New Diode Laser for HeCd Replacement: Omicron Laserage´s new LDM445.50.CWA.L TEC-cooled laser diode modules provide 50mW at 442nm

Rodgau (mas) – The LDM445.50.CWA.L with a round, astigmatism corrected beam profile is the latest release of the german based laser manufacturer, Omicron Laserage Laserprodukte GmbH. Designed for High-End applications like DVD-Mastering, Digital Imaging, Confocal Laser Scanning Microscopy, Flow Cytometry as well as other medical and industrial applications, this laser can directly replace 442nm Helium Cadmium gaslasers. The analogue modulated version of the laser (LDM445.50.A350) can additionally replace the AOM modulator in laser application systems. Compared to a HeCd laser, the LDM445.50.CWA.L has much lower noise, better power stability and much lower power consumption. The lifetime of the LDM laser diode modules is about 5 times of that of a HeCd laser. The system comes with an intelligent 24VDC laser controller that offers RS-232 Interface, optional USB interface and an auxiliary port for machine control.

The modular principle of Omicron´s LDM-Series lasers makes them also the most flexible UV / violet / blue laser diode modules. Mode-hopping-free CW operation, modulated versions with modulation speeds of up to 500MHz digital and up to 350MHz analogue, single-mode fibrecoupling with over 75% efficiency, beam diameters from 1 to 15mm (1/e²) or the adjustable astigmatism are only a few of it´s outstanding features.

The LDM-Series lasers are available in CW or modulated versions from 370 up to 980nm.

More information about the LDM-Series lasers on www.lasersystem.de or at the Photonics West 2006 show at the Omicron booth no. 1801.

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