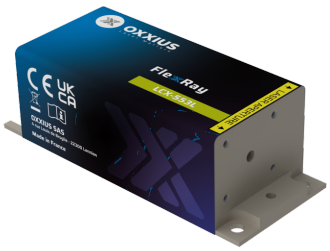
FlexxRay
By Oxxius

Gamme	CW & Modulated Lasers
Title	FlexxRay 553 nm (fixed power)
Reference	LCX-553L (fixed 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 • TEM_{00} spatial mode • ±1.0% long-term power stability • Integrated control electronics • 100×40 mm industry-standard footprint Fully compatible with Oxxius MixxWave combiners for single-mode fiber delivery alongside other laser lines.



Product Variations

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

Optical Characteristics

Emission wavelength	553 nm
Tolerance	(±0.4nm 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/e² level, 50mm from the beam aperture	0.7 ±0.1mm
Beam divergence, 1/e² level full beam, far field	≤ 1mrad
Beam quality factor M²	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
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
Weight (laser head)	≤250 g
Controler 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