Specification Sheet

Ultralasers, Inc

MSL-FN-556/1~100mW



SINGLE LONGITUDINAL MODE LASER AT 556nm

All solid state single longitudinal mode laser at 556nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, brillouin scattering, physics experiment, etc.







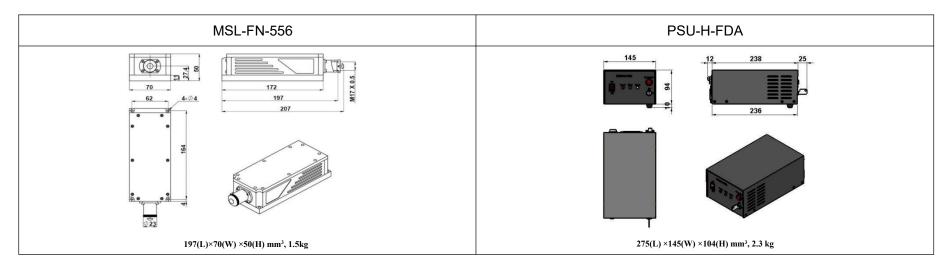


SPECIFICATIONS

Wavelength (nm)	556±1
Operating mode	CW
Output power (mW)	>1, 2, 3,, 50
Power stability (rms, over 4 hours)	<1%, <2%, <3%, <5%
Transverse mode	TEM_{00}
Longitudinal mode	Single
Spectral linewidth (nm)	<0.00001
Coherent length (m)	>50
Noise of amplitude (rms, 1Hz~20MHz)	<0.5%, <1%
M ² factor	<1.2
Beam diameter at the aperture (1/e², mm)	<2.0
Beam divergence, full angle (mrad)	<1.2
Polarization ratio	>100:1 Horizontal±5 degree (Vertical Optional)
Warm-up time (minutes)	<5
Pointing stability after warm-up (mrad)	<0.05
Beam height from base plate (mm)	27.4
Laser head consumption (W)	15 (typical), <25 (40°C)
Operating temperature (°C)	10~40
Power supply (90-264VAC)	PSU-H-FDA
Expected lifetime (hours)	10000







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