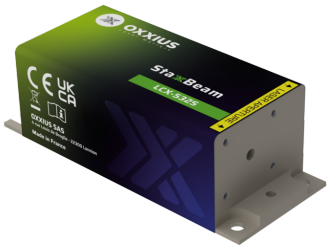
StaxBeam
By Oxxius

Gamme	Single Frequency Lasers
Title	StaxxBeam 532 nm (fixed power)
Reference	LCX-532S (fixed power)
Description	The StaxxBeam 532 is a compact and powerful 532 nm laser source that delivers a narrow linewidth emission and a spectrum of outstanding purity. 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 Doppler anemometry, Raman and Brillouin spectroscopy, interferometry, zeta-potential measurements, and other applications. Key features • Single frequency emission, ? 1 MHz linewidth • ? 1pm wavelength stability • TEM?? spatial mode • ±1.0% long-term power stability; low optical noise • Integrated control electronics Fully compatible with Oxxius' AOM option, or with MixxWave combiners, in combination with other laser lines.



Product Variations

Part Number	Puissance
LCX-532S-50-CSB-PPF	50mW
LCX-532S-100-CSB-PPF	100mW
LCX-532S-150-CSB-PPF	150mW
LCX-532S-200-CSB-PPF	200mW
LCX-532S-300-CSB-PPF	300mW
LPX-532S-500-CSB-PPF	500mW
LPX-532S-800-CSB-PPF	800mW

Optical Characteristics

Emission wavelength	532 nm
Tolerance	(±0.3nm tolerance)
Control modes	Automated power control, fixed or adjustable power level

Optical noise	? 0.2% rms, 10Hz-20MHz bandwidth
Spectral linewidth	? 1nm
Wavelength stability over 8 hours, temperature within ±3°C	? 1pm
Wavelength drift over consecutive on/off cycles, temperature within ±3°C	? 1pm
Coherence length	? 100 m
Side mode suppression ratio, +/-0.5nm from the main peak	? 30 dB
Side mode suppression ratio, +/-5nm from the main peak	? 60 dB typ.
Beam diameter, 1/e² level, 50mm from the beam aperture	0.7 ±0.1mm (±0.15mm for 500mW and above)
Beam divergence, 1/e² level full beam, far field	? 1.4mrad
Beam quality factor M²	1.1
Beam circularity, far field	? 90%
Polarization state	Linear, vertical,extinction ratio ? 20dB

General Specifications

Power consumption	20 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	?10 minutes
Interfaces	USB, RS-232, direct modulation inputs
Dimensions (laser head)	100x40x32 mm
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	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	High rate modulation
Option 5	Optical Isolator
Option 6	OEM version