

# 266nm 350ps Microchip Laser System of MCH Series



## DESCRIPTION

MCH 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 width up to 280ps
- Pulse energy up to 32 $\mu$ J
- Maximum repetition frequency up to 20KHz
- Beam mode is TEM00

## APPLICATIONS

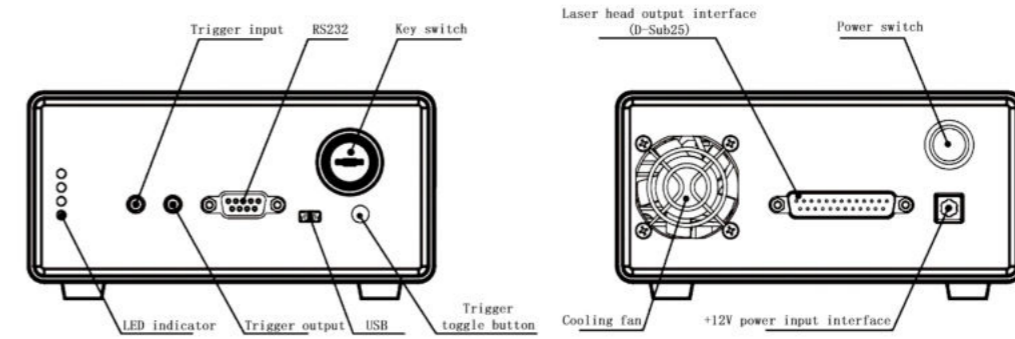
- Laser micromachining
- Seed source
- Ultrasound imaging
- Analytical chemistry
- Time-resolved Raman spectroscopy
- Biophotonics



## PARAMETERS

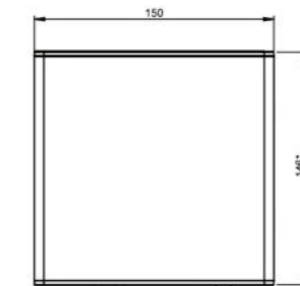
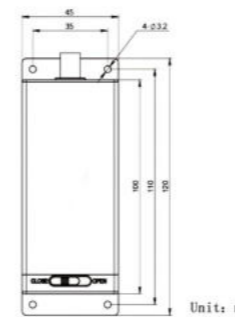
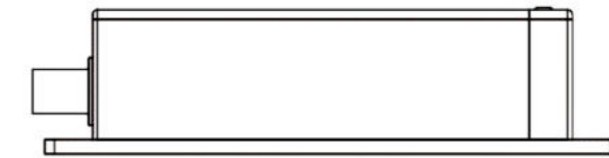
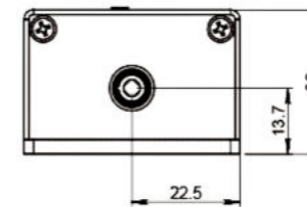
Model	CL266-1KHz-3μJ-MCH001	CL266-5KHz-1μJ-MCH002
Wavelength (nm)	266	266
Repetition Frequency (kHz)	1	5
Average Powe (mW)	3	5
Output Energy (μJ)	3	1
Pulse Width (ns)	300	280
Power Stability (8h)	±3%	±3%
Beam Mode	TEM00	TEM00
Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	<3	<3
Vertical @ 1/e2	<3	<3
Polarization Characteristics	>100:1	>100:1
Power Input	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz
Modulation Input	TTL0-5V,SMA interface	TTL0-5V,SMA interface
Control Interface	RS232、USB	RS232、USB
System Power Consumption (W)	<30	<40
Power Supply Size (W × H × L, mm)	150×76×146	150×76×146
Laser Head Size (W × H × L, mm)	45×30×120	45×30×120
Working Temperature (°C)	15-35	15-35
Storage Temperature (°C)	0-50	0-50

## OUTLINE SIZE(mm)



Main view of Driven

Rear view of Driven



Top view of Driven



\* Optical fiber pump for external pump source, power supply length: 200mm

