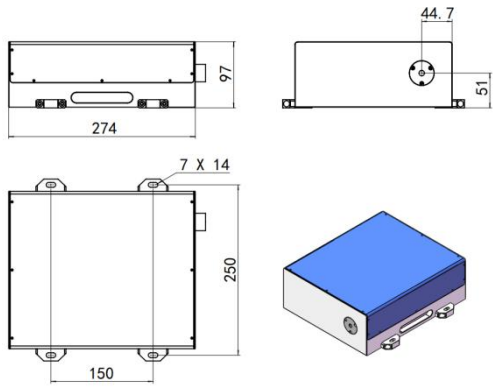
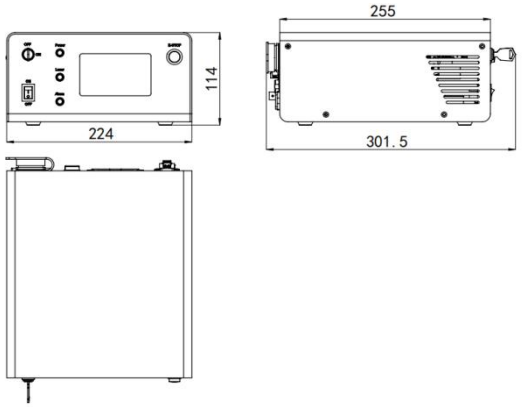
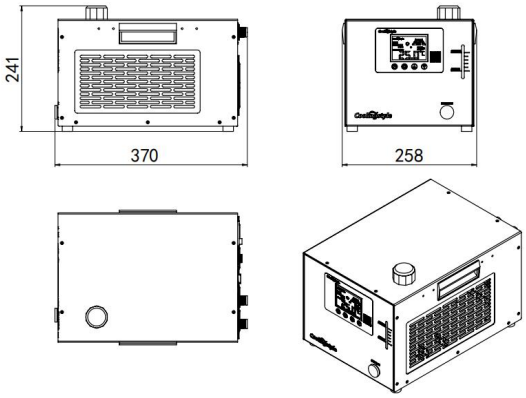
MSL-T-XXX Series (300-700nm)

WATER COOLING CW SINGLE LONGITUDINAL LASER

All solid state single longitudinal mode laser is made features of ultra compact, long lifetime, low cost and easy operating. Single-longitudinal-mode lasers at 369 nm, 375 nm, 405nm and 411 nm are important light sources for atomic physics, quantum information science, precision spectroscopy, and biophotonics.

SPECIFICATIONS

Wavelength (nm)	369±1	375±1	405±1	411±1
Operating mode	CW			
Longitudinal mode	Single			
Output power (mW)[1]	1-80			
Spectral line width (nm)	<0.000005 (<10MHz)			
Coherent length (m)	>30			
Power stability (rms, 4 hours±3℃)	<1%, <0.5%			
Beam divergence, full angle (mrad)	<1			
Beam diameter at the aperture (1/e^2,mm)	<2			
M^2	<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 (℃)	15-35			
Power supply (220/110VAC)	RAD1PS			
Expected lifetime (hours)	>10000			

LASER HEAD	POWER SUPPLY[2]	WATER CHILL
		
274 (L) ×250(W) ×97(H) mm^3, 8.2 kg	**301.5(L) ×224(W) ×114(H) mm 3, 2.3 kg**	**370(L) ×258 (W) ×240.6(H) mm^3, 8.3 kg**

1 Any power level can be selected in this range.
2 Fixed output power.