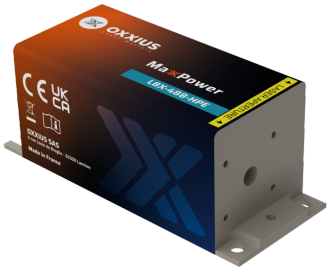
MaxxPower

By Oxxius

Product range	High-Power Diode Modules
Product name	MaxxPower 488 nm
Reference	LBX-488
Description 	The MaxxPower LBX-488 is a compact 488 nm laser source that exhibits the highest optical power over an industry-standard 100×40 mm footprint. Its robust design, complete with readily available safety features makes it well-suited for both laboratory and industrial use. This model is a trusted solution for illumination or wide-field microscopy. **Key features** • ±1.0 % long-term power stability; low optical noise • Modulation up to 1 MHz • Integrated control electronics Fully compatible with Oxxius MixxWave combiners for multi-mode fiber delivery in conjunction with other laser lines.

Product Variations

Part Number	Power
LBX-488-1000-HPE-PPA	1000 mW

Optical Characteristics

Emission wavelength	488 nm
Tolerance	(±5 nm tolerance)
Control modes	Automated power control (APC), Automated current control (ACC)
Optical noise	≤0.2 % rms, 10 Hz-20 MHz bandwidth
Spectral linewidth	≤2 nm
Analog modulation function - Rise / fall time	≤20ns
Analog modulation function - Bandwidth	≥1 MHz
Beam diameter, 1/e² level, 50mm from the beam aperture	2.2 x 1.2 mm
Beam divergence, 1/e² level full beam, far field	0.2 x 2.6 mrad

General Specifications

Supply voltage	9 V to 12 V
Operating temperature	10 °C to 50 °C
Storage temperature and humidity	0 °C to 60 °C
Warm up time	≤2 minutes
Interfaces	USB, RS-232, direct modulation inputs
Dimensions (laser head)	100x40x40 mm
Weight (laser head)	≤330 g
Controler dimensions	106x126x56 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	4
Warranty	24 months or 10000 hours, whichever occurs first

Options

Multimode fiber coupling
Heat management
Band-pass filter
OEM version

Oxxius has a policy of continuous product improvement. Specifications may change without notice.