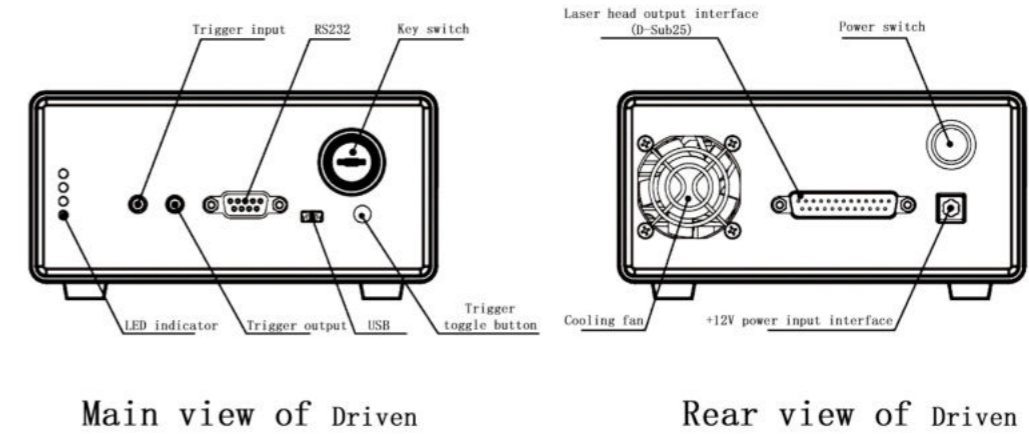


# 1064nm Microchip Laser System of MH Series

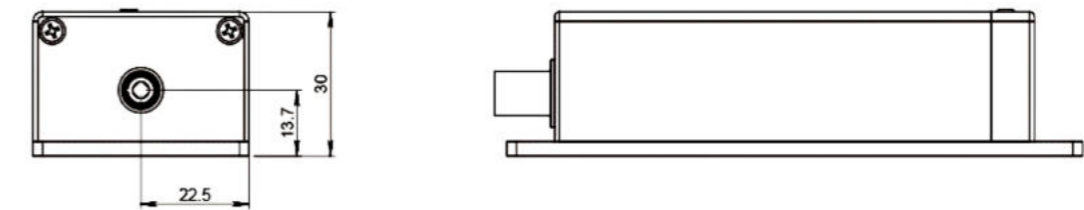


## OUTLINE SIZE(mm)



## DESCRIPTION

MH series high repetition rate microchip laser series can achieve high repetition rate while the pulse width is less than 300ps. The product is a passively Q-switched solid-state laser based on semiconductor pump, with stable energy, good beam quality and single longitudinal mode operation. The laser is designed with full seal, small size, convenient for user installation and integration. The system supports internal and external triggering and can be used for secondary development.

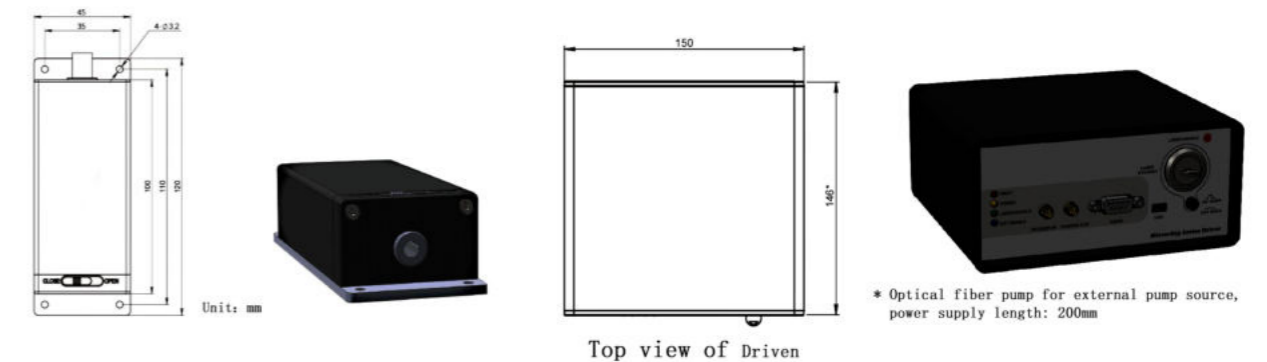


## FEATURES

- Pulse energy up to 32μJ
- Maximum repetition frequency up to 20kHz
- Beam mode is TEM00

## APPLICATIONS

- Seed source
- Micromachining
- Ultrasound imaging
- analytical chemistry
- Time-resolved Raman spectroscopy
- Biophotonics



## PARAMETERS

Model	CL1064-5KHz-10μJ-MH011	CL1064-10KHz-8μJ-MH012	CL1064-20KHz-5μJ-MH013	CL1064-50KHz-2μJ-MH014	
Optical Parameter	Wavelength (nm)	1064	1064	1064	1064
	Repetition Frequency (kHz)	5	10	20	50
	Average Powe (mW)	50	80	100	100
	Output Energy (uJ)	10	8	5	2
	Pulse Width (ps)	300	300	300	300
	Power Stability (8h)	±3%	±3%	±3%	±3%
	Beam Mode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>
	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e <sup>2</sup>	< 10	< 10	< 20	< 20
	Vertical @ 1 / e <sup>2</sup>	< 10	< 10	< 20	< 20
Polarization Characteristics	> 100:1	> 100:1	> 100:1	> 100:1	
System Parameter	Power Input	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz
	Modulation Input	TTL0-5V,SMA interface	TTL0-5V,SMA interface	TTL0-5V,SMA interface	TTL0-5V,SMA interface
	Control Interface	RS232、USB	RS232、USB	RS232、USB	RS232、USB
	System Power Consumption (W)	< 35	< 40	< 50	< 50
	Power Supply Size (W × H × L, mm)	168×88×140/168×88×220*	168×88×140/168×88×220*	168×88×140/168×88×220*	168×88×140/168×88×220*
	Laser Head Size (W × H × L, mm)	45×30×120	45×30×120	45×30×120	45×30×120
	Working Temperature (°C)	15-35	15-35	15-35	15-35
	Storage Temperature (°C)	0-60	0-60	0-60	0-60

