

DATA SHEET


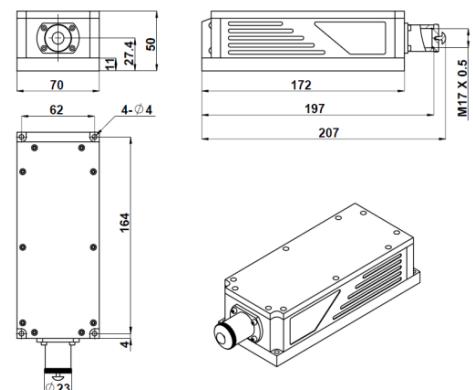

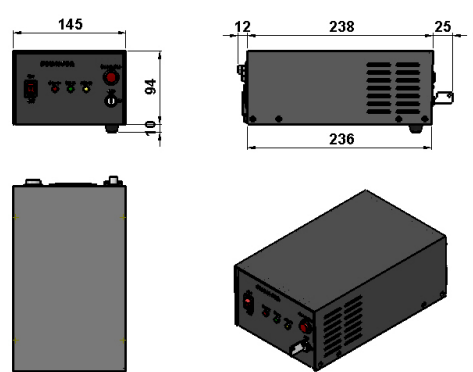
SINGLE LONGITUDINAL MODE

YELLOW LASER AT 589nm

All solid state single longitudinal mode yellow laser at 589nm 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

Wavelength (nm)	589 ± 1nm
Operating mode	CW
Output power (mW)	>1, 5, 10, ..., 200
Power stability (rms, over 4 hours)	<3%, < 5%, <10%
Transverse mode	TEM ₀₀
Longitudinal mode	Single
Spectral linewidth (nm)	<0.00001
Coherent length (m)	>50
Noise of amplitude (rms, 1Hz~20MHz)	<1%, typical <0.5%
M ² factor	<1.2
Beam diameter at the aperture (1/e ² , mm)	~2.5
Beam divergence, full angle (mrad)	<1.2
Polarization ratio	>100:1, Horizontal ±5 degree (Vertical Optional)
Warm-up time (minutes)	<10
Pointing stability after warm-up (mrad)	<0.05
Beam height from base plate (mm)	27.4
Operating temperature (°C)	15~35
Power supply (90-264VAC)	PSU-H-FDA
Expected lifetime (hours)	10,000
Warranty period	1 year



MSL-FN-589	Dimensions	PSU-H-FDA	Dimensions
	 <p>197(L) × 70(W) × 50(H) mm³, 1.36kg</p>		 <p>236(L) × 145(W) × 104(H) mm³, 2.3kg</p>