

Gamme	Single Frequency Lasers
Title	StaxxBeam 946 nm
Reference	LCX-946S
Description	<p>SLM CW Monolithic DPSS benefits</p> <ul style="list-style-type: none"> - Up to 500 mW - Exceptional wavelength stability - 1pm - Lowest power consumption <p> ≤ 12 W for LCX's & LPX's, any wavelength, less than 200 mW ≤ 15 W for LCX-532 & LCX-1064, 500 mW ≤ 15 W for LCX-561 300 mW </p> <ul style="list-style-type: none"> - Low profile laser head (32 mm) - Tailored beam diameter capability (0.6 up to 1.4 mm) <p>VBG stabilized Laser Diode modules benefits</p> <ul style="list-style-type: none"> - Proprietary SLM locking routine - Enhanced beam quality versions

Product Variations

Part Number	Puissance
LCX-946S-50	50

Optical Characteristics

Emission wavelength	946 nm
Tolerance	($\pm 0,3$ nm tolerance)
Power stability over 8 hours, temperature within $\pm 3^{\circ}\text{C}$	$\pm 1\%$
Control modes	Automatic Power Control (APC)
Optical noise	$\leq 0.8\%$ rms
Spectral linewidth	≤ 1 MHz
Wavelength stability over 8 hours, 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

Digital modulation function - Rise / fall time	≤ 30 ms
Analog modulation function - Rise / fall time	≤ 1 s
Polarization state	Linear, vertical at ± 5°

General Specifications

Power consumption	20 W max
Supply voltage	100 to 240 VAC external power supply
Operating temperature	10 to 38°C ambient air with optional heat sink
Storage temperature and humidity	0 to 60°C Up to 90%RH, non-condensing

Options

Option 1	Single-mode fiber coupling
Option 2	Electromechanical shutter