MDL-E-642/1-50mW

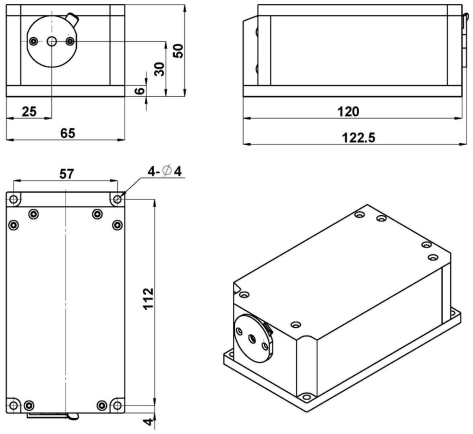
NARROW LINEWIDTH DIODE LASER AT 642nm

It features a narrow spectral linewidth, stable wavelength, long lifetime and easy operation. They are widely used in precision measurement, high resolution spectrum analysis, etc.

SPECIFICATIONS

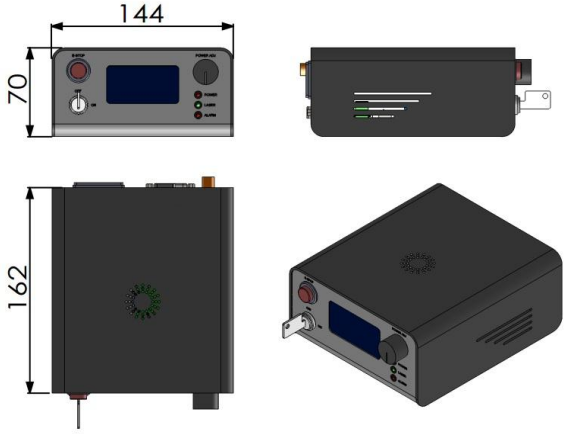
Central wavelength (nm)	642±5
Spectral line width (nm)	<0.06, <0.03
Operating mode	CW
Output power (mW)[1]	1-50
Power stability (rms, 4 hours ± 3°C)	<3%, <2%, <1%
Frequency shift (pm) (over ±2°C and 2hrs)	<20
Transverse mode	Near TEM_{00}
M^2	<1.5
Beam diameter at the aperture ($1/e^2$, mm)	~2.0
Beam 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) mm³, 1.0kg

POWER SUPPLY[2]



162 (L) ×144 (W) ×70 (H) mm³, 1.0kg

1 Any power level can be selected in this range.

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

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