

Gamme	High-Power Diode Modules
Title	MaxxPower 520 nm
Reference	LBX-520
Description	<p>The MaxxPower LBX-520 is a compact 520 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.</p> <p>Key features</p> <ul style="list-style-type: none"> • ±1.0% long-term power stability; low optical noise • Modulation up to 1 MHz • Integrated control electronics <p>Fully compatible with Oxxius MixxWave combiners for multi-mode fiber delivery in conjunction with other laser lines.</p>

Product Variations

Part Number	Puissance
LBX-520-800-HPE-PPA	800mW

Optical Characteristics

Emission wavelength	520 nm
Tolerance	(±5nm tolerance)
Control modes	Automated power control (APC), Automated current control (ACC)
Optical noise	≤ 0.2% rms, 10Hz-20MHz bandwidth
Spectral linewidth	≤ 2nm
Analog modulation function - Rise / fall time	≤ 200ns
Analog modulation function - Bandwidth	≥ 1MHz
Beam diameter, 1/e² level, 50mm from the beam aperture	2.7 x 0.8mm
Beam divergence, 1/e² level full beam, far field	0.2 x 2.6mrad

General Specifications

Supply voltage	9V to 12V
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
Controller 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

Option 1	Multimode fiber coupling
Option 2	Heat management
Option 3	Band-pass filter
Option 4	OEM version