

1064nm Nd:YAG q-switched picosecond laser MG Microchip laser system



DESCRIPTION

1064nm laser is one of the most common laser among Crylink's products of solid state laser. Unlike other lasers, 1064nm laser beam is directly emitted from the Nd:YAG crystal. Q-switched crystal helps our laser to emit picosecond output light beam. Either the one with single longitudinal mode or the one with fundamental mode can be chosen in Crylink.

Crylink provides absolute high quality 1064 nm laser. Our 1064nm laser contains high average power, up to 100mW. And it has high pulse repetition frequency, up to 50kHz. At the same time, our 1064nm laser has smaller size and lower power consumption by microchip laser technology.

Our 1064nm laser can be used in most military, civil and scientific research fields. In industry, it can be used in micromachining. In cosmetology, it can be used in picosecond laser tattoo removal machine. Besides, it can also be used in laser ultrasound, laser induced breakdown spectroscopy, etc.

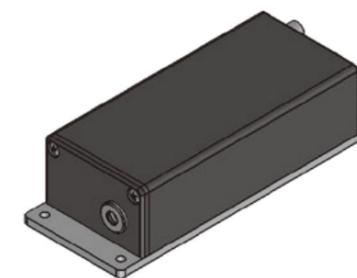
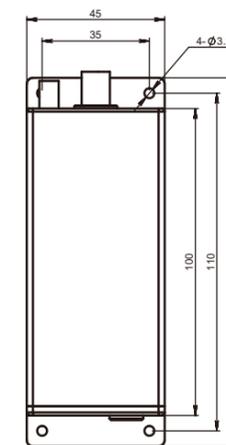
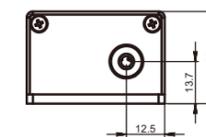
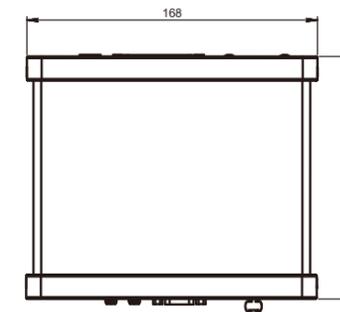
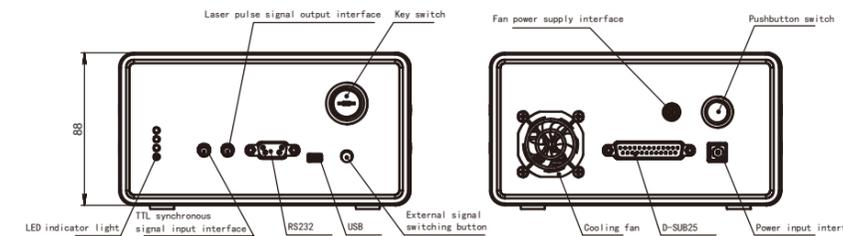
FEATURES

- Maximum repetition rate up to 100kHz
- Pulse width up to 500ps
- Pulse energy up to 5μJ
- Single longitudinal mode
- Beam mode is TEM₀₀
- High polarization direction stability

APPLICATIONS

- Laser processing
- Seed source
- Analysis instrument
- Bioluminescent molecule

OUTLINE SIZE(mm)



PARAMETERS

Model	CL1064- 50KHz- 2μJ- MG003	CL1064- 100KHz- 1μJ- MG004	
Optical parameter	Wavelength(nm)	1064	1064
	Repetition frequency (KHz)	50**	100**
	Average power(mW)	100	100
	Output energy(μJ)	2	1
	Pulse width (ps)	500	500
	Power stability (8h)	±3%	±3%
	Beam mode	TEM ₀₀	TEM ₀₀
	Full-angle divergence angle Typ. (Mrad) level @ 1/e ²	16	20
	Full-angle divergence angle Typ. (Mrad)Vertical @1/e ²	16	20
Polarization characteristics	> 100:1	> 100:1	
System parameters	Power input	100- 240 VAC,50/60Hz	100- 240 VAC,50/60Hz
	Control interface	RS232、USB	RS232、USB
	System power consumption (W)	≤35	≤40
	Power supply size (W × H × L, mm)	168×88×140	168×88×140
	Laser head size (W × H × L, mm)	45×33×120**	45×33×120**
	Working temperature (°C)	15-35	15-35
	Storage temperature (°C)	0-60	0-60

- * the light outlet of the laser head is side outlet. Please refer to the mechanical dimension drawing for details.
- ** high PRF side light output structure, gated trigger, TTL 5V, SMA interface. Other structures are rising edges

