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.

**EKSMA OPTICS**

**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
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- 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.

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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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www.diausa.com
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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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- Power Fiber Connector High Power Mating
- ESCC 3420 Space Connector Lightweight Titanium

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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.

Gigahertz-Optik
Compact BiTec Spectroradiometer

The BTS256-LED Testra 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 for self-absorption correction, electronic shutter and麥 increase throughput.

First Light Imaging
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, defense tracking.

C-RED New Space is part of the C-RED range of SWIR cameras (88 to 2.5 μm) from First Light Imaging.

Discover C-RED New Space on booth #5029E

Pixelink
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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