

# FlexxRay

By Oxxius

<b>Product range</b>	CW & Modulated Lasers
<b>Product name</b>	FlexxRay 532 nm (adjustable power)
<b>Reference</b>	LCX-532L (adjustable power)
<b>Description</b>	<p>The FlexxRay LBX-532 is a compact 532nm laser source delivering one of the highest power available on the market over a beam of superior quality. Its robust design, complete with readily available safety features makes it well-suited for both laboratory and industrial use. Key features</p> <ul style="list-style-type: none"> <li>• TEM<sub>00</sub> spatial mode</li> <li>• ±1.0% long-term power stability</li> <li>• User-adjustable optical power</li> <li>• Integrated control electronics Fully compatible with Oxxius MixxWave combiners for single-mode fiber delivery alongside other laser lines.</li> </ul>



## Product Variations

Part Number	Power
LCX-532L-50-CSB-PPA	50mW
LCX-532L-100-CSB-PPA	100mW
LCX-532L-150-CSB-PPA	150mW
LCX-532L-200-CSB-PPA	200mW
L1C-532L-300-CSB-MPA	300mW
L1C+-532L-500-CSB-MPA	500mW
L1C+-532L-800-CSB-MPA	800mW

## Optical Characteristics

<b>Emission wavelength</b>	532 nm
<b>Tolerance</b>	(±0.3nm tolerance)
<b>Control modes</b>	Automated power control, fixed or adjustable power level
<b>Optical noise</b>	≤ 0.2% rms (up to 300mW) ≤ 0.5% rms (500mW and above), 10Hz-20MHz bandwidth
<b>Spectral linewidth</b>	≤ 0.1nm
<b>Beam diameter, 1/e<sup>2</sup> level, 50mm from the beam aperture</b>	0.7 ±0.15mm
<b>Beam divergence, 1/e<sup>2</sup> level full beam, far field</b>	≤ 1.4mrad
<b>Beam quality factor M<sup>2</sup></b>	1.1
<b>Beam circularity, far field</b>	≥ 90%
<b>Polarization state</b>	Linear, vertical, extinction ratio ≥ 20dB

## General Specifications

<b>Power consumption</b>	20 W max.
<b>Supply voltage</b>	5V to 12V (up to 200mW) 7V to 12V (300mW and above)
<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>	≤10 minutes
<b>Interfaces</b>	USB, RS-232
<b>Dimensions (laser head)</b>	100x40x32 mm (up to 200mW) 154x62x64 mm (300mW) 208x62x64 mm (500mW and above)
<b>Weight (laser head)</b>	≤250 g (up to 200mW) ≤1150 g (300mW) ≤1250 g (500mW and above)
<b>Controller dimensions</b>	109x84x30 mm
<b>Compliance</b>	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
<b>Laser class</b>	3B, 4
<b>Warranty</b>	24 months or 10000 hours, whichever occurs first

## Options

Single-mode fiber coupling
Multimode fiber coupling
Heat management
Electromechanical shutter
High rate modulation
Optical Isolator
OEM version

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