



# sneak PREVIEW



## SPIE Photonics West 2020 – The Moscone Center - San Francisco

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



**Photonics West 2020**  
Photonics West is set to take place Feb. 1-6 and boasts at least one Nobel laureate, more than 5000 presentations, 1350 companies, 10 new courses, and plenty of special events. The exhibition, according to SPIE public relations manager Daneet Steffens, is on track to be even larger than last year's, which had more than 1300 companies from around the world.

*A large crowd gathers as the 2019 exhibition prepares to open. Courtesy of SPIE.*

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## Featured Exhibitors

**ESP 785 nm for Raman by Cobolt**  
**From: HUBNER Photonics**  
 HÜBNER Photonics proudly introduces the 08-NLDM 785 nm ESP (enhanced spectral purity) as part of the Cobolt 08-01 Series. The 08-NLDM 785 nm ESP complements the Cobolt 08-01 Series of compact high-performance single frequency and narrow linewidth lasers for the high-resolution Raman market. The spectral purity of the 08-NLDM 785 nm ESP is >60 dB as close as 0.3 nm away from the main peak.

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**High Power, Low Smile Diode Lasers**  
**From: Focuslight Technologies**  
 Ideal for demanding applications, the Focuslight FL-VS300 series are high power, high reliability, low SMILE laser bars based on Micro Channel Cooling. Designed for volume production, they feature a bar bonded on MCC with AuSn solder, which results in low smile. A 1 cm bar with <1 µm smile delivers more than 200 W CW output with efficiency of 65% and lifetime of 20,000+ hours. Scalable using vertical stacks. 808 nm, 940 nm, 980 nm.

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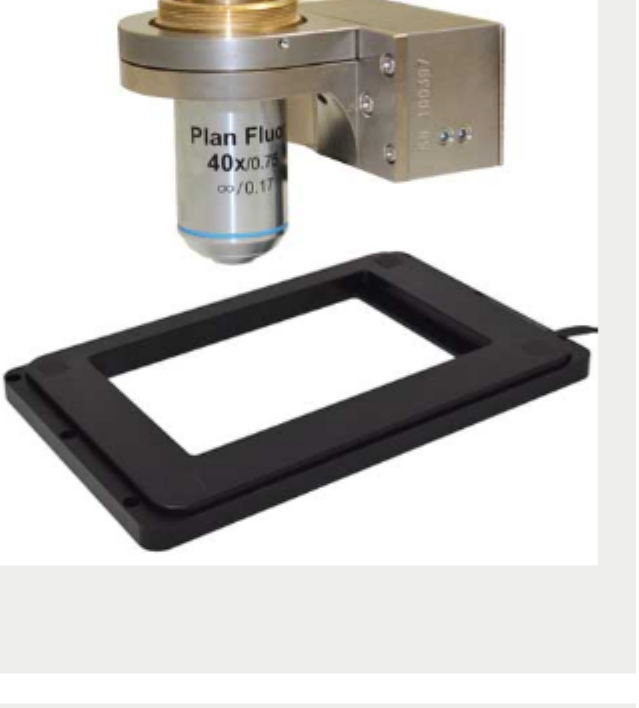
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**Piezo Nanopositioning Devices**  
**From: Prior Scientific Inc.**  
 Prior's Queensgate piezo nanopositioning devices and capacitive sensors deliver the highest performance in the market. Subnanometer resolution combined with extreme high speeds make them the positioners of choice for the most demanding applications. NanoScan OP400 Nanopositioning Piezo objective scanners provide the fastest step and settle time of any objective positioner available while the NanoScan-SP range of Piezo driven stages feature 400 µm and 600 µm closed loop Z travel versions.

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**Norland Water Resistant Adhesives**  
**From: Norland Products Inc.**  
 Norland Products now offers NOA 51, NOA 52, and NOA 53 UV and/or visible light curing optical adhesives that survive long-term exposure to 85C/85% relative humidity both in between substrates and on their surface when used as a coating. These one component, solventless adhesives come in different viscosities and have excellent adhesion to glass, plastics, and metal.

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**LZM-120A+ Laser Splicing System**  
**From: AFL**  
 The LZM-120A+ is an optical fiber processor/splicer using a CO2 laser as its heating source. This machine performs laser-based fiber shaping functions such as, homogenous fiber splicing, dissimilar fiber splicing, tapering, end-capping, ball lensing, and component fabrication. This new addition to the LZM-120 family now offers fiber ablation.

- Create clad mode strippers
- Cleave large-diameter fibers
- Produce sensor arrays
- Punch holes with desired shapes on glass capillaries

**Visit us: Booth # 3019**

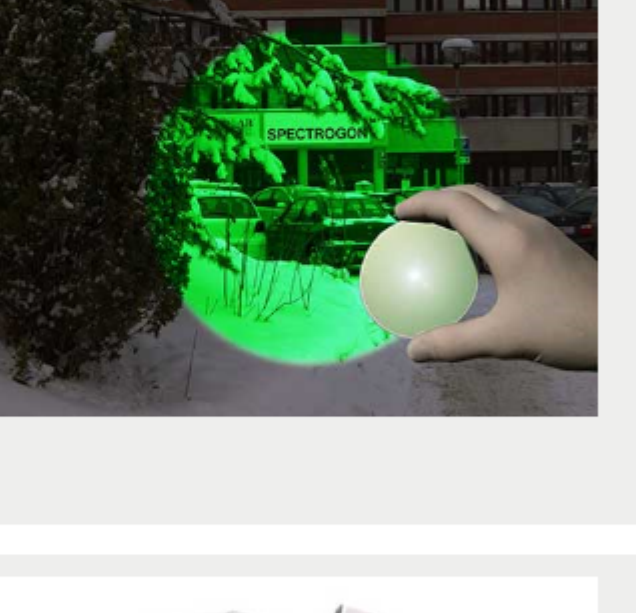
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**IR Filters for Thermal Imaging and Gas Detection**  
**From: Spectrogon US Inc.**  
 Spectrogon manufactures infrared filters and windows with high transmission, high rejection outside the passband, while maintaining excellent coating uniformity — for thermal imaging and gas detection applications such as cryogenically cooled IR detectors and for uncooled microbolometers. Our filters and windows range in dimension from Ø6.0 to Ø200.0 mm with state-of-the-art dicing capabilities. Custom designs are always welcome.

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**The Machine You Need | IG280SD**  
**From: DCM Tech Inc.**  
 The IG280SD rotary surface grinder is the machine you need to reduce bottlenecks and increase efficiency in your production process. While it is powerful enough to remove large amounts of material quickly, this grinder features a servo-driven Z-axis for precision and finishing. This has allowed many DCM customers to reduce the number of lapping and polishing processes needed for a finished product. Stop by booth #2138 to learn more.

**Visit us: Booth # 2138**

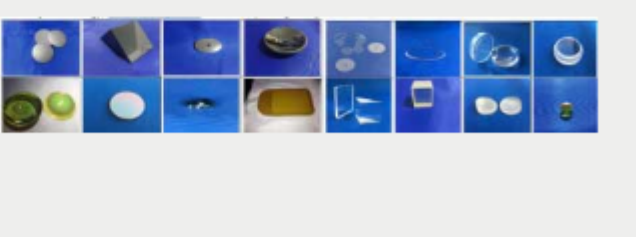
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**Fluoride, Si, Ge Material & Optics**  
**From: Qinhuangdao Intrinsic Crystal Technology Co. Ltd.**  
 ICC is China's top 1 raw material supplier for CaF2, BaF2, MgF2, and LiF crystal. ICC is the main supplier for silicon and germanium in optical glass. ICC also supplies customized precision optics made in optical glass.

**Visit us: Booth # 4081**

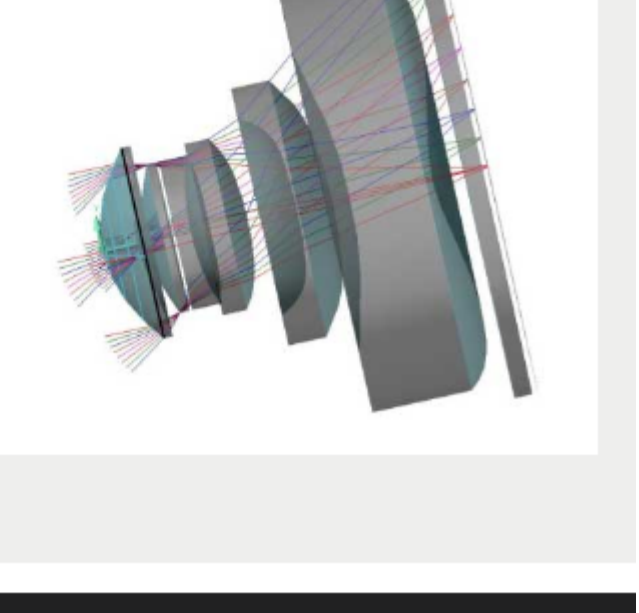
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**CODE V Optical Design Software**  
**From: Synopsys Inc., Optical Solutions Group**  
 Enhanced capabilities for visualizing and interfacing with the optomechanical model are now available in Synopsys' CODE V version 11.3. The ability to import CAD objects provides design flexibility and fast simulations for both sequential and non-sequential optical design work. CODE V 11.3 also offers new freeform surfaces with unique additional variables for superior correction of systems with significant tilts and decenters.

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