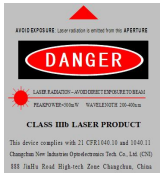
MSL-FN series

SINGLE LONGITUDINAL MODE LASER

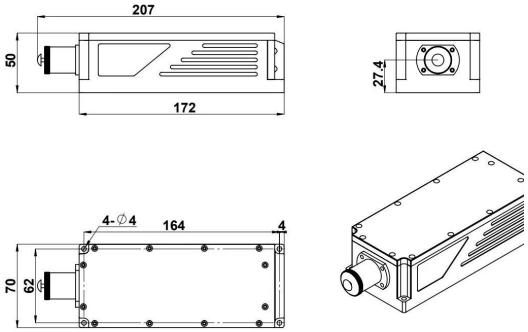
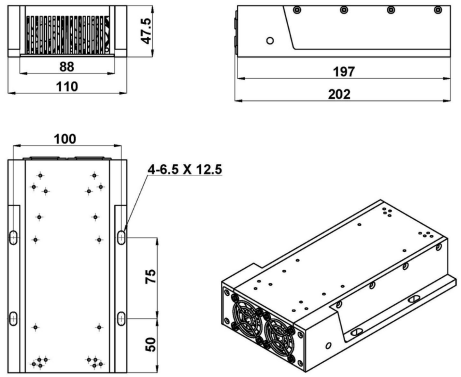
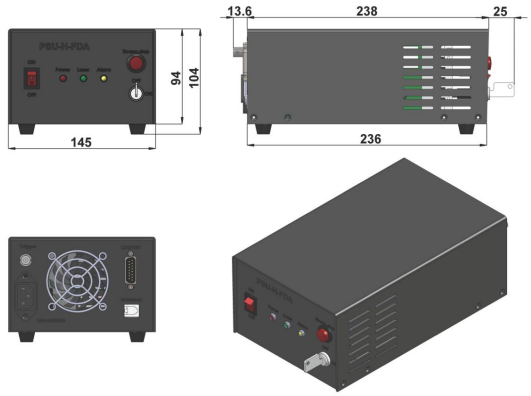
All solid state single longitudinal mode laser is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.



SPECIFICATIONS

Wavelength (nm)	515±1	522±1	523.5±1	526.5±1	543±1	550±1
Output power (mW)[1]	1-50	1-150			1-200	1-200
Power stability (rms, over 4 hours)	<3%, <2%, <1%					
Transverse mode	TEM_{00}					
Longitudinal mode	Single					
Operating mode	CW					
Spectral line width (nm)	<1MHz					
Coherent length (m)	>50					
Noise of amplitude (rms, 20Hz~20MHz)	<1%, <0.5%					
M^2 factor	<1.2					
Beam diameter at the aperture ($1/e^2$, mm)	~2.0		<1.5			
Beam divergence, full angle (mrad)	<1.2					
Polarization Ratio	>100:1, Vertical (Horizontal Optional)					
Warm-up time (minutes)	<10		<5			
Pointing stability (urad)(over 2 hours after warm-up and±3℃)	<50					
Pointing stability Over Temperature(urad/℃)	<8					
Frequency shift (MHz)(Over±2℃ and 8hrs) (Optional)	<±200					
Frequency shift with Temp (MHz/°C) (Optional)	<200					
Beam height from base plate (mm)	27.4					
Laser head consumption(W)	15 (typical) , <25 (40℃)					
Max. Laser Head Base plate Temp (°C)	50					
Operating Temperature (°C)	10-35					
Power supply (100-240VAC)	PSU-H-FDA					
Expected lifetime (hours)	>10000					

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

LASER HEAD	HEATSINK(OPTIONAL TC-02-FS)	POWER SUPPLY(PSU-H-FDA)[2]
		
207(L)×70(W)×50(H) mm³, 1.5 kg	**202(L)×110(W)×47.5(H) mm³, 1.25 kg**	**276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg**