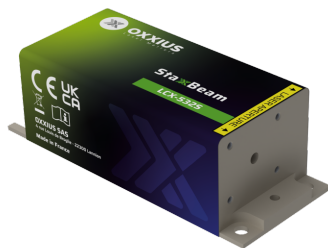


Gamme	Single Frequency Lasers
Title	StaxxBeam 532 nm (adjustable power)
Reference	L1C-532S (adjustable power)
Description	The StaxxBeam 532 is a compact and powerful 532 nm laser source that delivers a narrow linewidth emission and a spectrum of outstanding purity. Its robust design, complete with readily 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 • ≤ 1 pm wavelength stability • 0%-100% user-adjustable power • TEM₀₀ spatial mode • $\pm 1.0\%$ 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
L1C-532S-50-CSB-MPA	500mW
L1C-532S-100-CSB-MPA	100mW
L1C-532S-150-CSB-MPA	150mW

Part Number	Puissance
L1C-532S-200-CSB-MPA	200mW
L1C-532S-300-CSB-MPA	300mW
L1C+-532S-500-CSB-MPA	500mW
L1C+-532S-800-CSB-MPA	800mW

Optical Characteristics

Emission wavelength	532 nm
Tolerance	(± 0.5 nm tolerance)
Control modes	Automated power control, fixed or adjustable power level
Optical noise	$\leq 0.5\%$ rms, 10Hz-20MHz bandwidth
Spectral linewidth	≤ 1 nm
Wavelength stability over 8 hours, temperature within $\pm 3^{\circ}\text{C}$	≤ 1 pm
Wavelength drift over consecutive on/off cycles, temperature within $\pm 3^{\circ}\text{C}$	≤ 1 pm
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, $1/e^2$ level, 50mm from the beam aperture	0.7 ± 0.1 mm (± 0.15 mm for 500mW and above)
Beam divergence, $1/e^2$ level full beam, far field	≤ 1.4 mrad
Beam quality factor M^2	1.1
Beam circularity, far field	$\geq 90\%$
Polarization state	Linear, vertical,extinction ratio ≥ 20 dB

General Specifications

Power consumption	20 W max.
Supply voltage	7V 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)	120x40x32 mm
Weight (laser head)	≤ 1150 g (up to 300mW) ≤ 1250 g (500mW and above)

Controler dimensions	109x84x30 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	4
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