Omicron extends functionality of the „LuxX“ diode laser series

The successful “LuxX” lasers by Omicron are being presented with new functions and premium features in the established compact format.

Rodgau (rd) - Under the name “LuxX+” the laser specialist Omicron presents a new diode laser series, with which the developing team is setting new trends in laser technology. The lasers of the “LuxX+” series have got several new functions: With fast, direct digital modulation capability of >250 megahertz and analogue power modulation >3 megahertz as well as fast electronic shutter function with full modulation depth and >500 kilothertz, the lasers have got unique modulation speeds at a compact size of only 4x4x10cm. Various input signals like TTL, 0...1 V, and differential modulation signals allow easy integration into existing or future customer’s designs.

“LuxX+” diode lasers come with an integrated RS-232 and USB2.0 interface, which allows easy and fast interaction with the application. With the use of the innovative Omicron optics, astigmatism is being compensated, so that not only beam diameter can be about one millimeter, or 0,7mm $1/e^2$, but also the focus is absolutely round, which is important especially for microlithographic applications. Also for biotechnological applications the new product family of the laser specialist Omicron is the first choice. The new “LuxX+” is available in more than 20 different wavelengths in the range of 375nm to 830nm, the favored wavelength range in biotechnology, and comes as directly modulated and very compact light source. The lasers are available with an optical output power of up to 500mW in single mode operation.

The new “LuxX+” diode lasers by Omicron will be presented at the world-leading exhibition „LASER 2013 – World of Photonics“ in Munich from May 13 until May 16, 2013. Serial production of the new lasers will start in the second quarter of 2013.

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About Omicron
Since 1989, Omicron has been developing, building and producing innovative laser systems. With a highly qualified team Omicron specialized in customized solutions for applications in the fields of medicine, research, biotechnology, such as microscopy and flow cytometry, digital imaging and optical data storage as well as quality assurance and measurement engineering. Product development and production comply with European and US guidelines. A broad band of laser sources in the range of UV VIS/IR is available to satisfy individual customer requirements. Omicron offers single light sources as well as complete system solutions. Omicron pursues the objective of being an industry leader in product development and has not only set trends in laser technology but also has drawn worldwide attention with its developments**.**

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