

NEWS RELEASE

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For Immediate Release

EPIGAP OSA Announces High-Power UV LEDs Operating from 225 nm to 410 nm

- High-power ceramic SMD Ultraviolet LEDs are available with glass dome lens or flat tops for easy integration into new or existing systems.

Berlin, Germany – February 18, 2025 – EPIGAP OSA Photonics GmbH

www.epigap-osa.com), a leading global manufacturer of custom and standard LEDs and photodetectors, introduces high-power ultraviolet (UV) LEDs in surface-mount packages that operate from 225 nm to 410 nm. The entire wavelength range of the UV product series is covered in incremental steps from 5 nm to 25 nm. The company's two newest UV LED devices operate at 225 nm and 230 nm, respectively, and are used in sensors, disinfection, and medical sensing applications. They are currently offered in development quantities only.

The popular [OCU-490-20 UE365-XG](#) high-power UV LED is precisely engineered for advanced medical or security solutions. It has high intensity of 450 mW/sr and a wavelength of 365 nm. The glass lens with its narrow 20-degree viewing angle enables exact delivery of the light, making the light-emitting device ideal for critical UV sensing tasks.

Primary applications for EPIGAP OSA's High-Power SMD UV LED series include disinfection, counterfeit detection, security, UV curing, and UV sensing/medical sensing. To view all 30 products in the high-power SMD UV LEDs family, go to:

<https://www.epigap-osa.com/led-smd/uv-smlds/> to see various specifications including Footprint, Current, Radiant Power, Radiant Intensity, Wavelength, FWHM, and datasheet PDFs that correspond to each wavelength.



According to CEO Matthias Gamp, EPIGAP OSA Photonics Group, "We are excited to announce our extensive family of High-Power UV LEDs for critical sensing applications. The

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depth and breadth of our SMD LEDs technology and our company's commitment to excellence in engineering has positioned us in the forefront of global photonics manufacturers. We proudly provide photonics assemblies, standard or custom high-power UV, VIS, IR and broadband LEDs, and standard or custom photodiodes. We invite you to partner with us for all your LEDs and photodetector needs, including any customized solutions you require."

EPIGAP previously introduced two new lines of LEDs: High-power, extended SWIR wavelength LEDs that operate from >1720 nm out to 2300 nm, and Broadband SMD LEDs with extremely wide ranges from 400 nm – 1100 nm. To learn more about these innovative surface-mount LED product families, please go to: <https://www.epigap-osa.com/led-smd/>.

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. 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.