

sneak  
**PREVIEW**

**PHOTONICS**  
MEDIA photonics.com

**LASER World of Photonics 2022**



**LASER World of PHOTONICS Bets Big on Quantum**

LASER World of PHOTONICS returns this year to spotlight the latest innovations in photonics systems, components, and applications, with exhibition sectors dedicated to Illumination and Energy, Biophotonics and Medical Engineering, Manufacturing Optics, Quality Control, Laser Manufacturing, and Optoelectronics. The international trade fair will run April 26-29 in Munich and will feature a new component called the World of QUANTUM, which will debut in its own exhibition hall. Photo courtesy of Messe München GmbH.

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sponsor

Test lenses over temperature with the LensCheck™ Thermal Module  
Visit us at A6.308 at Laser World of Photonics to learn more.

**.: Featured Exhibitors**

**High Precision Image Quality Test**

**From: TRIOPTICS GmbH**

The newly developed ImageMaster® HR 2 from TRIOPTICS stands for highest accuracy and reproducibility in image quality testing. Stable measurement values as well as user-friendly software support in combination with best mechanical features contribute to better correlation testing. Extended sample ranges and measurement parameters and the new MTF Studio software with enhanced usability further improve the worldwide standard for image quality testing.

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**Highest LIDT for Large Laser Optics**

**From: LASEROPTIK GmbH**

Reaching highest LIDT was demonstrated with LASEROPTIK's large mirrors for HAPLS, the most powerful petawatt laser ever built, part of ELI Beamlines. One of the major achievements is a measured laser damage threshold of 0.9 J/cm<sup>2</sup> at 42 fs and 805 nm, while maintaining large bandwidth and high wavefront quality. The large IBS broadband mirrors showed no crazing after many vacuum-air cycles.

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**Test Lenses Over Temperature**

**From: Optikos Corporation**

The TM-1010 is the latest addition to the family of LensCheck™ and OpTest® Thermal Modules developed to enable lens testing over temperature, typically from -30° to +100 °C. Specifically designed for small lenses with fields of view up to 160°, the TM-1010 adds to the range of automotive lenses that may now be characterized over a range of temperatures on a LensCheck instrument.

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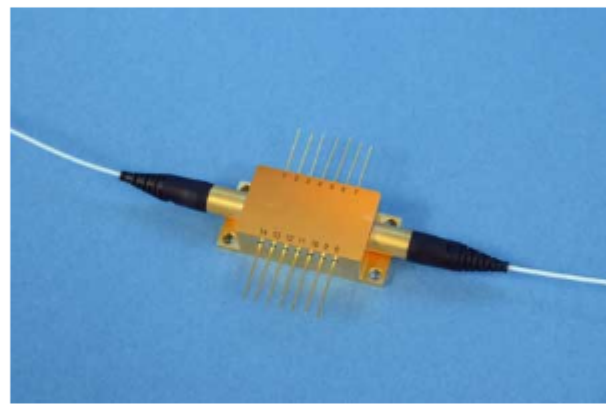
**Polarization Controller-Scrambler**

**From: OZ Optics Limited**

High Speed Electro-Optic Polarization Controller provides an efficient means to manipulate the state of polarization. The device is offered with 2 to 4 channels. The built-in crystal response time <10 μs with external voltage applied. The controller's response speed is highly suitable for polarization controlling and scrambling to average Polarization effects or for making PDL/PMD measurements.

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**Optical Coating Services**

**From: Focuslight Technologies Inc.**

Focuslight Technologies offers a wide variety of AR, HR, beamsplitter, beam filter coatings to cover the wavelength range from the DUV (248 nm) to IR and a great selection of coating tests and analysis, including spectrometer and LIDT test. Focuslight can coat substrates up to 140 mm x 140 mm at the moment. Specific optical components can even fulfill the automotive-grade requirements. Capacity available. Customization acceptable.

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**Edmund Optics at LASER Munich 2022**

**From: Edmund Optics GmbH**

Edmund Optics, leading global manufacturer and distributor of precision optics and imaging components, will be exhibiting at the LASER World of Photonics tradeshow in Munich on 26-29th April at Hall B6, Booth 518. Alongside showcasing a selection of their extensive portfolio, EO will demo some of their innovative new products including their new transmission-free Schwarz Mirror, their ingress-protected waterproof Cw Series Imaging Lenses, and their largest ever Precision Asphere!

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**5 Axis CNC Machining All Materials**

**From: Valley Design Corp., Headquarters**

Valley Design has combined its 4&5 axis CNC machining experience with its unique capabilities in precision lapping, optical polishing, dicing and grinding, enabling us to produce complex parts with tolerances to micron levels. We can fabricate a wide variety of features and shapes in all materials from Glass, Fused Silica, Ceramics, Metals and Sapphire. Features such as steps, slots, holes, channels, chamfers, pockets, counterbores, notches, and radii are readily producible.

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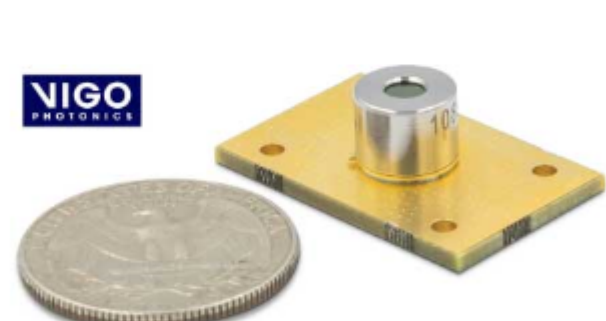
**MWIR InAsSb Detection Module**

**From: VIGO Photonics**

The AMS3140-01 is a cost-effective solution designed for high-volume applications. Built-in amplifier and temperature controller provide constant responsivity over a wide range of ambient temperatures. Wide bandwidth and low 1/f noise corner provide efficient measurements with generally available sources of radiation, including MEMS heaters, and pulsed LEDs or lasers. With differential output, the AMS3140-01 offers easy connectivity over connectors with high immunity to electromagnetic interference.

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**The World's Broadest Tunable Laser**

**From: NKT Photonics A/S**

Meet SuperK CHROMATUNE, the World's broadest tunable laser. Finally, a laser that is easy to use and lets you focus on your work. Maybe saying that you will never need another laser is taking it too far, but... because of its broad 400 – 1000 nm tuning range, CHROMATUNE covers numerous wavelength needs. No alignment, no adjustments, no calibration. Pick your wavelength. Click the button to get instant light. It is that easy.

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**New Green and Yellow Laser Modules**

**From: Frankfurt Laser Company**

Besides the already well-known green laser modules from Lasence with the wavelengths 532 nm and 545 nm, new laser modules are now available with wavelengths 520 nm, 555 nm, 561 nm, and 577 nm. These laser modules from the GLM series are offered with output powers up to 1 W, have a fast rise time, and are very reliable. The typical output beam has a diameter of 0.5 mm with divergence ≤40 mrad. With dimensions of just 18 mm x 55 mm (Diameter x Length) they are very compact for this high output power.

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