532nm Nd:YAG q-switched picosecond laser MB Microchip laser system

DESCRIPTION

532nm laser is one of the most common lasers used in most fields. It can emit excellent green light. It is based on Nd:YAG crystal. Frequency doubling technology is used in Crylink's 532nm laser. As a perfect picosecond laser, our 532nm laser has version of 300ps.

Like our all lasers, 532nm laser has very pure pulsed output. Thus, stability and high quality have become synonymous with our 532nm laser. Good penetrability and strong anti-interference of stray light makes our 532nm laser can adapt most situations.

532nm laser is commonly used in industrial field, like laser engraving and etching to print circuit boards, micromachining, and so on. Medical field is another common field for 532nm laser. Our 532nm laser is suitable for yag laser eye surgery. Laser ultrasound, laser induced fluorescence, solid state lidar, and et al, are also its competent field.

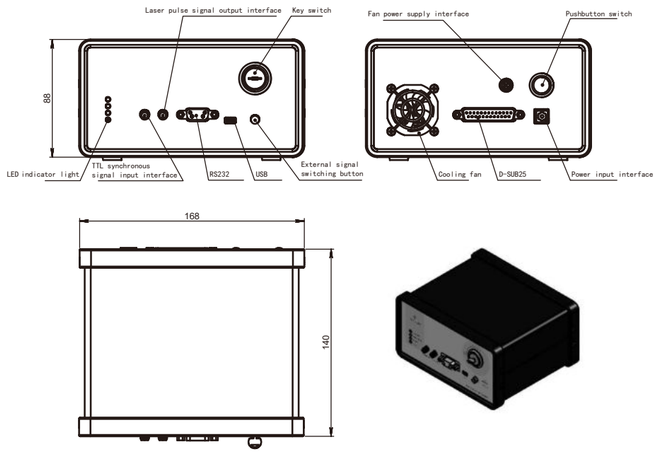
FEATURES

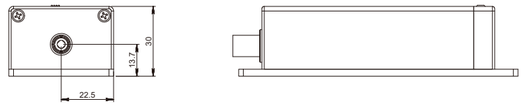
- Pulse energy up to 180μJ
- High polarization direction stability
- Beam mode is TEM_{00}
- Fully sealed design, high reliability

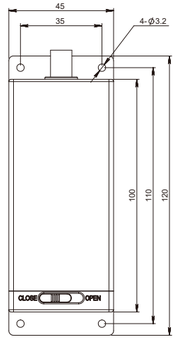
APPLICATIONS

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

OUTLINE SIZE(mm)







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PARAMETERS

Model		CL532-1KHz-75μJ-MB004
Optical parameter	Wavelength(nm)	532
	Repetition frequency (KHz)	1
	Average power(mW)	75
	Output energy(uJ)	75
	Pulse width (ps)	550
	Power stability (8h)	±3%
	Beam mode	TEM_{00}
	Full-angle divergence angle Typ. (Mrad) level @1/e^2	6
	Vertical @1/e^2	6
	Polarization characteristics	＞100:1
System parameters	System power consumption (W)	≤25
	Power input	100-240 VAC,50/60Hz
	Control interface	RS232、USB
	Power supply size (W×H×L, mm)	168×88×140
	Laser head size (W×H×L, mm)	45×30×120
	Working temperature (℃)	15-35
	Storage temperature (℃)	0-60

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)