

457 nm Single Longitudinal Mode Blue Laser

Model #: MSL-FN-457

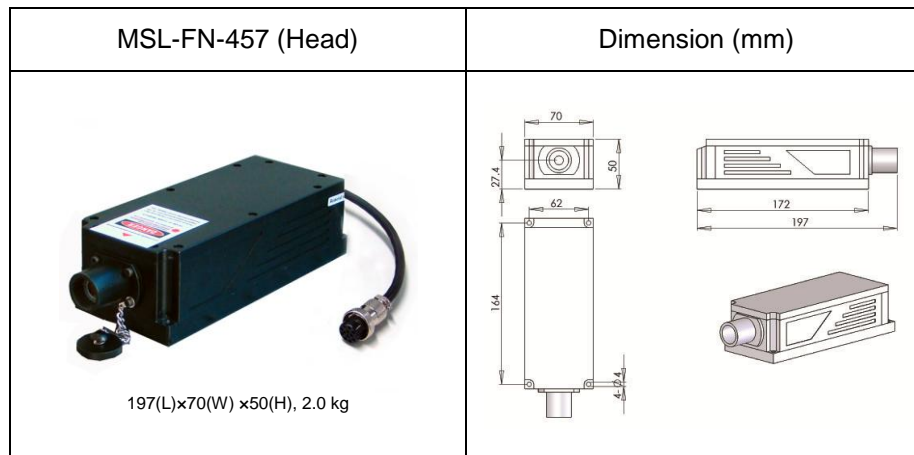
Description: 457 nm Single Longitudinal Mode Blue Laser. All solid state single longitudinal mode blue laser at 457 nm features ultra compact, long lifetime and easy operating.


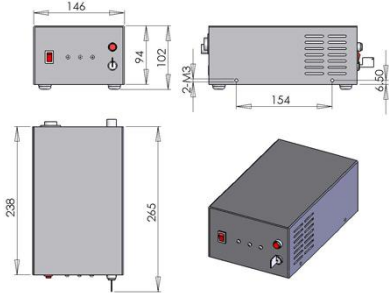
Application: DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.

Specifications

Wavelength (nm)	457±1
Output Power (mW)	>1, 5, 10, ... , 300
Transverse Mode	TEM ₀₀
Longitudinal Mode	Single
Operating Mode	CW
Power Stability (rms, over 4 hours)	<1%, <3%, <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
Spectral Linewidth (nm)	<0.00001
Polarization Ratio	>100:1, Vertical±5 degree (Horizontal degree)
Pointing Stability after Warm-up (mrad)	<0.05
Noise of Amplitude (rms, 20Hz~20MHz)	<0.5%
Coherent Length (m)	>50
Operating Temperature (C°)	15~35
Power Supply (90-264VAC or 5V DC)	PSU-H-FDA
Modulation	Modulation isn't available.
Expected Lifetime (hours)	10000
Warranty Period	1 year

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



PSU-H-FDA (Driver)	Dimension (mm)
 <p data-bbox="430 537 727 562">238 (L) x146(W) x102 (H) mm³, 2.3 kg</p>	

Ordering Information: MSL-FN-457-A-B

A: maximum output power	B: power stability
30 – 30 mW	1 – 1%
50 - 50 mW	3 – 3%
100 – 100 mW	5 – 5%
200 – 200 mW	
300 – 300 mW	