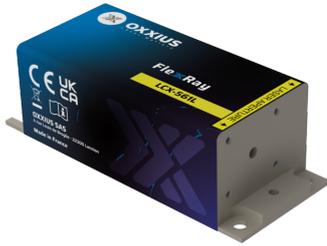


# FlexxRay

By Oxxius

<b>Product range</b>	CW & Modulated Lasers
<b>Product name</b>	FlexxRay 561 nm (fixed power)
<b>Reference</b>	LCX-561L-PPF (fixed 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>• ±1.0 % long-term power stability</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-PPF	50 mW
LCX-561L-100-CSB-PPF	100 mW
LCX-561L-150-CSB-PPF	150 mW
LCX-561L-200-CSB-PPF	200 mW
LPX-561L-300-CSB-PPF	300 mW
LPX-561L-500-CSB-PPF	500 mW

## Optical Characteristics

<b>Emission wavelength</b>	561 nm
<b>Tolerance</b>	±0.4 nm
<b>Power stability over 8 hours, temperature within ±3°C</b>	±1 %
<b>Control modes</b>	Automated power control, fixed or adjustable power level
<b>Optical noise</b>	≤ 0.2 % rms, 10 Hz-20 MHz bandwidth
<b>Spectral linewidth</b>	≤ 0.1nm
<b>Beam diameter, 1/e<sup>2</sup> level, 50mm from the beam aperture</b>	0.7 ±0.1 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
<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 300 mW) 120x40x32 mm (500 mW and above)
<b>Weight (laser head)</b>	≤300 g
<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>	3B, 4
<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.*