Nano-Giga

Your source for high quality, affordable lasers

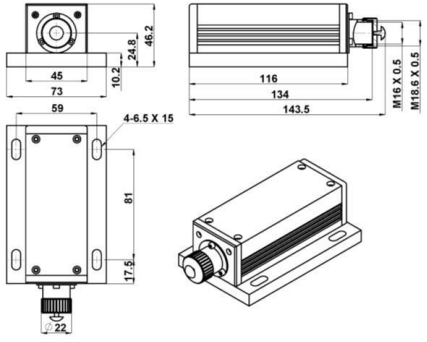
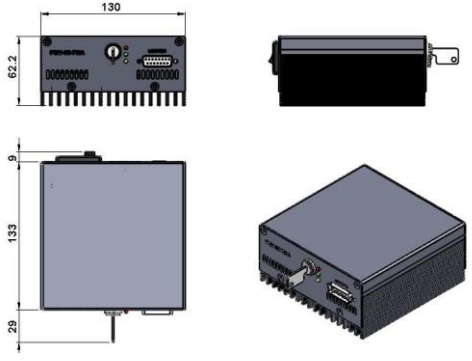
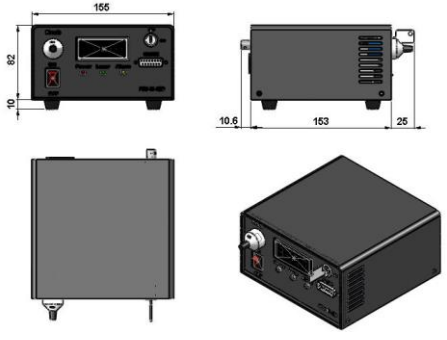
DATA SHEET

RED DIODE LASER AT 637nm

Red diode laser at 637nm 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.

Model: MRL-III-637/1~200mW

Wavelength (nm)	637 ± 5nm	
Output power (mW)	>1, 10, …, 200	
Transverse mode	Near TEM_{00}	
Operating mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
M^2 factor	<1.5 (<1.2, optional)	
Warm-up time (minutes)	<5	
Beam divergence, full angle (mrad)	<1.0	
Beam diameter at the aperture (mm)	~3.0 (~1.2, optional)	
Polarization ratio	>50:1 (>100:1, optional), Horizontal±5 degree (Vertical Optional)	
Beam height from base plate (mm)	24.8	
Operating temperature (℃)	10~35	
Power supply (85-264VAC)	PSU-III-LED	PSU-III-FDA
Modulation option	TTL on/off, 1Hz-5KHz, 1Hz-10KHz, 10Hz-30KHz; and Analog modulation option	
Expected lifetime (hours)	10,000	
Warranty period	1 year	

MRL-III-637	Dimensions	PSU-III-FDA	PSU-III-LED
			
	143.5(L)×73(W)×46.2(H) mm³, 0.7kg	**171(L)×130(W)×62.2(H) mm³, 1.2kg**	**188.6(L)×155(W)×92(H) mm³, 1.5 kg**