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LEDMOD-Series

LED modules for
industry and science

UV-VIS-IR
stable wavelength
intelligent
direct modulation



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Intelligent LED light sources for advanced applications

Omicron´s LEDMOD Series LED light sources offer new possibilities in all applications where strong light radiation with high power stability, temperature stabilised wavelength, direct modulation or flexible light guiding is needed.

The optionally fibre coupled LED´s are the ideal light source for applications like microscopy, fluorescence excitation in biotechnology, chemistry or medicine, UV curing, photocatalysis, machine vision and many others.

The capability of direct analogue modulation with up to 500kHz by an external signal or self-modulation with programmable frequency and duty-cycle at up to 200kHz is an outstanding feature for dynamic processes and integration into automated environments. The high efficiency fibre coupling option offers the availability of the light at remote places wherever it is needed.

The OEM-LED heads of the LEDMOD Series are cascable and can be configured to functional units, multi-wavelength clusters or lines without the need of extensive wiring, which makes integration into machines, instruments or production lines easy.

Omicron also offers a laboratory version, optics for beam shaping, focussing, as well as electronic and mechanical engineering services to adapt this OEM LED light sources to customers applications.



LEDMOD Series - Specifications	
LEDMOD LAB	
Wavelengths & Powers (other wavelengths and powers on request)	Deep-UV: 255nm / 150µW 265nm / 400µW 280nm / 600µW 310nm / 500µW 340nm / 350µW UV / Violet: 365nm / 250mW 385nm / 300mW 405nm / 250mW VIS: 455nm / 300mW 470nm / 300mW 505nm / 50mW 528nm / 100mW 590nm / 100mW 617nm / 300mW 625nm / 200mW IR: 850nm / 170mW 950nm / 150mW White: 5600K / 200mW
Free emission angle	120 - 130° (Deep-UV 10°)
Temperature control	active peltier cooling (TEC)
External modulation capabilities	up to 500kHz by analogue 0...5V signal and / or digital by TTL signal
Internal modulation capabilities	Up to 200kHz with programmable frequency and duty-cycle
Power setting resolution	internal: 12Bit external: analogue
Computer interface	RS-232 terminal communication, 57600 baud
Operation modes	1.) external analogue control (0...5V) for output power and additional external TTL signal for ON/OFF modulation 2.) internal power control with external TTL for ON/OFF modulation 3.) internal power control CW (continues wave) operation (no external signals necessary) 4.) internal power control + programmable frequency and duty-cycle for ON/OFF modulation (no external signals necessary) 5.) external power control (0...5V) for output power + programmable frequency and duty-cycle for ON/OFF modulation
Control interface	15-pin Sub-D connector
Dimensions (without fibre-coupling unit)	51 x 49 x 150mm (HxBxL).
Weight	350g
Supply voltage	9VDC-15VDC
Power consumption	27W max. < 1W in standby
Environmental temperature	0°C-45°C
Certifications	CE, UL/CSA on request
Special features	* Modular mechanical and electronic principle * Control-bus architecture for control of multiple LED units * Interlock function * Over-TEMP protection