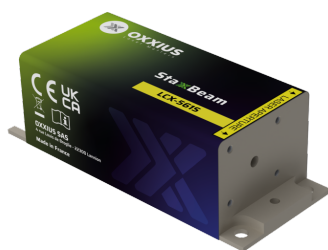


<b>Gamme</b>	Single Frequency Lasers
<b>Title</b>	StaxxBeam 561 nm (adjustable power)
<b>Reference</b>	L1C-561S (adjustable power)
<b>Description</b>	<p>The StaxxBeam 561 is a compact and powerful 561 nm laser source that delivers a narrow linewidth emission and a spectrum of outstanding purity. Its robust design, complete with readily available safety features makes it well-suited for both laboratory and industrial use.</p> <p>Its proven performance, stability, and versatility make it a trusted solution for laser Doppler anemometry, Brillouin spectroscopy, structured illumination microscopy and other applications.</p> <p>Key features</p> <ul style="list-style-type: none"> <li>• Single frequency emission, <math>\leq 1</math> MHz linewidth</li> <li>• <math>\leq 1</math> pm wavelength stability</li> <li>• 0%-100% user-adjustable power</li> <li>• TEM<sub>00</sub> spatial mode</li> <li>• <math>\pm 1.0\%</math> long-term power stability; low optical noise</li> <li>• Integrated control electronics</li> </ul> <p>Fully compatible with Oxxius' AOM option, or with MixxWave combiners, in combination with other laser lines.</p>



## Product Variations

Part Number	Puissance
L1C-561S-50-CSB-MPA	50mW
L1C-561S-100-CSB-MPA	100mW
L1C-561S-150-CSB-MPA	150mW
L1C-561S-200-CSB-MPA	200mW

Part Number	Puissance
L1C+-561S-300-CSB-MPA	300mW
L1C+-561S-500-CSB-MPA	500mW

## Optical Characteristics

Emission wavelength	561 nm
Tolerance	( $\pm 0.4$ nm tolerance)
Control modes	Automated power control, fixed or adjustable power level
Optical noise	$\leq 0.5\%$ rms, 10Hz-20MHz bandwidth
Spectral linewidth	$\leq 1$ nm
Wavelength stability over 8 hours, temperature within $\pm 3^{\circ}\text{C}$	$\leq 1$ pm
Wavelength drift over consecutive on/off cycles, temperature within $\pm 3^{\circ}\text{C}$	$\leq 1$ pm
Coherence length	$\geq 100$ m
Side mode suppression ratio, +/- 0.5nm from the main peak	$\geq 30$ dB
Side mode suppression ratio, +/- 5nm from the main peak	$\geq 60$ dB typ.
Beam diameter, $1/e^2$ level, 50mm from the beam aperture	$0.7 \pm 0.1$ mm ( $\pm 0.15$ mm for 300mW and above)
Beam divergence, $1/e^2$ level full beam, far field	$\leq 1.4$ mrad
Beam quality factor $M^2$	$\leq 1.1$
Beam circularity, far field	$\geq 90\%$
Polarization state	Linear, vertical,extinction ratio $\geq 20$ dB

## General Specifications

Power consumption	20 W max.
Supply voltage	7V to 12V
Operating temperature	$10^{\circ}\text{C}$ to $50^{\circ}\text{C}$
Storage temperature and humidity	$0^{\circ}\text{C}$ to $60^{\circ}\text{C}$
Warm up time	$\leq 10$ minutes
Interfaces	USB, RS-232, direct modulation inputs
Dimensions (laser head)	120x40x32 mm
Weight (laser head)	$\leq 1150$ g (up to 200mW) $\leq 1250$ g (300mW)
Controler dimensions	109x84x30 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11

<b>Laser class</b>	3B, 4
<b>Warranty</b>	24 months or 10000 hours, whichever occurs first

# Options

<b>Option 1</b>	Single-mode fiber coupling
<b>Option 2</b>	Multimode fiber coupling
<b>Option 3</b>	Heat management
<b>Option 4</b>	High rate modulation
<b>Option 5</b>	Optical Isolator
<b>Option 6</b>	OEM version