



MSL-S series (1000-1100nm)



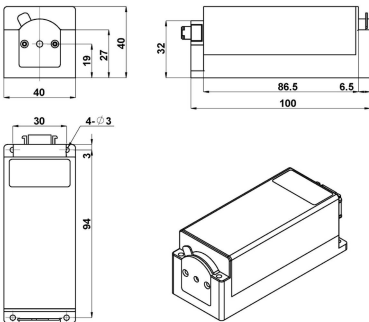
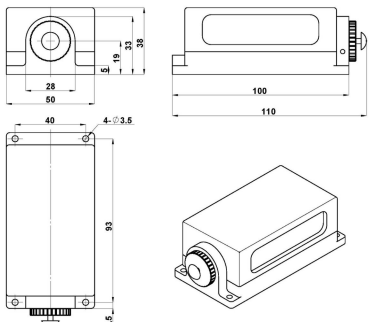
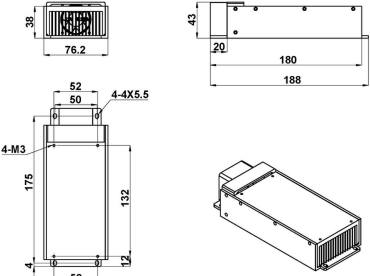
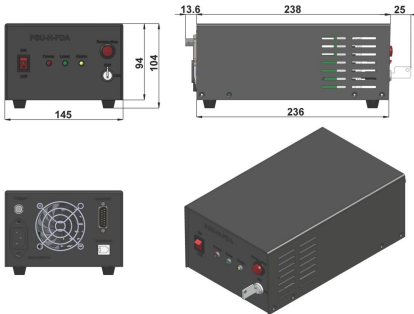
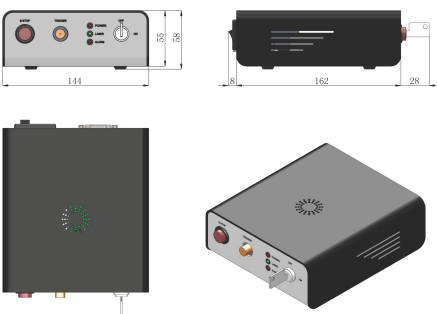
SINGLE LONGITUDINAL MODE LASER

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

Model	MSL-S-1064		MSL-S-1064-A (Harsh condition)	
Wavelength (nm)	1064±1			
Output power (mW) ¹	1-500	500-700	1-500	500-700
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%
Operating mode	CW			
Transverse mode	TEM ₀₀			
Longitudinal mode	Single			
Spectral line width	<1MHz			
Noise of amplitude (rms, 20Hz-20MHz)	<0.5%			
Coherent length (m)	>50			
M ²	<1.2			
Beam diameter at the aperture (1/e ² , mm)	1.00±0.05			
Beam divergence, full angle (mrad)	<1.7			
Polarization ratio	/			
Warm-up time (minutes)	<5			
Pointing stability (μrad) (over 2 hours after warm-up and ±3°C)	<50			
Pointing stability over temperature (μrad/°C)	<8			
Frequency shift over 8 hours (MHz) (optional)	<±200			
Frequency shift with temp (MHz/°C) (optional)	<200			
Beam height from base plate (mm)	19			
Power consumption (W)	<40			
Fiber	Multi mode/Single mode		/	
Shock Tolerance (6ms)	7g laterally, 15g vertically			
IP rating	IP65		IP67	
Max. heat dissipation of head (W)	4W@25°C		10W@50°C	
Operating temperature (°C)	10-35		0-60	
Power supply (100-240VAC)	PSU-A-F		PSU-H-FDA	
Expected lifetime (hours)	>10000			

LASER HEAD ²	LASER HEAD (Harsh condition) ²	HEATSINK (optional TC-04-FS)
 100 (L) × 40 (W) × 40 (H) mm³, 0.36kg	 110(L) × 50(W) × 38(H) mm³, 0.6 kg	 188(L) × 76.2(W) × 43(H) mm³, 0.65 kg
POWER SUPPLY (PSU-H-FDA) ³	POWER SUPPLY (PSU-A-F) ³	
 276.6(L) × 145(W) × 103.6(H) mm³, 2.3 kg	 198(L) × 144(W) × 58(H) mm³, 0.5kg	

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.