



SPIE Photonics West 2020 – The Moscone Center - San Francisco

February 4-6, 2020
An advance look at the products, trends, and technologies being presented.

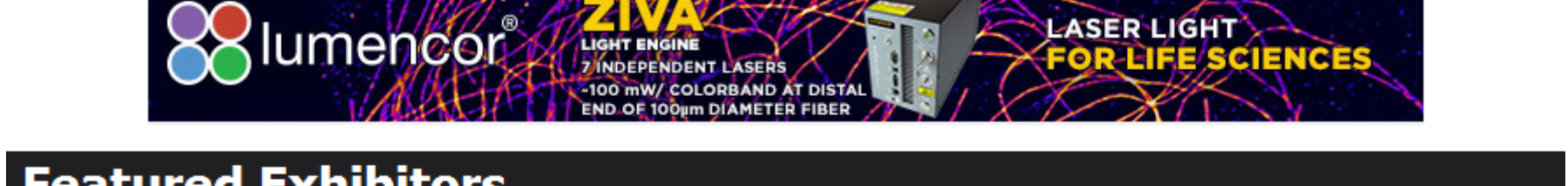


2020 Prism Award Finalists Showcase Industry Innovations

A light that generates 10x the number of entangled photon pairs than any known photon source. A handheld Raman spectrometer with MEMS scanning mirrors. A semiconductor laser for treating glaucoma — smaller and less expensive than others on the market. These technologies are among the 27 finalists for the 2020 Prism Awards which recognize groundbreaking technology in the industry. The Prism Awards ceremony and banquet, co-sponsored by SPIE and Photonics Media, will be held during SPIE Photonics West on Feb. 5.

The 2019 Prism Award winners pose for a group photo. Courtesy of SPIE/Joey Cobbs Photography.

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Featured Exhibitors

Glass Processing and 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 fiber preparation such as stripping, cleaving, recoating, cleave quality inspection, proof testing, and analyzing. We also offer custom work cell automation solutions for quality splicing and preparation tasks.



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New LensCheck™ Thermal Module

From: Optikos Corporation
Lenses that are subject to extreme temperatures, such as those in automotive cameras, need to meet stringent performance and athermalization requirements for vehicle safety. Now you can ensure top performance by testing in those extreme conditions using the LensCheck with new Thermal Module. The TM-1050 provides a flexible and powerful tool to characterize the performance of smaller lenses up to 50 mm including image quality and flange focal length, over temperatures of -25 °C to 105 °C.



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New ZIVA 7-line Laser Light Engine

From: Lumencor Inc.
It Just Keeps Getting Brighter.....



- Spectral breadth: 405, 446, 477, 520, 546, 638, 749 nm
 - Power: ~100 mW/colorband at distal end of 100 µm diameter fiber
 - Control: Active power stabilization
 - Stability: Exceptional reproducibility, ideal for quantitation
 - Ease of use: Pre-aligned, independent lasers
 - Applications: Confocal, SIM, super-resolution microscopy, optogenetics and more
 - Off-the-shelf and custom configuration upon request
- Visit us: Booth # 131**
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TCube Mini Thermoelectric Chiller

From: Solid State Cooling Systems

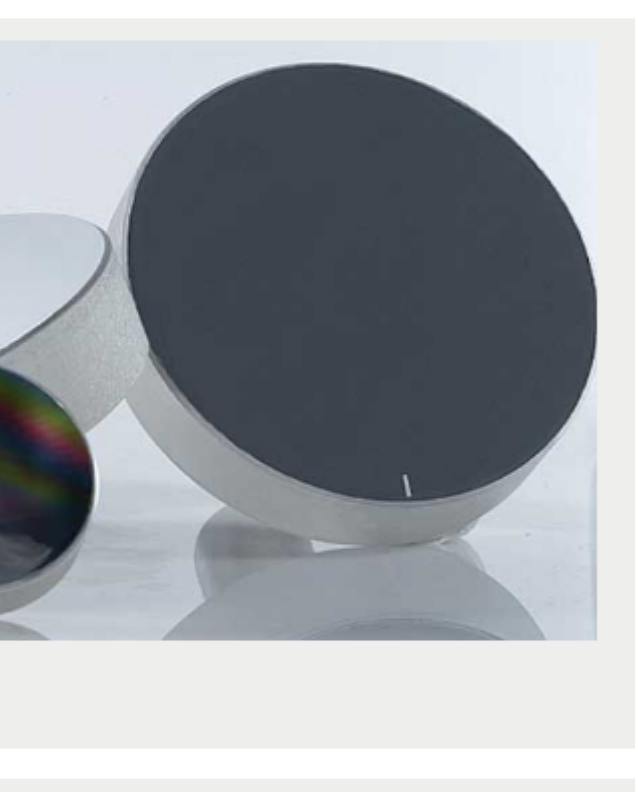


Our new TCube mini 270 ultra compact thermoelectric recirculating chiller is built upon the foundation of our UC160-190 family, offering 270 Watts of cooling capacity in the same 5" x 7.5" footprint. The new system uses the same highly reliable, energy efficient thermoelectric technology and precise control algorithms as the UC160-190 family, with a larger fluid reservoir (>210 ml) and adjustable long-life gear pump.

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Aspherics Mirrors & Gratings

From: Spectrum Scientific Inc., SSI Optics

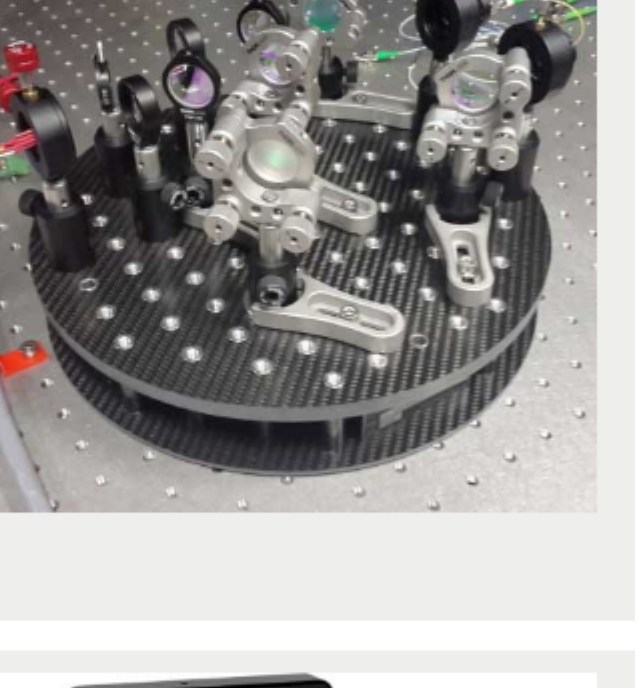


Spectrum Scientific Inc. (SSI) manufactures high-volume hollow retroreflectors, aspheric and freeform mirrors, and plane and concave blazed holographic gratings using optical replication allowing us to supply high fidelity, high specification precision optics at a lower cost compared to traditional manufacturing. Our freeform, OAP, and ellipsoid mirrors can be supplied with surface figures down to λ/10 or better and our blazed gratings offer high UV efficiency with ultralow stray light.

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Superlight Optical Breadboards

From: Advanced Photonic Sciences LLC



Carbon-fiber reinforced-polymer (CFRP) optical breadboards provide a similar thermal stability to Super Invar but at a lower cost, and are inherently nonmagnetic. APS now brings this advanced and vacuum-compatible technology to the world of photonics in the United States and Canada from CarbonVision GmbH. Four grades are offered: the economic EC-Series, the advanced AD-Series, the all-carbon AC-Series, and the slim SL-Series.

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Improved PEM Performance & Design

From: Hinds Instruments Inc.

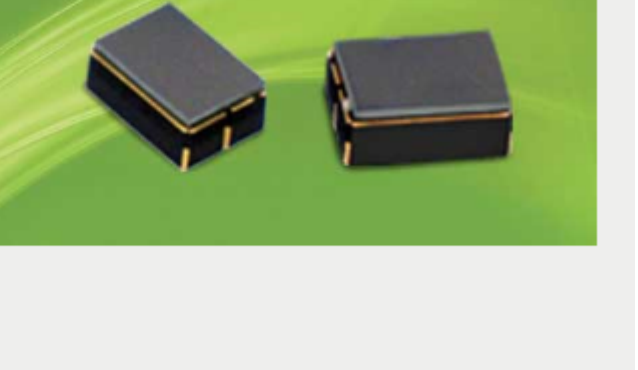


The new PEM200 offers improved signal-to-noise and increased stability at low modulation with the same modulation purity and high sensitivity you have come to expect from Hinds' PEMs. The updated controller design has been fully digitized — including USB 2.0 and Ethernet communication. The redesigned optical enclosures feature sleek, compact designs with ergonomic mounting mechanics — resulting in more efficient modulation and seamless integration into your optical setup.

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Excelitas Dual-Element DigiPyro

From: Excelitas Technologies Corp.



Excelitas PYD 2792 and PYD 2592 Dual-Element SMD DigiPyro Detectors offer streamlined SMD integration, compact form factor, and the lowest power requirements. The wide field-of-view design streamlines integration and offers an extremely wide field-of-view to provide OEMs with increased flexibility when designing complex short-range motion and occupancy detection applications, including smart home, IoT, auto lighting, and security.

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C-RED 3

From: First Light Imaging SAS



Especially designed for FSO and industry, C-RED 3 is an uncooled SWIR InGaAs camera offering 600 FPS full frame, 50 electrons RON, and a unique high-dynamic-range mode (HDR) providing 93 dB dynamic range and true 16 bits linear response. Available in USB3 and Camera Link Full, C-RED 3 also offers OEM and custom features for easy integration in larger systems. Don't miss our talk 11272-14 at Photonics West 2020 on Feb. 3

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Blue Photon Grip Technology

From: Blue Photon Technology & Workholding Systems LLC



Unique workholding grippers that allow for complete photo-activated adhesive curing on all glass and ceramic surfaces without the use of mechanical clamps, resins, and wax. Blue Photon's workholding grippers are a patented, load bearing, and light transmitting fixture component. The grippers are inserted into a fixture. The workpiece is secured to the grippers with BlueGrip™ workholding adhesive, which is cured with UV light transmitted through the core of the gripper.

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