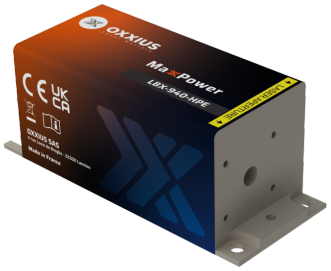
MaxxPower

By Oxxius

Product range	High-Power Diode Modules
Product name	MaxxPower 940 nm
Reference	LBX-940
Description 	The MaxxPower LBX-940 is a compact 940 nm laser source that exhibits the highest optical power over an industry-standard 100×40 mm footprint. Its robust design, complete with readily available safety features makes it well-suited for both laboratory and industrial use. This model is a trusted solution for illumination or optical pumping. **Key features** • ±1.0 % long-term power stability; low optical noise • Modulation up to 1 MHz • Integrated control electronics Fully compatible with Oxxius MixxWave combiners for multi-mode fiber delivery in conjunction with other laser lines.

Product Variations

Part Number	Power
LBX-940-800-HPE-PPA	800 mW

Optical Characteristics

Emission wavelength	940 nm
Tolerance	(±5 nm tolerance)
Control modes	Automated power control (APC), Automated current control (ACC)
Optical noise	≤0.2 % rms, 10 Hz-20 MHz bandwidth
Spectral linewidth	≤2 nm
Analog modulation function - Rise / fall time	≤200 ns
Analog modulation function - Bandwidth	≥1 MHz
Beam diameter, 1/e² level, 50mm from the beam aperture	1.9 x 3.8 mm
Beam divergence, 1/e² level full beam, far field	0.3 x 15 mrad

General Specifications

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	4
Warranty	24 months or 5000 hours, whichever occurs first

Options

Multimode fiber coupling
Heat management
OEM version

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