

Press Release

UVphotronics to showcase custom UV LEDs and modules at Photonics West

UVphotronics will present novel UV LED developments with emission wavelengths from 330 nm to as low as 230 nm at *Photonics West 2020*. The versatile light sources are configurable to various application requirements.

Berlin, January 29, 2020

UV LEDs have opened up new prospects due to benefits like increased design flexibility, energy savings and reduced overall cost. Their customizable wavelengths, low operation voltages, ability to be rapidly switched and dimmed along with their compact size make them ideal for a multitude of applications. These include water purification, disinfection, medical diagnostics, phototherapy, plant growth, UV curing, and sensing.

UVphotronics will exhibit the latest progress in UV LEDs jointly with the Ferdinand-Braun-Institut (FBH) at the German Pavilion (booth 4545) at *Photonics West 2020* San Francisco (USA) from February 4-6. UVphotronics presents UVB and UVC LEDs with 10,000 h lifetime and output powers of up to 45 mW at 310 nm and 30 mW at 265 nm. Also, fully packaged UVC LEDs with single emission peak at 230 nm and an output power of 1.6 mW at 100 mA will be showcased. Moreover, the company's product portfolio has been expanded to UV LED modules with integrated driver circuits.

The FBH spin-off tailors its products to customer-specific needs in terms of emission wavelength, emission area and spatial emission characteristics. Together with the Ferdinand-Braun-Institut, the company covers the full UV LED technology chain: R&D on (Ga,Al,In)N UV LEDs with all stages of device fabrication in-house. The portfolio ranges from design to epitaxial growth to chip processing, packaging and up to complete turn-key modules, which are ready to use in applications. At the neighboring booth, the Ferdinand-Braun-Institut additionally presents its diode laser developments (see [press release](#)).

A suitable press picture 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 UVphotronics

Since 2015, UVphotronics NT GmbH offers customizable UV LEDs for the B2B market. The product portfolio covers single chips, fully packaged LEDs and lighting modules in the UVB and UVC wavelength ranges. The profound technological expertise of the UVphotronics team ensures that the LEDs are tailored to meet the specific requirements in terms of emission wavelengths, emission characteristics, power ranges or chip layouts. Additionally, UVphotronics offers consultation on the integration of UV LEDs in application systems. UVphotronics 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 UVphotronics stays at the forefront of UV LED technology.

www.uvphotronics.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 and integrated quantum technology. 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 300 employees and a budget of 37.9 million euros. It is part of the Forschungsverbund Berlin e.V., a member of the Leibniz Association and part of »Research Fab Microelectronics Germany«.

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