

PHOTONICS SHOWCASE



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Featured Products & Services

[Silanna UV's Highest Irradiance Ever](#)

From: **Silanna UV**

Silanna UV's far & deep UVC LEDs feature metal-can packages with an industrial standard TO-39 footprint. The LEDs enable the transmission of optical signals for a variety of wavelengths from 230nm to 255nm with hermetic protection. The ball lens offers a narrow viewing angle for applications requiring high irradiance performance.

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[Cw QCL for Gas Sensing](#)

From: **nanoplus Nanosystems and Technologies GmbH**

nanoplus provides continuous wave quantum cascade lasers that operate at customized wavelengths ranging from 6 μm to 11 μm . These monomode lasers function in continuous wave and mode-hop free at room temperature, making them ideal for high-precision gas measurements in various industries and research fields. They e.g. enable innovative sensing applications in areas such as environmental monitoring, defense, and oil & gas.

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[High-Quality IR Cameras](#)

From: **Optris Infrared Sensing LLC**

Affordable IR cameras in short- and longwave detector options. Richly featured software freely downloadable without annual subscription fees. Optics for microscopic or wide-FOV applications. Fast temperature measurements and easy process integration. Ideal for many industrial and R&D applications. Engineering support to quickly guide you to the best temperature measurement solution.

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[New Si PIN Photodiode for UV Monitor](#)

From: **Hamamatsu Corporation**

Perform high-speed UV monitoring with Hamamatsu's new S16586 silicon PIN photodiode. With its exceptional ultraviolet light resistance, high sensitivity, and rapid response, this photodiode ensures accurate and efficient detection with reliability and precision, without the effects of outgassing. It is ideal for analytical instruments and optical measurement equipment.

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[Mid-IR Comb](#)

From: **Menlo Systems GmbH**

The Mid-IR Comb pushes precision metrology into the 3 – 14 μm spectral range, the so-called molecular fingerprint region. It enables high-sensitivity and high-accuracy measurements, such as mid-IR Fourier-transform spectroscopy (FTIR), nano-FTIR, mid-IR dual-comb spectroscopy, or frequency-locking of mid-IR quantum cascade lasers. The system provides up to 200 mW average optical power within a large spectral bandwidth of 50 to 300 cm^{-1} .

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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.

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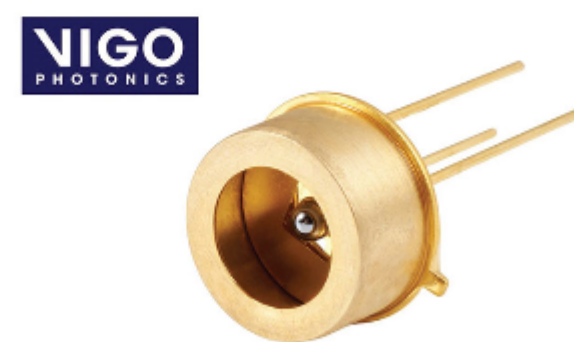
[InAsSb Infrared Detector \(PV\)](#)

From: **VIGO Photonics**

PVIA-10.6-1x1-TO39-NW-36 is a room-temperature IR photovoltaic detector based on InAs/InAsSb superlattice heterostructure. The detector element is monolithically integrated with hyper-hemispherical GaAs microlens in order to improve the performance of the device. Spectral range: 1.8 to 12.0 μm , ROHS compliant. Applications: CO2 laser (10.6 μm) measurements, gas detection, etc.

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[Intlvac PARMs for Sputtered IR Films](#)

From: **Intlvac Thin Film Corp.**

The Nanochrome IV PARMs produces dielectric thin film layers by reactive magnetron sputtering with final reaction and film densification at the substrate surface using a high current, low energy ion source. Reactive operation results in faster deposition times. Low pressure sputtering achieves higher deposition rates. Films are made reactively to produce highly dense, pure oxides and nitrides suitable for the UV, VIS NIR, SWIR and MWIR ranges.

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