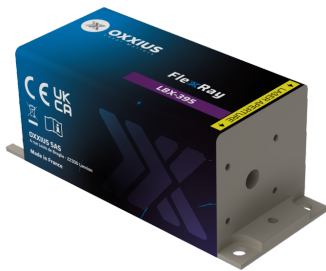


FlexxRay

By Oxxius

Product range	CW & Modulated Lasers
Product name	FlexxRay 395 nm
Reference	LBX-395
Description	The FlexxRay LBX-395 is a compact 395 nm laser source delivering one of the highest power available on the market over a beam of superior quality, and featuring a high-speed modulation. Its integrated control electronics and robust design suit both laboratory and industrial use. Performance, stability, and versatility make it a trusted solution for atom cooling, lithography or polymer curing. Key features • TEM₀₀ spatial mode • ±0.5 % long-term power stability; low optical noise • Modulation up to 150 MHz • 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	Power
LBX-395-120-CSB-PPA	120 mW

Optical Characteristics

Emission wavelength	395 nm
Tolerance	(±5 nm tolerance)
Power stability over 8 hours, temperature within ±3°C	±0.5 %
Control modes	Automated power control, Automated current control
Optical noise	≤0.2 % rms, 10 Hz-20 MHz bandwidth
Spectral linewidth	≤1.5 nm
Digital modulation function - Rise / fall time	≤4 ns
Digital modulation function - Bandwidth	≥150 MHz
Analog modulation function - Rise / fall time	≤150 ns
Analog modulation function - Bandwidth	≥2.5 MHz
Beam diameter, 1/e² level, 50mm from the beam aperture	0.8 ±0.2 mm
Beam divergence, 1/e² level full beam, far field	≤1.1 mrad
Beam quality factor M²	≤1.25
Beam circularity, far field	≥90 %
Polarization state	Linear, vertical, extinction ratio ≥20 dB

General Specifications

Power consumption	2W typ. / 10W max.
Supply voltage	5 V to 12 V
Operating temperature	10 °C to 50 °C
Storage temperature and humidity	0 °C to 60 °C
Warm up time	≤2 minutes
Interfaces	USB, RS-232, direct modulation inputs
Dimensions (laser head)	100x40x40 mm
Weight (laser head)	≤330 g
Controler dimensions	106x126x56 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	
Warranty	24 months or 5000 hours, whichever occurs first

Options

Single-mode fiber coupling
Multimode fiber coupling
Heat management
Electromechanical shutter
Band-pass filter
OEM version

Oxxius has a policy of continuous product improvement. Specifications may change without notice.