



**SINGLE LONGITUDINAL MODE  
RED LASER AT 639nm**

All solid state single longitudinal mode red laser at 639nm 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, brillouin scattering, physics experiment, etc.



**SPECIFICATIONS**

Central wavelength (nm)	639±1
Operating mode	CW
Output power (mW)	>200
Power stability (rms, over 4 hours)	<1%
Transverse mode	TEM <sub>00</sub>
Longitudinal mode	Single
Spectral linewidth (nm)	<0.00001
Coherent length (m)	>40
Noise of amplitude (rms, 1Hz~20MHz)	<1%
M <sup>2</sup> factor	<1.2
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<1.5
Beam divergence, full angle (mrad)	<1.5
Polarization ratio	>100:1, Horizontal±5 degree (Vertical Optional)
Warm-up time (minutes)	<10
Pointing stability after warm-up (μ mrad/°C)	6
Beam height from base plate (mm)	27.4
Operating temperature (°C)	15~35
Power supply (90-264VAC)	PSU-SR
Expected lifetime (hours)	10000
Cooled method	Air cooled (Water cooling plate is a necessary accessory for Holography)
Warranty	1 year



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

Laser head	Power supply	Water cooling plate
<p>197(L)×70(W)×50(H) mm<sup>3</sup>, 1.5 kg</p>	<p>188(L) ×145(W) ×83(H) mm<sup>3</sup>, 2kg</p>	