

MLL-III-1742-SM/1-5mW



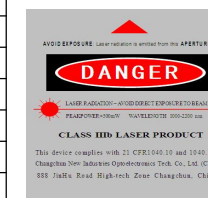
LOW NOISE INFRARED DIODE LASER AT 1742nm

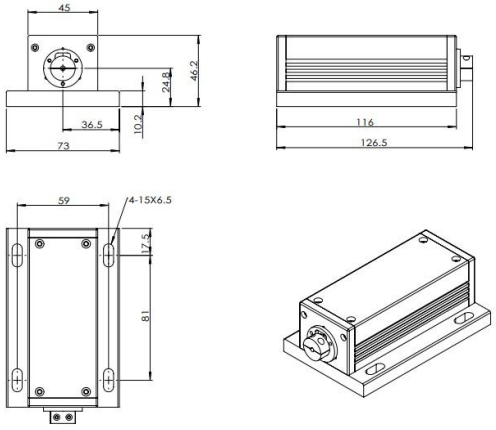
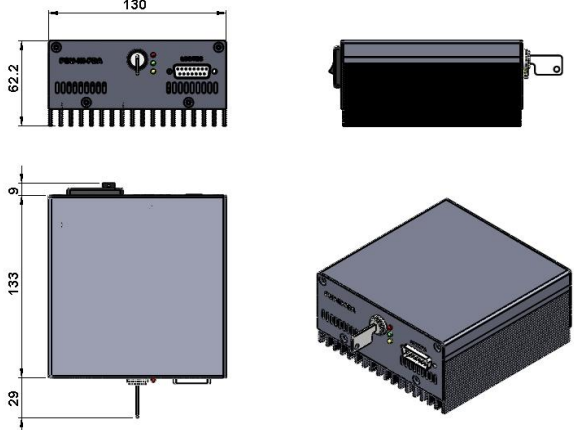
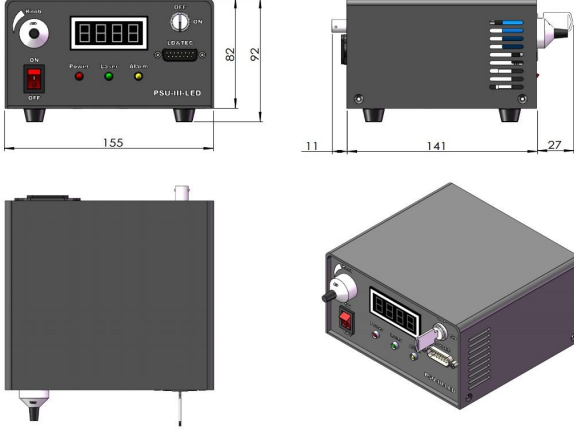
It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in medical imaging, flow cytometry, DNA sequencing, etc.



SPECIFICATIONS

Central wavelength (nm)	1742±2
Operating mode	CW
Output power after fiber (mW) ¹	1-5
Power stability (rms, 4 hours ± 3°C)	<2%, <1%, <0.5%
Noise of amplitude (rms, 20Hz-20MHz)	<1%, <0.5%
Fiber type	SM fiber, PM fiber optional
Fiber Core diameter	4-9μm, 0.12NA
Fiber connector	FC/PC, FC/APC optional
Fiber length ²	1m
Fiber jacket	Metal, PVC optional
Transverse mode	TEM ₀₀
Ellipticity	>0.95
M ² after fiber	~1.1
Warm-up time (minutes)	<5
Cooled method	Conduction
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-III-FDA/PSU-III-LED/PSU-A-D/PSU-III-OEM
Modulation option	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz optional; TTL and Analog optional
Expected lifetime (hours)	>10000



LASER HEAD	POWER SUPPLY (PSU-III-FDA) ³	POWER SUPPLY (PSU-III-LED) ⁴
 126.5 (L) × 73 (W) × 46.2 (H) mm³, 0.7kg	 171 (L) × 130 (W) × 62.2 (H) mm³, 1.2kg	 179 (L) × 155 (W) × 92 (H) mm³, 1.5kg

POWER SUPPLY (PSU-A-D) ⁵	DRIVER (PSU-III-OEM) ³	POWER SUPPLY (100-240VAC) optional
 144 70 162 162 (L) × 144 (W) × 70 (H) mm³, 1.0kg	 100 55.2 62 40°40°10 2 x M3 31 60 100 (L) × 62 (W) × 55.2 (H) mm³, 0.5kg	 31.8 125.7 50.2 125.7 (L) × 50.2 (W) × 31.8 (H) mm³, 0.3kg

1 Any power level can be selected in this range.

2 Other lengths are available on request.

3 Fixed output power; Modulation up to 30kHz.

4 Output power adjustable 10-100%; RS232 control optional; Modulation up to 30kHz.

5 Output power adjustable 10-100%; RS232 control optional; Modulation up to 100kHz.