



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) | <1%, <2%, <3% | <1%, <2%, <3% | <3%, <5% |
| 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) | 59 | | |
| Coherent length (m) | >50 | | |
| Warm-up time (minutes) | <15 | | |
| Cooled method (Water cooled) | WCH-300 | 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) | <1%, <2%, <3% | <1%, <2%, <3%, <5% | |
| 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) | 59 | | |
| 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-300) |
| <p>269(L) × 350(W) × 322(H) mm³, 18 kg</p> | <p>197(L) × 279(W) × 343(H) mm³, 10 kg</p> |