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Powerful and Compact: Innovative 1 Watt Diode Laser from the Omicron Innovations Workshop

New temperature controlled laser diode module with more than 1000mW at 445nm

Rodgau (mas) – The laser specialist Omicron from Rodgau has developed the currently most powerful 445nm laser diode module. With its compact dimensions of nineteen times nine times five centimetres the so-called “Bluephoton” is also the smallest blue laser diode module in this performance category.

Developed for applications such as machine vision, wafer inspection, fluorescence excitation, laser annealing, as well as powerful blue illumination source for **SLMs** and **DLP** chips the “Bluephoton” offers totally new options whenever good focussing ability and highest intensity are required. With an M2 value of two to three, the laser offers good beam quality and can be focused to a few micrometers. Due to the modular design of the Omicron LDM series, the innovative laser can be equipped directly with focussing lenses, fibre couplings or customer specific lens systems.

The LDM series lasers are available as CW operation or modulated versions and in wavelengths of 375 to 1064nm.

You can find further information about the Omicron laser products under www.omicron-laser.de.

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Background information

Omicron has been developing, designing and producing innovative laser systems since 1989. The highly-qualified team has since specialised in the development of individual customer solutions in the application areas of medicine, research and biotechnology, digital imaging and optic data storage, as well as quality assurance and measurement techniques/test methods. Development and production correspond with both European and US American guidelines. The Asian market is currently being conquered by trail-blazing new developments in DVD Mastering. The laser systems developed in modular design allow meeting individual customer requirements to an optimum level, and to support customer with system integration. Omicron holds the claim to always being a step ahead in matters of product development and with its numerous new developments in laser technology has not only set trends, but has also come up with international sensations.

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