MDL-C-640/1-50mW

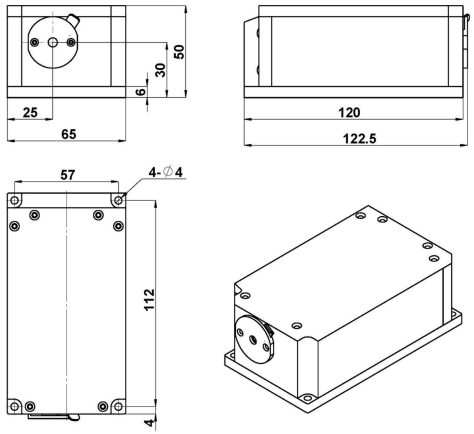
LONG COHERENT LENGTH DIODE LASER AT 640nm

It features a long coherent length, stable wavelength, long lifetime and easy operation. They are widely used in holography, interference, fluorescence, photoetching, flow cytometry, DNA sequencing, Raman spectroscopy, Laser radar, precision measurement, etc.

SPECIFICATIONS

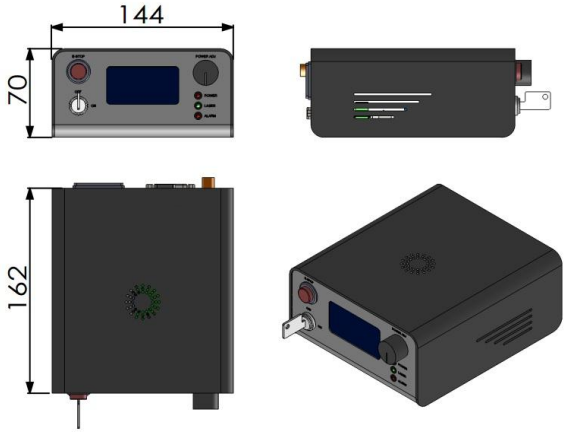
Central wavelength (nm)	640±5
Operating mode	CW
Output power (mW)[1]	1-50
Power stability (rms, 4 hours ± 3°C)	<3%, <2%, <1%
Frequency shift (pm) (over ±2°C and 2hrs)	<20
Transverse mode	Near TEM_{00}
Coherent length (m)[2]	>1
M^2	<1.5
Beam diameter at the aperture ($1/e^2$, mm)	~2.0
Beam divergence, full angle (mrad)	<1.5
Polarization ratio	>50:1, (>100:1 optional) Horizontal±5 degree (Vertical optional)
Warm-up time (minutes)	<5
Cooled method	Conduction
Beam height from base plate (mm)	30
Operating temperature (°C)	20-30
Power supply (100-240VAC)	PSU-A-D
Expected lifetime (hours)	>10000

LASER HEAD



122.5 (L) ×65 (W) ×50 (H) mm^3, 1.0kg

POWER SUPPLY[3]



162 (L) ×144 (W) ×70 (H) mm^3, 1.0kg

1 Any power level can be selected in this range.

2 Michelson Interferometer Method Measurement.

3 Output power adjustable 10-100%; RS232 control optional.

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