NEWS RELEASE

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For Immediate Release

EPIGAP OSA Introduces Unique, High-Power SWIR LEDs with Extended Wavelengths from >1720 nm to 2300 nm

• Advanced, high-power, extended wavelength SWIR LEDs feature up to 1 Amp and 41mW optical output.

Berlin, Germany – Nov. 21, 2024 – EPIGAP OSA Photonics GmbH (www.epigap-osa.de), a leading global manufacturer of custom and standard LEDs and photodetectors, announces an extensive line of high-power shortwave infrared (SWIR) LEDs. The unique **OCI-490** series of SWIR LEDs features an extended wavelength range from >1720 nm to 2300 nm with a remarkable 1 Amp and 41 mW optical output. The energy-efficient family of SWIR LEDs delivers strong illumination with very low heat output, and offers extended life which reduces maintenance and replacement costs, making them ideal for mission-critical operations.

The reliable, high-power devices can be utilized in non-intrusive imaging. Invisible to the naked eye, EPIGAP OSA's new SWIR LEDs enable discreet biometric and surveillance imaging for medical, industrial, and defense markets. When used in material identification, the extended wavelength SWIR LEDs reveal unique material characteristics to improve sorting and quality control tasks in pharmaceutical, agricultural industries, and more. The SWIR wavelengths in the high-power LED packages enhance visibility when imaging through dust, fog, and smoke with highly reliable results in harsh environments such as extreme heat, humidity, or vibration.

EPIGAP OSA Photonics Group offers a wide portfolio of LEDs, from ultraviolet (200 nm) wavelengths to SWIR (2300 nm), allowing quick prototyping and product designs tailored to specific applications. The company also offers the unique service of exact binning of the LED devices according to brightness, wavelength, or other parameters. Packaging options include glass and epoxy lenses with narrow view angles to enable exact delivery of the light. The company's advanced manufacturing processes enable optimization of the divergence angle, upon customer request.

According to EPIGAP OSA's CEO, Matthias Gamp, "We proudly offer complete solutions, from design and development to prototyping, series production, and supply chain management. Our LED and photodetector customization is one of our company's greatest assets along with our commitment to quality, reflecting the highest standards in German engineering. We invite you to partner with us for all your LED and photodetector needs."

To learn more about EPIGAP OSA Photonics' revolutionary extended SWIR LED wavelengths, optical power, and packaging options, please go to: https://www.epigap-osa.com/products/leds/smd/high-power-smd/?mtm_campaign=pr-swir.

ABOUT THE COMPANY:

EPIGAP OSA Photonics GmbH (www.epigap-osa.de) 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 has been recognized for its innovative 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 the new high-power, shortwave infrared LEDs products family with extended operating wavelengths from >1720 nm to 2300 nm. These reliable, long-lifespan, light-emitting devices are ideal for critical applications in infrared imaging through fog, dust, and smoke, materials sorting and detection, and non-intrusive imaging that enables discreet biometrics, surveillance tasks, and more.

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.