



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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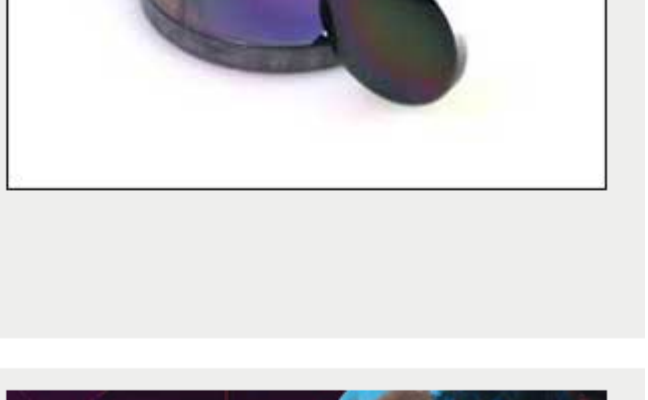
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Featured Exhibitors

HEAR - DLC Coatings On IR Materials

From: Applied Optics Center (AOC)

The Applied Optics Center is pleased to announce that we are adding capabilities which will allow us to supply HEAR (High Efficiency Anti-Reflection) and DLC (Diamond-Like Carbon) thin-film coatings on IR materials. A full array of testing has been performed on sample lenses and test results can be provided upon request. These coatings will support both the 3-5 μm and 8-12 μm regions.



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All-In-One AR/VR Display Testing

From: Radiant Vision Systems, Test & Measurement

No costly equipment or complex setup — the Radiant AR/VR Lens solution is designed to simplify display testing within augmented & virtual reality headsets, capturing up to 120° horizontal field of view from the eye position in a single measurement for quick and comprehensive analysis. The compact photometric lens system pairs with AR/VR measurement software to evaluate virtual projections for accurate brightness, color, contrast, distortion, MTF, uniformity, and more.



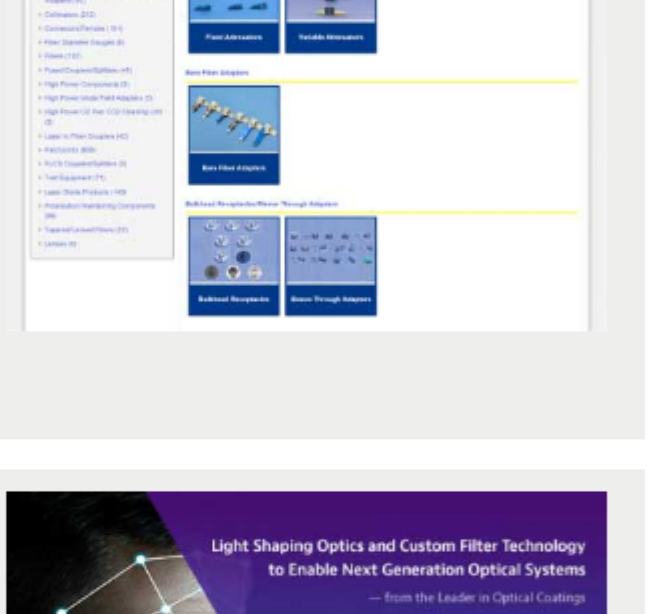
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Online Catalog

From: OZ Optics Limited

OZ Optics Limited offers an online catalog with thousands of fiber optic products available from stock, ready to ship within one or two business days. In addition, we have some real bargains available, at up to 75% off the original price.



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Custom Optics from VIAVI Solutions

From: VIAVI Solutions Inc.

VIAVI Solutions leverages its core technology strengths in optical coatings and materials science to manage light and color effects to serve customers in consumer electronics, government, automotive, and industrial markets. With expertise in spectral management and high-precision thin-film coatings, VIAVI is a leading provider of optical filters and Engineered Diffusers® for 3D Depth Sensing, LiDAR, and Automotive Sensing systems.



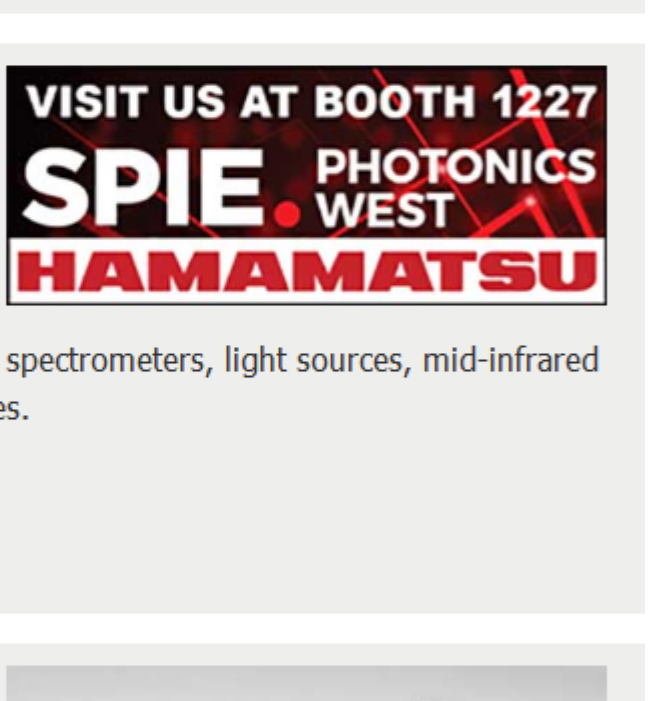
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NEW Pulsed MIR Spectrum Analyzer

From: Bristol Instruments Inc.

Bristol Instruments now offers a spectrum analyzer for pulsed lasers that operate from 1 to 12 μm. The model 772B-MIR measures wavelength to an accuracy of ±1 part per million, and bandwidth and longitudinal mode structure to a resolution of 4 GHz. It is the ideal solution for scientists and engineers who need to know the spectral properties of their pulsed mid-IR lasers.



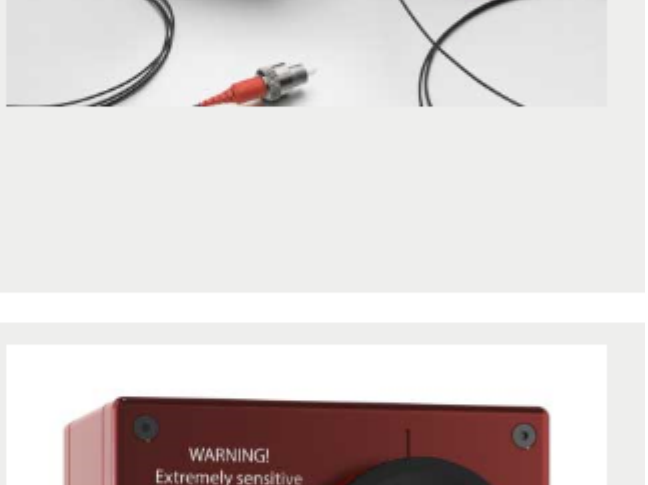
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Preview of New Products & Workshop

From: Hamamatsu Corporation

Visit our Photonics West website to get a sneak peek at the new products, free educational workshops, and product giveaway we're planning for 2020. On this site, preview our latest products for LiDAR, spectroscopy, industrial measurement, microscopy, and other applications. You can also learn about our free workshops on various topics including photodetectors, image sensors, spectrometers, light sources, mid-infrared technologies, automotive LiDAR, and the future of photon counting technologies.



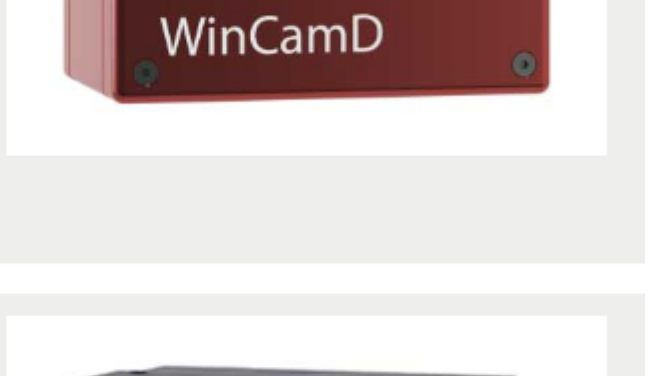
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FISBA READYBeam™

From: FISBA AG

At Photonics West 2020 FISBA will be presenting their latest development: the FISBA READYBeam™, a «ready to go» compact, powerful, and reliable multi-wavelength laser source. This laser module will expand the features and functions of business and research significantly. It is the instrument designers' first choice to dramatically reduce the footprint, development time, and integration risk. The unit will be available in two primary configurations: the READYBeam™bio and READYBeam™ind.



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WinCamD-IR-BB

From: DataRay Inc.

DataRay's WinCamD-IR-BB offers the following features: - 2 to 16 μm VOX microbolometer - 640 x 480, 10.88 x 8.16 mm active area - 17 μm pixels - Portable USB 3.0, 3 m locking cable - Infrared illumination for automated NUC - 14-bit ADC - 14 ms time constant - Pulsed lasers with PRR = 1 kHz appear as CW - No chopper/TEC - Parallel capture on multiple cameras.



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Blaze 3D Camera

From: Basler AG

The Basler blaze camera is an industrial 3D camera that makes use of the pulsed Time-of-Flight principle. The Basler blaze camera with the new Sony DepthSense™ sensor and laser illumination makes 3D form and volume measurement applications precise, easy, and fast. It is suited for various applications such as robotics, logistics, and 3D inspection. For a demonstration at Photonics West visit booth #152.



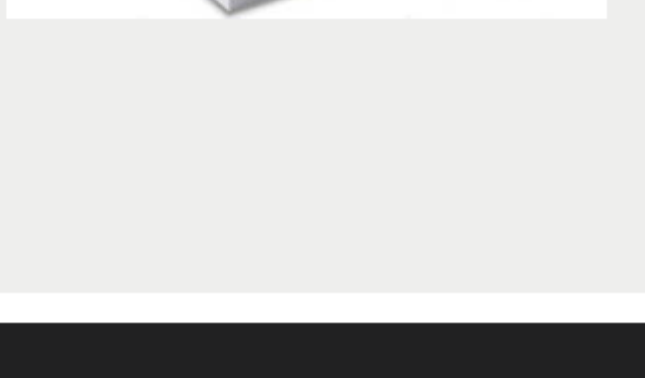
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Custom Spectrometer Modules

From: B&W Tek LLC

B&W Tek is an industry-leading, total solutions provider in photonics coupling. Our core laser, spectrometer, and chemometric technologies, with custom design and manufacturing capabilities, help our customers achieve their business goals. Working with our customers from concept to completion, we are able to design, engineer, prototype, and manufacture an extensive range of spectrometer modules to create technologies that best suit their needs.



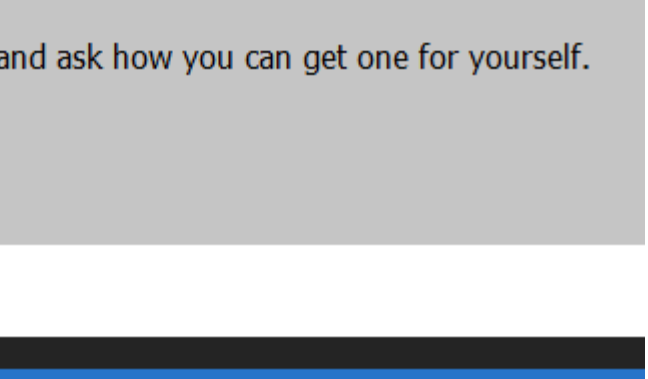
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Q-Switched Solid-State Lasers

From: Akela Laser Corp.

AKELA Laser Corporation (USA) and QS Lasers (Lithuania) joined forces to promote advanced Q-switched solid-state lasers in the American market. Various models with wavelengths of 133x, 1064, 66x, 532, 355, 266 nm. Repetition rate ranging from several Hz to 1 kHz; pulse widths from nanoseconds down to 250 ps, pulse energy from tens of μJ to 1 mJ. Highly-customizable platform to meet customer's requirements in demanding applications. Designed in Lithuania. Made in the USA.



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