

PHOTONICS WEST SHOW DAILY

optics.org

PRODUCT FOCUS

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

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

30 January - 1 February 2024

Welcome to the optics.org Product Focus which we have published specifically for Photonics West 2024 in partnership with SPIE and the Photonics West 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.

Riverhawk Company

Visit us at Booth #358

Cantilevered (Single-Ended) Free-Flex® Pivot

The Ideal Flexure Bearing Solution When It Comes To: Optics, Photonics & Semiconductor Applications

- Lidar & Free-Space Optical Communications
- Interferometer Imaging Systems & Optomechanical Equipment
- Optical Imaging & Spectroscopy Microscopes
- Precision Optical Components for Commercial & Defense Applications
- Semiconductor Manufacturing



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215 Clinton Road
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Phone: +1 315.768.4855

Voltage Multipliers Inc.

Visit us at Booth #5119

Custom HV Optocouplers to meet your application

VMI designs and manufactures custom high voltage optocouplers to meet your project specs.

Coming soon is VMI's New 20kV Optocoupler, ideal for high voltage solid-state switching. VMI optocouplers are built for reliability, offering high voltage, high gain, and high isolation voltage.

Designed to be integrated into controlled feedback systems, VMI's optocouplers are used in applications ranging from noisy industrial environments to sensitive equipment such as mass spectrometers.



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EKSMA OPTICS

Visit us at Booth #1527

Design and Assembly of Custom Optical Systems

At EKSMA Optics, we have the expertise in designing, assembling, and testing optical systems, including:

- Laser beam expanders
- Laser focusing lenses
- Laser power attenuators

Our product development team, consisting of mechanical, optical, and coating engineers, can work with your drawings or design a completely new system according to your requirements. Starting from prototype and moving into production, we have the capacity to scale manufacturing processes and provide opto-mechanical assemblies in volume.

Contact us at EKSMA Optics to discuss your next optical system.



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Diamond USA, Inc.

Visit us at Booth #3272 in Hall E

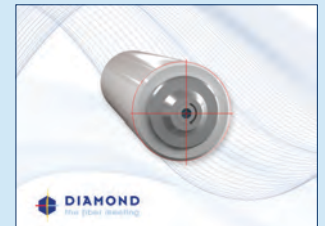
DIAMOND introduces Ultra-Low Loss (<0.05 dB) Fiber Optic Technology

Diamond introduces ultra-low loss (<0.05 dB) technology now available in our high-performance fiber optic interconnects.

Through the synergy of our patented two-component ferrule and proprietary Active Core Alignment process, we achieve insertion loss values that far exceed industry standards.

Diamond's commitment to constant innovation doesn't stop there.

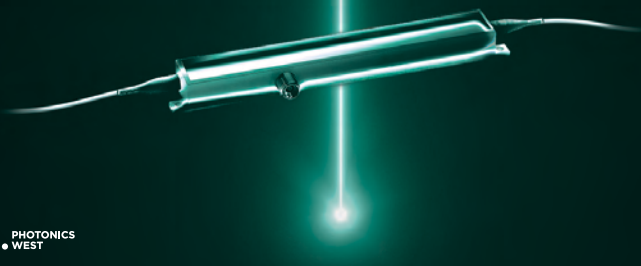
Our ultra-low loss technology also works with small core diameters, making it the first choice for applications requiring extremely high precision.



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BOOTH #5539
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Booth #2048



Coastal Connections

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PowerFiber Connector High Power Mating

ESCC 3420 Space Connector Lightweight Titanium

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Navitar

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The Navitar Zoom 7000

Navitar's ZOOM 7000-2 next generation macro imaging system has been redesigned, refined, and optimized for demanding applications in machine vision, industrial imaging, life science and research.

With exceptional optical performance, this versatile, close-focusing lens delivers excellent image quality across various magnification ranges. Its robust construction ensures reliability in challenging environments while delivering excellent value and flexibility.



Contact Details

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200 Commerce Drive
Rochester, New York 14623
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First Light Imaging

Visit us at Booth #5029E

C-RED New Space: Space-designed SWIR camera core

C-RED New Space is a SWIR camera core designed for optical ground stations and satellite optical payloads:

- Space-approved 640x512 InGaAs sensor
- Maintains optical performance
- Supports space operations conditions
- High-speed 600 FPS Full Frame
- Low noise under 30 electrons
- Off-the-shelf yet customizable product

Applications: Free Space Optical communications, astronomy, remote sensing, mineral exploration, earth observation, communications, debris tracking...

C-RED New Space is part of the C-RED range of SWIR cameras (0.8 to 2.5 μm) from First Light Imaging.

Discover C-RED New Space on booth 5029E.

More information: <https://www.first-light-imaging.com/cameras/c-red-new-space/>



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Gigahertz-Optik

Visit us at Booth #5404

Compact BiTec Spectroradiometer

The BTS256-LED Tester measures luminous flux, illuminance, color quantities and spectra of individual LEDs and traditional light sources. Larger size light sources can be measured by attaching the tester to an external integrating sphere or goniophotometer.

Key components include a built-in 50mm diameter integrating sphere, LED auxiliary lamp for self-absorption correction, electronic shutter for offset compensation and GO BiTec Sensor that houses both a photopic photodiode and a low stray light design spectrometer which work together for accurate flux detection over a wide dynamic range.



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Pixelink

Visit us at Booth #1048

Pixelink HDR Cameras

Pixelink HDR enabled cameras feature Sony Pregius sensors. These cameras feature High Dynamic Range imaging. HDR equipped sensors will capture multiple images at different gain settings, combine them to produce a balanced image. Unlike previous methods this is performed automatically as a function of the processor.

The improved detail and allow for better inspection and in a shorter period of time. Pixelink offers HDR models for machine vision and microscopy applications.



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PiBond Semiconductor Precision for Photonics



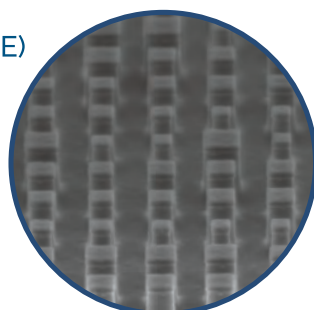
The most accurate real-time 3D sensor in the world powered by novel optical technologies



Meta optical elements (MOE)

- ✓ Imprint materials
- ✓ Etch hardmasks
- ✓ Optical coatings
- ✓ Optical adhesives

For Advanced Photonic Applications



200 nm



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OZ Optics Ltd

Visit us at Booth #4704

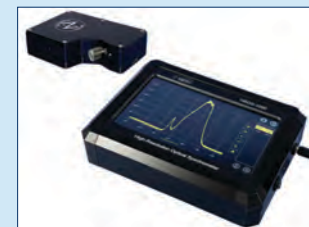
High-Resolution Optical Spectrometers

OZ Optics offers a handheld optical spectrometer featuring high optical resolution over a wide spectral range covering ultraviolet, visible, and near infrared measurements.

OZ Optics uniquely implements a transmission grating to reach the maximum possible optical sensitivity, while the optical noise is filtered out using customized coatings on the detection chip.

A touchscreen display, intuitive user interface, and access to optical spectroscopy libraries are granted for rapid analysis and generating informative reports.

An OEM version with a USB interface is also available for custom applications.



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Navitar

Visit us at Booth #1048

SingleShot® Micro Imaging System

Modular fixed imaging lens system with exceptional performance over a larger field of view.

Achieve a wider field of view to capture more of the sample with each image - enabling faster object detection and increasing throughput.

Keep a state of live cell behavior in sight for a longer observation time while reducing cell toxicity and photobleaching. Increase throughput by eliminating the need to move optics or the stage and waiting for the software to stitch images together. Easily see panoramic images over larger field of view.



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Diamond USA, Inc.

Visit us at Booth #3158 in Hall E

Optical Interfaces for complex laser applications

Continuous growth in laser technology has broadened the requirements for more complex and higher performance systems.

Specific applications demand the combination of multiple features that allow supporting polarization maintaining (PM) properties in the presence of higher optical power densities.

Diamond offers power solution (PS) optical interfaces that support both requirements.

The Diamond PM-PS interface addresses reliability issues related to optical power densities close to or above the damage (or safety) threshold for single mode fibers and the propagation of polarization information.



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Robust Fiber Optic Interconnects designed to withstand Shock & Vibration

The Diamond AVIM® family of connectors provide exceptional resistance to shock and vibration, coupled with high-end optical performance.

The AVIM® family is also offered in both Commercial and Space grade configurations allowing customization for specific applications.

In addition, the mini-AVIM connector is the only Space qualified connector available on the market.



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To announce your new product or to ensure your existing products get the visibility they deserve and are put in front of the industry's key decision makers, make sure you are in the next issue of **optics.org product focus**.

NEXT ISSUE

**SPIE Defense+Commercial Sensing
23 - 25 April 2024**

Maryland, United States

Copy Deadline - 25 March 2024

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