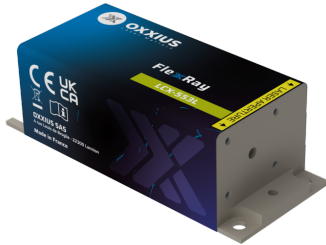


FlexxRay

By Oxxius

Product range	CW & Modulated Lasers
Product name	FlexxRay 553 nm (adjustable power)
Reference	LCX-553L (adjustable power)
Description	<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. Key features</p> <ul style="list-style-type: none"> • TEM₀₀ spatial mode • ±1.0 % long-term power stability • User-adjustable optical power • Integrated control electronics Fully compatible with Oxxius MixxWave combiners for single-mode fiber delivery alongside other laser lines.




Product Variations

Part Number	Power
LCX-553L-50-CSB-PPA	50 mW
LCX-553L-100-CSB-PPA	100 mW
L1C-553L-200-CSB-MPA	200 mW

Optical Characteristics

Emission wavelength	553 nm
Tolerance	(±0.4 nm tolerance)
Power stability over 8 hours, temperature within ±3°C	±1.0 %
Control modes	Automated power control, fixed or adjustable power level
Optical noise	≤0.5 % rms, 10 Hz-20 MHz bandwidth
Spectral linewidth	≤0.1 nm
Beam diameter, 1/e² level, 50mm from the beam aperture	0.7 ±0.1 mm
Beam divergence, 1/e² level full beam, far field	≤1 mrad
Beam quality factor M²	1.1
Beam circularity, far field	≥90 %
Polarization state	Linear, vertical, extinction ratio ≥20 dB

General Specifications

Power consumption	20 W max.
Supply voltage	5 V to 12 V (up to 100 mW) 7V to 12V (200 mW)
Operating temperature	10 °C to 50 °C
Storage temperature and humidity	0 °C to 60 °C
Warm up time	≤10 minutes
Interfaces	USB, RS-232
Dimensions (laser head)	100x40x32 mm (up to 100 mW) 154x62x64 mm (200 mW)
Weight (laser head)	≤250 g (up to 100 mW) ≤1150 g (200 mW)
Controler dimensions	109x84x30 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	 <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, a black box contains the text 'WARNING CLASS 3B LASER PRODUCT'. On the right, there is a red circle with a diagonal slash over a laser beam symbol. At the bottom, a yellow bar contains the text 'AVOID EXPOSURE TO BEAM'.</p>
Warranty	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.