



MSL-S series (500-600nm)



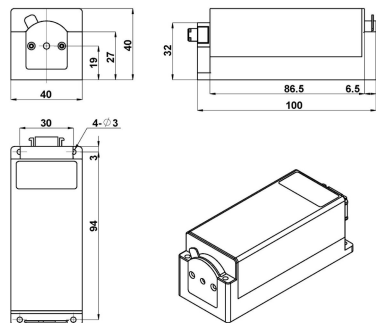
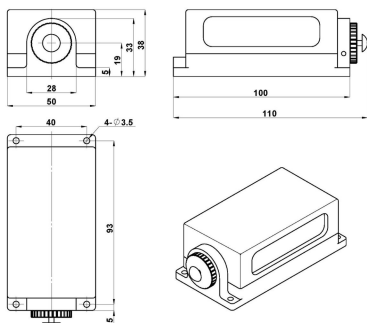
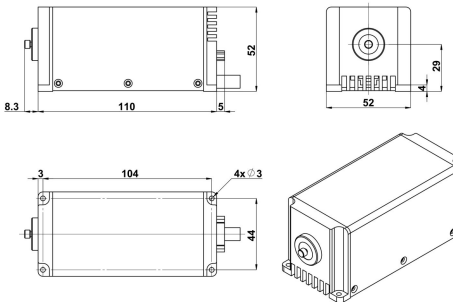
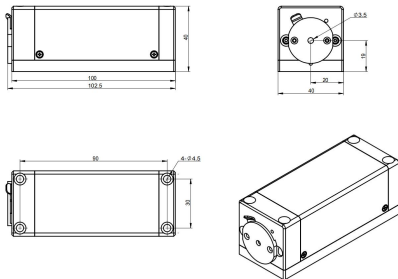
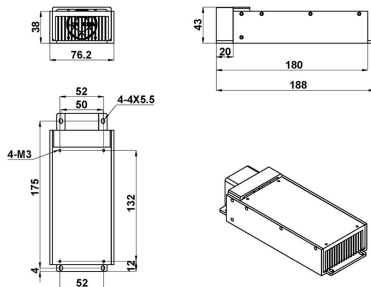
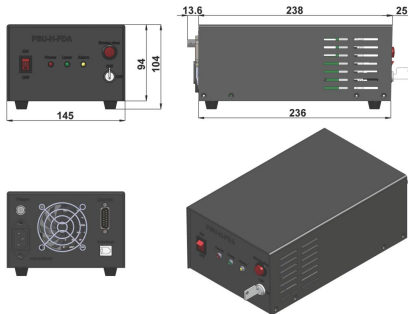
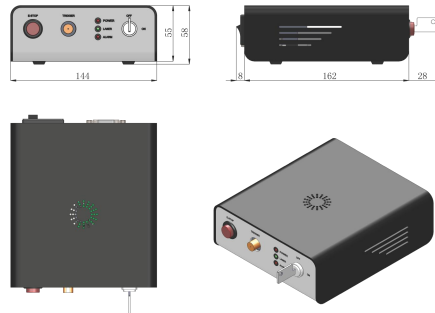
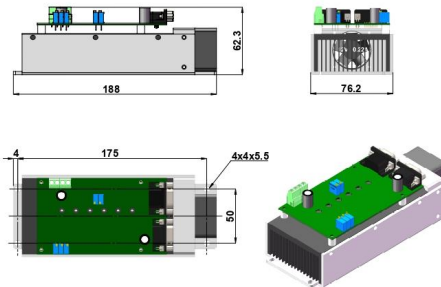
SINGLE LONGITUDINAL MODE LASER

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

Model	MSL-S-532	MSL-S-532-A (Harsh condition)	MSL-S-532-C (Limiting condition)	MSL-S-532-D
Wavelength (nm)	532±1			532.1±0.3
Output power (mW) ¹	1-150			
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%, (<0.5%optional@1-50)			<1%, (<0.5%optional@1-50)
Operating mode	CW			
Transverse mode	TEM ₀₀			
Longitudinal mode	Single			
Spectral line width	<1MHz			
Noise of amplitude (rms, 20Hz-20MHz)	<0.5%			<0.2%
Coherent length (m)	>50			
M ²	<1.2			<1.1
Beam diameter at the aperture (1/e ² , mm)	<1.0			
Beam divergence, full angle (mrad)	<1.5			
Polarization ratio	>100:1 Horizontal (Vertical Optional)			
Warm-up time (minutes)	<5		<3	<5
Pointing Stability (μrad) (over 2 hours after warm-up and ±3°C)	<50		/	<30
Pointing stability over temperature (μrad/°C)	<8		/	<6
Frequency shift over 8 hours (MHz) (optional)	<±200		/	
Frequency shift with temp (MHz/°C) (optional)	<200		/	
Beam height from base plate (mm)	19		29	19
Power consumption (W)	<30			<6
Fiber	/	Multi mode/ Single Mode		
Shock tolerance (6ms)	7g laterally, 15g vertically			
IP rating	IP65	IP67	/	
Operating temperature (°C)	10-35	0-60	-40-60	10-35 5-50@Storage temperature (°C)
Power supply (100-240VAC)	PSU-A-F	PSU-H-FDA	/	/
Operating voltage (VAC)	/	/	PSU-S-OEM-C(12V/25A)	12VDC (Photoelectric integrated)
Expected lifetime (hours)	>10000			

LASER HEAD ²	LASER HEAD (Harsh condition) ²	LASER HEAD (Limiting condition) ²	LASER HEAD (MSL-S-532-D) ²
 100 (L) × 40 (W) × 40 (H) mm³, 0.36kg	 110(L) × 50(W) × 38(H) mm³, 0.6 kg	 123.3 (L) × 52 (W) × 52 (H) mm³, 0.82kg	 102.5(L) × 40(W) × 40(H) mm³
HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-H-FDA) ³	POWER SUPPLY (PSU-A-F) ³	POWER SUPPLY (PSU-S-OEM-C) ³
 188(L) × 76.2(W) × 43(H) mm³, 0.65 kg	 276.6(L) × 145(W) × 103.6(H) mm³, 2.3 kg	 198(L) × 144(W) × 58(H) mm³, 0.5kg	 188(L) × 76.2(W) × 62.3 (H) mm³, 0.76kg

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.