

Gamme	CW & Modulated Lasers
Title	FlexxRay 607 nm
Reference	LPX-607L
Description	The FlexxRay LBX-607 is a compact 607nm laser source delivering one of the highest power available on the market over a beam of superior quality, and featuring an analogue modulation function. Its integrated control electronics and robust design suit both laboratory and industrial use. Performance, stability, and versatility make it a trusted solution for STED microscopy, optogenetics and fluorescence imaging. Key features • TEM₀₀ spatial mode • ±1.0% long-term power stability • Modulation up to 1.5 kHz • Integrated control electronics Fully compatible with Oxxius MixxWave combiners for single-mode fiber delivery alongside other laser lines.



Product Variations

Part Number	Puissance
LPX-607L-100-CSB-PPA	100mW
LPX-607L-200-CSB-PPA	200mW

Optical Characteristics

Emission wavelength	607 nm
Tolerance	(±1nm tolerance)
Control modes	Automated power control
Optical noise	? 2.0% rms, 10Hz-100kHz bandwidth
Spectral linewidth	? 0.5nm
Digital modulation function - Rise / fall time	? 20µs
Digital modulation function - Bandwidth	? 1.5kHz
Analog modulation function - Rise / fall time	? 20µs
Analog modulation function - Bandwidth	? 1.5kHz

Beam diameter, 1/e² level, 50mm from the beam aperture	0.7 ±0.1mm
Beam divergence, 1/e² level full beam, far field	? 1.6mrad
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	?5 minutes
Interfaces	USB, RS-232, direct modulation inputs
Dimensions (laser head)	120x40x32 mm
Weight (laser head)	250 g
Controler dimensions	106x126x56 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