



MSL-U-xxx-SU series(900-1100)



SINGLE LONGITUDINAL MODE LASER

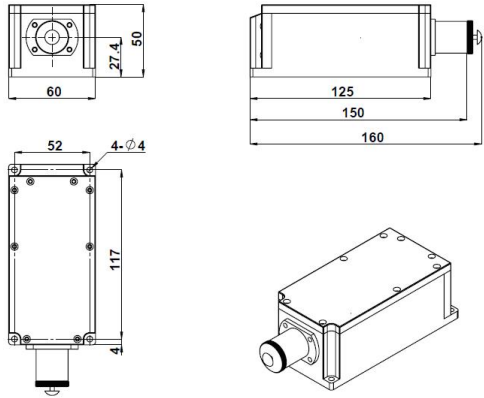
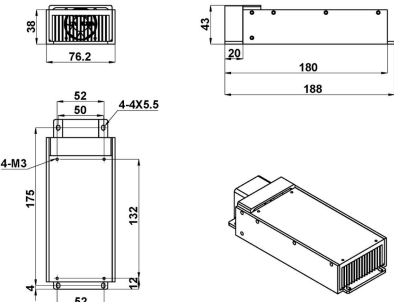
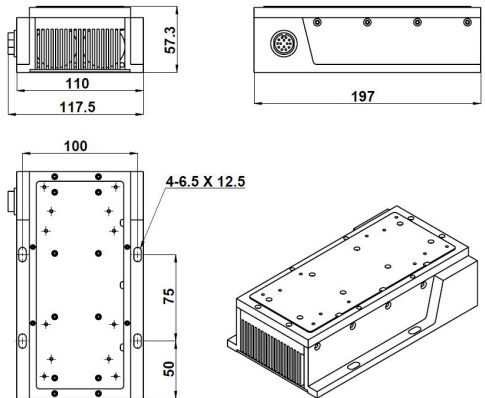
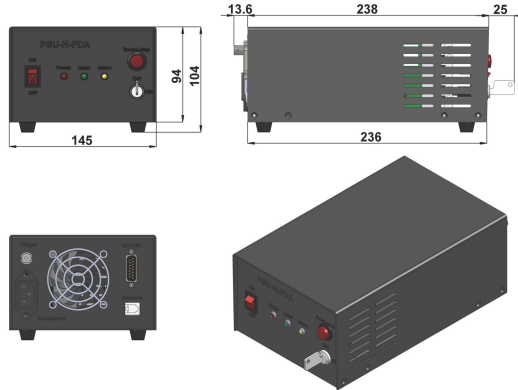
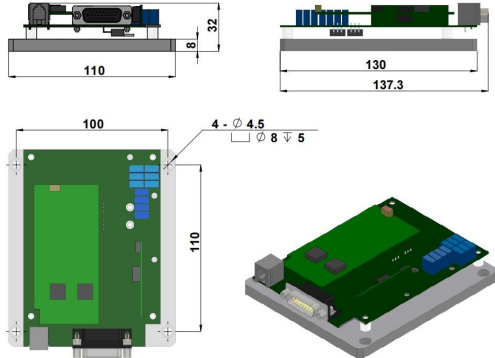
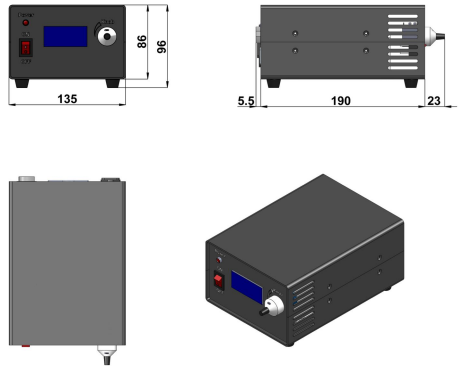
All solid state single longitudinal mode laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.



SPECIFICATIONS

Wavelength (nm)	914±1	946±1	1030±2	1047±1	1053±1	1064±1	
Operating mode	CW						
Output power (mW) ¹	1-100	1-200	1-50	1-300	300-500	1-100 100-200 700-1000	
Power stability (rms, over 4 hours)	<3%, <2%, <1%			<3%, <2%	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%
Transverse mode	TEM ₀₀						
Longitudinal mode	Single						
Spectral line width (MHz)	<1MHz						
Noise of amplitude (rms, 20Hz-20MHz)	<1%	<2%	<1%	<2%		<1%	
M ²	<1.2						
Beam diameter at the aperture (1/e ² , mm)	<1.0						
Beam divergence (mrad)	<1.5						
Polarization Ratio	>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						
Coherent length (m)	>50						
Beam height from base plate (mm)	27.4						
Laser head consumption(W)	15 (typical) , <25 (40°C)						
Max. Laser Head Base plate Temp (°C)	50						
Operating Temperature (°C)	10-35						
Power supply(100-240VAC)	PSU-H-FDA						
Operating voltage(VDC)	PSU-SR-OEM(12V25A)						
Expected lifetime (hours)	>10000						



LASER HEAD ²	HEATSINK(OPTIONAL TC-02-FS)	TC-01 HEAT SINK
 160(L)×60(W) ×50(H) mm³,0.9kg	 188(L)×76.2(W)×43(H) mm³, 0.65 kg	 197(L)×117.5(W) ×57.3(H) mm³, 1.6 kg
POWER SUPPLY(PSU-H-FDA) ³	POWER SUPPLY (PSU-SR-OEM) ³	TC-01 HEAT SINK POWER SUPPLY
 276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg	 137.3(L) ×110(W) ×32(H) mm³, 0.5 kg	 218.5(L) ×135(W) ×96(H) mm³, 2.6 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.