

LCX-561S

DPSS

Optical characteristics *

Emission wavelength	561.4 nm	
Wavelength stability over 8 hours and $\pm 3^\circ\text{K}$	≤ 1 pm	
Wavelength range	± 0.4 nm	
Linewidth	≤ 1 MHz	
Coherence Length	≥ 100 m	
Output power	Free space	Fiber coupling
	50 mW	35 mW
	100 mW	70 mW
	150 mW	105 mW
	200 mW	140 mW
Control mode(s)	Automatic Power Control (APC)	
Power stability over 8 hours and within $\pm 3\text{k}$	$\pm 1\%$	
Power adjustment range optional	L1C MPA/ AOM	
Optical noise %RMS, 10Hz - 20 MHz bandwidth	$\leq 0.2\%$	

— Transverse singlemode free-space beam

Beam waist diameter (typ) at $1/e^2$, 50mm from output aperture	0.7 mm (± 0.1 mm)
Beam divergence at $1/e^2$, full angle, in far field	1.0 (± 0.4 mrad)
Beam quality factor (M^2)	≤ 1.1
Beam circularity, in far field	$\geq 90\%$
Beam pointing stability	≤ 5 $\mu\text{rad/K}$
Polarization extinction ratio (typ)	1000:1
Polarization state	linear, vertical at $\pm 5^\circ$

— Plug and Play version provided with :

- Electro-mechanical shutter
- ControlBoxx
- Power supply

*specification at nominal power

Warranty : 18 months from shipment date



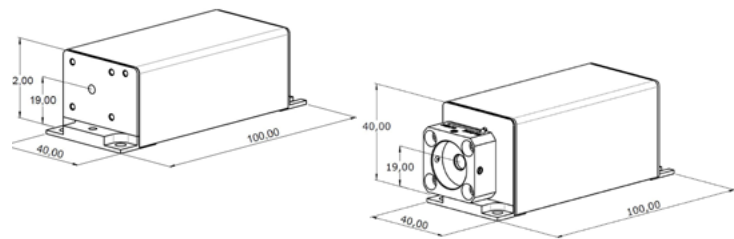
Fiber coupling option

Specifications	SM and PM Fiber	MM Fiber (50 μm , 0.22 NA)
Coupling Efficiency	$\geq 70\%$	$\geq 80\%$
Polarization Ratio (PMF only)	100 : 1	n/a
Fiber Output Connector	FC-ACPC/FC/PC, FCP8 on demand	FC-APC
Power stability over 8 hours and within $\pm 3\text{k}$	$\pm 2\%$	$\pm 2\%$
Fiber length	2.0 m	2.0 m

Other options

- Heat sink

System specifications



	CDRH compliant	OEM version
Compliance	FDA 21 CFR 1040.10 / 1040.11	
Operating temperature	10 - 38°C ambient air	10 - 50°C baseplate
Power consumption	≥ 25 W	≥ 10 W
Storage temperature	0 to 60°C	
Supply voltage	100 to 240 VAC external power supply	5 to 12 VDC
Warm-up time	≤ 10 minutes	
Communication	USB, RS-232, dedicated electronic interface	



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