1064nm Nd:YAG q-switched picosecond laser MB 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 pico-second 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.

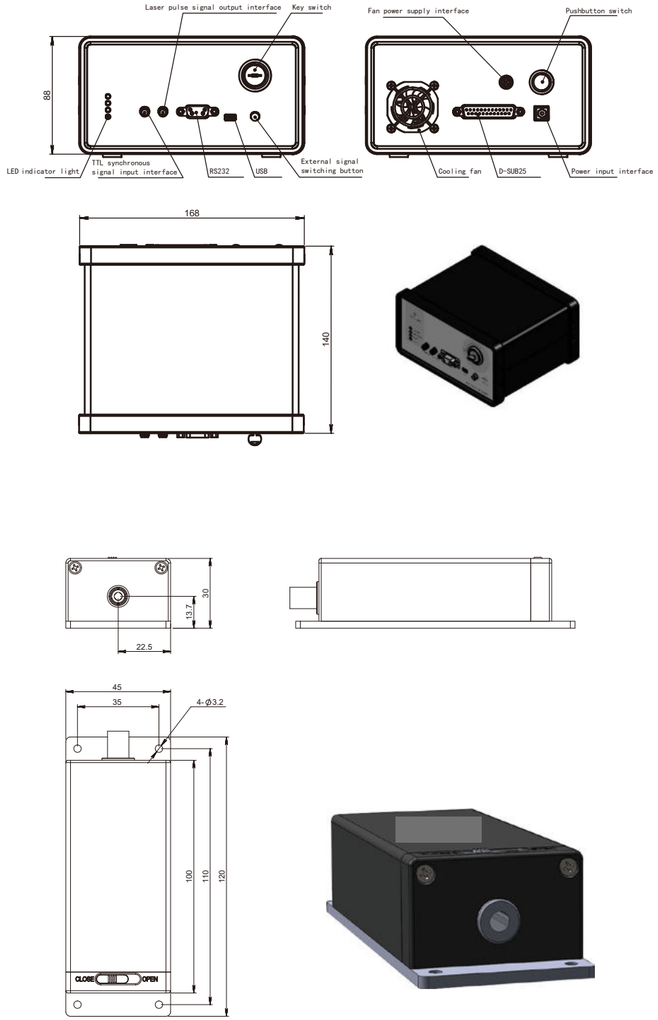
FEATURES

- Pulse energy up to 180μJ
- High polarization direction stability
- Beam mode is TEM_{00}
- Fully sealed design, high reliability

APPLICATIONS

- Seed source
- Micromachining
- Biomedical science
- Laser ultrasonic inspection
- Laser ionization mass spectrometry
- Laser-induced fluorescence

OUTLINE SIZE(mm)



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PARAMETERS

Model		CL1064-2.5kHz-280μJ-MB001	CL1064-5kHz-150μJ-MB002	CL1064-10kHz-120μJ-MB003	CL1064-20kHz-60μJ-MB004
Optical parameter	Wavelength (nm)	1064	1064	1064	1064
	Repetition frequency (kHz)	2.5	5	10	20
	Average power (mW)	700	750	1200	1200
	Output energy (μJ)	280	150	120	60
	Pulse width (ns)	3	5.5	4.5	6.5
	Power stability (8h)	±3%	±3%	±3%	±3%
	Beam mode	TEM_{00}	TEM_{00}	TEM_{00}	TEM_{00}
	Collimating spot diameter (mm)	≈5	≈5	≈5	≈5
	Full-angle divergence angle Typ. (@1/e^2, Mrad)	⩽1	⩽1	⩽1	⩽1
	Polarization characteristics	＞100:1	＞100:1	＞100:1	＞100:1
System parameters	Power input	18 V, ＞72W	18 V, ＞72W	18 V, ＞72W	18 V, ＞72W
	External trigger control	Gated, 5V TTL, high level enabled	Gated, 5V TTL, high level enabled	Gated, 5V TTL, high level enabled	Gated, 5V TTL, high level enabled
	Laser head size (W×H×L, mm)	32×21×110	32×21×110	32×21×110	32×21×110
	Working temperature (℃, provide air cooling for heat dissipation)	15-35	15-35	15-35	15-35
	Storage temperature (℃)	-40-60	-40-61	-40-62	-40-63

1.*The light outlet of the laser head is side outlet. See the mechanical dimension drawing for details

2.Customized internal beam expansion function to meet the requirements of small divergence angle (less than 2mrad)

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