

# MaxxPower

By Oxxius

<b>Gamme</b>	High-Power Diode Modules
<b>Title</b>	MaxxPower 520 nm
<b>Reference</b>	LBX-520
<b>Description</b>	<p>The MaxxPower LBX-520 is a compact 520 nm laser source that exhibits the highest optical power over an industry-standard 100x40 mm footprint. Its robust design, complete with readily available safety features makes it well-suited for both laboratory and industrial use.</p> <p>This model is a trusted solution for illumination or wide-field microscopy.</p> <p>Key features</p> <ul style="list-style-type: none"><li>• <math>\pm 1.0\%</math> long-term power stability; low optical noise</li><li>• Modulation up to 1 MHz</li><li>• Integrated control electronics</li></ul> <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

<b>Emission wavelength</b>	520 nm
<b>Tolerance</b>	( $\pm 5\text{nm}$ tolerance)
<b>Control modes</b>	Automated power control (APC), Automated current control (ACC)
<b>Optical noise</b>	? 0.2% rms, 10Hz-20MHz bandwidth
<b>Spectral linewidth</b>	? 2nm
<b>Analog modulation function - Rise / fall time</b>	? 200ns
<b>Analog modulation function - Bandwidth</b>	? 1MHz
<b>Beam diameter, 1/e<sup>2</sup> level, 50mm from the beam aperture</b>	2.7 x 0.8mm
<b>Beam divergence, 1/e<sup>2</sup> level full beam, far field</b>	0.2 x 2.6mrad

## General Specifications

<b>Supply voltage</b>	9V to 12V
<b>Operating temperature</b>	10°C to 50°C
<b>Storage temperature and humidity</b>	0°C to 60°C
<b>Warm up time</b>	?2 minutes
<b>Interfaces</b>	USB, RS-232, direct modulation inputs
<b>Dimensions (laser head)</b>	100x40x40 mm
<b>Weight (laser head)</b>	?330 g
<b>Controller dimensions</b>	106x126x56 mm

<b>Compliance</b>	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
<b>Laser class</b>	4
<b>Warranty</b>	24 months or 10000 hours, whichever occurs first

## Options

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