

## Low Noise Laser

### Specifications

<b>Model Number</b>	<b>LN-B457-1000-DB</b>	
<b>Optical Specifications</b>		
Wavelength	457 nm	
Center Wavelength Deviation	+/- 1 nm	
Output Power	< 400 mW	400~1000 mW
M <sup>2</sup>	< 2.1	
Longitudinal Mode	Multi	
Transverse Mode	Near TEM00	Near TEM01
Power Stability (over 4 hours) (rms)	< 10 % (optional: < 3%, < 5%)	
Operating Mode	CW	
Polarization Ratio	> 100:1	
Beam Diameter at the Aperture (1/e <sup>2</sup> )	~ 3.0mm	
Noise of Amplitude (rms, 1Hz-20MHz)	< 3%	
Beam Divergence (Full Angle)	< 1.6 mrad	
Warm-up time	< 12 minutes	
Pointing Stability after Warm-up	< 0.05	
Beam Height from Base Plate	45 mm	
Working Temperature	10 to 35 ° C	
Cooling Mode	TEC / FANS	
Estimated Lifetime (MTTF)	10000 hours	
Warranty Time	1 year	
<b>Mechanical Specifications</b>		
Dimension of Laser Head	211 (L) x 88 (W) x 74 (H) mm	
Dimension of Power Supply	236 (L) x 145 (W) x 104 (H) mm	238 (L) x 146 (W) x 94 (H) mm
Dimensional Tolerances	+/- 1 mm	