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Narrow bandwidth and wavelength stabilised: Two new diode lasers from the Photon series of Omicron

Rodgau (mas) - The new Photon series from the laser specialists Omicron has enriched themselves with two further diode lasers, "Redphoton® DFB" and the "Blue and Redphoton® WS" versions.

The "Redphoton® DFB" that is especially characterised as a narrow bandwidth diode laser with less than two megahertz has a high output performance and optimal adjustability. The integrated DFB laser diodes are based on optical Bragg gratings which are integrated into the active region of the semiconductor to be able to achieve a narrow band emission and a high coherency up to a length of 250 metres. The new "Redphoton® DFB" laser module from Omicron that is fibre coupled if necessary is available in a wide range of infrared wave lengths. The "Redphoton® DFB" that can be used as an ideal source of light for applications such as Raman spectroscopy, terahertz generation, alkaline spectroscopy as well as gas detection.

Laser diodes with 375 nm to 980 nm are used in an External-Cavity-configuration with the "Blue and Redphoton® WS" versions to produce narrow banded and wavelength stabilised emissions. The wavelength stabilised WS models of the Photon series are suitable for all UV, VIS and Infrared applications where, for example wavelength sensitive elements such as AO modulators and electro optical deflectors are used in the path of the beam. The ultraviolet, violet and blue "Bluephoton® WS" laser diode modules are the most up-to-date technical sources of light for the modern replacement of gas lasers such as Helium - Cadmium, Argon Ion and Krypton Laser in high end applications such as micro lithography, digital holography, holographic data storage, wafer inspection, Laser-Scanning-Microscopy and much more.

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As with all laser diode modules of the Photon series, the "Redphoton® DFB" and "Bluephoton® WS" are also based on the modular principle of Omicron that has an enormous choice of items such as direct fibre coupling, focussing and collimation optics, optical insulators, electro optical monitoring and much more.

Further information for Omicron laser products can be obtained 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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