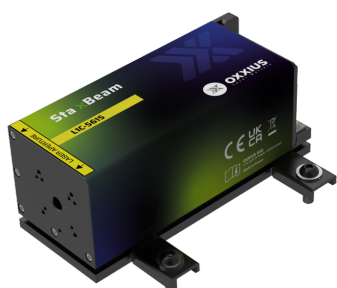


StaxxBeam

By Oxxius

Product range	Single Frequency Lasers
Product name	StaxxBeam 561 nm (adjustable power)
Reference	L1C-561S (adjustable power)
Description	The StaxxBeam 561 is a compact and powerful 561 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, Brillouin spectroscopy, structured illumination microscopy and other applications. Key features: • Single frequency emission, ≤ 1 MHz linewidth • ≤ 1 pm wavelength stability • 0%-100% user-adjustable power • TEM₀₀ 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.



Caption: L1C-561S

Product Variations

Part Number	Power
L1C-561S-50-CSB-MPA	50 mW
L1C-561S-100-CSB-MPA	100 mW
L1C-561S-150-CSB-MPA	150 mW
L1C-561S-200-CSB-MPA	200 mW
L1C+-561S-300-CSB-MPA	300 mW
L1C+-561S-500-CSB-MPA	500 mW

Optical Characteristics

Emission wavelength	561 nm
Tolerance	±0.4 nm
Power stability over 8 hours, temperature within ±3°C	±1 %
Control modes	Automated power control, fixed or adjustable power level
Optical noise	≤ 0.5 % rms, 10 Hz-20 MHz bandwidth
Spectral linewidth	1 MHz
Wavelength stability over 8 hours, temperature within ±3°C	≤ 1 pm
Wavelength drift over consecutive on/off cycles, temperature within ±3°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/e² level, 50mm from the beam aperture	0.7 ±0.1 mm (±0.15 mm for 300 mW and above)
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 ≥ 20dB

General Specifications

Power consumption	20 W max.
Supply voltage	7 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, direct modulation inputs
Dimensions (laser head)	120x40x32 mm
Weight (laser head)	≤ 1150 g (up to 200 mW) ; ≤ 1250 g (300 mW)
Controller dimensions	109x84x30 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	3B, 4
Warranty	24 months or 10.000 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.