

## MDL-III-445/447/450/80~1000mW



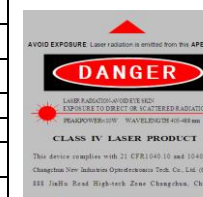
### BLUE DIODE LASER AT 445/447/450nm

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are widely used in scientific research, laser pointing, show and RGB mixed laser systems applications.



### SPECIFICATIONS

Model	MDL-III-445	MDL-III-447	MDL-III-450
Central wavelength (nm)	445 ±5	447 ±5	450 ±5
Operating mode	CW		
Output power (mW)	>80,90,...,500		>500,600,...,1000
Power stability (rms, over 4 hours)	<1%, <2%, <3% (<0.5%, optional)		
Transverse mode	Multimode		
Beam diameter at the aperture ((1/e <sup>2</sup> ),mm)	<2.5×5.2		<2×5
Beam divergence, full angle (mrad)	<2.1×1.6		<2.5×0.2
Polarization ratio	>50:1 (>100:1, optional) Horizontal ±5 degree (Vertical Optional)		
Warm-up time (minutes)	<5		
Beam height from base plate (mm)	24.8		
Operating temperature (°C)	10~35		
Power supply	85-264VAC	PSU-III-LED/ PSU-III-FDA (Frequency for 1Hz-30kHz)	
	100-240VAC	PSU-A-D (Frequency for 30kHz -100kHz)	
TTL / Analog modulation	TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz optional		
Expected lifetime (hours)	10000		
Warranty	1 year		



MDL-III-445/447/450	PSU-III-LED	PSU-III-FDA	PSU-A-D
<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>	<p>162(L) ×144(W) ×70 (H) mm<sup>3</sup>, 1.0kg</p>