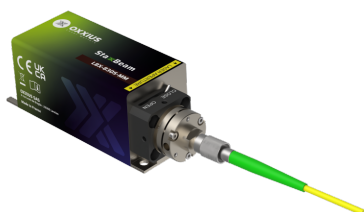


StaXXBeam

By Oxxius

Product range	Single Frequency Lasers
Product name	StaxxBeam 830 nm (pigtailed)
Reference	LBX-830S pigtailed
Description	The StaxxBeam 830 is a compact and powerful pigtailed 830 nm laser source that delivers an powerful, narrow linewidth emission over a multimode beam. Its robust design, complete with readily available safety features makes it well-suited for both laboratory and industrial use. Its proven performance, stability, and versatility make it a trusted solution for laser Raman spectroscopy. Key features: • Single frequency emission, ≤ 100 MHz linewidth • ≤ 10 pm wavelength stability • ± 1.0 % long-term power stability; low optical noise • Integrated control electronics • Multimode fiber 105/125 μm - FC/APC - 1 m



Product Variations

Part Number	Power
LBX-830S-500-MM-PPA	500 mW

Optical Characteristics

Emission wavelength	830 nm
Tolerance	0.5 nm
Power stability over 8 hours, temperature within $\pm 3^{\circ}\text{C}$	$\pm 1 \%$
Control modes	Automated current control
Optical noise	$\leq 0.2 \%$ rms, 10 Hz-20 MHz bandwidth
Spectral linewidth	$\leq 70 \text{ pm}$
Wavelength stability over 8 hours, temperature within $\pm 3^{\circ}\text{C}$	$\leq 10 \text{ pm}$
Wavelength drift over consecutive on/off cycles, temperature within $\pm 3^{\circ}\text{C}$	$\leq 10 \text{ pm}$
Coherence length	N/A
Side mode suppression ratio, +/- 0.5nm from the main peak	$\geq 30 \text{ dB}$
Side mode suppression ratio, +/- 5nm from the main peak	$\geq 40 \text{ dB}$

General Specifications

Power consumption	10 W max.
Supply voltage	5 V to 12 V
Operating temperature	20 $^{\circ}\text{C}$ to 35 $^{\circ}\text{C}$
Storage temperature and humidity	0 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$
Warm up time	≤ 2 minutes
Interfaces	USB, RS-232, direct modulation inputs
Dimensions (laser head)	100x40x40 mm
Weight (laser head)	$\leq 330 \text{ g}$
Controler dimensions	106x126x56 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	3B, 4
Warranty	24 months or 5000 hours, whichever occurs first

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