



MSL-DU-xxx-W series



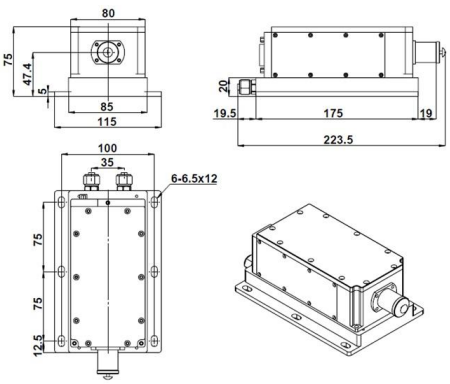
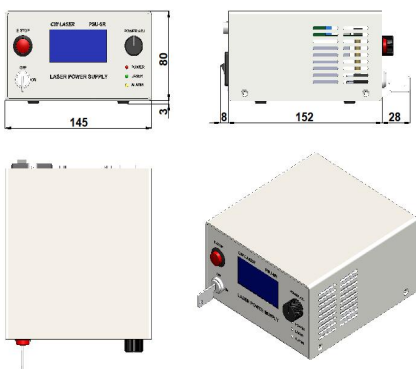
FREQUENCY STABILIZED SLM LASER

Single longitudinal mode, frequency stabilized laser has the features of stable frequency and internal SLM calibration, It is used in optical frequency standards, gravitational wave detection, tests of fundamental physics, atomic clocks, high-resolution spectrum, lidar, and precision measurement, etc.



SPECIFICATIONS

Wavelength (nm)	639±1
Output power (mW) ¹	1-750
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%
Transverse mode	TEM ₀₀
Longitudinal mode	Single
Operating mode	CW
Spectral line width (MHz)	<1MHz
Coherent length (m)	>40
Frequency shift (MHz) (over ±2°C and 8hrs) (optional)	<±100 MHz (±0.15pm)
Noise of amplitude (rms, 20Hz-20MHz)	<1%, <0.5%
M ²	<1.2
Beam diameter at the aperture (1/e ² , mm)	<1.5
Beam divergence (mrad)	<1.5
Polarization ratio	>100:1, Horizontal (Vertical optional)
Pointing stability (urad) (over 2 hours after warm-up and ±3°C)	<50
Pointing stability over temperature (urad/°C)	<8
Warm-up time (minutes)	<30
Beam height from base plate (mm)	47.4
Cooled method (water cooled)	WCH-580
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-SR
Expected lifetime (hours)	>10000

LASER HEAD ²	POWER SUPPLY (PSU-SR) ³	Water Chiller (WCH-580)
 223.5 (L)×115(W) ×75(H) mm³, 2.1kg	 188(L) ×145(W) ×83(H) mm³, 1.2kg	 253.2(L) ×363.8(W) ×240.6(H) mm³, 11.0 kg

1 Any power level can be selected in this range.

2 The laser head needs to be used on a heat sink with good heat dissipation.

3 Output power adjustable 10-100%.