

Gamme	Single Frequency Lasers
Title	StaxxBeam 946 nm
Reference	LCX-946S
Description	SLM CW Monolithic DPSS benefits – Up to 500 mW – Exceptional wavelength stability – 1pm – Lowest power consumption ? 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 – Low profile laser head (32 mm) – Tailored beam diameter capability (0.6 up to 1.4 mm) VBG stabilized Laser Diode modules benefits – Proprietary SLM locking routine – Enhanced beam quality versions

Product Variations

Part Number	Puissance
LCX-946S-50	50

Optical Characteristics

Emission wavelength	946 nm
Tolerance	(±0,3nm tolerance)
Power stability over 8 hours, temperature within ±3°C	±1%
Control modes	Automatic Power Control (APC)
Optical noise	? 0.8% rms
Spectral linewidth	? 1 MHz
Wavelength stability over 8 hours, temperature within ±3°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
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Options

Option 1	Single-mode fiber coupling
Option 2	Electromechanical shutter