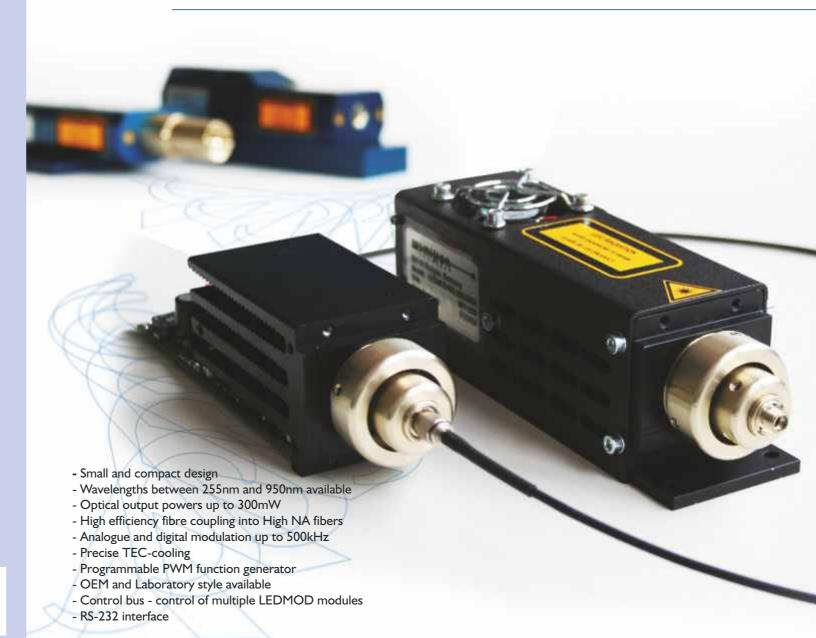




LEDMOD series



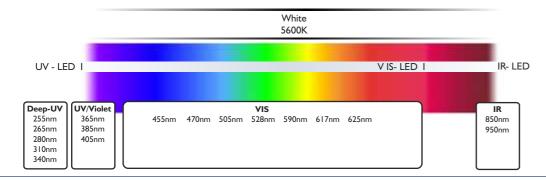
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LEDMOD OEM Series / LEDMOD LAB Series - TEC-cooled high power LED modules from 255nm to 950nm with optional fibre-coupling for OEM or laboratory use.

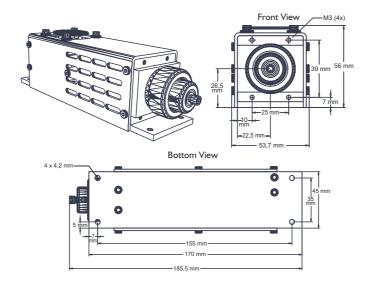
The temperature-stabilized, high-power LED modules of the LEDMOD series are intended for users in the industry, research and science sector. Applications in biotech, medical technology, microscopy, photocatalysis and fluorescence excitation are only some of the applications in which these laboratory light sources are employed. The modules are available in many wavelengths, from deep UV (255 nm) to the infrared range (950nm). The optional, highlyefficient fibre coupling, the integrated interface RS-232, the Windows™ compatible software for programming and control, and the diverse operating modes, make these modules flexible, compact and extremely long-lived sources of light, which up to now could not be realized with classical methods. The possibility of external analogue and digital modulation, the programmability of an internal frequency PWM with variable duty-cycle and the controllability over the serial interface, enable adaptation of the source of light to nearly every application. The high optical output powers (particularly in the UV range at 365nm, 385nm and 405nm) represent a long-lived alternative to UV discharge lamps. LEDMOD LED modules, with emission in the blue, green, yellow, red and infrared range, as well as a white light source, represent a genuine, wavelength-stable alternative source of light for halogen lamps. Reproducible results of measurement are thus guaranteed!



LEDMOD OEM

Front View 45 mm 45 mm 7,5 mm Top view 45 mm 45 mm 45 mm 45 mm 45 mm 45 mm

LEDMOD LAB



LEDMOD OEM / 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 455nm / 300mW 470nm / 300mW 505nm / 50mW 528nm / 100mW 590nm / 100mW 617nm / 300mW 625nm / 200mW 850nm / 170mW 950nm / 150mW

5600K / 200mW

Free space emission angle

Temperature control

External modulation capabilities

120 - 130° (Deep-UV 10°) active peltier cooling (TEC)

up to 500kHz by apalogue 0 5V signal

External modulation capabilities	up to 500kHz by analogue 05V 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	or external analogue control (05V) for output power and additional external TTL signal for ON/OFF modulation
	internal power control with external TTL for ON/OFF modulation
	internal power control CW (continuous wave) operation (no external signals necessary)
	4.) internal power control + programmable frequency and duty-cycle for ON/OFF modulation (no external signals necessary)
	 external power control (05V) for output power + programmable frequency and duty cycle for ON/OFF modulation
Control interface	15-pin Sub-D connector
Dimensions (without fibre coupling unit)	51x49x150mm (HxBxL)
Weight	350g
Supply voltage	9VDC-15VDC
Power consumption	27W max. < I W 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 * Remote control
Options	* High-efficiency fibre coupling into high-NA POF and fused silica fibres (fibre coupling efficiency is depending on wavelength and fibre diameter)

^{*} Deep UV 255-340 only available with free space emission