



MSL-U series



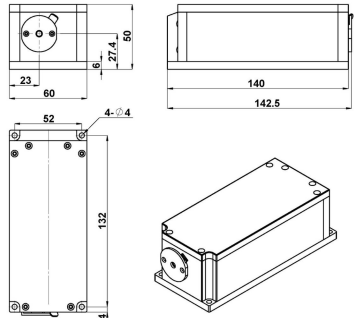
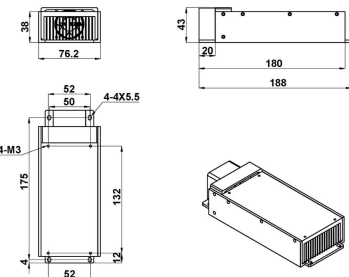
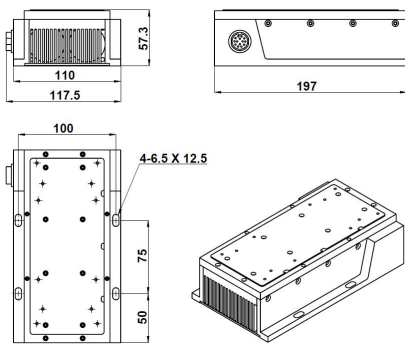
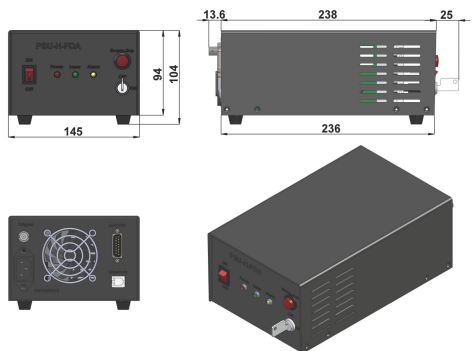
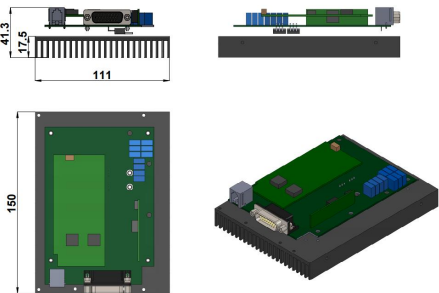
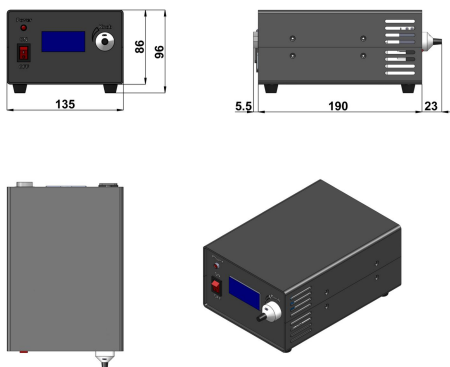
SINGLE LONGITUDINAL MODE LASER

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) ¹	473±1	532±1	
Operating mode	CW		
Output power (mW) ²	1-100	1-300	300-1000
Power stability (rms, 4 hours ±3°C)	<2%, <1%, (<0.5% optional)	<2%, <1%, <0.5%	<3%, <2%, <1%
Transverse mode	TEM ₀₀		
Longitudinal mode	Single		
Spectral line width (MHz)	<1MHz		
Noise of amplitude (rms, 20Hz-20MHz)	<1%, <0.5%	<1%, <0.5%, <0.25%	
M ²	<1.2		
Beam diameter at the aperture (1/e ² , mm)	<1.0		
Beam divergence (mrad)	<1.5		
Polarization ratio	>100:1, Vertical (Horizontal 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		
Expected lifetime (hours)	>10000		

LASER HEAD ³	HEATSINK (optional TC-04-FS)	TC-01 HEAT SINK
 142.5 (L)×60(W) ×50(H) mm³, 1.0 kg	 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) ⁴	DRIVER (PSU-SR-OEM) ⁴	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 Other wavelengths can be customized, please consult.

2 Any power level can be selected in this range.

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

4 Fixed output power.

Website: <http://www.cnilaser.com> E-mail: sales@cnilaser.com Tel: +86-431-85603799 Fax: +86-431-89216068