



MSL-U-457 /1~300mW



**SINGLE LONGITUDINAL  
MODE  
LASER AT 457nm**

All solid state single longitudinal mode green laser at 457nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, brillouin scattering, physics experiment, etc.



**SPECIFICATIONS**

Central wavelength (nm)	457±1
Operating mode	CW
Output power (mW)	>1, 5, 10, 20, ... , 300
Power stability (rms, over 4 hours)	<1%, <2%, <3%
Transverse mode	TEM <sub>00</sub>
Longitudinal mode	Single
Spectral linewidth (nm)	<0.00001
Noise of amplitude (rms, 1Hz~20MHz)	<0.5%, <1%
M <sup>2</sup> factor	<1.2
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	0.70±0.05
Beam divergence (mrad)	<1.5
Polarization Ratio	>100:1, Horizontal±5 degree
Warm-up time (minutes)	<10
Pointing stability after warm-up (mrad)	<0.05
Beam height from base plate (mm)	27.4
Laser head consumption(W)	15 (typical) , <25 (40℃)
Max. Laser Head Base plate Temp (°C)	50
Operating Temperature (°C)	10-40
Power supply (90-264VAC)	PSU-H-FDA/PSU-SR
Expected lifetime (hours)	10000
Warranty	1 year



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

MSL-U-457	PSU-H-FDA	PSU-SR
<p>142.5 (L)×60(W)×50(H) mm<sup>3</sup>, 1.0 kg</p>	<p>275(L)×145(W)×104(H) mm<sup>3</sup>, 2.3 kg</p>	<p>188(L)×145(W)×83(H) mm<sup>3</sup>, 2kg</p>