



MSL-DU-457-W /1-400mW



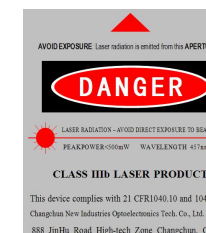
FREQUENCY STABILIZED SLM LASER AT 457nm

Single longitudinal mode, frequency stabilized laser is made features of stable frequency and internal SLM calibration, which is used in scientific experiment, medical measurement, instrument, brillouin scattering, spectrum analysis, etc.



SPECIFICATIONS

Central wavelength (nm)	457±1
Operating mode	CW
Output power (mW)	>1, 5, 10, ... , 400
Power stability (rms, over 4 hours)	<1%, <2%, <3%
Transverse mode	TEM ₀₀
Longitudinal mode	Single
Spectral linewidth (nm)	<0.00001
Coherent length (m)	>50
Frequency shift over 8 hours	<±200MHz(±0.15pm)
Noise of amplitude (rms, 1Hz~20MHz)	<0.5%, <1%
M ² factor	<1.5
Beam diameter at the aperture (1/e ² , mm)	<1.5
Beam divergence (mrad)	<1.5
Polarization Ratio	>100:1, Horizontal±5 degree (Vertical Optional)
Pointing stability after warm-up (μ mrad/°C)	<6
Warm-up time (minutes)	<30
Beam height from base plate (mm)	47.4
Cooled method	Water Cooled
Operating Temperature (°C)	15-35
Power supply (90-264VAC)	PSU-H-FDA
Expected lifetime (hours)	10000
Warranty	1 year



Note: The laser head must be used on a water cooling system

MSL-DU-457-W	PSU-H-FDA	Water Chiller(WCH-600)
<p>223.5 (L)×115(W) ×75(H) mm³, 2.1kg</p>	<p>275(L) ×145(W) ×104(H) mm³, 2.3 kg</p>	<p>270(L) ×320(W) ×330(H) mm³, 18 kg</p>