



## Photonics Showcase

### [Super Efficient Light Collection](#)

**From: LightMachinery Inc.**

For applications like Raman spectroscopy, LIBS, or high-speed process control. No more questioning data quality at certain wavelengths or choosing between resolution and signal strength. With uniform pixel density and optimized light collection, you get dependable measurements and maximum sensitivity throughout your spectral range.

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### [Quad Photodiodes and Photoreceivers](#)

**From: Discovery Semiconductors Inc.**

Discovery Semiconductors' patented Shortwave Infrared (SWIR) quadrant photodiode technology not only provides resilience to radiation, but also leads to ultra-low noise performance & low crosstalk. The TIA design lends itself to customization as per end user's requirements without any impact on radiation hardness. Applications include Gravitational Wave Sensing, Satcom Links, and Position Sensing. Extensive Reliability & Radiation testing done.

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### [Next-Gen FT-NIR Spectroscopy](#)

**From: Hamamatsu Corporation**

The new FTIR Engine is a compact, high-speed FT-NIR spectrometer featuring a MEMS-based Michelson interferometer for real-time analysis. Its small size and Ethernet interface enable fast data transfer and easy integration into inline systems. Covering 1100 – 2500 nm with high SNR, it ensures precise, rapid measurements of solids, liquids, and powders — even in tight spaces.

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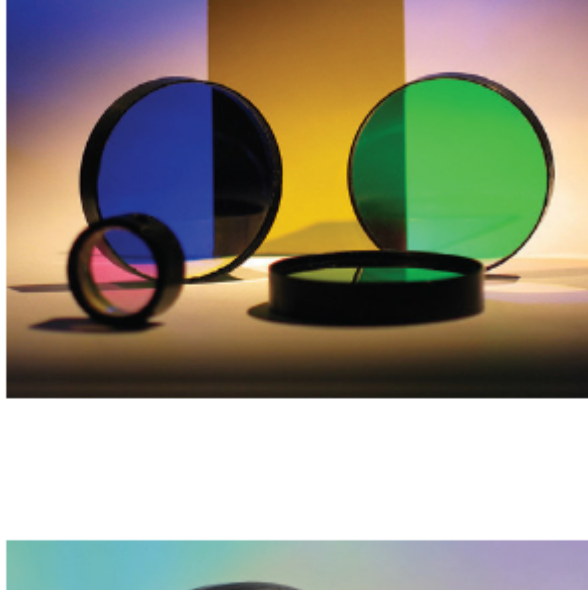
### [More Signal, Less Background](#)

**From: Iridian Spectral Technologies**

Iridian's custom optical filters provide wavelength selectivity from the UV to LWIR to applications including communications (telecom/datacom/satcom), spectroscopy (Raman/fluorescence/molecular diagnostics), sensing and imaging (gas detection/Earth observation/lidar). With high transmission and deep and broad blocking, our custom filter solutions and multizone filter arrays are designed and manufactured to optimize technical and commercial needs in our customers' systems.

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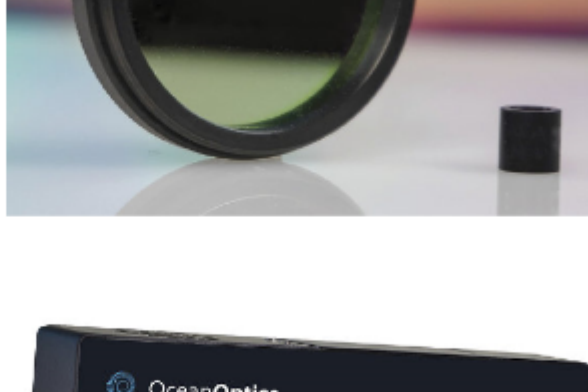
### [Peak Performance in the UV](#)

**From: Chroma Technology Corp.**

Chroma's UV filters deliver high transmission, steep edges, and superior blocking for applications such as Raman spectroscopy, materials analysis, and environmental monitoring. Designed for performance in the lab or out in the field, our catalog and custom filters offer durability, precision, and reliable results where UV light matters most.

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### [New Ocean NR 1.7 & 2.2 Spectrometers](#)

**From: Ocean Optics**

The Ocean NR Series is a high-resolution NIR spectrometer offering 900–2120 nm range, compact design, and high signal-to-noise performance. Its interchangeable slit, TEC cooling, and High Gain Mode deliver enhanced sensitivity and flexibility — ideal for precise, real-time analysis in process control, food, pharma, and materials applications.

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### [Liquid Light Guides](#)

**From: Lumatec GmbH**

Liquid Light Guides are flexible, unbreakable, and very durable, and they have significantly better transmission, more homogeneous illumination, and a larger aperture than fiber bundles at lower costs! They are the perfect solutions for applications that demand uniform, high-intensity light. We offer four different series designed for diverse spectra ranging from ultraviolet to infrared and a broad selection of end fittings.

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### [SPECTRA X Light Engine](#)

**From: Lumencor Inc.**

Lumencor's SPECTRA X Light Engine is a bright, versatile, fluorescence excitation solution for microscopists demanding spectral flexibility from solid-state lighting. It offers enhanced spectral control in 10 wavelengths (365 – 780nm), intense YFP light, stability, reproducibility. What more could you ask for from this proven leader in optical excitation?

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### [Ultrashort-Pulse Laser](#)

**From: TeraXion Inc.**

Indie's fs Fiber Laser features a 1064 nm wavelength, 50 fs pulse duration & nearly 1 MW peak power, optimizing efficiency in nonlinear processes. Its SESAM-free design ensures reliability and cost effectiveness, ideal for THz signal generation and MPM. This innovation addresses the demand for robust, affordable solutions, accelerating adoption in scientific research and biomedical applications like THz spectroscopy and two-photon microscopy.

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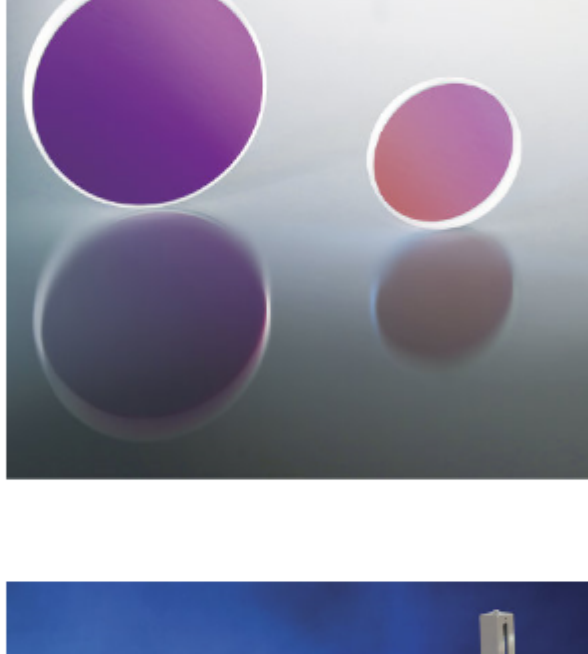
### [Femtosecond High-Power Optics](#)

**From: Hangzhou Shalom EO**

Hangzhou Shalom EO's femtosecond high-power optics include chirped mirrors/mirror pairs, low GDD mirrors, ultra-thin nonlinear crystals (down to 0.01mm) designed for femtosecond lasers, such as Ti: sapphire and Yb: doped femtosecond lasers. These optics are optimized to withstand high laser damage, peak powers, and provide low dispersion or negative GDD, while ensuring superior reflectivities and efficiencies at the working wavelengths.

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### [High-Power Solid-State Illuminators](#)

**From: Innovations in Optics Inc.**

Innovations in Optics, Inc. (IOI), industry leaders in ultra high brightness, high uniformity LED illuminators, features a range of products including solar simulators, UV LED illuminators, projectors, light engines and drivers for solar, medical, industrial and machine vision applications. Pictured are our Class A+A+A+ LumiSun-50™ LED benchtop solar simulator and our LumiSpectra™ multispectral LED illuminator. Contact us to learn more.

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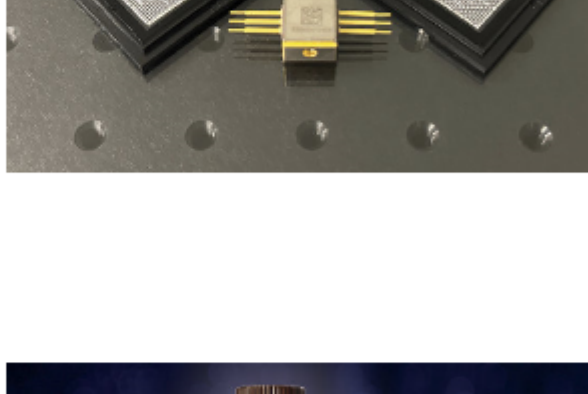
### [GaN Lasers](#)

**From: Kyocera SLD Laser (KSLD)**

KYOCERA SLD Laser, Inc. is the only US-based GaN laser company — fully vertically integrated including wafer growth. We offer laser chips, chip-on-submount, and bars in a variety of wavelengths including 405, 445, and 520nm. Offering multi-watt multimode chips, high power single mode, frequency narrowed, custom SLEDs and laser-phosphor white light sources. We are also automotive qualified. Let's collaborate to explore what's possible!

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### [Propel Forward with EPO-TEK® 353NDP](#)

**From: Epoxy Technology Inc., Electronics Div.**

Built on the pioneering 353ND platform, 353NDP supports the leap from 400G to 800G and 1.6T in the AI/ML era, delivering 2000-hour reliability at 85°C/85%RH. Ideal for high-speed, high-density optical transceivers, photonic ICs, and fiber optics, it offers superior thermal stability, ultralow outgassing, and >15kg die shear strength. Propel forward your innovations in datacom, telecom, automotive, defense, and aerospace with 353NDP.

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### [SIRRUS™ PVD Platform](#)

**From: Alluxa**

Alluxa's innovative, next-generation SIRRUS™ plasma physical vapor deposition (PVD) platform offers full spectral coverage from ultraviolet (200 μm) to infrared (14 μm). The proprietary process enables optical filters with the steepest edges, highest transmission, and deepest blocking available while maintaining high performance, precision wavelength control, and extremely uniform coatings.

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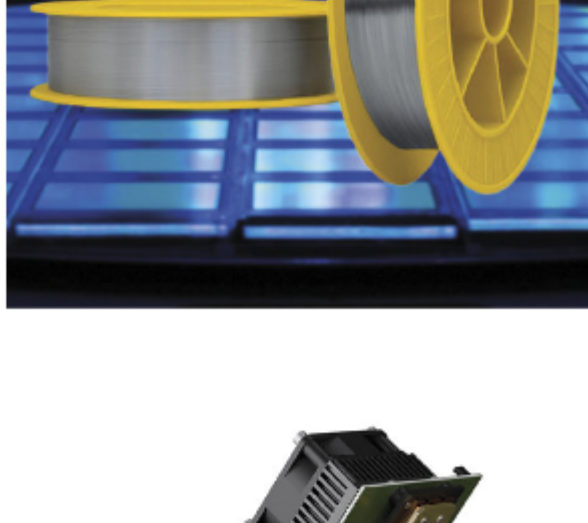
### [High-Solarization UV Fibers](#)

**From: CeramOptec**

CeramOptec's innovative UV-fibers offer exceptional solarization resistance in the 190-200 nm range and support core diameters from 100 μm to 2100 μm — even in non-circular shapes. With low attenuation for blue high-power laser, strong resistance to harsh environments and reliable performance up to 400 °C, they serve critical photonics fields like spectroscopy, laser delivery, and semiconductor manufacturing.

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### [ZEISS PGS NIR 2.5](#)

**From: Carl Zeiss Spectroscopy GmbH**

The Plane Grating Spectrometer NIR 2.5 from ZEISS offers high-quality NIR spectroscopy, covering a broad range of 1200 to 2450 nm with a spectral dispersion of 5 nm/pixel. It uses enhanced InGaAs sensor technology for improved data rates and linearity. Custom ZEISS gratings ensure optimal NIR sensitivity and signal quality. Contact us to explore the full potential of our PGS.

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### [Toward 100% Yield](#)

**From: Femtum**

Femtum's fiber laser solutions redefine semiconductor manufacturing enabling higher production throughput and yield, streamlined design innovation, and industry leadership in shaping the future of manufacturing. Femtum delivers results and redefines laser applications for manufacturers, especially with its photonics wafer laser trimming and dry laser cleaning solutions.

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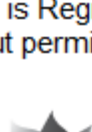


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