

MDL-H Series Line Laser



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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 IR or red wavelengths depending on the application and material to be inspected.

MDL-H 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 5W
- Wavelengths from 750 to 1060nm
- TTL modulation up to 30kHz
- Analog modulation up to 30kHz

APPLICATIONS

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

SYSTEM SPECIFICATION*

| | | | | |
|---|-----------------|---|--------------|--------------|
| Wavelength | nm | 750 | 808 | 1060 |
| Wavelength tolerance | nm (typical) | ±5 | ±5 | ±10 |
| Output power | W | 2-5 | 2.5-5 | 1.5-5 |
| 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 | hours | 10,000 | | |

ELECTRICAL SPECIFICATIONS

| | | | |
|----------------------|-----|-------------------------------------|-------------|
| Power supply | | PSU-H-LED | PSU-H-FDA |
| Input voltage | | 100-240V AC | 100-240V AC |
| Modulation | | TTL modulation Analog modulation | |
| Modulation frequency | kHz | TTL up to 30 Analog up to 30 | |

ENVIRONMENTAL CONDITIONS

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

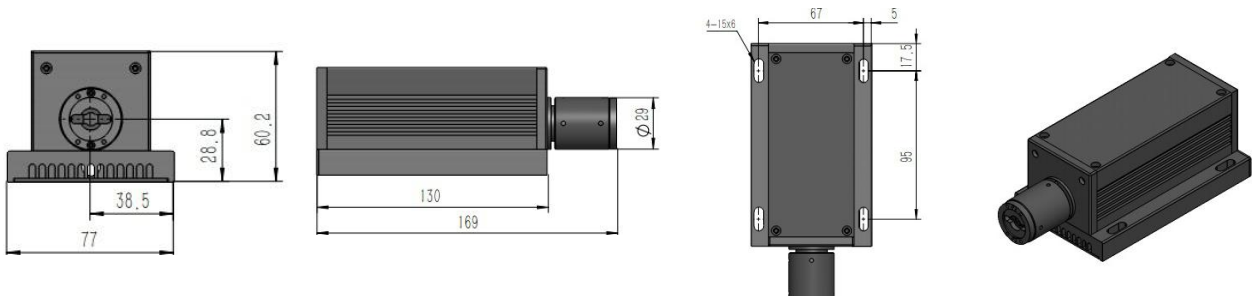
MECHANICAL SPECIFICATIONS

| | | | |
|----------------------------|----|------------------------------|------------------------------|
| Dimensions of laser head | mm | 169 x 77 x 60.2 | |
| Dimensions of power supply | mm | PSU-H-LED 277 x 145 x 106 | PSU-H-FDA 275 x 145 x 104 |
| Material | | Aluminum | |

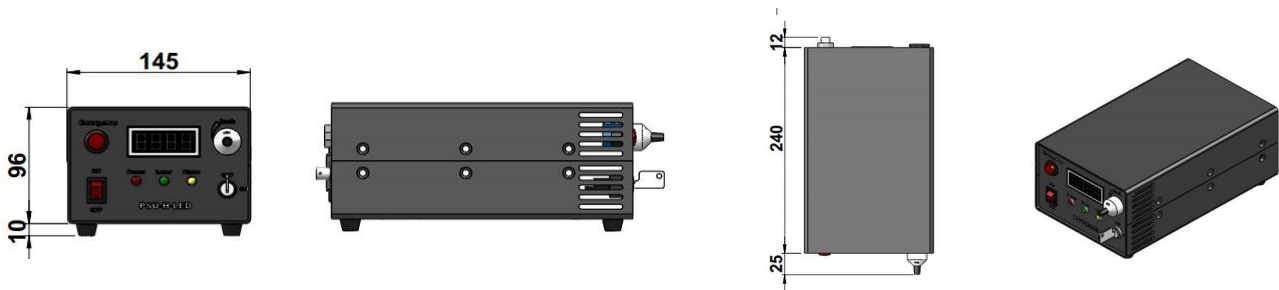
KEYNOTES

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

DIMENSIONS OF LASER HEAD (mm):



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



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

