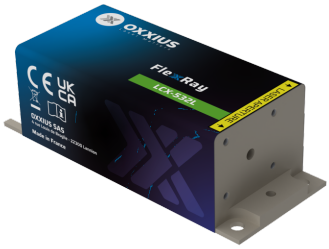
OXXIUS
Laser Matters

# FlexxRay
By Oxxius

| | |
|---|---|
| **Product range** | CW & Modulated Lasers |
| **Product name** | FlexxRay 532 nm (fixed power) |
| **Reference** | LCX-532L (fixed power) |
| **Description**  | The FlexxRay LCX-532L is a compact 532nm 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.<br>**Key features**<br>• $TEM_{00}$ spatial mode<br>• ±1.0 % long-term power stability<br>• Integrated control electronics<br>Fully compatible with Oxxius MixxWave combiners for single-mode fiber delivery alongside other laser lines. |

## Product Variations

| Part Number | Power |
|---|---|
| LCX-532L-50-CSB-PPF | 50 mW |
| LCX-532L-100-CSB-PPF | 100 mW |
| LCX-532L-150-CSB-PPF | 150 mW |
| LCX-532L-200-CSB-PPF | 200 mW |
| LCX-532L-300-CSB-PPF | 300 mW |
| LPX-532L-500-CSB-PPF | 500 mW |
| LPX-532L-800-CSB-PPF | 800 mW |

## Optical Characteristics

| | |
|---|---|
| **Emission wavelength** | 532 nm |
| **Tolerance** | (±0.3 nm tolerance) |
| **Power stability over 8 hours, temperature within ±3°C** | ±1.0 % |
| **Control modes** | Automated power control, fixed or adjustable power level |
| **Optical noise** | ≤0.2 % rms, 10 Hz-20 MHz bandwidth |
| **Spectral linewidth** | ≤0.1 nm |
| **Beam diameter, 1/e² level, 50mm from the beam aperture** | 0.7 ±0.mm |
| **Beam divergence, 1/e² level full beam, far field** | ≤1.4 mrad |
| **Beam quality factor M²** | 1.1 |
| **Beam circularity, far field** | ≥90 % |
| **Polarization state** | Linear, vertical, extinction ratio ≥20 dB |

## General Specifications

| | |
|---|---|
| **Power consumption** | 20 W 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** | ≤10 minutes |
| **Interfaces** | USB, RS-232 |
| **Dimensions (laser head)** | 100x40x32 mm (up to 300 mW) 120x40x32 mm (500 mW and above) |
| **Weight (laser head)** | ≤300 g |
| **Controler dimensions** | 109x84x30 mm |
| **Compliance** | CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11 |
| **Laser class** | |
| **Warranty** | 24 months or 10000 hours, whichever occurs first |

# Options

| |
|---|
| Single-mode fiber coupling |
| Multimode fiber coupling |
| Heat management |
| High rate modulation |
| Optical Isolator |
| OEM version |

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