



HPL-MIR Series

WATER COOLING LD PUMPED ALL-SOLID-STATE 3-5μm MID-IR LASER

CNI's wide spectral width laser at 3-5μm mid-infrared features high power, high repetition rate, and short pulse duration, they are widely used in defense, remote sensing, civilian applications, and systems for counter-measures against infrared sensors, etc.



SPECIFICATIONS

Wavelength (nm) ¹	3900	4000,4100,4200,4300,4400,4500,4600,4800
Spectral width(nm)	250	500
Operating mode	Actively	
Average power (W) ²	0.1-1	1-2
Pulse duration (ns)	~20	
Rep.rate (kHz)	10	
Single pulse energy (mJ)	0.1@10kHz&1W	0.2@10kHz&1W
Power stability (rms, 4 hours±3°C)	<10%, <5%	
Beam divergence, full angle (mrad)	<5	
Beam diameter at the aperture (1/e ² ,mm)	<6	
Beam height from base plate (mm)	60	
Warm-up time (minutes)	<10	
Cooled method	Water Cooled	
Operating temperature (°C)	15-35	
Power supply (100-240VAC)	PSU-MIR (3U)	
Expected lifetime (hours)	>10000	



LASER HEAD	POWER SUPPLY	WATER CHILLER
395(L)×305(W)×110(H) mm³, 15kg	527 (L) ×446(W) ×133 (H) mm³, 22 kg	575 (L)×475 (W)×805(H) mm³, 65kg

1 It can also be configured for choose Full-spectrum band output (3900-4800nm), output power is 1-9W.

2 Fixed value within the power range.