Thursday, June 12, 2025

PHOTONICS spectra

Photonics Showcase

Trust Your Photons
From: DRS Daylight Solutions Inc.

Meet Stretto, a family of high-performance external cavity diode lasers spanning UV to infrared wavelengths. Purpose-built for quantum research and QCM integration, Stretto offers exceptional stability, wide wavelength coverage, and rugged durability. Visit us at Booth A2.237 at Laser World of Photonics to learn more.

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Build the Exact System You Need
From: Zaber Technologies Inc.

Mix and match Zaber's modular stages (linear, rotary, XY, tip/tilt) to rapidly build systems with up to 1.5 µm accuracies. Set up and start moving in minutes with Zaber software: no coding required! For advanced applications, use our intuitive API; its sample code makes programming nearly a copy & paste task. You can rely on fast lead times (1-5 days) and responsive support (1 day.)

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A Light Source for the Quantum Age
From: Eblana Photonics Ltd.

The future of quantum is photonics. From enabling secure global communications to building the next generation of sensors and processors, Eblana Photonics powers the quantum frontier with reliable, high-precision lasers and gain chips built for real-world deployment. At Eblana, we work alongside innovators to tailor optical solutions for complex quantum architectures, spanning research to scalable product development.

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Compact Speed for Marking & Cleaning
From: SCANLAB GmbH

The new SCANcube IV 7 is characterized by highest dynamics, e.g. write speeds of up to 1840 cps. The wide range of application-specific tuning options allows the system to be used in a wide variety of industries. For applications that require higher laser power, such as laser cleaning, the power compatibility has been increased to up to 300 W. Its compactness and the advanced technical design simplify integration into various machine concepts.

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Compact UV Laser at 349 nm
From: HUBNER Photonics GmbH

HÜBNER Photonics announces the addition of a new wavelength in the Cobolt 05-01 Series. The Cobolt Kizomba™ 349 nm laser delivers up to 50 mW in a perfect TEM00 beam, with excellent beam pointing stability, extremely low noise (<0.7% rms) and very narrow linewidth (<500 kHz), making it perfectly suitable for flow cytometry, interferometry and Raman spectroscopy.

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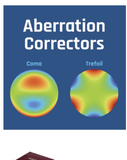
Freeform Aberration Corrector
From: PowerPhotonic Ltd.

PowerPhotonic freeform aberration compensators are a cost-effective solution for correcting aberrations in laser systems — pointing, defocus, astigmatism, coma etc. Manufactured in fused silica, our compensators have an extremely low scatter and low loss. They can be used in high power applications such as laser inertial fusion or low light applications such as fluorescence microscopy and cytometry.



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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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Norland Optical Splice
From: Norland Products Inc.

Norland's optical splice provides a high-performance connection for optic fibers in a unique one-piece design.

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G5 Infrared Joins LightPath!
From: LightPath Technologies Inc.

Now part of LightPath Technologies, G5 IR offers advanced thermal imaging for defense, aerospace, and security. Solutions include short to long-range detection, human/truck ID, and ATCOM image stabilization. Easy integration and superior performance make G5 ideal for protecting critical infrastructure and defense assets.

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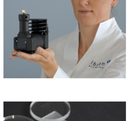
World's Best Raman Spectrometers
From: Ibsen Photonics A/S

EAGLE Raman HR ensures optimal performance at a competitive cost, with low unit-to-unit variation and strong environmental stability. It incorporates the world's best Raman diffraction gratings, providing the best possible diffraction efficiency and low polarization-dependent sensitivity. This spectrometer provides maximum sensitivity and high resolution in a robust, compact form factor designed for volume manufacture.



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Etch & Fill Micropatterns
From: Graticules Optics Ltd.

We specialize in etch & fill (day/night) reticles, engineered for optimal visibility against dark fields where standard black patterns fail. With over 60 years experience, we produce high-performance reticles for night vision, periscopic systems, and low-light targeting, often as cemented doublets or bespoke assemblies. Few manufacturers globally possess the skillset and infrastructure to meet the strict demands of these applications.

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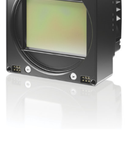
The xiX-XL Camera Series
From: XIMEA GmbH

The xiX-XL series offers global and rolling shutter options and a fast 32 Gbit/s PCIe Gen2 x4 interface for the lowest latency. Ideal for flexible payloads & minimal SWaP. Features Sony IMX455, IMX461, IMX411 & IMX811. Optimized cooling with detachable sensor heads enhances image quality. New MX2457 model: 245.7 Mpix (IMX811), 4.1" sensor, rolling shutter. Find out more: ximea.com/xiX-XL



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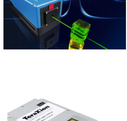
DL pro BFY
From: Toptica Photonics AG

The DL pro is a reliable ECDL laser for almost all wavelengths between 369 nm and 1770 nm. With power up to 400 mW and free running linewidth down to 0.6 kHz, the DL pro is a proven solution for most QT applications. Its digital controller allows a stable performance, the GUI making remote access easy, which is very convenient when the DL pro rack version is requested. It is fully compatible with the extensive TOPTICA portfolio of tunable diode lasers, driving electronics, software and accessories.



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Narrow-Linewidth Semiconductor Laser
From: TeraXion Inc.

The Narrow-Linewidth DFB Laser Module delivers ultra-low phase-noise and fast frequency modulation. Offered in both standard and ultra-narrow versions, with linewidths as low as 0.05 kHz, it features an integrated low-noise current source and a high-stability temperature controller in a compact design. Operational from –20 to 65°C, it supports applications like DAS, QKD and FMCW LIDAR, ensuring high wavelength stability in demanding environments.

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Ultrafast Mid-Infrared Spectroscopy
From: NLIR

NLIR's MIDWAVE Spectrometer is a fast, portable, and versatile tool for measuring MIR light in the 2.0 – 5.0 µm range. It has high sensitivity of at least –80 dBm/nm, and full-spectrum readout rate at 400 Hz up to 130 kHz. Designed for applications requiring high-speed and accurate spectral measurements, it captures full spectra in milliseconds without scanning elements, making it ideal for a wide-range of industrial and laboratory applications.

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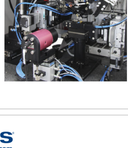
Optical Alignment in Tiny Space
From: nanosystec GmbH

Two nanosystec stations align and assemble up to 30 individual optical components in a butterfly housing. VersaGlue uses machine vision algorithms to precisely pick and place the components in the micron regime. Optical power, beam parameters, and optical spectrum serve as feedback signals for the active alignment and positioning of the demanding optics in the NanoGlue system with submicron precision. Visit us: LASER Munich, booth A2.350.



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