



Your source for high quality, affordable lasers

Model: MDL-III-445 / 80~1000mW

DATA SHEET

BLUE DIODE LASER AT 445nm

Diode laser module at 450 nm is made features of ultra-compact, long lifetime, cost-effectiveness and easy operating, which is widely used in scientific research, laser pointing, laser show and RGB mixed laser systems applications.



Wavelength (nm)	445 ± 5nm	
Output Power (mW)	>80, 100, ..., 500	>500, 600, ..., 1000
Transverse Mode	Multimode	
Operating Mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Warm-up time (minutes)	<5	
Beam divergence, full angle (mrad)	<2.1 x 1.6	<2.5 x 0.2
Beam diameter at the aperture (1/e ² , mm)	<2.5 x 5.2	<2 x 5
Beam height from base plate (mm)	24.8	
Operating temperature (°C)	10~35	
Power supply (85-264VAC)	PSU-III-LED	PSU-III-FDA
Modulation option	TTL/Analog, 1Hz-5KHz, 1Hz-10KHz, 1Hz-30KHz, and TTL on/off	
Expected lifetime (hours)	10,000	
Warranty period	1 year	

MDL-III-445	Dimensions	PSU-III-LED	PSU-III-FDA
	<p>143.5(L) × 73(W) × 46.2(H) mm³, 0.7kg</p>	<p>188.6(L) × 155(W) × 92(H) mm³, 1.5kg</p>	<p>171(L) × 130(W) × 62.2(H) mm³, 1.2kg</p>