New high-power LED modules

Rodgau-based laser and LED specialist Omicron is expanding its LEDMOD product range to include higher-power models.

Rodgau, 14.06.19 (rd) – Compared to its smaller LEDMOD.V2 version the new Omicron LED modules LEDMOD.HP offer higher output powers and a wider selection of available wavelengths for power-intensive applications in industry and research. With more than 40 different wavelengths from deep UV to near IR and optical output powers of up to two watts after a Liquid Light Guide or with fibre optics, the LEDMOD.HP series is suitable for many applications such as microscopy, chemical analysis, spectroscopy, forensics.

The LED modules are available in a fibre coupled as well as a free emission version. The modules are equipped with modulation inputs for fast analogue intensity modulation with up to 500 kilohertz and digital modulation with a switching time of less than 1µs. High-precision temperature stabilization of the LED chips ensures power and wavelength stability. This is particularly important in applications that require exact performance and high stability of the emission spectrum.

Digital modulation can be performed via external modulation signals or via an internal programmable signal generator. A SYNC output ensures synchronization with external devices such as cameras, spectrometers or lock-in amplifiers. The supplied Omicron Control Center software or the customer’s own software can be used to conveniently control one or more LEDMOD.HP modules via the integrated RS-232 and USB-2.0 interfaces.
Omicron’s new LEDMOD.HP modules will go into series production in the third quarter of 2019 and will be presented at the world’s leading trade fair Laser 2019 - World of Photonics in Munich from 24 to 27 June 2019 in Hall B2, Stand 115.

Further information on Omicron laser products can be found at www.omicron-laser.de.

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