

## **Innovative two-in-one solution: with new diode laser series Omicron connects two laser-worlds in one device**

**Laserspecialist Omicron in Rodgau brings more flexibility into the world of diode lasers with its new “BrixX ps” laser series. Through simply changing in the operating mode one device offers either picosecond pulsed or modulated CW-operation.**

Rodgau (rd) – With the innovative laser series “BrixX ps” Omicron for the first time presents universal diode lasers, which can be pulsed in the picosecond range, as well as being operated in “continuous wave” (CW) and modulated mode. The compact laser modules with completely integrated driver electronics, high precision temperature regulation and beam shaping optics can emit ultrashort pulses down to 50 picoseconds, pulses in the nanosecond range and fast analogue and digital modulated CW emission.

Diodes with up to 1500 milliwatt optical output power and wavelengths between 375 and 2300nm can be used in the “BrixX ps” systems. The light output can be either free-space or fibre-coupled. CW operation is possible with up to 100 megahertz digital and up to 1 megahertz analogue modulation. Furthermore the modules have got an electronic shutter function which can switch the emission on and off at a bandwidth of more than 500kHz. In pulsed mode the repetition rate can either be triggered by an external synchronization signal, or it can be generated by the internal, programmable frequency generator with up to 100 megahertz.

The “BrixX ps” modules can be integrated into new or already existing applications via its integrated RS-232 and USB-2.0 interfaces in an optimal way. For easy use a comfortable control software is included in delivery. Besides the standard program,

**Issued by:**

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customized wavelengths, or diodes supplied by the customer, can be integrated into the devices. Typical applications are microscopy, spectroscopy, fluorescence analysis and usage as seed or pump laser.

Serial production of the new "BrixX ps" diode lasers by Omicron will start in the second quarter of 2013 and will be presented at the world-leading exhibition „Laser 2013 – World of Photonics“ in Munich from May 13 to May 16, 2013.

For further information please refer to [www.omicron-laser.de](http://www.omicron-laser.de).

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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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