



## Photonics Showcase

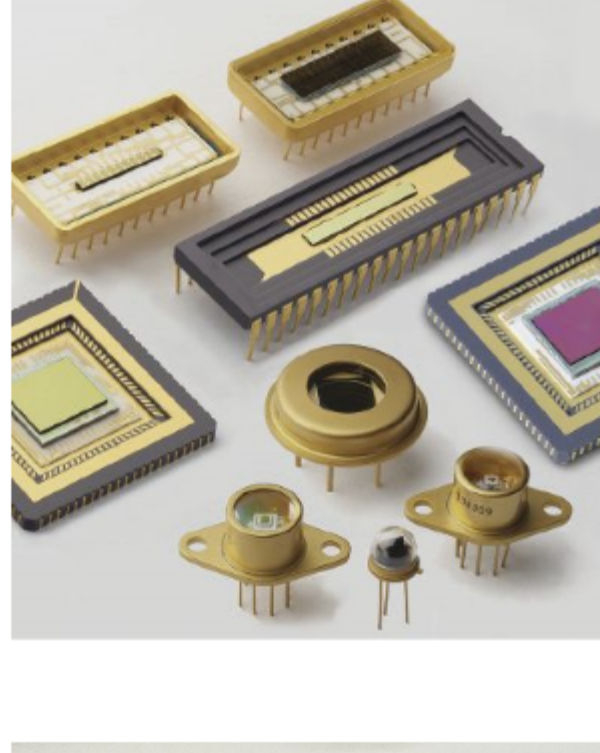
### [InGaAs Sensors: Advanced Solutions](#)

**From: Teledyne Judson Technologies**

Teledyne Judson InGaAs sensors offer enhanced sensitivity, superior QE, and minimal dark current, providing researchers and engineers with advanced capabilities to tackle photonic challenges. They feature a stable response vs. temperature, a wide dynamic range, high linearity, and require no bias or cooling. Cut-off wavelength range of 1.7  $\mu\text{m}$  to 2.6  $\mu\text{m}$ , these sensors are versatile for gas analysis, NIR-FTIR, spectroscopy, and medical imaging.

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### [Precision. Performance. Power.](#)

**From: Sydor Optics Inc.**

Sydor Optics specializes in High Energy Laser Optics, delivering windows and mirrors with industry-leading precision and performance. Subsurface damage reduces optical integrity. Our advanced processing techniques mitigate this, ensuring superior durability, efficiency, and low angstrom roughness. Trusted worldwide, our optics withstand the most intense laser environments. Sydor Optics—where precision meets power.

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### [High-Durability AR Coatings](#)

**From: PFG Precision Optics**

PFG Precision Optics delivers high-durability anti-reflective (AR) coatings engineered for extreme environments, including defense applications. Our in-house testing ensures compliance with durability standards such as MIL-C-675, MIL-C-48497, and MIL-F-48616. Backed by over 45 years of expertise, we provide tailored coating solutions with industry-leading performance.

From prototype to volume production, our optics are proudly made in the USA.

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### [IR Detectors: BXT2 Series Cooled PbSe](#)

**From: Opto Diode Corporation**

The BXT2-17TF features a two-stage thermoelectrically cooled package, ensuring high signal to noise ratio, and high sensitivity for precise infrared detection in demanding environments. Designed for gas analysis, thermal imaging, and defense, this detector delivers high reliability and performance in scientific, industrial, and aerospace markets.

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### [Ruggedized SWIR Cheetah Cameras](#)

**From: Imperx Inc.**

The SWIR line of Cheetah cameras are sensitive in the visible and infrared spectral range from 400 nm to 1700 nm. Resolutions from 0.33 MP to 5.32 MP are offered with either GigE or CameraLink camera interfaces. The ruggedized and reliable cameras are designed compliant with MIL-STD-810G and offer a wide operating temperature range and robustness against shock and vibration. USA made and customizations available.

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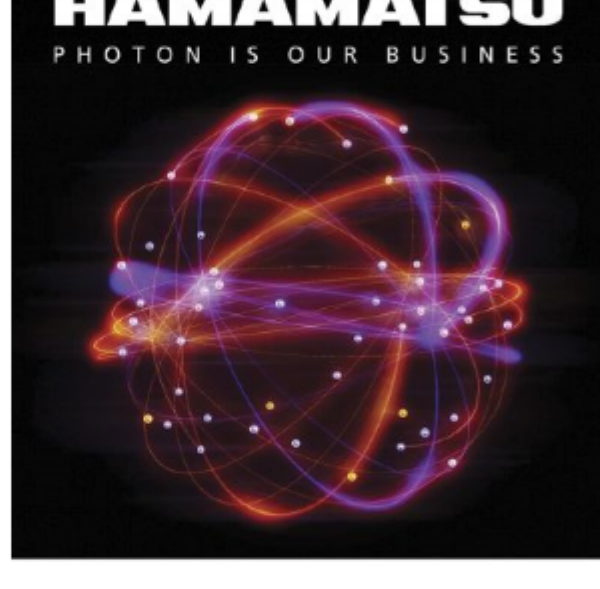
### [Photonics in Quantum Technologies](#)

**From: Hamamatsu Corporation**

Quantum technologies are changing the future of technology and society. All emerging quantum technology fields, including quantum computing and quantum communication and networking, rely on photonics innovations, and we're proud to be empowering the next generation of quantum advancements with our wide range of photonic devices and solutions. From lasers and detectors to cameras and modulators, we can help you realize your next discovery.

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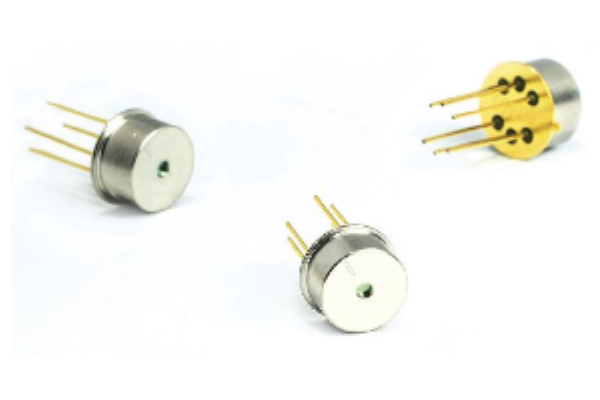
### [EP760 DFB & VCSEL — Oxygen Sensing](#)

**From: Eblana Photonics Ltd.**

760 nm DFB & VCSEL Lasers for Oxygen Sensing. Designed for precision gas sensing, Eblana Photonics' 760 nm DFB and VCSEL lasers enable accurate oxygen detection in industrial, medical, and environmental applications. With leading wavelength stability and low power consumption they are ideal for tunable diode laser absorption spectroscopy (TDLAS) and OEM integration. Unlock reliable and cost-effective gas analysis—contact us today!

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### [Real-Time Hyperspectral Monitoring](#)

**From: Cubert GmbH**

Cubert's ULTRIS cameras capture full spectral data in a single shot — no scanning required. Covering both VNIR and SWIR ranges, they reveal spectral signatures for live object identification, vegetation health monitoring, or material analysis. Optimized for UAVs and ground platforms, our compact, versatile solutions combine high spectral and spatial resolution with real-time processing for time-critical missions and scientific applications.

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### [Super Efficient Light Collection](#)

**From: LightMachinery Inc.**

For applications like Raman spectroscopy, LIBS, or high-speed process control. No more questioning data quality at certain wavelengths or choosing between resolution and signal strength. With uniform pixel density and optimized light collection, you get dependable measurements and maximum sensitivity throughout your spectral range.

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### [Our Broadest Tuning Yet](#)

**From: DRS Daylight Solutions Inc.**

Unlock the full potential of your spectroscopy application by accessing the valuable fingerprint region of the mid-infrared with MIRcat. Our enhanced MIRcat laser, equipped with Daylight-engineered QCLs, offers unparalleled wavelength coverage, allowing you to precisely target this critical region for more accurate and detailed molecular identification. Achieve deeper insights and more reliable results, all within the same trusted compact design.

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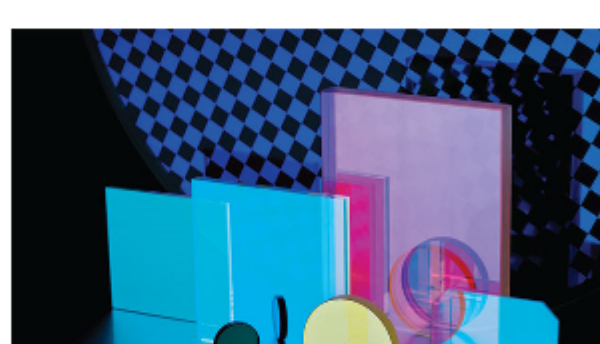
### [SIRRUS™ PVD Platform](#)

**From: Alluxa**

Alluxa's innovative, next-generation SIRRUS™ plasma physical vapor deposition (PVD) platform offers full spectral coverage from ultraviolet (200  $\mu\text{m}$ ) to infrared (14  $\mu\text{m}$ ). The proprietary process enables optical filters with the steepest edges, highest transmission, and deepest blocking available while maintaining high performance, precision wavelength control, and extremely uniform coatings.

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### [IR Filters for Thermal Imaging](#)

**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 uncooled microbolometers. Our filters and windows range in dimension from Ø6.0 to Ø200.0 mm, with dicing capabilities down to as small as 1.0  $\times$  1.0 mm.

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### [Uncooled Optical Gas Imaging](#)

**From: LightPath Technologies Inc.**

LightPath Technologies OGI (Optical Gas Imaging) camera provides a low cost, effective solution to visualize Methane and VOC's (volatile organic compounds). Traditionally only cooled sensors have been utilized, this has been a roadblock to mass deployment due to cost. Our high-sensitivity uncooled LWIR camera provides a unique cost effective path to mass deployment and remote monitoring for gas detection of additional applications.

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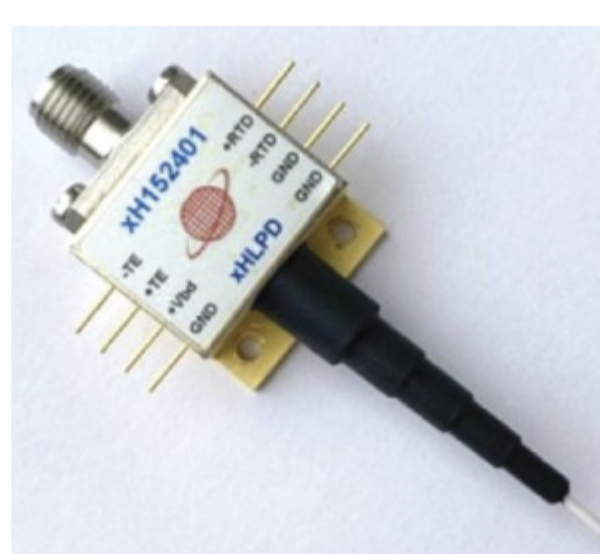
### [Extra Highly Linear Photodiode xHLPD](#)

**From: Discovery Semiconductors Inc.**

The xHLPD photodiodes provide high power operation up to 10 GHz bandwidth, and deliver up to 4V peak-to-peak (+16 dBm CW) RF output power with exceptional phase linearity < 5 rad/W. The thermoelectrically cooled modules enable reliable device operation with multiple biasing options. Applications include ultra-low noise optical clocks, photonic time transfer, antenna remoting, and RF-over-Fiber.

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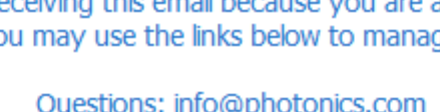
### [Plug & Play Precision Motion](#)

**From: Zaber Technologies Inc.**

Build your precise motion system fast with Zaber's modular stages. Linear, rotary, XY, and tip/tilt stages deliver up to 1.5  $\mu\text{m}$  accuracy. Even multi-axis systems can be set up in minutes. Program efficiently with our well-documented API and sample code. Expect 1-5 day lead times and 1-day responses to inquiries.

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