Omicron Deepstar Laser

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Light Sources

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Omicron´s new temperature stabilised analogue and digital modulated diode lasers called Deepstar offer real 100% modulation depth of >>100000:1. Ideal for fluorescence excitation and applications like confocal laser scanning microscopy and flow cytometry where no remaining light is
allowed in “modulation zero”-state.
With their “ultra-deep” analogue modulation of more than 10 MHz and digital modulation of more than 100 MHz and
with rise- and falltimes of below two nanoseconds, these lasers are suitable for high-speed applications that were formerly only possible by using CW lasers and AO-modulators. The lasers offer an RS-232 interface for laser control and an industrial standard supply voltage of 24VDC. The analogue and digital signal inputs can be configured in voltage and impedance, so adaption to existing signal sources can be done easily. The modular principle of the LDM Series laserheads offers a host of options like single-mode fibre coupling with an efficiency of upto 75%, collimation optics for 1 to 15mm beam diameter and various focussing objectives.

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