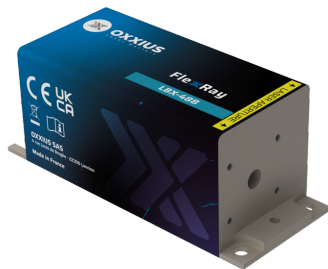


Gamme	CW & Modulated Lasers
Title	FlexxRay 488 nm
Reference	LBX-488
Description	<p>The FlexxRay LBX-488 is a compact 488nm laser source delivering one of the highest power available on the market over a beam of superior quality, and featuring a high-speed modulation. Its integrated control electronics 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.</p> <p>Key features</p> <ul style="list-style-type: none"> • 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 <p>Fully compatible with Oxxius MixxWave combiners for single-mode fiber delivery alongside other laser lines.</p>



Product Variations

Part Number	Puissance
LBX-488-40-CSB-PPA	40mW
LBX-488-60-CSB-PPA	60mW
LBX-488-100-CSB-PPA	100mW
LBX-488-200-CSB-PPA	200mW
LBX-488-300-CSB-PPA	300mW

Optical Characteristics

Emission wavelength	488 nm
Tolerance	(±5nm tolerance)
Control modes	Automated power control, Automated current control
Optical noise	≤ 0.2% rms, 10Hz-20MHz bandwidth
Spectral linewidth	≤ 2nm
Digital modulation function - Rise / fall time	≤ 2ns
Digital modulation function - Bandwidth	≥ 150MHz
Analog modulation function - Rise / fall time	≤ 150ns
Analog modulation function - Bandwidth	≥ 2.5MHz
Beam diameter, 1/e² level, 50mm from the beam aperture	0.6 ±0.2mm
Beam divergence, 1/e² level full beam, far field	≤ 1.6mrad
Beam quality factor M²	≤ 1.25
Beam circularity, far field	≥ 90%
Polarization state	Linear, vertical, extinction ratio ≥ 20dB

General Specifications

Power consumption	10W 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
Controller 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	Electromechanical shutter
Option 5	Band-pass filter
Option 6	OEM version