



## Photonics West 2019 – San Francisco, CA

February 2-7, 2019

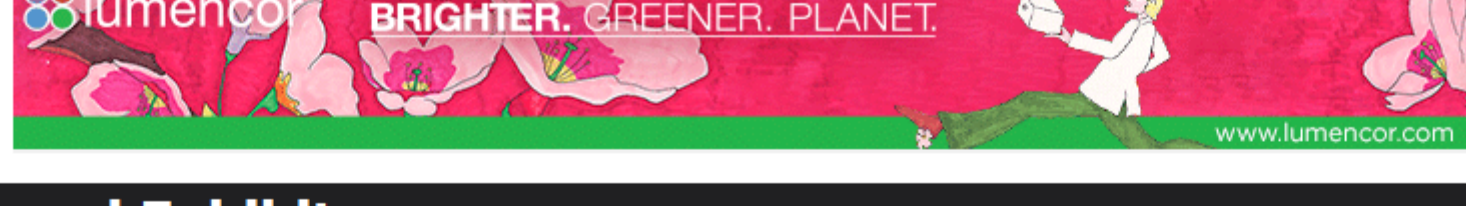
An advanced look at the products, trends and technologies being presented.



### 2019 Prism Awards Recognize Finalists

Retinal projection laser eyewear, the world's first cloud-based AI hand-held Raman spectrometer, and the first accurate stereo photogrammetry device that fits in the palm of a hand will all converge at the 2019 Prism Awards for Photonics Innovation. These innovative products are just three of the 30 finalists for the awards, which recognize groundbreaking technology in the industry. On Wednesday, Feb. 6, co-sponsors SPIE and Photonics Media will hold the 11th annual awards gala in San Francisco, where the winners will be announced.

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## Featured Exhibitors

### 48MP Embedded Vision Platform

**From: Critical Link LLC**

Critical Link's MityCAM-C50000 streamlines development around the CMV50000 image sensor from ams/CMOSIS. The system is an open architecture design with dual core ARM and user-programmable FPGA fabric and an array of interface options for industrial embedded vision applications. Visit Photonics West booth #240 to demo the MityCAM-C50000 and other industrial-quality embedded imaging platforms ranging from <1MP up to 50MP.



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### Glass Processing & Automation

**From: NYFORS Teknolog AB**

The NYFORS SMARTSPLICER is a CO2 laser glass processing system designed for the production of high power and sensitive photonics components. It offers contamination free splicing and tapering, bundling and many other glass shaping processes. NYFORS provides automated high precision solutions for fibre preparation such as stripping, cleaving, recoating, cleave quality inspection, proof testing and analyzing. We also offer custom sub-micron machine vision alignment systems, for optical component manufacturing.



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### It Just Keeps Getting Brighter...

**From: Lumencor Inc.**

CELESTA 7-line laser LIGHT ENGINE

- Spectral Breadth: 408, 445, 473, 518, 545, 635, 750nm
- Brightness: ~1000mW/color band providing ~7W optical power
- Control: Microprocessor for power stabilization
- Stability: Exceptional reproducibility and quantitation
- Ease of use: Seven pre-aligned, independent lasers
- Applications: Confocal and super resolution microscopy, photoactivation, optogenetics, and more.



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### New Large Area TaperCamD-LCM

**From: DataRay Inc.**

DataRay's new large area TaperCamD-LCM CMOS beam profiler includes many industry-leading features, such as: large 25 x 25 mm active area; 12.5 μm (effective) pixels; port-powered USB 3.0 with screw locking cable; 2500:1 SNR; and M<sup>2</sup> measurements.



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### Improved PEM Performance & Design

**From: Hinds Instruments Inc.**

The new PEM200 offers improved signal-to-noise and increased stability at low modulation with the same modulation purity and high sensitivity you've come to expect from Hinds' PEMs. Optional on-board Synchronous Detection is available for signal analysis.



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### Integrating Sphere Detectors

**From: Newport/MKS Instruments**

Integrating sphere detectors have a photodiode detector mounted on integrating spheres with various sizes and is calibrated as a system, compensating for the attenuation caused by the sphere. The input beam is diffused inside the sphere so that the measurements are less sensitive to errors caused by detector position and angle sensitivity, overfilling, and saturation, or the divergence angle and polarization of the input beam.



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### New FemtoFiber ultra 920

**From: TOPTICA Photonics Inc.**

The FemtoFiber ultra 920 is the new member of TOPTICA's third generation ultrafast fiber lasers. The system delivers laser pulses with a pulse duration of less than 100 fs at a central wavelength of 920 nm with more than 1 W of average output power. The cost-effective and maintenance-free design of the laser is optimized for OEM integration featuring a compact and cold laser head that is connected to a 19" rackmount control and supply unit.



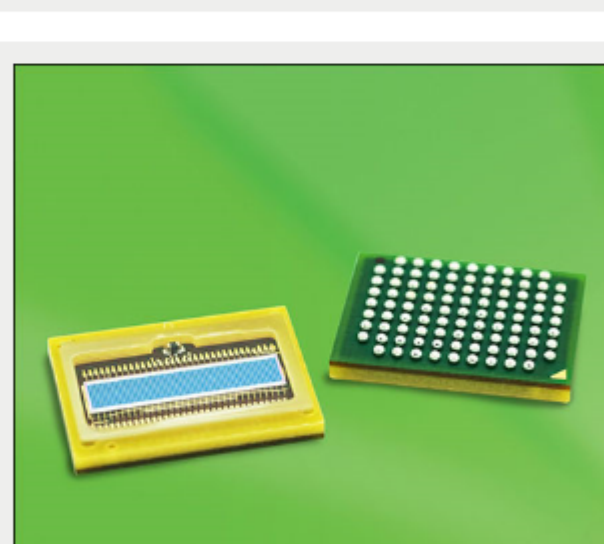
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### Excelitas 1 x 64 Silicon APD Array

**From: Excelitas Technologies Corp.**

Excelitas' new 1 x 64 Silicon APD array, developed using our C30737 APD series technology, offers high pixel count in a compact SMT package, making it suitable for high performance LiDAR systems. The 1 x 64 APD array allows for higher resolution systems, enabling the use of smaller optics and providing better signal-to-noise ratio.



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### Precise Metrology for Thin Optics

**From: Zygo Corporation**

Qualify critical thin glass components with ZYGO laser interferometers. Measure thin, plane-parallel optics less than 1 mm thick - with unmatched precision, speed and simplicity. Industry-leading capabilities includes form error characterization of multiple surfaces and thickness variation - simultaneously - with a single measurement! Improve quality and process control for advanced applications, including mobile device display flatness, AR/VR optics, and semiconductor wafer thickness. Proven solutions from the most trusted name in optical metrology.



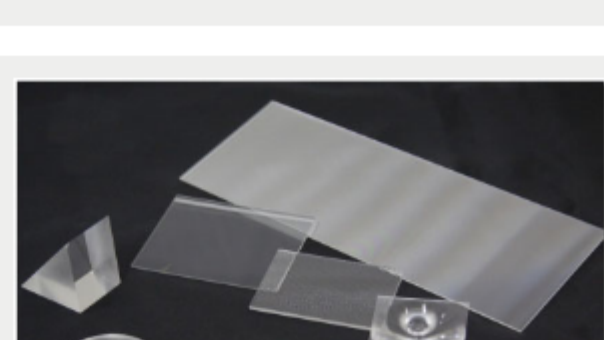
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### High-precision Plastic Lenses

**From: NTKJ Co. Ltd. (Nihon Tokushu Kogaku Jushi)**

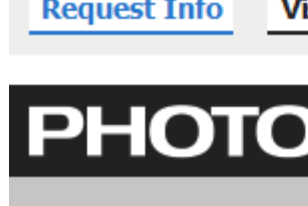
NTKJ, the Japan-based sheet lens manufacturer, specializes in ultra-precision machining, ultra-precision heat compression molding, and large sized lens manufacturing. NTKJ provides made-to-order plastic lens manufacturing, as well as off-the-shelf Fresnel, lenticular lenses and micro lens arrays for LED illumination, analytical instrument and imaging applications, and more. NTKJ's recently developed elliptical Fresnel lens can be used to make freeform lenses thinner and lighter. Recently, diffractive optics have joined NTKJ's product line-up.



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## PHOTONICS MEDIA



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