1319nm Nd:YAG q-switched nanosecond laser
ML Microchip laser system

DESCRIPTION

1319nm laser adapting the design of microchip, is one of the series of solid state laser provided by Crylink. Our 1319nm laser is based on Nd:YAG crystal.

Our 1319nm laser adapt fully sealed design, which has very high reliability. So that, our 1319nm laser can realize a small and single structure. Light weight is its another advantage. Unlike its small size, single pulse energy of our 1319nm laser can get 50μj and 80μj.

1319nm is in the low loss and zero dispersion range of quartz fiber. And the blood has less loss to the laser of 1319nm. Thus, our 1319nm laser can be used in yag laser treatment, laser remote sensing, radar ranging, etc.
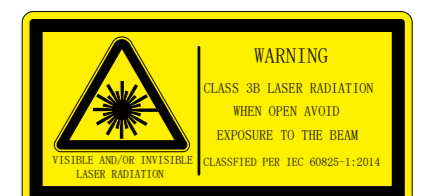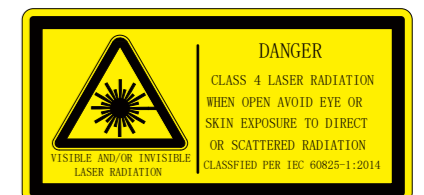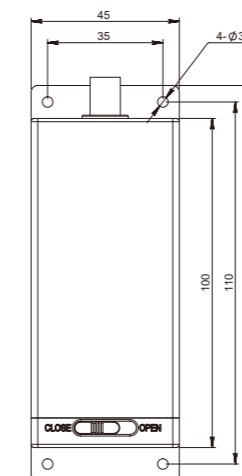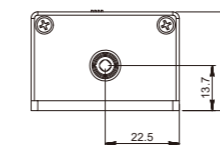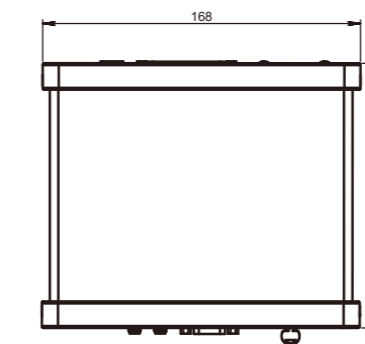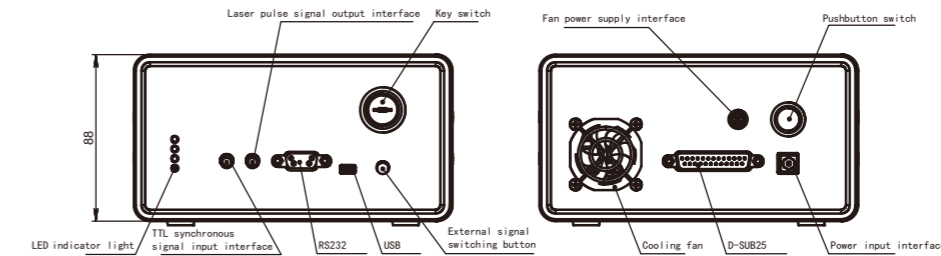
FEATURES

- The pulse width can reach 2.5ns
- Pulse energy up to 50μJ
- Maximum repetition rate up to 2kHz
- Beam mode is TEM_{00}
- Fully sealed design, high reliability
- High polarization direction stability

APPLICATIONS

- Photodynamic medicine
- Environmental monitoring
- Laser remote sensing
- Lidar
- Spectroscopy
- Laser display

OUTLINE SIZE(mm)

PARAMETERS

Model		CL1319-1KHz-50μJ-ML001	CL1319-100Hz-80μJ-ML002
Optical parameter	Wavelength(nm)	1319	1319
	Repetition frequency (KHz)	1	0.1
	Average power(mV)	50	8
	Output energy(uJ)	50	80
	Pulse width (ns)	2.5	2.5
	Power stability (8h)	±3%	±3%
	Beam mode	TEM_{00}	TEM_{00}
	Full-angle divergence angle Typ. (Mrad) level @ $1/e^2$	<10	<10
	Vertical @ $1/e^2$	<10	<10
	Polarization characteristics	>100:1	>100:1
System parameters	System power consumption（W）	<45	<20
	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
	Power supply size (W × H × L, mm)	168×88×140	168×88×140
	Laser head size (W × H × L, mm)	45×30×120	45×30×120
	Working temperature (℃)	15-35	15-35
	Storage temperature (℃)	0-60	0-60

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