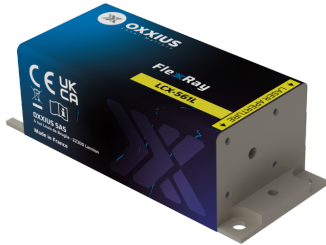


# FlexxRay

By Oxxius

<b>Product range</b>	CW & Modulated Lasers
<b>Product name</b>	FlexxRay 561 nm (adjustable power)
<b>Reference</b>	LCX-561L-PPA (adjustable power)
<b>Description</b>	<p>The FlexxRay LBX-561 is a compact 561 nm 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. <b>Key features</b></p> <ul style="list-style-type: none"> <li>• TEM<sub>00</sub> spatial mode</li> <li>• ±0.5 % 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-561L-50-CSB-PPA	50 mW
LCX-561L-100-CSB-PPA	100 mW
LCX-561L-150-CSB-PPA	150 mW
L1C-561L-200-CSB-PPA	200 mW
L1C+-561L-300-CSB-MPA	300 mW
L1C+-561L-500-CSB-MPA	500 mW

## Optical Characteristics

<b>Emission wavelength</b>	561 nm
<b>Tolerance</b>	(±0.4 nm tolerance)
<b>Power stability over 8 hours, temperature within ±3°C</b>	±0.5 %
<b>Control modes</b>	Automated power control, fixed or adjustable power level
<b>Optical noise</b>	≤0.5 % rms, 10 Hz-20 MHz bandwidth
<b>Spectral linewidth</b>	≤0.1 nm
<b>Beam diameter, 1/e<sup>2</sup> level, 50mm from the beam aperture</b>	0.7 ±0.15 mm
<b>Beam divergence, 1/e<sup>2</sup> level full beam, far field</b>	≤1.4 mrad
<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 ≥20 dB

## General Specifications

<b>Power consumption</b>	20 W max.
<b>Supply voltage</b>	5 V to 12 V (up to 200 mW) 7 V to 12 V (300 mW 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 200 mW) 208x62x64 mm (300 mW and above)
<b>Weight (laser head)</b>	≤250 g (up to 200 mW) ≤1250 g (300 mW and above)
<b>Controler dimensions</b>	109x84x30 mm
<b>Compliance</b>	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
<b>Laser class</b>	 
<b>Warranty</b>	24 months or 10000 hours, whichever occurs first

## Options

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

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