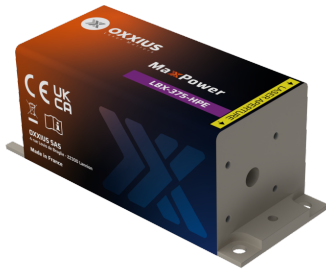


MaxxPower

By Oxxius

Product range	High-Power Diode Modules
Product name	MaxxPower 375 nm
Reference	LBX-375
Description	The MaxxPower LBX-375 is a compact 375 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 polymer-curing, lithography or wide-field microscopy. Key features • $\pm 1.0\%$ 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-375-200-HPE-PPA	200mW
LBX-375-400-HPE-PPA	400mW

Optical Characteristics

Emission wavelength	375 nm
Tolerance	(±5 nm tolerance)
Control modes	Automated power control (APC)
Optical noise	≤0.2 % rms, 10Hz-20MHz bandwidth
Spectral linewidth	≤2 nm
Analog modulation function - Rise / fall time	≤300 ns
Analog modulation function - Bandwidth	≥1 MHz
Beam diameter, 1/e² level, 50mm from the beam aperture	3.0 x 1.4 mm
Beam divergence, 1/e² level full beam, far field	1.4 x 2.2 mrad

General Specifications

Supply voltage	5 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	3B
Warranty	24 months or 5000 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.