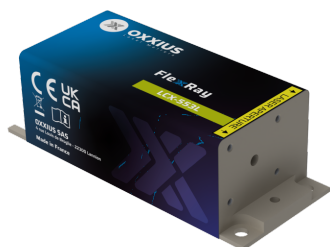


FlexxRay

By Oxxius

Product range	CW & Modulated Lasers
Product name	FlexxRay 553 nm (adjustable power)
Reference	LCX-553L (adjustable power)
Description	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 • TEM₀₀ spatial mode • $\pm 1.0\%$ 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	50mW
LCX-553L-100-CSB-PPA	100mW
L1C-553L-200-CSB-MPA	200mW

Optical Characteristics

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

General Specifications

Power consumption	20 W max.
Supply voltage	5V to 12V (up to 100mW)7V to 12V (200mW)
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 100mW)154x62x64 mm (200mW)
Weight (laser head)	≤ 250 g (up to 100mW) ≤ 1150 g (200mW)
Controler dimensions	109x84x30 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	
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.