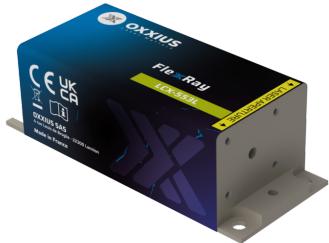


FlexRay

By Oxxius

Gamme	CW & Modulated Lasers
Title	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.</p> <p>Key features</p> <ul style="list-style-type: none">• TEM?? spatial mode• $\pm 1.0\%$ long-term power stability• User-adjustable optical power• Integrated control electronics <p>Fully compatible with Oxxius MixxWave combiners for single-mode fiber delivery alongside other laser lines.</p>



Product Variations

Part Number	Puissance
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	($\pm 0.4\text{nm}$ tolerance)
Control modes	Automated power control, fixed or adjustable power level
Optical noise	? 0.5% rms, 10Hz-20MHz bandwidth
Spectral linewidth	? 0.1nm
Beam diameter, $1/e^2$ level, 50mm from the beam aperture	0.7 $\pm 0.1\text{mm}$
Beam divergence, $1/e^2$ level full beam, far field	? 1mrad
Beam quality factor M^2	1.1
Beam circularity, far field	? 90%
Polarization state	Linear, vertical, extinction ratio ? 20dB

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)
Controller dimensions	109x84x30 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	3B
Warranty	24 months or 10000 hours, whichever occurs first

Options

Option 1	Single-mode fiber coupling
Option 2	Multimode fiber coupling
Option 3	Heat management
Option 4	High rate modulation
Option 5	Optical Isolator
Option 6	OEM version