



MSL-R series (701-2000nm)

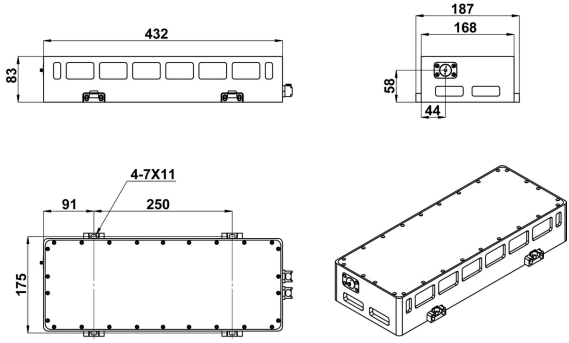
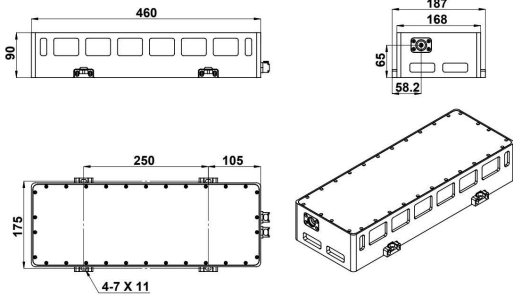
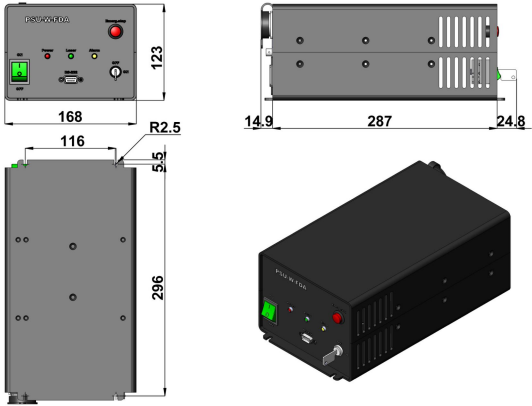
SINGLE LONGITUDINAL MODE LASER

All-solid-state-single-longitudinal mode laser features ultra-compact design, easy operation, high power and stability, which is perfect for flow cytometry, spectrum analysis, microscopy, semiconductor inspection, cell sorting, optical instruments, and physics experiments, etc.



SPECIFICATIONS

|                                                                 |                                        |        |          |
|-----------------------------------------------------------------|----------------------------------------|--------|----------|
| Wavelength (nm)                                                 | 721±1                                  | 1064±1 | 1342±1   |
| Output power (mW)                                               | 300mW-1W                               | 1W-10W | 500mW-5W |
| Power stability (rms, 4 hours ±3°C)                             | <3%, <2%, <1%                          |        |          |
| Transverse mode                                                 | TEM <sub>00</sub>                      |        |          |
| Longitudinal mode                                               | Single                                 |        |          |
| Operating mode                                                  | CW                                     |        |          |
| Noise of amplitude (rms, 20Hz-20MHz)                            | <0.5%                                  |        |          |
| M <sup>2</sup>                                                  | <1.3                                   |        |          |
| Beam diameter at the aperture (1/e <sup>2</sup> , mm)           | ~1.5                                   |        |          |
| Beam divergence, full angle (mrad)                              | <1.5                                   |        |          |
| Polarization ratio                                              | >100:1, Vertical (Horizontal optional) |        |          |
| Spectral line width (nm)                                        | <5MHz                                  |        |          |
| Pointing stability (μrad) (over 2 hours after warm-up and ±3°C) | <50                                    |        |          |
| Pointing stability over temperature (μrad/°C)                   | <8                                     |        |          |
| Beam height from base plate (mm)                                | 65                                     | 58     |          |
| Coherent length (m)                                             | >50                                    |        |          |
| Warm-up time (minutes)                                          | <15                                    |        |          |
| Cooled method (water cooled)                                    | WCH-580                                |        |          |
| Operating temperature (°C)                                      | 20-30                                  |        |          |
| Power supply (90-264VAC)                                        | PSU-W-FDA                              |        |          |
| Expected lifetime (hours)                                       | >10000                                 |        |          |

|                                                                                                                                                                              |                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>LASER HEAD (MSL-R-1064/1342)</p>  <p>432(L) × 187(W) × 83(H) mm<sup>3</sup>, 11.5 kg</p> | <p>LASER HEAD (MSL-R-721)</p>  <p>460(L) × 187(W) × 90(H) mm<sup>3</sup>, 12 kg</p>            |
| <p>POWER SUPPLY</p>  <p>326.7 (L) × 168(W) × 123(H) mm<sup>3</sup>, 4.0 kg</p>             | <p>Water Chiller (WCH-580)</p>  <p>253.2(L) × 363.8(W) × 240.6(H) mm<sup>3</sup>, 11.0 kg</p> |

1 Any power level can be selected in this range.

2 Fixed output power.