

FlexxRay

By Oxxius

Gamme	CW & Modulated Lasers
Title	FlexxRay 561 nm (fixed power)
Reference	LCX-561L-PPF (fixed power)
	<p>The FlexxRay LBX-561 is a compact 561nm 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>
Description	<p>Key features</p> <ul style="list-style-type: none">• TEM₀₀ spatial mode• ±1.0% long-term power stability• 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-561L-50-CSB-PPF	50mW
LCX-561L-100-CSB-PPF	100mW
LCX-561L-150-CSB-PPF	150mW
LCX-561L-200-CSB-PPF	200mW
LPX-561L-300-CSB-PPF	300mW
LPX-561L-500-CSB-PPF	500mW

Optical Characteristics

Emission wavelength	561 nm
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Tolerance	($\pm 0.4\text{nm}$ tolerance)
Control modes	Automated power control, fixed or adjustable power level
Optical noise	$\leq 0.2\%$ rms, 10Hz-20MHz bandwidth
Spectral linewidth	$\leq 0.1\text{nm}$
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	$\leq 1.4\text{mrad}$
Beam quality factor M^2	≤ 1.1
Beam circularity, far field	$\geq 90\%$
Polarization state	Linear, vertical, extinction ratio $\geq 20\text{dB}$

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 (up to 300mW) 120x40x32 mm (500mW and above)
Weight (laser head)	≤ 300 g
Controller dimensions	109x84x30 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	3B, 4
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