



MSL-R series

SINGLE LONGITUDINAL MODE LASER

All solid state single longitudinal mode laser is made features of ultra compact, easy operating, high power and stability, which is perfect for flow cytometry, spectrum analysis, microscopy, semiconductor inspection, cell sorting, optical instrument, , physics experiment, etc.



SPECIFICATIONS

Wavelength (nm)	320±1	355±1	360±1	457±1	532±1		639±1	721±1	1064±1	1342±1
Output power (mW)	30-200	10-100	150-300	350-3000	1000-5000	5000-10000	750-3000	350-1000	1000-10000	500-5000
Power stability (rms, over 4 hours)	<3%, <2%	<3%, <2%, <1%			<1%, <0.5%		<3%, <2%, <1%			
Transverse mode	TEM ₀₀									
Longitudinal mode	Single									
Operating mode	CW									
Noise of amplitude (rms, 20Hz~20MHz)	<1%, <0.5%				<0.1%, <0.05%		<0.5%			
M ² factor	<1.5				<1.2		<1.5			
Beam diameter at the aperture (1/e ² , mm)	<1.5				~2.2		~1.5			
Beam divergence, full angle (mrad)	<1.5				<0.5		<1.5			
Polarization Ratio	>100:1			>100:1, Horizontal (Vertical Optional)			>100:1, Vertical (Horizontal Optional)			
Spectral line width (nm)	<0.00001									
Pointing stability after warm-up (mrad)	<0.05									
Beam height from base plate (mm)	104.5	54	104.5	58	65			58		
Coherent length (m)	>50									
Warm-up time (minutes)	<15									
Cooled method (Water cooled)	WCH-580			WCH-580		WCH-580				
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(355)	LASER HEAD(320/ 360)	LASER HEAD(532)
<p>410(L) × 162(W) × 81(H) mm³, 11 kg</p>	<p>407.5(L) × 287(W) × 172.8(H) mm³</p>	<p>432(L) × 187(W) × 90(H) mm³, 11.5 kg</p>
LASER HEAD(457/ 1064/ 1342)	LASER HEAD(639/ 721)	
<p>432(L) × 187(W) × 83(H) mm³, 11.5 kg</p>	<p>460(L) × 187(W) × 90(H) mm³, 12 kg</p>	

POWER SUPPLY	Water Chiller (WCH-580)	Water Chiller (WCH-400)
<p>326.7 (L) × 168(W) × 123(H) mm³, 4.0 kg</p>	<p>253.2(L) × 363.8(W) × 240.6(H) mm³, 11.0 kg</p>	<p>197(L) × 279(W) × 343(H) mm³, 10.0 kg</p>