

## ***MDL-III Series Line Laser***



### ***MDL-III Series Line Laser***

The laser is made features of high power, high straightness, perfect line uniformity and high stability to adapt to various environments.

The user can choose from IR, red, green, blue, violet or UV wavelengths depending on the application and material to be inspected.

MDL-III Series Line Laser with its stable performance, high reliability works professionally in road detection, railway detection, tunnel and high-speed rail detection, etc.

### ***FEATURES***

- Output power up to 2500mW
- Wavelengths from 375 to 1550nm
- TTL modulation up to 100kHz
- Analog modulation up to 100kHz

### ***APPLICATIONS***

- Road detection
- Railway detection
- Tunnel detection
- High-speed rail detection

**SYSTEM SPECIFICATION\***

Wavelength (nm)	375	405	488	450	520	640	655	750	785	808	830	852	915	940	980	1060	1470	1550
Wavelength tolerance (nm, typical)	±5	±5	±5	±5	±10	±5	±10	±5	±10	±5	±10	±10	±5	±5	±10	±5	±10	±20
Max. power (W)	0.3	1	0.4	1	0.8	0.2	1	2	2.5	2.5	2	1.5	1.5	1	2	1.5	0.5	1
Power stability (rms, over 4hours)	<1%, <2%, <3%																	
Line angle	5°, 7°, 10°, 15°, 30°, 45°, 50°, 60°, 75°, 90°, 100° (Other angles are available upon request)																	
Laser operation mode	CW																	
Luminance uniformity	80%																	
Straightness error	Less than 0.5%																	
85% peak power proportion in corss-section	95%																	
Temperature & power stability	Less than 0.5%																	
Expected lifetime	10,000																	

**ELECTRICAL SPECIFICATIONS**

Power supply		PSU-III-LED	PSU-III-FDA	PSU-A-D
Input voltage	VAC	85-264	85-264	100-240
Modulation		TTL modulation Analog modulation		
Modulation frequency	kHz	TTL up to 30 Analog up to 30	TTL up to 30 Analog up to 30	TTL up to 100 Analog up to 100

**ENVIRONMENTAL CONDITIONS**

Operating temperature	°C	10°C to 35°C
Storage temperature	°C	-20 °C to +80 °C
Humidity	%	< 90 %, non-condensing

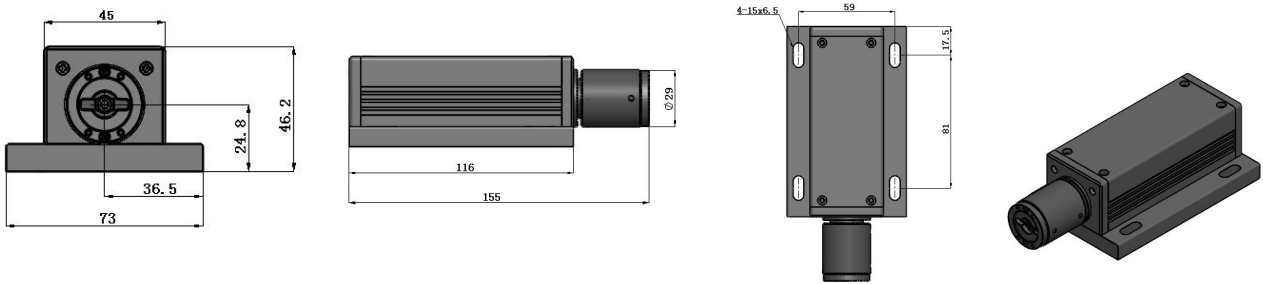
**KEYNOTES**

\*All testing data under the conditions of temperature 25°C.

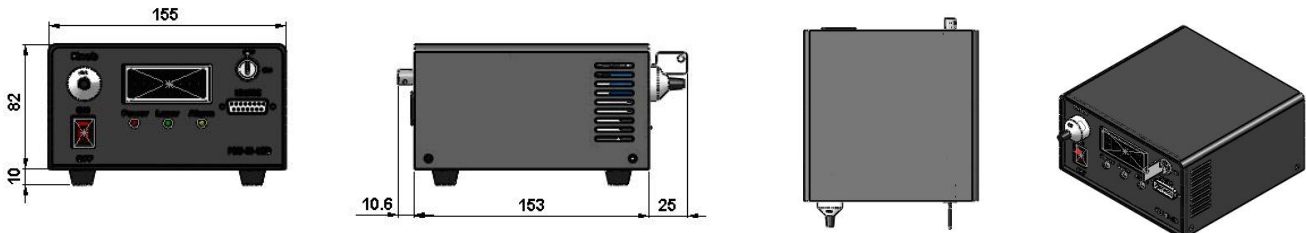
### MECHANICAL SPECIFICATIONS

Dimensions of laser head	mm	155 x 73 x 46.2		
Dimensions of power supply	mm	PSU-III-LED	PSU-III-FDA	PSU-A-D
		188.6 x 155 x 92	171 x 130 x 62.2	162 x 144 x 70
Material		Aluminum		

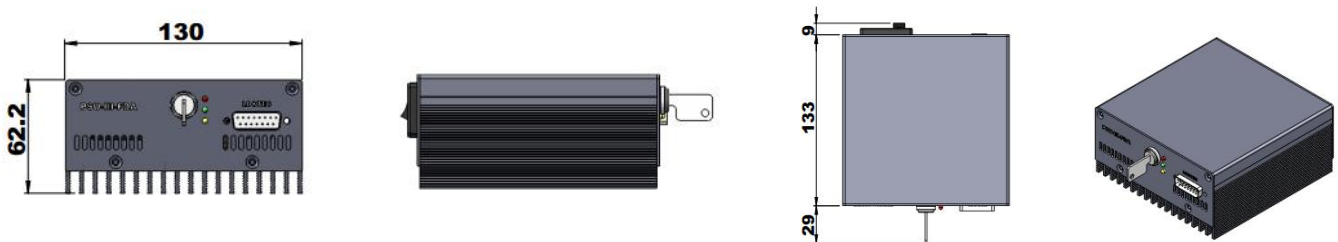
### DIMENSIONS OF LASER HEAD (mm):



### DIMENSIONS OF POWER SUPPLY FOR PSU-III-LED (mm):



### DIMENSIONS OF POWER SUPPLY FOR PSU-III-FDA (mm):



### DIMENSIONS OF POWER SUPPLY FOR PSU-A-D (mm):

