

PHOTONICS SHOWCASE



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[Dynamic Beam Laser](#)

From: **Civan Lasers**

Civan's Dynamic Beam Laser (DBL) is an advanced laser technology for welding and metal additive manufacturing, offering unprecedented control and flexibility. The DBL allows manufacturers to quickly tailor the welding process to their specific applications. Based on optical phase array (OPA) technology, a form of coherent beam combining (CBC). This unique characteristic enables real-time manipulation of the beam shape.



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[Space-Designed SWIR Module](#)

From: **First Light Imaging SAS**

C-RED New Space: SWIR camera core designed for new space optical payloads. Space-approved 640 × 512 InGaAs sensor. Maintains optical performance. Supports space operations conditions. High-speed 600 FPS full frame. Low noise under 30 electrons. Perfect for Earth observation, communications, debris tracking. C-RED New Space is part of the C-RED range of SWIR cameras (0.8 to 2.5 μm) from First Light Imaging.



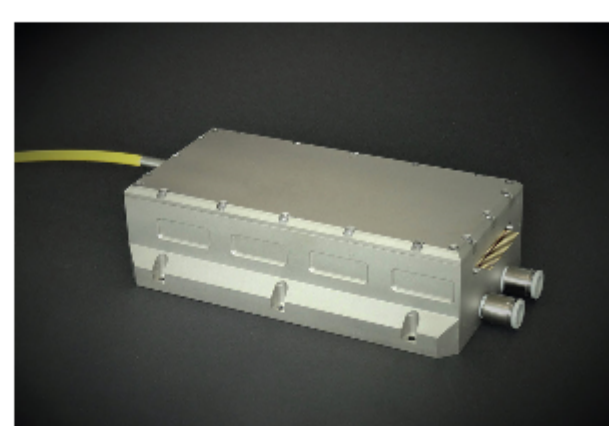
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[450nm Blue Diode Laser](#)

From: **PhotonTec Berlin GmbH**

The high-power 450-nm diode lasers from Photon-Tec Berlin offer output power of at least 120 W from a single fiber with core diameter as small as 100 μm. The diode modules come with hermetically sealed packages and a high-power SMA fiber connector. Thermistor, monitor photodiode, and red aiming options are available.



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[InAsSb Infrared Detector \(PV\)](#)

From: **VIGO Photonics**

PVIA-10.6-1×1-TO39-NW-36 is a room-temperature IR photovoltaic detector based on InAs/InAsSb superlattice heterostructure. The detector element is monolithically integrated with hyper-hemispherical GaAs microlens in order to improve the performance of the device. Spectral range: 1.8 to 12.0 μm, ROHS compliant. Applications: CO2 laser (10.6 μm) measurements, gas detection, etc.



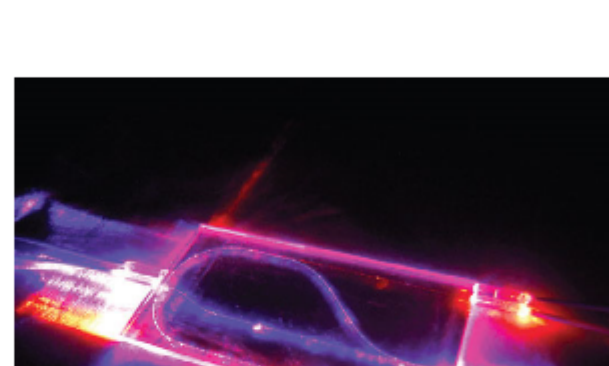
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[Photonic Integrated Circuits](#)

From: **Teem Photonics**

Teem Photonics offers low-loss pigtailed PIC devices with five weeks turn-around time, drastically accelerating development speed and enabling a shorter path to series production. Custom or standard functions include AWGs (crosstalk > -30 dB), MZIs (modulation depth > 25 dB), splitters, zero crosstalk crossings. Applications cover telecom, sensing, lidar, and quantum technologies.



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[IR Filters for Thermal Imaging](#)

From: **Spectrogon US Inc.**

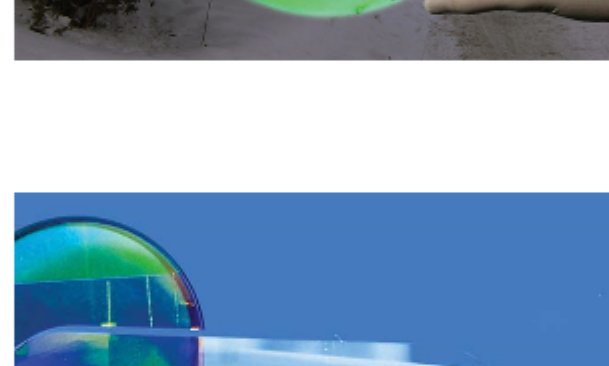
Spectrogon manufactures infrared filters and windows with high transmission, high rejection outside the passband, while maintaining excellent coating uniformity for thermal imaging and gas detection applications such as cryogenically cooled IR detectors and uncooled microbolometers.



[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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[771 Laser Spectrum Analyzer](#)

From: **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 ±0.0001 nm, this system provides the most detailed information about the spectral properties of lasers operating from 375 nm to 12 μm.



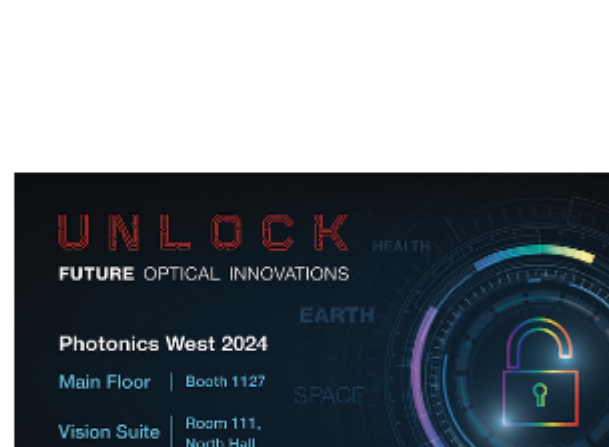
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[Photonics Holds the Key](#)

From: **Hamamatsu Corporation**

Immerse yourself in future optical innovations with Hamamatsu at Photonics West 2024. Discover our photonic advancements available here and now in our main booth (#1127). Then visit our second location, Vision Suite (Room 111), to experience how photonics will benefit our world in ways you haven't yet imagined. Join us at the show to unlock innovation and inspiration.



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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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[Fast. Custom. Lenses.](#)

From: **Rainbow Research Optics LLC**

Rainbow Research Optics specializes in high-precision custom glass and IR lenses for critical applications in the defense, life science, and industrial markets. Full in-house capabilities including fabrication and VIS/ MWIR thin-film coatings for fast delivery and high levels for service. Materials include all glass, CaF2, Si, Ge, ZnSe, and ZnS. Made in U.S., ITAR registered, and ISO certified.



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[Circular Variable ND Filters](#)

From: **Reynard Corporation**

Custom Circular Variable Neutral Density (CVND) filters change light intensity from 100% to less than 0.1%. Densities are supplied 0 to 1, 2, 3, 4, or 5 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, and functional wavelength from the UV to the far IR.



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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 architectures 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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