



MIL-U-xxx-SU series (1121-1450nm)



LD PUMPED ALL-SOLID-STATE INFRARED LASER

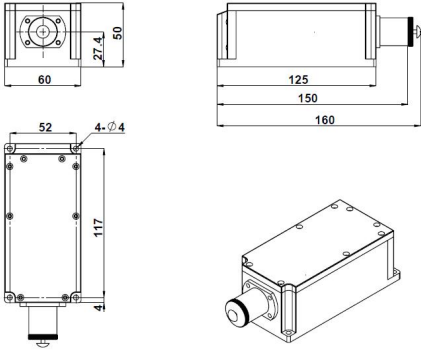
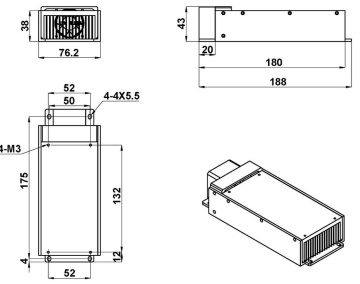
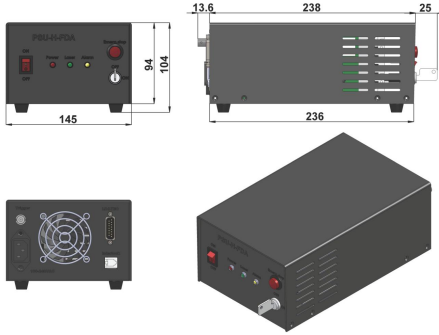
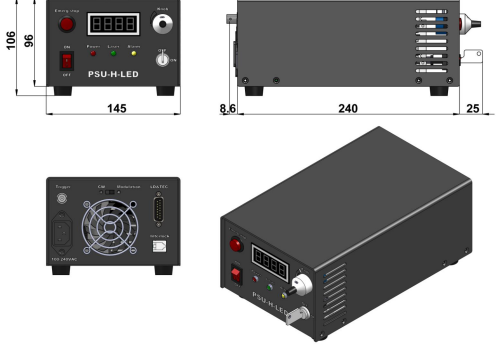
The all-solid-state infrared laser is characterized by its ultra-compact design, long lifetime, and ease of operation. It is commonly used in scientific experiments, optical instrumentation, optical sensing, measurement, communication, and spectral analysis.



SPECIFICATIONS

Wavelength (nm)	1122±1	1313±1	1342±1	1444±2
Operating mode	CW			
Output power (mW) ¹	1000-1200	1000-2000	2000-3000	1-400
Power stability (rms, 4 hours ±3°C)	<3%, <2%		<3%, <2%, <1%	<3%, <2%
Transverse mode	TEM ₀₀			
M ²	<1.5			
Beam diameter at the aperture (1/e ² , mm)	~1.0			
Beam divergence (mrad)	<1.5			
Polarization ratio	/	>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	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional			
Power supply (100-240VAC)	PSU-H-FDA/PSU-H-LED/PSU-SR			
Expected lifetime (hours)	>10000			



LASER HEAD ²	HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-H-FDA) ³
 160(L)×60(W)×50(H) mm³, 0.9kg	 188(L)×76.2(W)×43(H) mm³, 0.65kg	 276.6(L)×145(W)×103.6(H) mm³, 2.3kg
POWER SUPPLY (PSU-H-LED) ⁴	POWER SUPPLY (PSU-SR) ⁴	
 273.6 (L)×145(W)×106 (H) mm³, 2.3kg	 188(L)×145(W)×83(H) mm³, 1.2kg	

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.