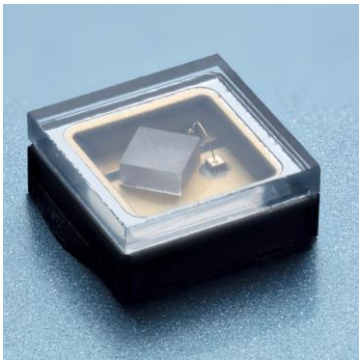
Press release

Custom UV LEDs and modules with emission wavelengths realized from 320 nm to as low as 233 nm

At *Photonics West 2019,* UVphotonics introduces UV LEDs emitting in the UVB and UVC wavelength regions*.* Applications of the LEDs include sensing, phototherapy and plant growth lighting. Together with the Ferdinand-Braun-Institut, the company covers the full UV LED technology chain, from the epitaxial growth of LED wafers up to complete turn-key modules, ready to use in applications.

Berlin, January 10, 2019

UVphotonics will showcase latest UV LED developments jointly with the Ferdinand-Braun-Institut (FBH) at the German Pavilion at *Photonics West 2019* – the world's largest photonics technologies event which is hosted in San Francisco (USA) from February 5-7, 2019. The FBH and Technische Universitaet Berlin (TU Berlin) spin-off from Germany develops and manufactures LEDs emitting in the UVB (280 nm – 320 nm) and the UVC (230 nm – 280 nm) spectral regions. Due to their customizable wavelengths, low operation voltages, ability to be rapidly switched and dimmed along with their robustness, the compact devices are suited for a great variety of applications. These include water purification, disinfection, medical diagnostics, phototherapy, plant growth, UV curing, and sensing.



Featured products at *Photonics West 2019* comprise 310 nm UVB LEDs with up to 30 mW output power at 350 mA and 265 nm UVC LEDs with > 25 mW at 350 mA. Also, fully packaged UVC LEDs with single emission peak at 233 nm and an output power of 0.3 mW at 100 mA will be showcased. In addition to these standard wavelengths, UVphotonics offers customizable LEDs tailoring the emission wavelength, emission area and spatial emission characteristics to meet to the specific requirements of the respective application. “We stay at the forefront of UV LED technology due to our close collaboration with the FBH and the TU Berlin”, points out Dr. Neysha Lobo Ploch, CEO of UVphotonics. “The FBH conducts R&D on (Ga,Al,In)N UV LEDs and performs all stages of device fabrication in-house, from design to epitaxial growth to chip processing, packaging and up to complete turn-key modules which are ready to use in applications”. The Ferdinand-Braun-Institut presents its diode laser developments at the neighboring booth (see related press release).

Visit UVphotonics at *Photonics West 2019*, German Pavilion, booth 4545-50.

UV LED press picture depicted here is available for download. Further images are provided on FBH’s website: https://www.fbh-berlin.com/press/download-center. All images are copyrighted.

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About UVphotonics

Since 2015, UVphotonics NT GmbH offers customizable UV LEDs for the B2B market. The product portfolio covers single chips and fully packaged LEDs in the UVB and UVC wavelength ranges. The profound technological expertise of the UVphotonics team will ensure that our LEDs are tailored to meet your specific needs in terms of emission wavelengths, emission characteristics, power ranges or chip layouts. Additionally, we offer consultation on the integration of UV LEDs in application systems. UVphotonics is a spin-off from the Ferdinand-Braun-Institut, Leibniz-Institut fuer Hoechstfrequenztechnik and the Technische Universitaet Berlin. Continued close collaborations with these leading research institutes ensure that UVphotonics stays at the forefront of UV LED technology.

www.uvphotonics.de

About the FBH

The Ferdinand-Braun-Institut, Leibniz-Institut fuer Hoechstfrequenztechnik (FBH) researches electronic and optical components, modules and systems based on compound semiconductors. These devices are key enablers that address the needs of today's society in fields like communications, energy, health, and mobility. Specifically, FBH develops light sources from the visible to the ultra-violet spectral range: high-power diode lasers with excellent beam quality, UV light sources and hybrid laser systems. Applications range from medical technology, high-precision metrology, and sensors to optical communications in space. In the field of microwaves, FBH develops high-efficiency multi-functional power amplifiers and millimetre-wave frontends targeting energy-efficient mobile communications as well as car safety systems. The FBH has a strong international reputation and ensures rapid transfer of technology by working closely with partners in industry and research. The institute has a staff of 290 employees and a budget of 33 million euros. It is part of the Forschungsverbund Berlin e.V., a member of the Leibniz Association and plays an active role in various networks.

www.fbh-berlin.com