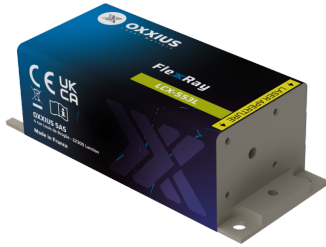


# FlexxRay

By Oxxius

<b>Product range</b>	CW & Modulated Lasers
<b>Product name</b>	FlexxRay 553 nm (fixed power)
<b>Reference</b>	LCX-553L (fixed power)
<b>Description</b>	<p>The FlexxRay LBX-553 is a compact 553nm 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</li> <li>• 100×40 mm industry-standard footprint Fully compatible with Oxxius MixxWave combiners for single-mode fiber delivery alongside other laser lines.</li> </ul>




## Product Variations

Part Number	Power
LCX-553L-50-CSB-PPF	50 mW
LCX-553L-100-CSB-PPF	100 mW
LCX-553L-200-CSB-PPF	200 mW

## Optical Characteristics

<b>Emission wavelength</b>	553 nm
<b>Tolerance</b>	(±0.4 nm tolerance)
<b>Power stability over 8 hours, temperature within ±3°C</b>	±1.0 %
<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 ±0.1 mm
<b>Beam divergence, 1/e<sup>2</sup> level full beam, far field</b>	≤1 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
<b>Weight (laser head)</b>	≤250 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>	 <p>The image shows a standard laser safety label for Class 3B. It features a yellow triangle with a black laser beam symbol on the left. In the center, there is a black box with the text 'CLASS 3B LASER PRODUCT' in white. To the right of this box is a red circle with a diagonal slash over a black laser beam symbol. Above the central box, the word 'WARNING' is written in white on a black background. Below the entire label, a yellow banner contains the text 'AVOID EXPOSURE TO BEAM' in black.</p>
<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.*