



Photonics Showcase

[Multi-Wavelength Laser Diode Modules](#)

From: AKELA Laser Corporation

Versatile lines of multi-wavelength and high-power fiber-coupled laser diode modules for medical and industrial applications combining emitters from 375 to 2000 nm. Over fifty standard module designs and wavelengths combinations. Limitless potential custom configurations. Quick prototyping. One module, multiple applications. Seamless and fast transition from pilot batches to volume production.

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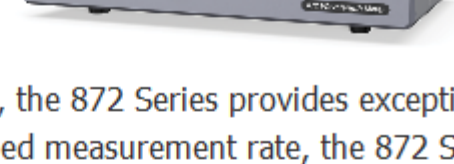


[872 Series Laser Wavelength Meter](#)

From: Bristol Instruments Inc.

The 872 Series High-Resolution Laser Wavelength Meter is ideal for the frequency stabilization of lasers. Offering a frequency resolution as high as 200 kHz, the 872 Series provides exceptional sensitivity to wavelength deviations. With a built-in PID controller and 1 kHz sustained measurement rate, the 872 Series is well suited to precisely stabilize lasers used in applications such as atomic cooling and trapping.

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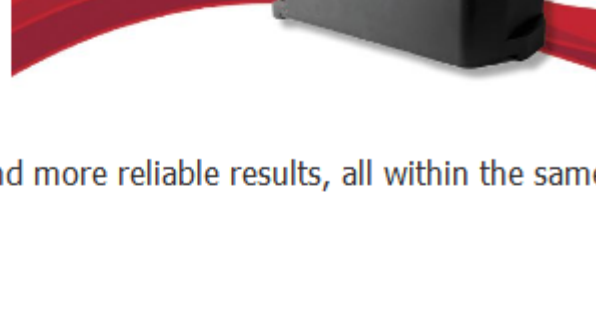


[Our Broadest Tuning Yet](#)

From: DRS Daylight Solutions Inc.

Unlock the full potential of your spectroscopy application by accessing the valuable fingerprint region of the mid-infrared with MIRcat™. Our enhanced MIRcat laser, equipped with Daylight-engineered QCLs, offers unparalleled wavelength coverage, allowing precise targeting of this critical region for more accurate and detailed molecular identification. Achieve deeper insights and more reliable results, all within the same trusted compact design.

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[InGaAs Avalanche Photodiode Series](#)

From: Excelitas Technologies Corp.

The enhanced C30645 and C30662 InGaAs Avalanche Photodiodes from Excelitas are high-speed, high-gain devices offering high quantum efficiency, high responsivity, high resistance to over-illumination, and now with significantly lower noise in the 1000 nm to 1700 nm spectral range. They provide better Signal-to-Noise-Ratios and increased detection range from the same laser output power, making them ideal for eye-safe ranging and LiDAR systems.

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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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[TracePro Optical Design Software](#)

From: Lambda Research Corporation

TracePro® is the go-to optical design software for lighting, displays, and imaging systems. Advanced ray tracing, stray light analysis, and optimization tools simplify complex designs. The new Sequence Editor adds sequential ray tracing, spot diagrams, and beam analysis, seamlessly integrating with CAD tools. Recent updates enhance analysis speed and CAD interoperability for photonics, aerospace, and medical applications.

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[Hyperfine One Spectrometer](#)

From: LightMachinery Inc.

Compact 250 - 1000nm spectrometer with 1nm resolution at all wavelengths. Leveraging LightMachinery's world class design and manufacturing for higher sensitivity. Onboard image processing and serial data output with an easy to use user interface. The right choice whenever a brighter, faster, or wider spectrum is required. The wide range and high sensitivity enable high speed process control for spectroscopic measurements from UV to NIR.

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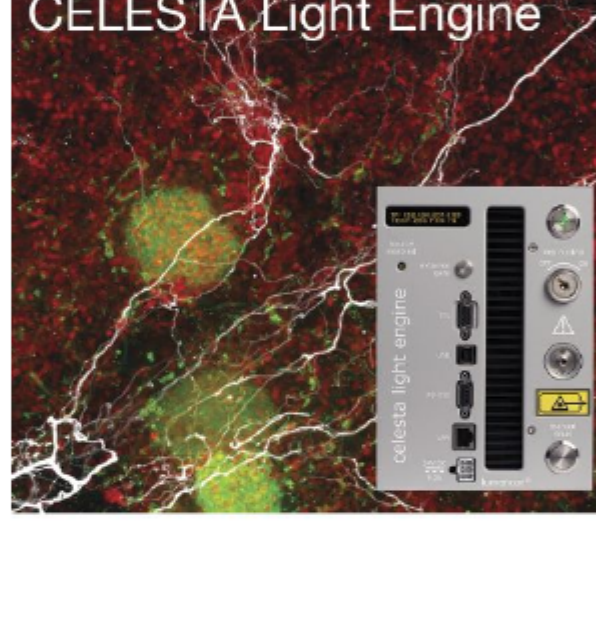


[CELESTA Light Engine](#)

From: Lumencor Inc.

CELESTA Light Engine houses seven lasers in a turnkey illuminator for fluorescence confocal spinning disk microscopy and spatially resolved transcriptomics. 1000 mW/color from the end of an optical fiber is powerful, intense, quiet, reproducible and consistent. High-end imaging and OEM instrumentation are well supported. Ask about customization.

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[Active Alignment and Assembly](#)

From: nanosystec GmbH

The NanoGlue, NanoWeld, and NanoSolder series are partly or fully automated production stations for demanding alignment and low-shift assembly procedures in opto-electronics industry. The linear axes work with 5-nm resolution, and angular rotation resolution is below 0.0005°. Long travel ranges facilitate the loading and unloading procedures while the modular architecture allows for fast and reliable customization. Visit us at Photonics West, booth #4605.

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[Optical Machinery System Supplier](#)

From: OptoTech Optical Machinery Inc., Precision Optics

No matter what type of optical component you want to process, OptoTech is your system supplier for cutting edge processing machines, vacuum coating systems and measuring technology. Our machines and technologies have been shaping the optical industry for almost 40 years and we are not going to stop pushing the boundaries of processing optics. See for yourself how OptoTech can make a valuable contribution to the success of your company.

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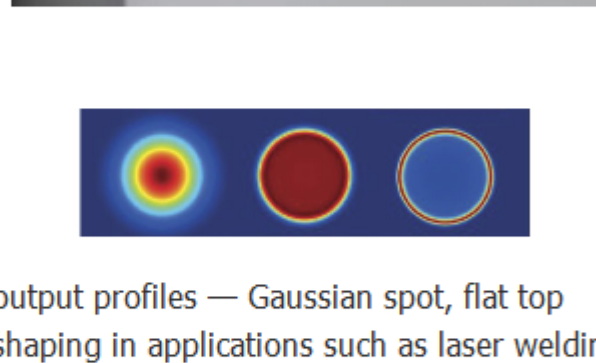


[Variable Beam Shaper](#)

From: PowerPhotonic Ltd.

The Variable Beam Shaper is an advanced refractive optical element engineered to transform a single mode Gaussian beam into one of 3 different output profiles — Gaussian spot, flat top circular spot or a ring shaped spot. It enables users to achieve dynamic beam shaping in applications such as laser welding or laser additive manufacturing and allows a new level of process enhancements and benefits to be realized.

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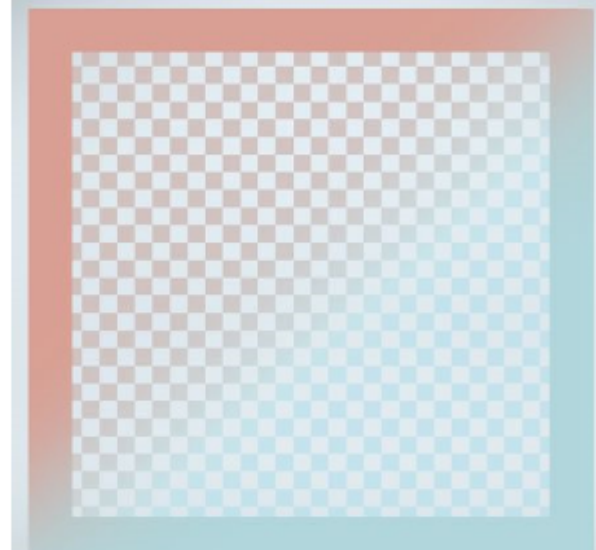


[Patterned Thin-Film Optics](#)

From: Reynard Corporation

Custom photolithographic patterning service produces a wide range of complex patterned optics with geometries down to 5µm on substrates up to 18" in diameter. We provide multiple pattern stacking and gapless patterns. Metallic or dielectric materials are selected based on the application's transparent, reflective, and/or conductive opto-electrical requirements for alignment test & reference patterns, heated windows, reticles, barcodes. ISO & ITAR.

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[CENTUM® C3](#)

From: Sheetak

Sheetak's CENTUM® C3 thermoelectric coolers leverage a patented architecture to achieve industry-leading multi-stage performance in the most compact form factor on the market. It's designed for use in various optoelectronic applications, imaging sensors and analytical instrumentation, but our team is always on hand to create custom, optimized designs to fit your unique needs. Contact us to find your solution today!

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[IR Filters for Thermal Imaging](#)

From: Spectrogon US Inc.

Spectrogon manufactures infrared filters and windows with high transmission, high rejection outside the passband, while maintaining excellent coating uniformity for thermal imaging and gas detection applications such as cryogenically cooled IR detectors and uncooled microbolometers. Our filters and windows range in dimension from Ø6.0 to Ø200.0 mm, with dicing capabilities down to as small as 1.0 × 1.0 mm.

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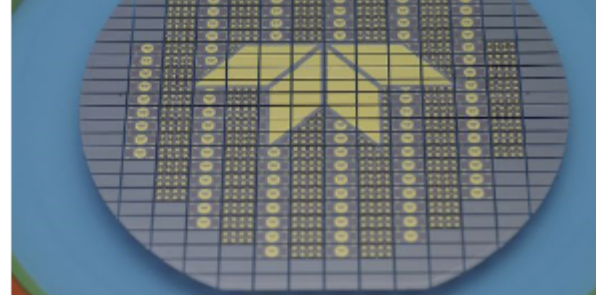


[MEMS Micromirror Manufacturing](#)

From: Teledyne MEMS

Teledyne MEMS has decades of experience and provides MEMS manufacturing services for datacenter, telecom and Lidar applications. Bulk micromachined geometric tilt mirrors offer critical dimension control, precise layer alignment, and film stress stability, and many optional capabilities. Surface micromachined diffractive switching arrays offer small vertical aspect ratios, high speed, high channel count, and high optical power management.

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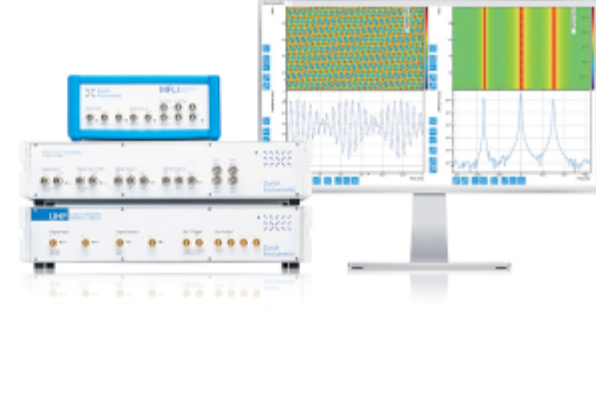


[Lock-in Amplifiers](#)

From: Zurich Instruments AG

Zurich Instruments Lock-in amplifiers are equipped with the LabOne® user interface, providing time- and frequency-domain signal analysis tools in the form of a scope, a real-time data plotter, a DAQ module, a spectrum analyzer, and a sweeper. Upgrade options include phase-locked loops, PID controllers, multi-demodulator and multi-frequency functionalities, boxcar averagers, and arbitrary waveform generators. Let's connect!

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