyn, a chemical vapor deposition process that uniformly deposits antireflection coatings on highly curved optics such as domes, cylindrical lenses, and ball lenses.

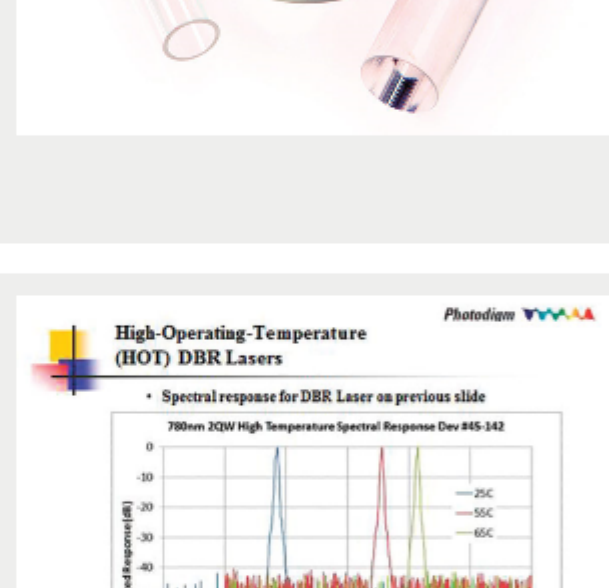


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High-Operating-Temperature DBRs

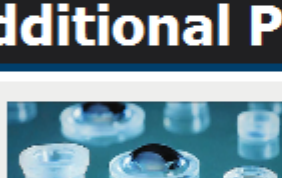
From: Photodigm Inc.

Photodigm Inc. now offers High-Operating-Temperature (H.O.T.) DBR laser diodes with a set-point temperature ranging from 50 to 60 °C. The H.O.T. DBRs provide equal performance and precision with a significant reduction in total system power by eliminating the need to "cool" the laser.



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Additional Products



Custom Polymer Optics

Diverse Optics Inc.

For over 25 years, Diverse Optics has manufactured the most challenging components and assemblies for a variety of applications. We use our knowledge of injection molding and diamond turning to help reduce cost...

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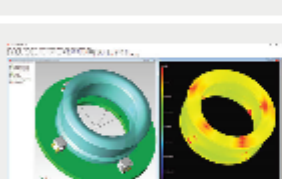


Ultraprecise Vertical Motion

Aerotech Inc.

Aerotech's PRO-SV series of lift stages provides long-travel, ultraprecise vertical motion in the shortest possible form factor. Three distinct models, each with a variety of configurable features and options,...

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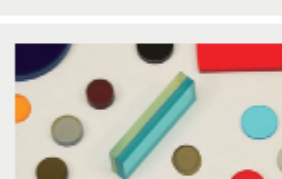


Optical Design Software

Lambda Research Corp.

TracePro® is software for the design and analysis of optical and illumination systems. You can simulate and virtually prototype many types of devices and systems.

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Variable Absorptive Neutral Density Filter

Optico Inc.

Since 1999, we've found innovative ways to use Colored Glass Filters for production/OEM customers. Includes neutral density, bandpass, cemented combinations, curved surfaces, and tempered.

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Custom Circular Variable ND Filters

Reynard Corporation

Custom Circular Variable Neutral Density (CVND) filters change light intensity from 100% to <0.1%. Densities can be supplied as a standard linear or customized gradient function, which can range from 45° to 360° of rotation. Features include laser and broadband coatings, substrates from 1- to 8-in. diameters,...

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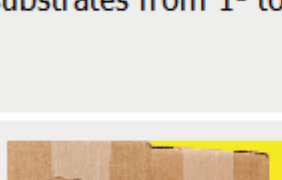


Optical Tunable Filter

Spectrolight Inc.

The new Flexible Wavelength Selector Poly Laser Version has a center wavelength tuning range from 350 to 900 nm, and a bandwidth that can be tuned from as low as 3 to 4 nm to 11 to 16 nm.

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Ultrapure Alumina Powder

Meller Optics Inc.

Meller Microlux Alumina Powders feature two ultrapure grades of abrasives for use with a broad range of optical materials. The Microlux-R grade has large agglomerated particles for aggressive grinding and lapping...

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Window Assemblies/Transflats

Inrad Optics Inc.

Inrad Optics fabricates transmission flats and precision window assemblies to 500 mm. Off-the-shelf interferometer flats are polished to $\lambda/20$ wave flatness and assembled in stress-free mechanical mounts.

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Double-Sided Absorptive Polarizer

Moxtek Inc.

MOXTEK has released the first commercially available double-sided absorptive wire-grid polarizer. This polarizer absorbs s-polarization from both directions, making it ideal for projection display applications...

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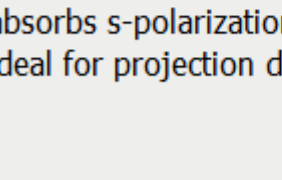


1919-R Optical Power Meter

MKS/Newport

The Newport 1919-R High-Performance Optical Power Meter is an advanced power/energy meter capable of measuring from pW to thousands of watts in an ergonomically designed compact body. It features onboard processing...

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16-kW High-Power Laser Sensor

Ophir, Photonics

The Ophir® 16K-W High Power Laser Sensor is a compact, water-cooled sensor for measuring very high-power lasers. Measures from 100 W to 16 kW over a spectral range of 0.8 μm to 2 μm and 10.6 μm .

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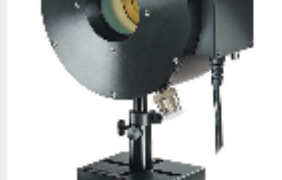


FRED MPC FRED Optical Engineering Software

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.

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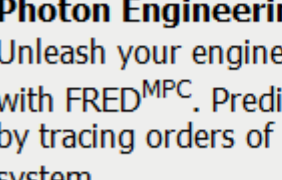
Precision Polymer Optics

GS Plastic Optics

Injection-molded optics. Engineered for your success.

- Design for manufacturing
- Diamond turning
- Production injection molding

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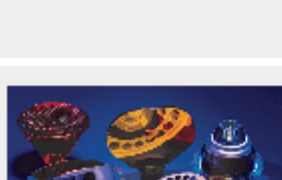


Optical Laboratory Equipment

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...

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Improve Laser System Stability

Wavelength Electronics Inc.

The LDTC LAB instruments combine best-in-class, low-noise, high-end digital laser diode driver control with an IntelliTune® smart temperature controller. Temperature stability better than 0.0009 °C.

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Laser Spectrum Analyzer

Bristol Instruments Inc.

The model 771 operates as both a high-resolution spectrum analyzer and a high-accuracy wavelength meter. With spectral resolution up to 2 GHz and wavelength accuracy as high as $\pm 0.0001 \text{ nm}$,...

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