



Photonics West is the premier photonics and laser event. With more than 1,250 companies, this exhibition continues to be the flagship event to find the latest products, tools, and applications for your research or business needs.

SPIE. PHOTONICS WEST BIOS

The Moscone Center, Moscone North and South
San Francisco, California, United States

1st - 6th February 2020

product focus

Welcome to the **optics.org Product Focus** which we have published specifically for **Photonics West 2020 in partnership with SPIE and the Photonics West BiOS Show Daily.**

Here you will find an effective at-a-glance guide to some of the latest products available on the market with booth numbers if available making it easy for you to check out the products for yourself.

All this information and more can be found on the optics.org website. Simply go to **www.optics.org** for all the latest product and application news.

Alternatively, why not sign up to our **free weekly newsletter** (**www.optics.org/newsletter**) and get the information delivered direct.

iXblue Photonics

Visit us at Booth #5548

iXblue Fiber Bragg Grating Mirrors now available in UV region

iXblue, a leading supplier of customized Fiber Bragg Grating (FBG) for 1, 1.5 and 2 μm applications, is now able to offer FBG in the short wavelength side of the visible spectrum.

Peak reflectivity from 4 to 90% as well as reflections bandwidth down to 30 μm open a wide range of application as laser diode stabilization, single longitudinal mode selection or spectral narrowing of a broader source.

Visit us at our booth #5548 during Photonic West.



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Opto Engineering

Visit us at Booth #3476 Hall E

TCZRS series Bi-telecentric zoom lenses with motorized control

TCZR series is a leading-edge optical solution for imaging applications requiring both the flexibility of zoom lenses and the accuracy of fixed optics.

The newly designed TCZRS lenses feature an extremely precise positioning system delivering exceptional magnification repeatability. Moreover, focusing and image centering stability are guaranteed at each of the four magnifications available.

Bi-telecentricity, high resolution and low distortion make these zoom lenses able to perform the same measurement tasks as classic telecentric lenses.



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GPD Optoelectronics Corp.

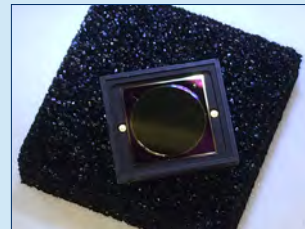
Visit us at Booth #8135

GPD Optoelectronics Corp. announces availability of 1 cm InGaAs pin Photodetector

We are pleased to announce the availability of 1 cm diameter InGaAs Photodetectors in die form, on ceramic submount or in TO-9 package.

Ge photodetectors are available in diameters up to 13 mm.

GPD Optoelectronics Corp. manufactures germanium PN, PIN, APD and InGaAs PIN high-speed, large-area and extended wavelength photodetectors and APDs for near-infrared applications (800-2600 nm.) Custom submounts and packages including fiber pigtailed and cooled applications are a GPD specialty.



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AFL

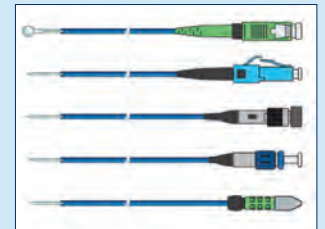
Visit us at Booth #3019

Fiber Optic Assemblies for Medical Sensing

From the optical waveguide, through the coatings, cabling, and assembly, medical designers can be confident in a repeatable product.

Standard and customer assembly testing is available to ensure optical and mechanical requirements are met.

Medical device suppliers into the FFR (fractional flow reserve), OCT (optical coherence tomography), or other tactile sensing applications can rely on quality, volume, and value from AFL.



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Oz Optics Ltd

Visit us at Booth #8477

OCT components

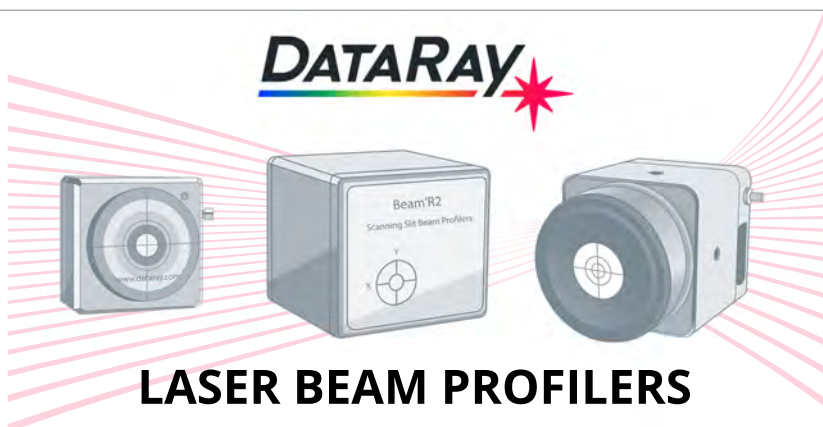
OZ Optics is introducing a new line of Fiber Optic Components for OCT Applications:

High Speed Polarization Controller/Scrambler, 330ps Electrically/Manual Controlled Optical Delay Line, Collimators/Focusers, Electrical Controlled Variable Attenuators, Faraday Rotators/Mirrors, Isolators, Fiber Pigtailed Ultra Stable Laser Module, Fused Coupler, Polarizers, Reflectors, Directional Fiber Optic Power Monitors (Taps/Photodiodes), Miniature Inline Polarization Maintaining Splitters/Taps/Combiners, Polarization Maintaining Fused Fiber Couplers/Splitters, Optical Circulator, Voltage Controlled Tunable Filter, Inline Fabry-Perot Tunable Filters.



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LASER BEAM PROFILERS

Booth 8161

www.dataray.com | +1 530-395-2500 | sales@dataray.com

Diverse Optics Inc.

Visit us at Booth #2262

Custom Polymer Optics

Diverse Optics specializes in precision injection molding and single-point diamond turning of custom polymer optics.

We do it all; prototyping to series production of free-forms, spheres, micro-optics, aspheres, domes, convex/concave, plano/convex, bi-convex, diffractives, Fresnels, prisms, light-pipes, lens arrays, collimators, combiners, toroids, CPC's, TIR's, parabolics, off-axis, ellipticals, and more.

Reduce cost, trim weight, improve performance, and simplify your product design by implementing precision polymer optics. Whether its thousands of molded optics or a few diamond turned prototypes, we'll show you how polymer optics are perfected!



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TOPTICA Photonics AG

Visit us at Booth #8209

Optical frequency measurement to the 21st significant digit

Researchers at the Physikalisch-Technische Bundesanstalt (PTB) and TOPTICA Photonics have now demonstrated a stability transfer at a record level of 10⁻²¹ at 105 s averaging time using a commercial frequency comb (DFC CORE+). This allows to combine the most stable lasers with the best atomic reference transitions.

This paves the way for a future improvement of some of the most sensitive instruments ever created: optical clocks and gravitational wave detectors. Both benefit from transferring the ultimate stability to a specific wavelength.



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Headwall Photonics Inc.

Visit us at Booth #5552

New Hyperspectral Camera with Onboard Processing & Industry-Leading OEM Holographic Gratings, Sensors

Headwall's new hyperspectral camera features on-board processing in an industry-first IP-67 enclosure.

Come to the leader with decades of experience creating high-performance, economical solutions, putting our customers ahead of the competition. Our award-winning products are used every day in the field, in the lab, under water, in the air, and in space.

Master-quality holographic gratings are made in house for your instrumentation, custom spectrographs, or as part of an integrated solution. We work with you to design the best solution for your application.



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Radiant Vision Systems, LLC

Visit us at Booth #4282

Evaluate Displays as Seen from the Headset: All-In-One AR/VR Display Test System

No costly equipment or advanced programming required – Radiant's compact AR/VR display test solution is designed to simplify visual performance evaluation within augmented & virtual reality headsets and glasses.

The system captures up to 120° horizontal field of view from the eye position in a single measurement for quick and comprehensive analysis.

Combining a high-resolution imaging photometer or colorimeter, specially engineered lens system, and AR/VR display measurement software, the solution evaluates virtual projections for accurate brightness, color, contrast, distortion, sharpness (MTF), uniformity, and more.



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Optikos

Visit us at Booth #1827

New TM-1050 Thermal Module for LensCheck™ Systems

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 50mm including image quality and flange focal length, over temperatures of -25°C to 105°C.

Learn more at Booth #1827.



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Duma Optronics Ltd.

Visit us at Booth #2621

BeamOn U3 – High Resolution Innovative beam profiler

Duma Optronics offers an innovative beam profiler system (1/1.2") with integrated filter wheel. The device is based on a high resolution 2.3 MegaPixel camera with 12 bit dynamic range.

Measurements include: Beam Profile, position and power. The spectral range covered is 190-1600nm. Sensor area 11.34x7.13mm, with USB3.0 interface. Optional accessory for high power attenuation up to a few KWatts.

New software module for testing multiple beams in parallel. The most cost effective solution for beam profiling tasks!



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SPIE. PHOTONICS WEST

2020 FEBRUARY 04-06

LASOS | BOOTH #1543 SOUTH HALL

Photon etc.

Booth #4455

Scientific Grade Infrared Cameras InGaAs / MCT Detectors

Featured in our IR Vivo preclinical imager, IMA hyperspectral microscope, S-EOS and Linescan hyperspectral imager, Photon etc ZEPHIR and Alizé cameras are your window into the vast world of infrared.



ZEPHIR
1.7 µm • 2.5 µm • 2.9 µm

Alizé NEW
1.7 µm • -20°C



- » TE4 air-cooled at -80°C
- » Exceptionally low noise
- » QE up to 85%