

520 nm Single Longitudinal Mode Diode Laser

Model #: MDL-III-520L

Description: It features ultra-compact design, long lifetime, cost-effective and easy operation.

Application: Bioinstrumentation, metrology, sensing, analytical instrumentation, laser projection, laser show.

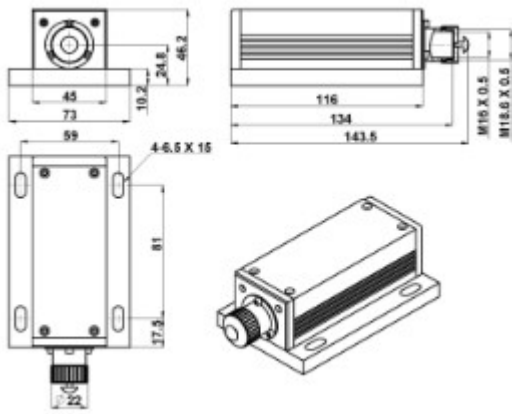
Specifications

Wavelength (nm)	520 ± 5	
Operation Mode	CW	
Output Power after Fiber (mW)	>10, 20, ..., 50	
Power Stability (rms, over 4 hours)	<1%, <2%, or <3% (0.5% optional)	
Transverse Mode	Near TEM ₀₀	
Noise of Amplitude (rms, 2Hz-200MHz)	<1%	
Beam Diameter at Aperture (1/e ² mm)	~ 3.0	
Beam Divergence, full angle (mrad)	<1.0	
Polarization Extinction Ratio	>50:1 (>100:1 optional), Horizontal ± 5°	
Warm-up Time (minutes)	<5	
Pointing Stability after Warm-up (mrad)	<0.05	
Beam Height from the Base Plate (mm)	24.8	
Operating Temperature (C°)	10 ~ 35	
Power Supply	85-264VAC	PSU-III-FDA/PSU-III-LED (Frequency for 1Hz-30kHz)
	100-240VAC	PSU-A-D (Frequency for 30k)
TTL / Analog Modulation	TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz optional	
Expected Lifetime (hours)	10000	
Warranty Period	1 year	

Ordering Information: MDL-III-520L-AA-B-C

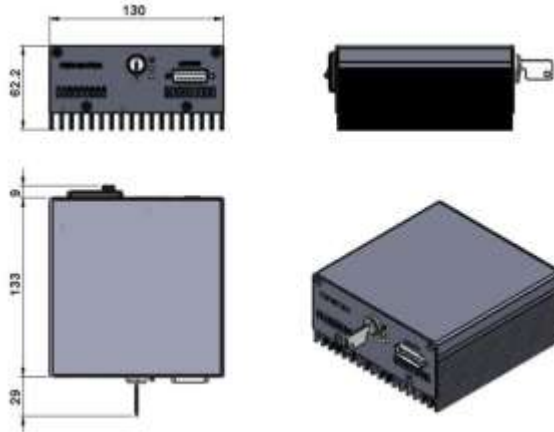
AA: maximum output power	B: power stability	C: power driver
10 - 10 mW	1 - 1%	1 - PSU-III-FDA
.....	2 - 2%	2 - PSU-III-LED
50 - 50 mW	3 - 3%	3 - PSU-A-D
X - other		

MDL-III-520L



143.5(L)x73(W)x46.2(H) mm³, 0.7kg

PSU-III-FDA



171(L)x130(W)x62.2(H) mm³, 1.2 kg

PSU-III-LED



188.6(L)x155(W)x92(H) mm³, 1.5kg

PSU-A-D



162(L)x144(W)x70(H) mm³, 1.0 kg

