

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 ULaser. 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.

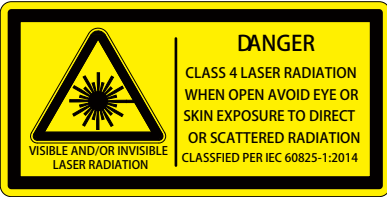
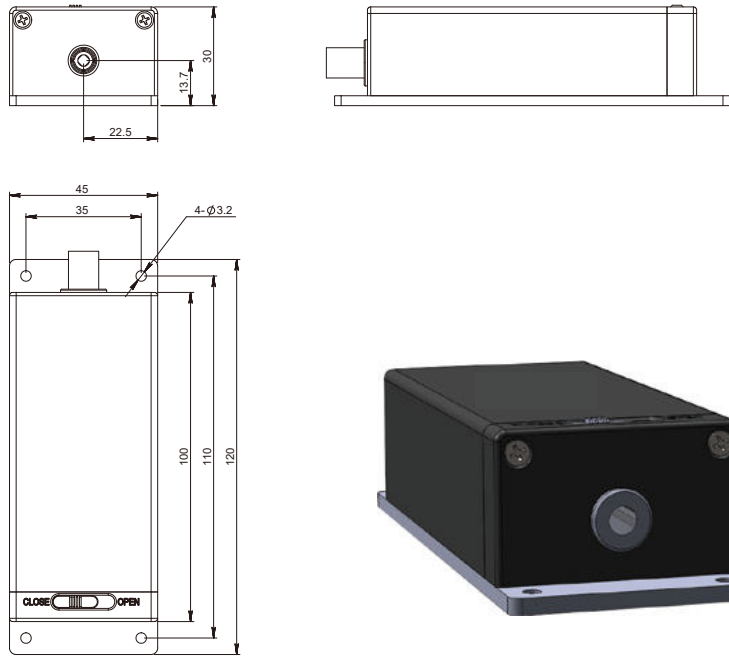
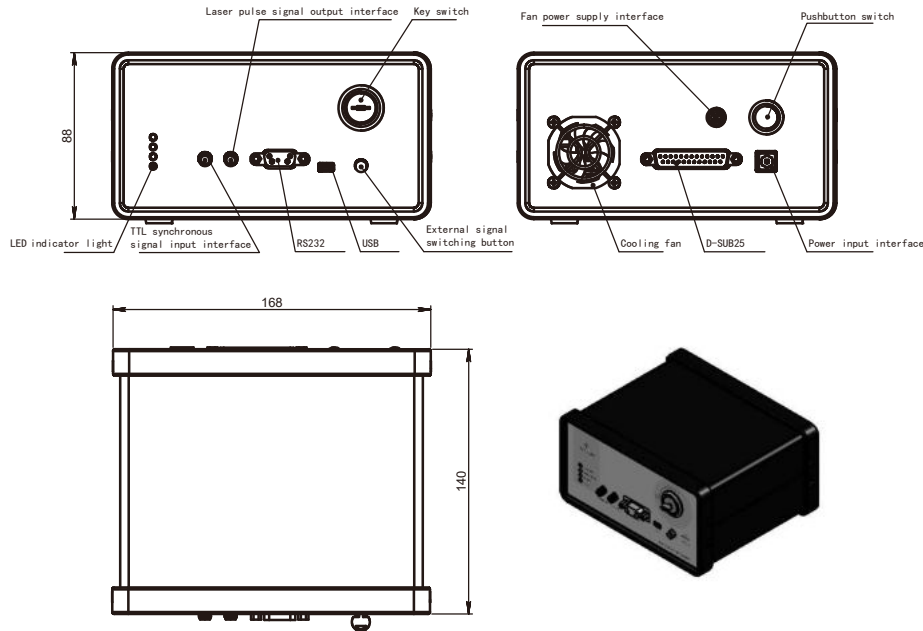
FEATURES

- The pulse width can reach 2.5ns
- Pulse energy up to 50μJ
- Maximum repetition rate up to 2kHz
- Beam mode is TEM₀₀
- 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		UL1319-0.1KHz-80μJ-ML003	UL532-1KHz-50μJ-ML004
Optical parameter	Wavelength(nm)	1319	1319
	Repetition frequency (KHz)	0.1*	1*
	Average power(mW)	8	50
	Output energy(μJ)	80	50
	Pulse width (ps)	2500	2500
	Power stability (8h)	±3%	±3%
	Beam mode	TEM ₀₀	TEM ₀₀
	Full-angle divergence angle Typ. (Mrad) level @1/e ²	10	10
	Full-angle divergence angle Typ. (Mrad) Vertical @1/e ²	10	10
	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)	≤25	≤45
	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 (°C)	15-35	15-35
	Storage temperature (°C)	0-60	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)

