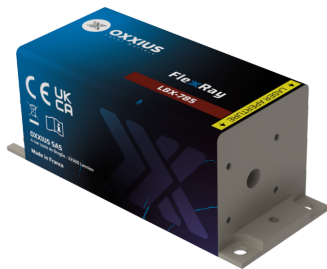


Gamme	CW & Modulated Lasers
Title	FlexxRay 785 nm
Reference	LBX-785
Description	The FlexxRay LBX-785 is a compact 785nm laser source delivering one of the highest power available on the market over a beam of superior quality, and featuring a high-speed modulation. Its integrated control electronics and robust design suit both laboratory and industrial use. Performance, stability, and versatility make it a trusted solution for fluorescence-based microscopy, flow cytometry and illumination. Key features • TEM₀₀ spatial mode • $\pm 0.5\%$ 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	Puissance
LBX-785-100-CSB-PPA	100mW
LBX-785-250-CSB-PPA	250mW
LBX-785-350-CSB-PPA	350mW

Optical Characteristics

Emission wavelength	785 nm
Tolerance	(± 10 nm tolerance)
Control modes	Automated current control
Optical noise	? 0.2% rms, 10Hz-20MHz bandwidth
Spectral linewidth	? 1.2nm
Digital modulation function - Rise / fall time	? 2ns
Digital modulation function - Bandwidth	? 150MHz
Analog modulation function - Rise / fall time	? 150ns

Analog modulation function - Bandwidth	? 3MHz
Beam diameter, 1/e² level, 50mm from the beam aperture	0.7±0.2mm
Beam divergence, 1/e² level full beam, far field	? 2.5mrad
Beam quality factor M²	? 1.25
Beam circularity, far field	? 90%
Polarization state	Linear, vertical, extinction ratio ? 20dB (except for the LBX-735-350)

General Specifications

Power consumption	2 W typ. / 10 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	?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	3B
Warranty	24 months or 5000 hours, whichever occurs first

Options

Option 1	Single-mode fiber coupling
Option 2	Multimode fiber coupling
Option 3	Heat management
Option 4	Electromechanical shutter
Option 5	Band-pass filter
Option 6	OEM version