



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



SINGLE LONGITUDINAL MODE LASER

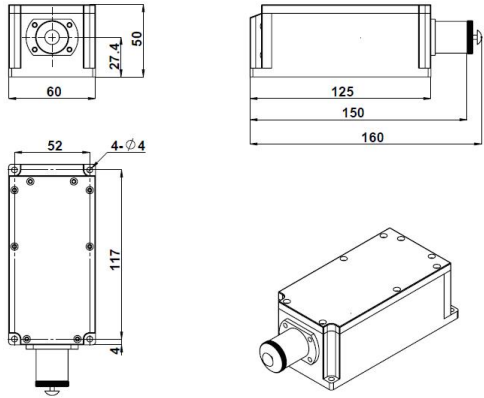
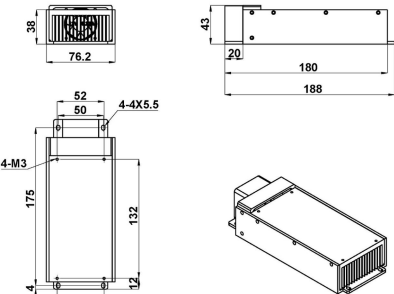
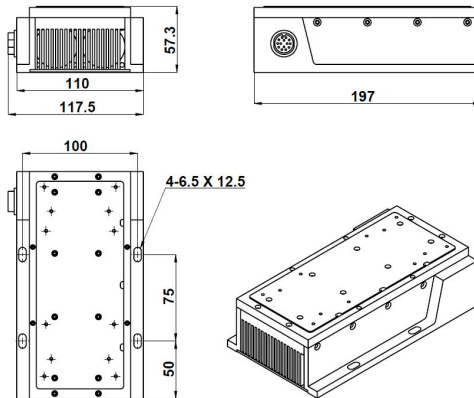
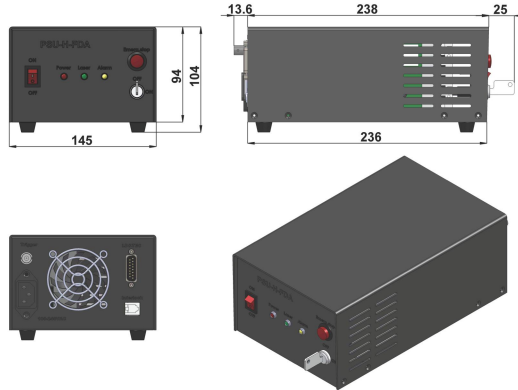
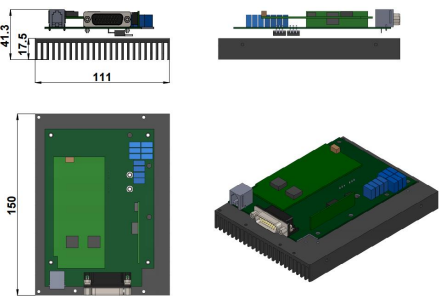
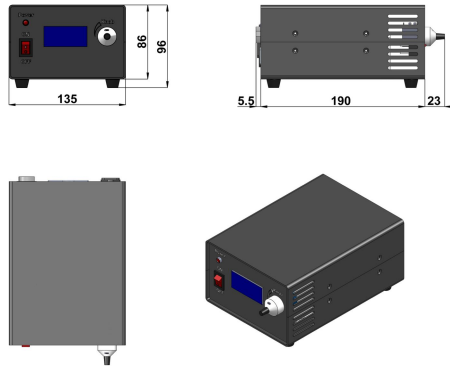
All-solid-state, single-longitudinal-mode laser features an ultra-compact design, long lifetime, and easy operation. It is used in DNA sequencing, flow cytometry, cell sorting, optical instruments, spectrum analysis, interference, measurement, holography, and physics experiments, etc.



SPECIFICATIONS

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, 4 hours ±3°C)	<3%, <2%, <1%			<3%, <2%	<3%, <2%, <1%	<3%, <2%
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)					
Operating temperature (°C)	10-35					
Power supply (100-240VAC)	PSU-H-FDA					
Operating voltage (VDC)	PSU-SR-OEM (12V/25A)					
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	DRIVER (PSU-SR-OEM) ³	TC-01 HEAT SINK POWER SUPPLY
 276.6(L)×145(W)×103.6(H) mm³, 2.3 kg	 150(L)×111(W)×41.3(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.