

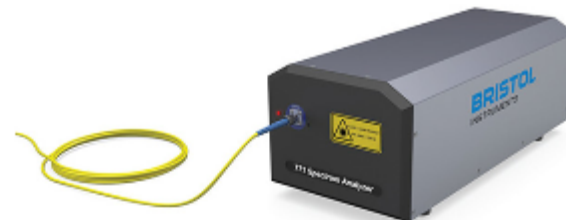


Photonics Showcase

[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 μ m.



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[Easily Automate Benchtop Processes](#)

From: Zaber Technologies Inc.

Build your XY, XYZ system online for pick-and-place, sample handling, precision measurement and more. Zaber provides a complete hardware solution so you can start moving quickly. Instantly control your system with code-free apps or accelerate programming with our API, which includes sample code for every feature in Python and 7 other languages. Configure your system online now for instant, real-time pricing and enjoy 1-14 days lead times.



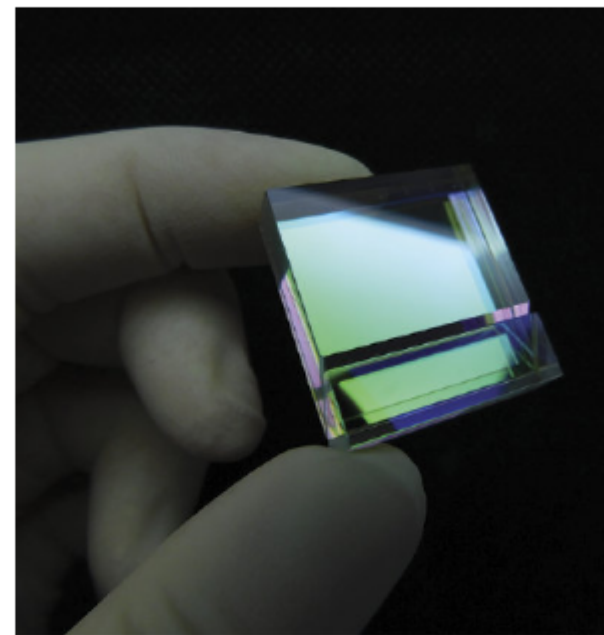
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[The VIPA: A Resolution Revolution](#)

From: LightMachinery Inc.

To resolve spectral features at 0.5 picometers, traditional echelle spectrometers need to be massive — four to five times larger than the HyperFine Spectrometer from LightMachinery. VIPAs pack high angular dispersion into an ultra-compact form, enabling LightMachinery's HyperFine Spectrometers to deliver echelle-level resolution in a fraction of the footprint (and cost) — with higher throughput and faster acquisition.



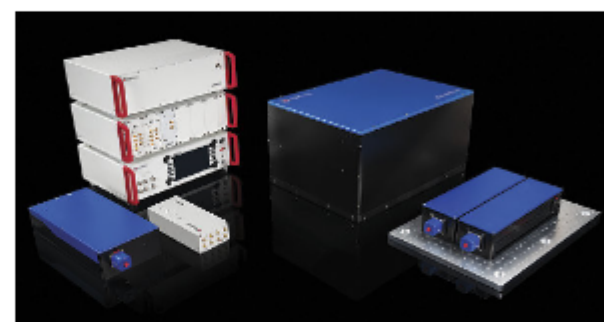
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[CLS Ultra-Stable Clock Laser System](#)

From: TOPTICA Photonics SE

CLS — ultra-stable clock laser systems for quantum computing and optical clocks. Long coherence time for high qubit fidelity. Exceptional frequency stability for elevated optical clock performance. With industrial-grade quality and 19" Rack integration option. TOPTICA's clock laser systems are diode lasers whose linewidth is reduced to less than 1 Hz via frequency stabilization to high-finesse optical ULE cavities.



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[New Compact NIR Image Sensor](#)

From: Hamamatsu Corporation

Hamamatsu's new G16823-128DB is a compact, non-cooled type near infrared InGaAs linear image sensor that delivers high sensitivity and low dark current — without TE cooling. Ideal for multichannel spectrophotometry, process analysis, or portable analytical instruments. It features selectable conversion efficiency, low power consumption, and a single video line. Designed for performance, built for integration.



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[Dual-Band Infrared AR Coatings](#)

From: Reynard Corporation

Infrared imaging systems require simultaneous performance MWIR (midwave, typically 3 to 5 μ m) and LWIR (longwave, typically 8 to 12 or 7.5 to 13.5 μ m) spectral bands. Our dual-band IR AR coatings achieve measured peak transmission values over 99.5% in both bands. High-performance dual-band AR coatings are applied to a variety of IR materials, large to small, on plano or curved surfaces, with excellent environmental durability and spectral performance. ISO9001:2015.



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[scia Cluster 200 Thinfilmm Processing](#)

From: scia Systems GmbH

The scia Cluster 200 is a modular platform for coating, etching, and cleaning using advanced ion beam and plasma technologies. It supports multiple identical chambers for up to 5x higher throughput or integrates different process technologies for sequential wafer steps without vacuum breaks. With the industry's most comprehensive technology portfolio in etching and coating processes, scia Systems enables highly customized cluster configurations.



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[Ultra-Low Noise Fiber Laser System](#)

From: HUBNER Photonics GmbH

HÜBNER Photonics introduces a new series of CW ultra-low noise, single-frequency fiber laser systems. The Ampheia™ Series lasers offer output powers of up to 50 W at 1064 nm and 5 W at 532 nm. With low relative intensity noise (RIN) and <100 kHz linewidth, the lasers are specifically suited for quantum research as well as semiconductor inspection and laser pumping.



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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 and 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 and radiation testing done.



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