



Lasers for Low Frequency Raman

SLM Laser with High Spectral purity
All solid state single longitudinal mode laser is made features of ultra compact, long lifetime, low cost and easy operating, which have high spectral purity at $\pm 5\text{cm}^{-1}$ from the main peak, and perfectly suit for low frequency raman.



SPECIFICATIONS



Model	MSL-S-532-Raman	MSL-U-532-Raman
Wavelength (nm)	532±0.05(air condition)	
Output power (mW)	1- 150	1-500
Power stability (rms, over 4 hours)	<0.5%	
Transverse mode	TEM ₀₀	
Longitudinal mode	Single	
Operating mode	CW	
Spectral line width (nm)	1MHz (<3×10 ⁻⁵ cm ⁻¹)	
Frequency shift over 8 hours (pm)	<2pm (<0.07cm ⁻¹)	
Wavenumber cut-off for raman spectrum (cm ⁻¹)	<5	
Spectral purity @±0.14nm (5cm ⁻¹) from the main peak	>60dB	
Spectral purity @±2nm (70cm ⁻¹) from the main peak	>80dB	
M ² factor	<1.1	
Beam diameter at the aperture(1/e ² ,mm)	<0.8	
Beam divergence, full angle (mrad)	<1.2	
Noise of amplitude (rms, 1Hz~20MHz)	<0.2%	
Noise of amplitude (pk-pk)	<1%	
Polarization Ratio	>100:1, Horizontal (Vertical Optional)	>100:1, Vertical (Horizontal Optional)
Pointing stability after warm-up (mrad)	<0.05	
Warm-up time (minutes)	<5	
Beam height from base plate (mm)	19	27.4
Power Supply	12V DC (220VAC Controller Optional)	PSU-H-FDA
Operating temperature (°C)	15~35	
Storage temperature (°C)	- 10~50	
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 (MSL-S-532-Raman)	LASER HEAD (MSL-U-532-Raman)	POWER SUPPLY (PSU-H-FDA)
<p style="text-align: center;">102.5 (L) × 40 (W) × 40(H) mm³, 0.26kg</p>	<p style="text-align: center;">142.5 (L) × 60(W) × 50(H) mm³, 1.0 kg</p>	<p style="text-align: center;">276.6(L) × 145(W) × 103.6(H) mm³, 2.3 kg</p>