Stable Wavelengths and High Flexibility: Fiber Coupled LED Modules are on the Advance at Omicron

New High Power LED Module for up to 250 mW output

Rodgau (mas) - The innovation team of Omicron Laserage Laserprodukte GmbH from Rodgau in Germany has developed a new series of high-power LED modules. The future-oriented product variants are characterized by three special features: In fiber-coupled implementation, they provide for high flexibility, while with temperature control they guarantee stable wavelengths and through the OEM versions they are suitable for integration into customer devices without any problems. The new Omicron LED modules are capable of modulation twenty times faster and twice as powerfully in the UV range than predecessor models.

The Omicron high-power LED modules are available in variants with free emission of to 250 mW and fiber-coupled variants with up to 150 mW in the UV (365 nm), VIS and IR range. The available wavelengths cover the UV, violet, blue, green, yellow, red and IR ranges and can be coupled into POF fibers and silica fibers. White variants are also available. With their temperature-stabilized wavelength, the LEDMOD series from Omicron is an ideal source of light for applications such as fluorescence stimulation in biotech and chemistry, UV hardening, photo-catalysis or microscopy. The possibility of analog modulation with up to 500kHz is a further useful feature for dynamic processes.

The new Omicron high-power LED modules are available in an OEM version for machine integration and in a laboratory version for scientific applications. The high-NA fibers with 200 µm to 2 mm fiber core diameters are offered in customer-specific lengths and configurations. With a power consumption of a maximum of six watts, the Omicron LED modules are also outstandingly suited for integration into mobile applications.

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Further information about Omicron laser products can be found under www.omicron-laser.de.

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Background information
Omicron has been developing, constructing and producing innovative laser systems since 1989. The highly qualified team has been specializing since then in the development of individual customer solutions in the sectors of medicine, research and biotech, digital imaging and optical data storage, as well as quality assurance and measurement. Development and production correspond to European and American directives. The Asiatic market is currently being conquered through leading-edge new developments in DVD mastering. The laser systems developed in modular design enable customer requirements to be optimally satisfied and to support customers in individual system integration. Omicron can claim to have always been one step ahead as regards product development and, with its numerous new developments in laser technology, has not only set trends, but also caused sensations internationally.

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