

MSL-FN-457/1~350mW



**SINGLE LONGITUDINAL MODE
BLUE LASER AT 457nm**

All 457nm solid state single longitudinal mode lasers feature compact designs, long lifetimes, and user-friendly operation. This model is most widely used in DNA sequencing, flow cytometry, cell sorting, optical instrumentation, spectrum analysis, interference, measurement, holography, physics experiments, etc.



SPECIFICATIONS

Wavelength (nm)	457±1	
Operating mode	CW	
Output power (mW)	>1, 5, 10, 20, ... , 150	>150, 160, ... , 350
Power stability (rms, over 4 hours)	<1%, <3%	<1%, <3%, <5%
Transverse mode	TEM ₀₀	Near TEM ₀₀
Longitudinal mode	Single	
Spectral linewidth (nm)	<0.00001	
Coherent length (m)	>50	
Noise of amplitude (rms, 1Hz~20MHz)	<1%, typical<0.5%	
M ² factor	<1.2	
Beam diameter at the aperture (1/e ² , mm)	<2.0	
Beam divergence, full angle (mrad)	<1.2	
Polarization ratio	>100:1, Vertical±5 degree (Horizontal Optional)	
Warm-up time (minutes)	<10	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	27.4	
Operating temperature (°C)	15~35	
Power supply (90-264VAC)	PSU-H-FDA	
Expected lifetime (hours)	10000	
Warranty	1 year	



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

MSL-FN-457	PSU-H-FDA
<p>197(L)×70(W)×50(H) mm³, 1.5 kg</p>	<p>275(L) ×145(W) ×104(H) mm³, 2.3 kg</p>