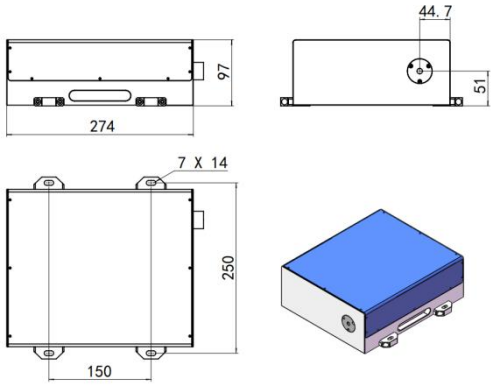
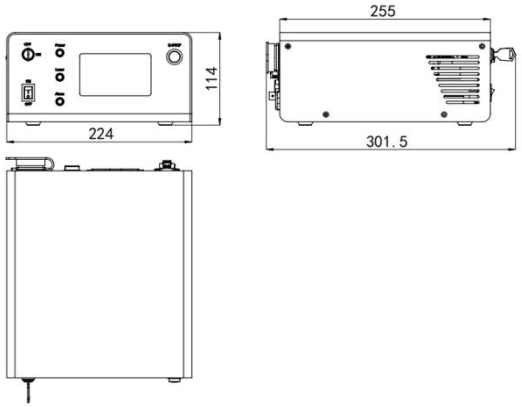
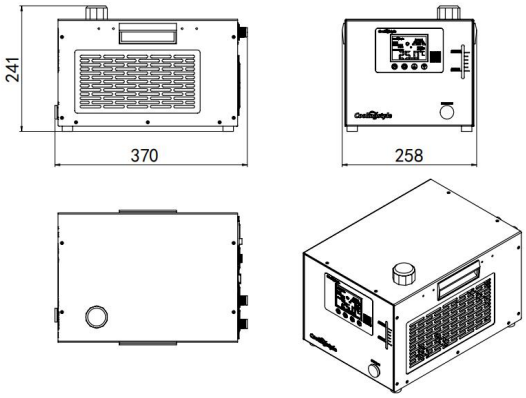
MSL-T-XXX Series (300-700nm)

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.

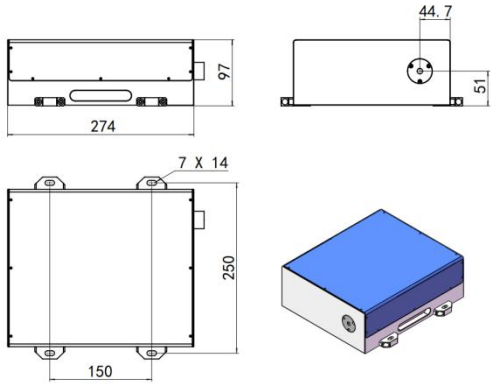
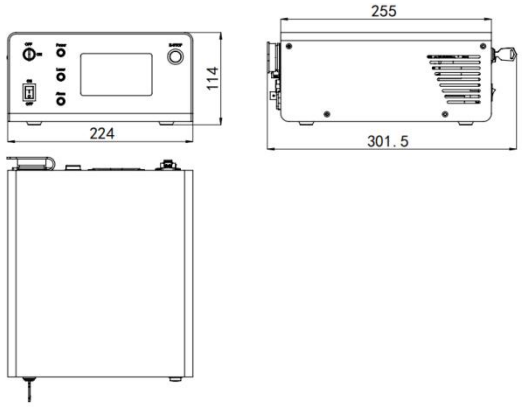
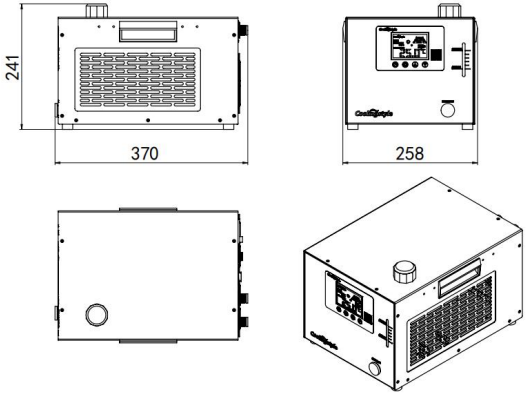
MSL-T-XXX series (701-1000nm)

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)[1]	1-300					
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/e²,mm)	<2					
M²	<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) mm³, 8.2 kg	301.5(L) ×224(W) ×114(H) mm 3, 2.3 kg	370(L) ×258 (W) ×240.6(H) mm³, 8.3 kg

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