



MSL-FN series (551-600nm)



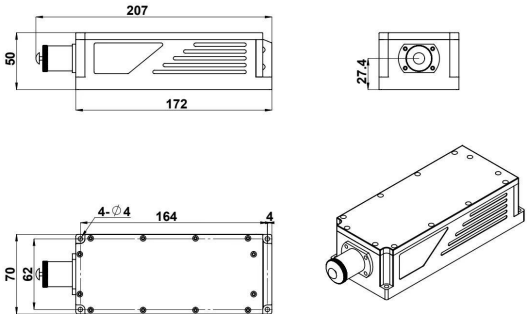
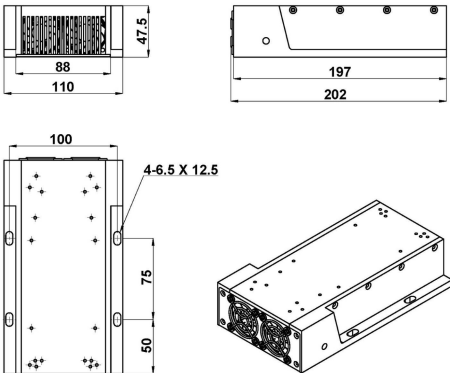
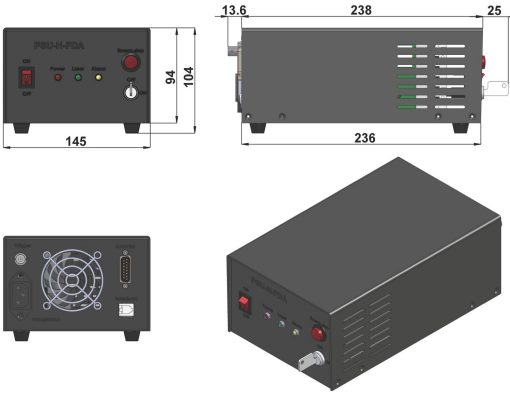
SINGLE LONGITUDINAL MODE LASER

All-solid-state, single-longitudinal-mode laser features an ultra-compact design, long lifetime, and easy operation. It is used in DNA sequencing, flow cytometry, cell sorting, optical instruments, spectrum analysis, interference, measurement, holography, and physics experiments, etc.



SPECIFICATIONS

Wavelength (nm)	552±1	556±1	561±1	577±2	588±2	589±1
Output power (mW) ¹	1-100	1-150		1-300	1-200	
Power stability (rms, 4 hours ±3°C)	<3%, <2%	<3%, <2%, <1%				
Transverse mode	TEM ₀₀					
Longitudinal mode	Single					
Operating mode	CW					
Spectral line width (nm)	<1MHz					
Coherent length (m)	>50					
Noise of amplitude (rms, 20Hz-20MHz)	<1%, <0.5%					
M ²	<1.2,<1.1	<1.2				<1.2,<1.1
Beam diameter at the aperture (1/e ² , mm)	<1.5	<2.0		~2.0	<2.5	
Beam divergence, full angle (mrad)	<1.2			<1.5	<1.2	
Polarization ratio	>100:1, Vertical (Horizontal optional)			>100:1, Horizontal (Vertical optional)		
Warm-up time (minutes)	<5					
Pointing stability (urad) (over 2 hours after warm-up and ±3°C)	<50					
Pointing stability over temperature (urad/°C)	<8					
Frequency shift (MHz) (over ±2°C and 8hrs) (optional)	<±200					
Frequency shift with temp (MHz/°C) (optional)	<200					
Beam height from base plate (mm)	27.4					
Laser head consumption (W)	15 (typical) , <25 (40°C)					
Operating temperature (°C)	10-35					
Power supply (100-240VAC)	PSU-H-FDA					
Expected lifetime (hours)	>10000					

LASER HEAD ²	HEATSINK (optional TC-02-FS)	POWER SUPPLY (PSU-H-FDA) ³
 207(L)×70(W)×50(H) mm³, 1.5 kg	 202(L)×110(W)×47.5(H) mm³, 1.25 kg	 276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg

1 Any power level can be selected in this range.

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

3 Fixed output power.