



## 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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### [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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### [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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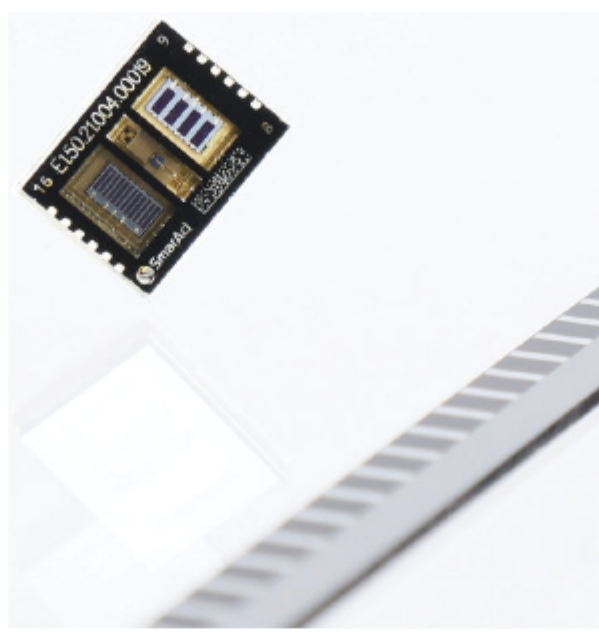
### [METIRIO® Optical Encoder](#)

**From: SmarAct GmbH**

Meet METIRIO®, the world's tiniest optical encoder delivering 0.4 nm resolution at 20 mm/s in a  $6.6 \times 5.1 \times 1.7$  mm package — optics-free. Its vacuum- and high-T-rated design slashes elusive defects in high-volume photonics fabrication. Complement your high-precision measurements toolkit with PICOSCALE® interferometers & vibrometers and SMARPROBE® nanoprobe for telecom, LiDAR, quantum, and integrated photonics metrology.

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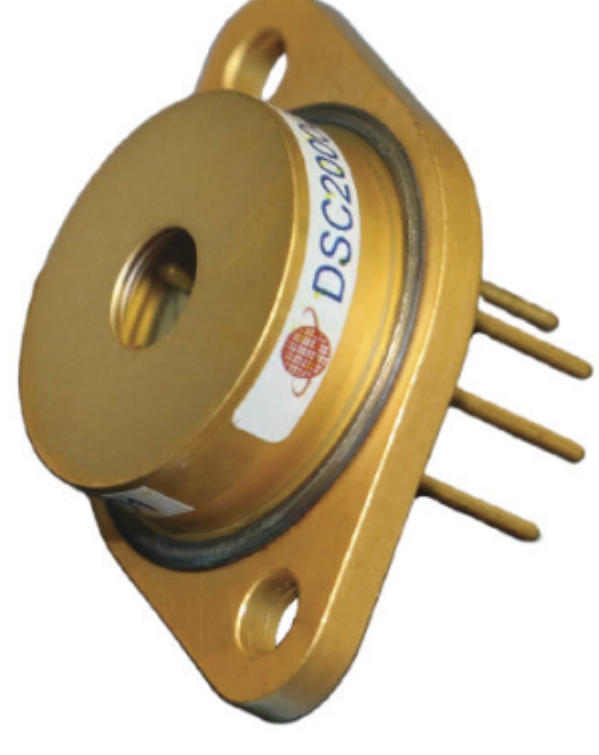
### [Quad Photodiodes and Photoreceivers](#)

**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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### [Introducing the New ProMetric® I151](#)

**From: Radiant Vision Systems, Test & Measurement**

The ProMetric® I151 delivers Radiant's highest resolution and measurement precision to support the performance and throughput requirements of high-volume manufacturing lines for augmented and virtual reality displays and components. Offering a 151-megapixel image sensor, the resolution of the system enables pixel-level measurement of displays used in AR and VR devices (LCD, OLED, microLED, and others).

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### [Optimize Your Optical System](#)

**From: Fresnel Technologies Inc.**

For optical systems success in medical devices, motion detection, AR/VR, and more, Fresnel Technologies (FTI) has the expert guidance in optical design, polymer and silicone materials, and testing processes to fit your program. From freeforms and aspheres to micro-optics, our capabilities include catalog and custom polymer optics. Talk through your optical approach with our experts.

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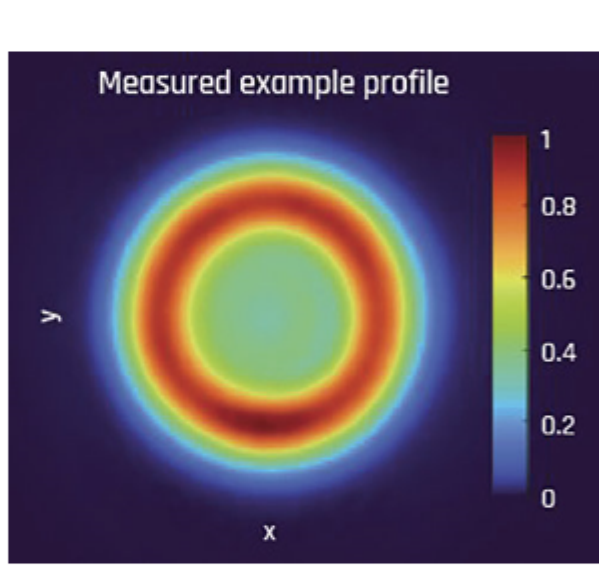
### [Deposited Energy Flat Top \(DEFT\)](#)

**From: PowerPhotonic Ltd.**

The Deposited Energy Flat Top (DEFT) beam shaper has the potential to increase throughput in laser additive manufacturing (LAM) power-bed systems. The optimum LAM process is likely to require a near uniform heat input to the powder-bed as the laser spot is translated in any direction. This requires a rotationally symmetric intensity profile, which is what the DEFT beam shaper produces. The output size is customizable during the design process.

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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 dependence. This spectrometer provides maximum sensitivity and high resolution in a robust, compact form factor designed for volume manufacture.

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### [High-Resolution Spectrometers](#)

**From: Ocean Optics**

Ocean HR spectrometers deliver fast, stable, high-resolution performance in a compact design. Interchangeable slits balance throughput and resolution, solving precision challenges across 190–1100 nm. Ideal for life sciences, semiconductors, and environmental sensing. We help you measure what matters.

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### [Intlvac Nanochrome™ IV PARMS](#)

**From: Intlvac Thin Film Corp.**

Our Plasma Assisted Reactive Magnetron Sputtering (PARMS) platform enables ultra-pure, low-loss coatings from UV to mid-IR with exceptional uniformity and virtually zero downtime. More scalable and cost effective than IBSD or e-beam, PARMS supports high layer counts, long runtimes, and complex designs. Ideal for defense, telecom, waveguides, laser optics, X-ray mirrors and more.

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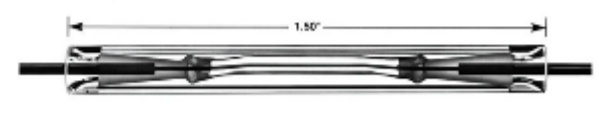
### [Norland Optical Splice](#)

**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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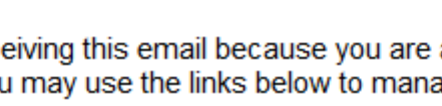
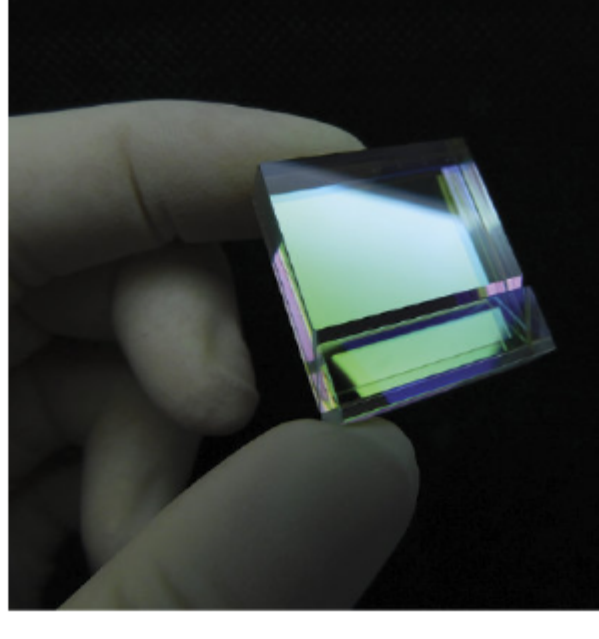
### [The VIPA: A Resolution Revolution](#)

**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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