



MIL-U-xxx-SU series (900-1050nm)



LD PUMPED ALL-SOLID-STATE INFRARED LASER

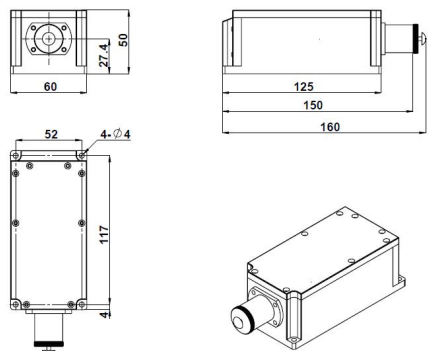
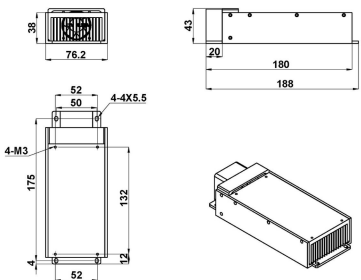
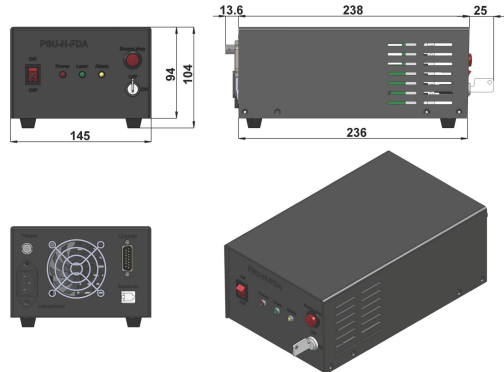
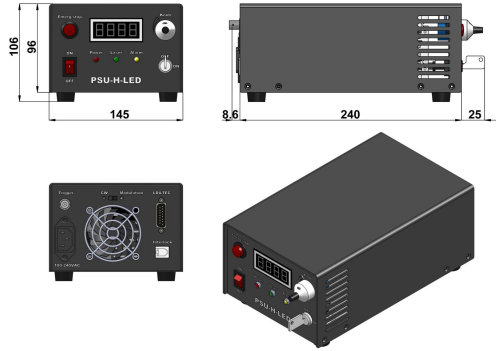
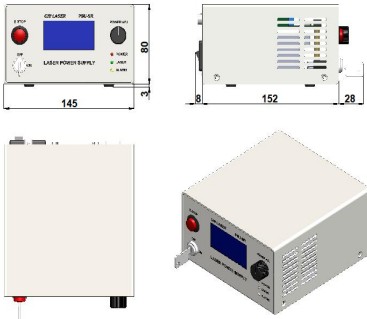
The all-solid-state infrared laser is characterized by its ultra-compact design, long lifetime, and ease of operation. It is commonly used in scientific experiments, optical instrumentation, optical sensing, measurement, communication, and spectral analysis.



SPECIFICATIONS

|                                                                 |                                        |          |                                        |
|-----------------------------------------------------------------|----------------------------------------|----------|----------------------------------------|
| Wavelength (nm)                                                 | 914±1                                  | 946±1    | 1047±1                                 |
| Operating mode                                                  | CW                                     |          |                                        |
| Output power (mW) <sup>1</sup>                                  | 800-1700                               | 800-1500 | 1000-4000                              |
| Power stability (rms, 4 hours ±3°C)                             | <3%, <2%, <1%                          | <3%, <2% | <3%, <2%, <1%                          |
| Transverse mode                                                 | TEM <sub>00</sub>                      |          |                                        |
| M <sup>2</sup>                                                  | <1.5                                   |          |                                        |
| Beam diameter at the aperture (1/e <sup>2</sup> , mm)           | ~1.0                                   |          |                                        |
| Beam divergence (mrad)                                          | <1.5                                   |          |                                        |
| Polarization ratio                                              | >100:1, Horizontal (Vertical optional) | /        | >100:1, Horizontal (Vertical optional) |
| Warm-up time (minutes)                                          | <5                                     |          |                                        |
| Pointing stability (μrad) (over 2 hours after warm-up and ±3°C) | <50                                    |          |                                        |
| Beam height from base plate (mm)                                | 27.4                                   |          |                                        |
| Operating temperature (°C)                                      | 10-35                                  |          |                                        |
| Modulation optional                                             | /                                      |          |                                        |
| Power supply (100-240VAC)                                       | PSU-H-FDA/PSU-H-LED/PSU-SR             |          |                                        |
| Expected lifetime (hours)                                       | >10000                                 |          |                                        |



| LASER HEAD <sup>2</sup>                                                                                                                  | HEATSINK (optional TC-04-FS)                                                                                                          | POWER SUPPLY (PSU-H-FDA) <sup>3</sup>                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>160(L)×60(W)×50(H) mm<sup>3</sup>, 0.9kg</p>        |  <p>188(L)×76.2(W)×43(H) mm<sup>3</sup>, 0.65kg</p> |  <p>276.6(L)×145(W)×103.6(H) mm<sup>3</sup>, 2.3kg</p> |
| POWER SUPPLY (PSU-H-LED) <sup>4</sup>                                                                                                    | POWER SUPPLY (PSU-SR) <sup>4</sup>                                                                                                    |                                                                                                                                           |
|  <p>273.6 (L)×145(W)×106 (H) mm<sup>3</sup>, 2.3kg</p> |  <p>188(L)×145(W)×83(H) mm<sup>3</sup>, 1.2kg</p>  |                                                                                                                                           |

1 Any power level can be selected in this range.

2 The laser head needs to be used on a heat sink with good heat dissipation.

3 Fixed output power.

4 Output power adjustable 10-100%; RS232 control optional.