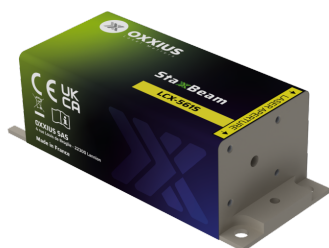


<b>Gamme</b>	Single Frequency Lasers
<b>Title</b>	StaxxBeam 561 nm (fixed power)
<b>Reference</b>	LCX-561S (fixed power)
<b>Description</b>	<p>The StaxxBeam 561 is a compact and powerful 561 nm laser source that delivers a narrow linewidth emission and a spectrum of outstanding purity. Its robust design, 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><b>Key features</b></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>• 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
LCX-561S-50-CSB-PPF	50mW
LCX-561S-100-CSB-PPF	100mW
LCX-561S-150-CSB-PPF	150mW
LCX-561S-200-CSB-PPF	200mW
LPX-561S-300-CSB-PPF	300mW

Part Number	Puissance
LPX-561S-500-CSB-PPF	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	$\leq 0.2\%$ 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 <sup>2</sup> level, 50mm from the beam aperture	0.7 $\pm$ 0.1mm ( $\pm 0.15$ mm for 300mW and above)
Beam divergence, 1/e <sup>2</sup> level full beam, far field	$\leq 1.4$ mrad
Beam quality factor M <sup>2</sup>	$\leq 1.1$
Beam circularity, far field	$\geq 90\%$
Polarization state	Linear, vertical,extinction ratio $\geq 20$ dB

## General Specifications

Power consumption	20 W max.
Supply voltage	5V to 12V
Operating temperature	10°C to 50°C
Storage temperature and humidity	0°C to 60°C
Warm up time	$\leq 10$ minutes
Interfaces	USB, RS-232, direct modulation inputs
Dimensions (laser head)	100x40x32 mm
Weight (laser head)	$\leq 300$ g
Controler dimensions	109x84x30 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	3B

<b>Warranty</b>	24 months or 10000 hours, whichever occurs first
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## 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>	Electromechanical shutter
<b>Option 5</b>	Flange
<b>Option 6</b>	High rate modulation
<b>Option 7</b>	Optical Isolator
<b>Option 8</b>	OEM version