NEWS RELEASE

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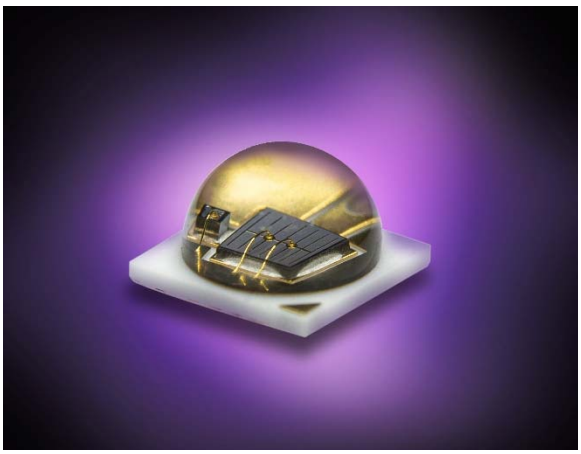
For Immediate Release

EPIGAP OSA's Groundbreaking SMD SWIR LEDs with Highest Output Power Now Features Extended Product Ranges from 700 nm out to 1650 nm

• Company will showcase the new SMD SWIR LEDs at SPIE BiOS booth 8659 and Photonics West German Pavilion booth 4205-39, The Moscone Center, San Francisco, Jan. 17 – 22, 2026.

Berlin, Germany – January 15, 2026 – EPIGAP OSA Photonics GmbH (www.epigap-osa.de), a leading global manufacturer and innovator of custom and standard LEDs and photodetectors, announces a significant breakthrough in surface-mount device (SMD) shortwave infrared (SWIR) LED technology, delivering more output power and an extended product range from 700 nm to 1650 nm than is currently available in today's market.



The company's new **OCI-460 SWIR LED** series features superior performance, surpassing all other SWIR SMD LEDs on the market, including the company's previous OCI-480 package. For example, the new model **OCI-460 ID1550-XS** operates at 1550 nm and features drive current up to 1.5A to deliver approximately 13% higher output efficiency over EPIGAP's OCI-480 device. This remarkable advancement is an industry-leading 96% increase in output power at 1550 nm and delivers 150 mW. Other SWIR LED models in the **OCI-460** series operate at wavelengths of 1040 nm,1200 nm, 1300 nm, 1460 nm, and now out to 1650 nm. Output power varies depending on the specific model.

EPIGAP OSA's SMD SWIR LEDs feature an industry-standard 3535 footprint with a ceramic package and silicone dome, delivering excellent thermal performance. Designed for sensing, machine vision, and gas-sensing applications, each **OCI-460** series device integrates electrostatic discharge (ESD) protection to ensure long operating life and reliable performance.

Matthias Gamp, EPIGAP OSA's CEO, notes, "We are delighted to introduce the highest output power SMD SWIR LEDs with extended product ranges from 700 nm - 1650 nm during BiOS, Jan. 17 -18, 2026, and Photonics West, Jan. 20 – 22, 2026, in San Francisco. We will be showing the product in our BiOS booth 8659 and in our Photonics West German Pavilion booth 4205-39. Please stop by for a discussion of our newest product line. Products will be available in commercial quantities via DigiKey or factory direct starting Feb. 3, 2026. We are proud to offer complete LED and photodetector solutions and customization, from design and development to prototyping, series production, and supply chain management. We are committed to top-tier quality and customer service, reflecting the highest standards in German engineering. We welcome the opportunity to meet with you at the show and partner with you for all your LED and photodetector needs."

To learn more about EPIGAP OSA's innovative **OCI-460 SMD SWIR LEDs** with new ranges from 700 nm – 1650 nm and featuring highest output power available, please go to: https://www.epigap-osa.com/led-smd/ir-smds/. To view the 1550 nm product data sheet please visit: https://www.epigap-osa.com/datasheet/OCI-460_ID1550-XS.pdf.

ABOUT THE COMPANY:

EPIGAP OSA Photonics GmbH (www.epigap-osa.com) is an international supplier of state-of-the-art standard and custom LED chips, surface-mounted LEDs, multi-chip LEDs, customized LED modules, and photodetectors. Based on silicon carbide (SiC), silicon (Si), gallium arsenide (GaAs), and indium gallium arsenide (InGaAs) technologies, the company is a recognized leader in the innovation of photonics and LED solutions for a wide variety of industries including medical, pharmaceutical, commercial, agriculture, industrial sensing, aviation, and defense.

Our company's latest innovation is our broadband conversion SMD LEDs with operating ranges from 400 nm to 1100 nm, making them ideal for critical biomedical applications, hyperspectral imaging tasks, and more. The product series provides an affordable and desirable alternative to aging lamp technologies such as mercury, Xenon, and tungsten-halogen.

Our recently introduced high-power, shortwave infrared (SWIR) LEDs products family features ground-breaking extended operating wavelengths from >1720 nm to 2300 nm and industry-leading output power from 1040 nm to1650 nm. These reliable, long-lifespan, light-emitting devices are ideal for IR imaging applications through fog, dust, and smoke, materials sorting and detection, and non-intrusive imaging that enables discreet biometrics and surveillance tasks.

The complete spectral range of EPIGAP-OSA Photonics group's LEDs operate from ultraviolet (200 nm) out to SWIR (2300 nm) with high stability, durability, and reliability. Customers may select high-efficiency LEDs according to chip size, optical output, and electrical parameters with an accuracy of up to ±3 nm to meet their most demanding specifications.

We are proud to offer custom LED and photodetector services designed to meet or exceed your expectations. Ask about our complete, end-to-end solutions including design and development, prototyping, series production, supply chain management, and comprehensive services from component manufacturing to complex optoelectronic modules.

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