

MSL-T-XXX series (701-1000nm)

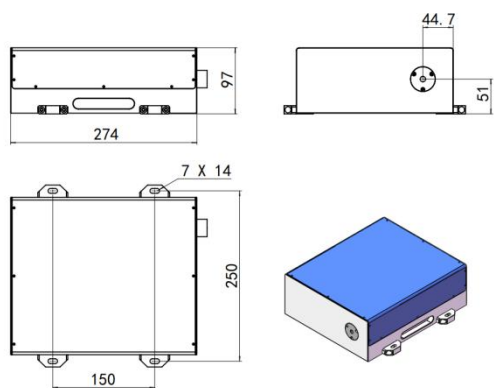
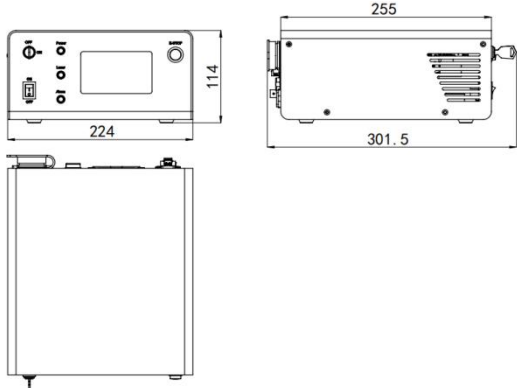
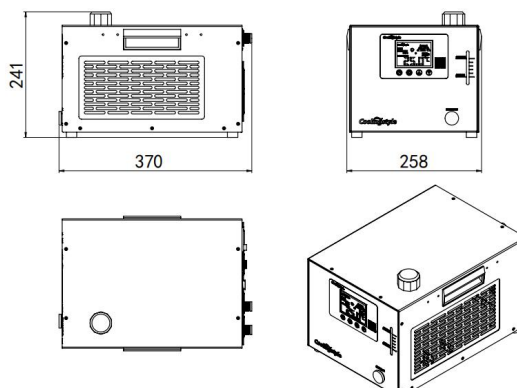
**WATER COOLING CWSINGLE LONGITUDINAL LASER**

All solid state single longitudinal mode laser is made features of ultra compact, which is widely used in quantum computing, cell sorting, laser cooling of potassium atoms, spectrum analysis, surface-enhanced Raman scattering, cold-atom physics, etc.



**SPECIFICATIONS**

| Wavelength (nm)                                      | 729±1                                | 770±1 | 780±1 | 785±1 | 808±1 | 852±1 |
|------------------------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|
| Operating mode                                       | CW                                   |       |       |       |       |       |
| Longitudinal mode                                    | Single                               |       |       |       |       |       |
| Output power (mW) <sup>1</sup>                       | 1-300                                |       |       |       |       |       |
| Spectral line width (nm)                             | <0.000005(<10MHz)                    |       |       |       |       |       |
| Coherent length (m)                                  | >30                                  |       |       |       |       |       |
| Power stability (rms, 4 hours±3°C)                   | <1%, <0.5%                           |       |       |       |       |       |
| Beam divergence, full angle (mrad)                   | <1                                   |       |       |       |       |       |
| Beam diameter at the aperture (1/e <sup>2</sup> ,mm) | <2                                   |       |       |       |       |       |
| M <sup>2</sup>                                       | <1.2                                 |       |       |       |       |       |
| Noise of amplitude (rms,20Hz-20MHz)                  | <0.5%                                |       |       |       |       |       |
| Polarization ratio                                   | >100:1,Vertical(Horizontal optional) |       |       |       |       |       |
| Beam height from base plate (mm)                     | 51                                   |       |       |       |       |       |
| Cooled method                                        | Water cooled                         |       |       |       |       |       |
| Operating temperature (°C)                           | 15-35                                |       |       |       |       |       |
| Power supply (220/110VAC)                            | RAD1PS                               |       |       |       |       |       |
| Expected lifetime (hours)                            | >10000                               |       |       |       |       |       |

| LASER HEAD                                                                                                                               | POWER SUPPLY <sup>2</sup>                                                                                                         | WATER CHILL                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>274 (L) ×250(W) ×97(H) mm<sup>3</sup>, 8.2 kg</p> |  <p>301.5(L) ×224(W) ×114(H) mm 3, 2.3 kg</p> |  <p>370(L) ×258 (W) ×240.6(H) mm<sup>3</sup>, 8.3 kg</p> |

1 Any power level can be selected in this range.

2 Fixed output power.