



MSL-R 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)	457±1	532±1	589±1
Output power (mW)	400-2000	700-5000	5000-10000
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<3%, <2%, <1%	<5%, <3%
Transverse mode	TEM ₀₀		
Longitudinal mode	Single		
Operating mode	CW		
Noise of amplitude (rms, 20Hz~20MHz)	<1%		
Polarization Ratio	>100:1		
M ² factor	<1.5	<1.2	
Beam diameter at the aperture (1/e ² , mm)	<1.5		
Beam divergence, full angle (mrad)	<1.5		
Spectral line width (nm)	<0.00001		
Pointing stability after warm-up (mrad)	<0.05		
Beam height from base plate (mm)	58		
Coherent length (m)	>50		
Warm-up time (minutes)	<15		
Cooled method (Water cooled)	WCH-400	WCH-600	
Operating Temperature (°C)	20-25		
Power supply (90-264VAC)	PSU-W-FDA		
Expected lifetime (hours)	10000		
Warranty	1 year		

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



SPECIFICATIONS

Wavelength (nm)	639±1	1064±1	1342±1
Output power (mW)	600-800	1000-10000	500-5000
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<5%, <3%, <2%, <1%	
Transverse mode	TEM ₀₀		
Longitudinal mode	Single		
Operating mode	CW		
Noise of amplitude (rms, 20Hz-20MHz)	<0.5%		
Polarization Ratio	>100:1		
M ² factor	<1.5		
Beam diameter at the aperture (1/e ² , mm)	~1.5		
Beam divergence, full angle (mrad)	<1.5		
Spectral line width (nm)	<0.00001		
Pointing stability after warm-up (mrad)	<0.05		
Beam height from base plate (mm)	58		
Coherent length (m)	>50		
Warm-up time (minutes)	<15		
Cooled method (Water cooled)	WCH-600		
Operating Temperature (°C)	20-30		
Power supply (90-264VAC)	PSU-W-FDA		
Expected lifetime (hours)	10000		
Warranty	1 year		

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

LASER HEAD	POWER SUPPLY
<p>432(L) × 187(W) × 83(H) mm³, 7.5kg</p>	<p>324 (L) × 168(W) × 123(H) mm³, 4.5 kg</p>
Water Chiller (WCH-600)	Water Chiller (WCH-400)
<p>269(L) × 350(W) × 322(H) mm³, 18 kg</p>	<p>197(L) × 279(W) × 343(H) mm³, 10 kg</p>