

DATA SHEET

SINGLE LONGITUDINAL MODE BLUE LASER AT 457nm


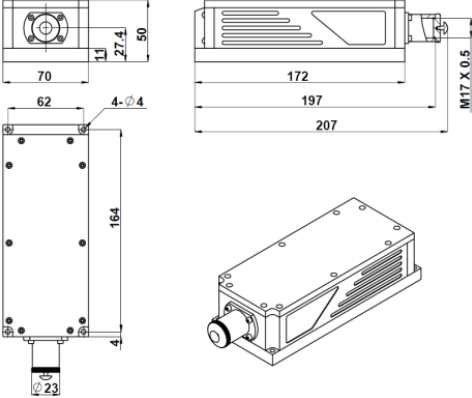

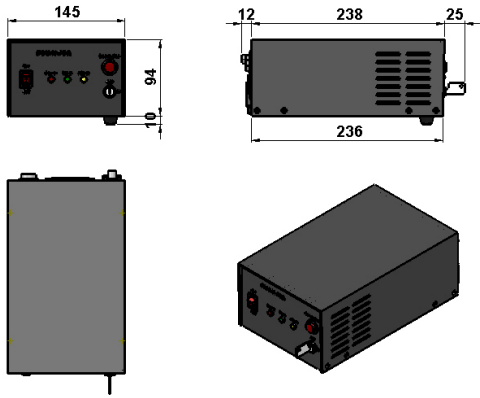
All-solid-state single longitudinal mode blue laser at 457nm is made features of ultra-compact, long lifetime and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.

Model: MSL-FN-457/1~400mW

Wavelength (nm)	457 ± 1nm	
Operating mode	CW	
Output power (mW)	>1, 5, 10, ..., 150	>150, 200, ..., 400
Power stability (rms, over 4 hours)	<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, 20Hz~20MHz)	<1%, typical <0.5%	
Warm-up time (minutes)	<10	
M ² factor	<1.2	
Beam divergence, full angle (mrad)	<1.2	
Beam diameter at the aperture (mm)	~2.0	
Beam height from base plate (mm)	27.4	
Polarization ratio	>100:1, Vertical ±5 degree (Horizontal Optional)	
Pointing stability after warm-up (mrad)	<0.05	
Operating temperature (°C)	15~35	
Power supply (90-264VAC)	PSU-H-FDA	
Expected lifetime (hours)	10,000	
Warranty period	1 year	



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

MSL-FN-457	Dimensions	PSU-H-FDA	Dimensions
	 <p>197(L) × 70(W) × 50(H) mm³, 1.36kg</p>		 <p>236(L) × 145(W) × 104(H) mm³, 2.3kg</p>