



MRL-III-642/1~200mW



**RED DIODE LASER  
AT 642nm**

Red diode laser at 642nm is made features of ultra compact, long lifetime, cost-effectiveness and easy operating, which is widely used in measurement, spectrum analysis, laser lighting show, etc.



**SPECIFICATIONS**

Wavelength (nm)	642±5
Operating mode	CW
Output power (mW)	>1,10,20,..., 200
Power stability (rms, over 4 hours)	<1%, <3%, <5%
Transverse mode	Near TEM <sub>00</sub>
M <sup>2</sup> factor	<1.5 (<1.2, optional)
Beam diameter at the aperture (1/e <sup>2</sup> ,mm)	~3.0 (~1.2, optional)
Beam divergence, full angle (mrad)	<1.0
Polarization ratio	>50:1 (>100:1, optional) Horizontal±5 degree (Vertical Optional)
Warm-up time (minutes)	<5
Pointing stability after warm-up (mrad)	<0.05
Beam height from base plate (mm)	24.8
Operating temperature (°C)	10~35
Power supply (85-264VAC)	PSU-III-LED/ PSU-III-FDA
TTL / Analog modulation	TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional
Expected lifetime (hours)	10000
Warranty	1 year



MxL-III-642	PSU-III-LED	PSU-III-FDA
<p>143.5(L)×73(W)×46.2(H) mm<sup>3</sup>, 0.7kg</p>	<p>188.6 (L) ×155(W) ×92 (H) mm<sup>3</sup>, 1.5kg</p>	<p>171(L) ×130(W) ×62.2 (H) mm<sup>3</sup>, 1.2kg</p>