



# PHOTONICS SHOWCASE



## September 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

### Flexible Sputtered Coatings

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

DSI's unique innovations for coating flexible substrates enable thicker coatings, increased layer count, higher durability, substrate alteration, and optimization. DSI's flexible coating applications include Sunshade Thermal Control Film for protection of satellite communication equipment, metallization, oxide and nitride multilayers, semiconductor multilayers, and patterned coatings.



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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<sup>2</sup> 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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### Narrow Spectral Output UVLEDs

**From: Opto Diode Corporation**

Our new ultraviolet light-emitting diodes (UVLEDs) deliver narrow spectral outputs and are designed for robust use and superior long-lifetime performance. The UVLEDs are housed in hermetically sealed TO-46 packages and are offered with and without lenses. All models in our UVC series of LEDs are suitable for disinfection applications and are designed for easy integration into new or existing systems.



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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



**Variable Absorptive Neutral Density Filter**

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


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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.

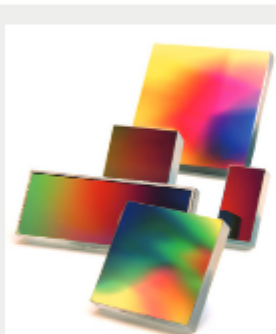
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**Custom Polymer Optics**

**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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**Next-Gen Ruled Diffraction Gratings**

**OPCO Laboratory Inc.**  
With our next-generation ruling engine for creating diffraction grating masters, OPCO Laboratory produces the industry's highest-performing replica gratings for our OEM customers...

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**IR Filters, Lenses, and Aspheres**

**Reynard Corporation**  
Infrared filters are custom-made from a variety of common IR materials, such as Si, Ge, ZnS, and ZnSe, as well as exotic IR materials, including specially grown binary/ternary crystals and ceramics.

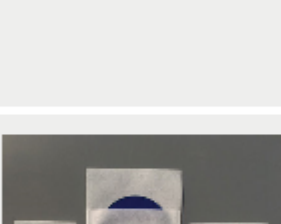
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**FASTCAM NOVA**

**Photron USA Inc.**  
The FASTCAM NOVA is available in three models, offering 12-bit image recording rates up to 12,800 fps at megapixel resolution, and shutter speeds to 0.2 μs. Recording rates to 1 million fps are available...

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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...

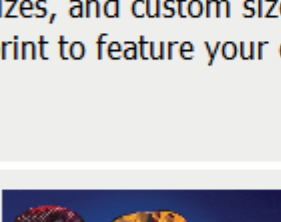
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**Fastest Laser Wavelength Meter**

**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.

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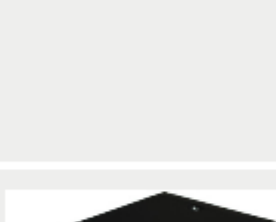


**Precision Polymer Optics**

**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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**High-Res Beam Profiling Camera**

**Ophir, Photonics**  
The Ophir® SP920 USB 3.0 Silicon CCD High Resolution Beam Profiling Camera works with wavelengths from 190 nm to 1100 nm, with enhanced sensitivity at 1070 nm. It delivers 1624 × 1224-pixel resolution...

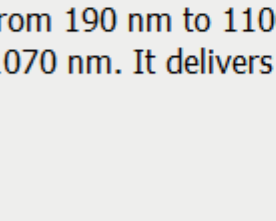
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**Wide AOI Wire-Grid Polarizer**

**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...

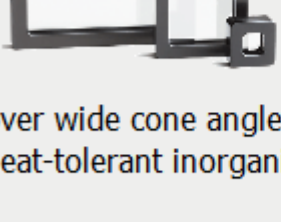
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**Window Assemblies/Transflats**

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

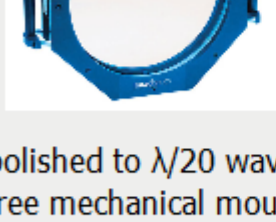
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**Silicon Avalanche Photodiodes (APDs)**

**OSI Optoelectronics Inc.**  
OSI's Silicon Avalanche Photodiodes (APDs) and Large-Area APDs are designed for high-speed, low-light applications. These devices offer high responsivity, high bandwidth, low noise, and low bias voltage.

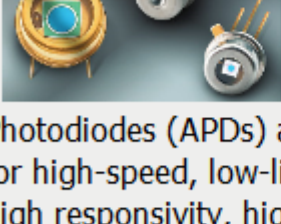
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**Phase-Locked Loop Optical Chopper**

**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...


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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.


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**Sapphire Lenses & Windows**

**Meller Optics Inc.**  
Meller Custom Sapphire Lenses, Windows, & Dome exhibit Mohs 9 hardness, which is second only to diamond. They are available with surface finishes to 20-5 scratch-dig, flatness to 1/4 wave, 20 to 2 arcsec parallelism...

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**FRED MFC** **FRED Optical Engineering Software**

**Photon Engineering LLC**  
Pleasure your engineering and inquisitive mind with FRED<sup>MFC</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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**Integrated Granite Motion (IGM) Systems**

**Aerotech Inc.**  
Bearings, encoders, and drive mechanisms are engineered and assembled directly on the granite base and bridge structures of IGM systems. They are custom-engineered for the unique needs of your application.

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