HJ OPTRONICS

Water Cooling LD Pumped All-solid-state 4.0 ~ 5 μm MID-IR Laser HPL-MIR-4000~4800

Model #: HPL-MIR-4000~4800

Description: This wide spectral width laser at 4-5μm mid-infrared features high power, high repetition rate, and short pulse duration.

Application: laser surgery, remote sensing, atmospheric communication, and systems for environmental monitoring etc.

Specifications

Wavelength (nm)	4000	4200	4400	4600	4800
Spectrum Width (nm)	300	200	160	180	190
Output Power (W)	1, 2				
Operating Mode	Acoustic-optics Q- switched pulse laser				
Average power stability (over 4 hrs.)	<10%, <5%				
Repetition Rates (KHz)	10				
Pulse Duration (ns)	~20				
Pulse Energy (mJ)	0.2 @ 10kHz, 2W				
Peak Power (kW)	~10 @ 10kHz, 2W				
Beam Divergence, full angle (mrd)	<12				
Beam Height from Base Plate (mm)	61				
bBam diameter at the aperture ($1/e^2$, mm)	<6				
Operating Temperature (C°)	10-35				
Power Supply (90-264VAC)	PSU-MIR (3U)				
Cooling System	Water Cooling				
Expected Life Time (hrs.)	10000				
Warranty Period	1 year				

Ordering Information: HPL-MIR-A-B-C

A: wavelength	B: output power	C:power stability
4000 – 4000 nm	1 – 1 W	10 – 10%
4200 – 4200 nm	2 – 2 W	5 – 5%
4400 – 4400 nm		
4600 – 4600 nm		
4800 – 4800 nm		

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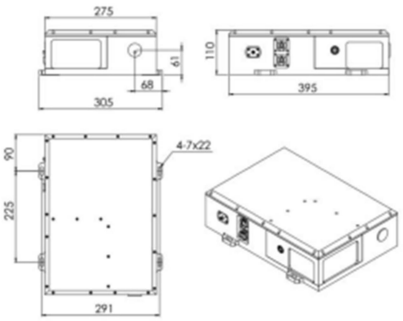
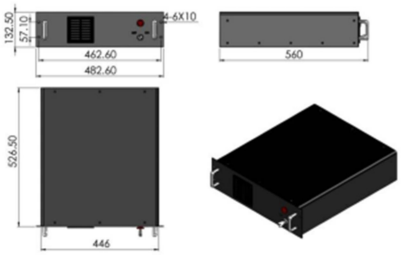
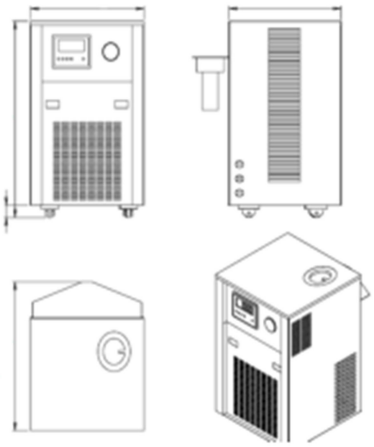
HPL-MIR-4000~4800	PSU-MIR(3U)
	
395 (L) x 305 (W) x 110 (H) mm^3, 15kg	527 (L) × 446 (W) ×133 (H) mm^3, 22kg
Water Chiller	
	
565 (L)×470(W)×900(H) mm^3, 75kg