

**BLUE DIODE LASER AT 450nm**

**SPECIFICATIONS**

- |                   |                     |
|-------------------|---------------------|
| <b>Features</b>   | <b>Applications</b> |
| - ultra compact   | - research          |
| - long lifetime   | - medical imaging   |
| - low owning cost | - flow cytometry    |
| - ease-to-use     | - DNA sequencing    |

Wavelength (nm)	450±5	
Output power (mW)	30, 50, 100, 300, 500	1000
Transverse mode	near TEM <sub>00</sub>	
Operating mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, 5%	
Warm-up time (minutes)	<5	
Beam diameter at the aperture (mm)	~5	~2x4
Beam divergence, full angle (mrad)	<1.5	<3.0x0.5
Beam height from base plate (mm)	24.8	
Pointing stability after warm-up (mrad)	<0.05	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-III-FDA	PSU-III-LED
Modulation (optional)	TTL or analog, 1Hz-5kHz, 1Hz-10kHz, 1Hz-30kHz	
Expected lifetime (hours)	10 000	
Warranty	1 year	



MDL-III-450	PSU-III-LED	PSU-III-FDA
<p><b>139(L) × 73(W) × 46.2(H) mm<sup>3</sup>, 0.6kg</b></p>	<p><b>154 (L) × 155(W) × 95(H) mm<sup>3</sup>, 1.5kg</b></p>	<p><b>133 (L) × 130(W) × 65 (H) mm<sup>3</sup>, 1.2kg</b></p>