

946nm Nd:YAG q-switched nanosecond laser MI Microchip laser system



DESCRIPTION

946nm laser is a solid state laser based on q-switch and diode pump. ULaser provide the one with 2.5 nanoseconds. At present, 946nm laser's best gain medium is Nd:YAG crystal. With frequency doubling, it can realize the output of 946nm.

Our 946nm laser has high quality output light beam, which confined to its stability and high energy. Pulse repetition frequency with 5kHz leads to average power with 75mW. At the same time, our 946nm laser can maintain a low power loss.

Our 946nm laser fits many scenarios. The most common applications are as the light sources of laser induced fluorescence, laser ultrasound, radar ranging and Raman spectrometer.

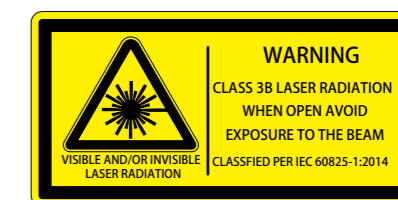
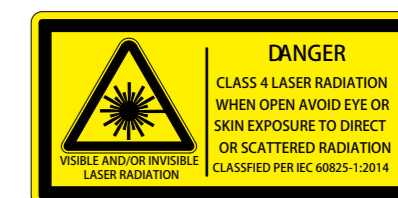
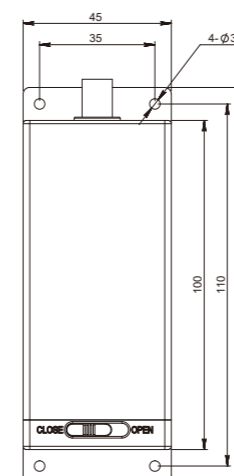
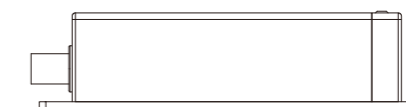
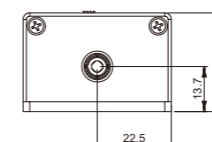
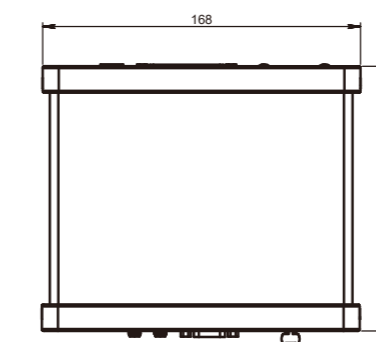
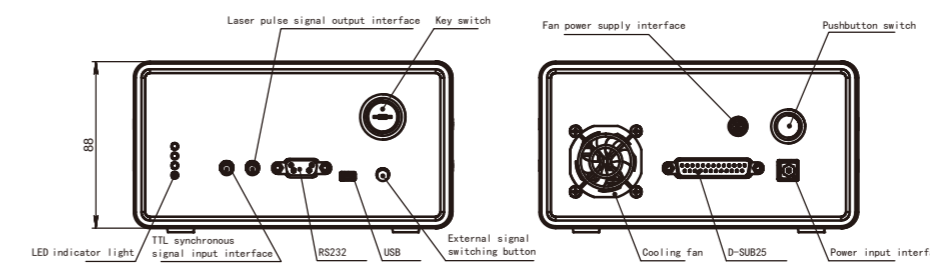
FEATURES

- Compact structure and high stability
- High polarization direction stability
- Repetition rate up to 5kHz
- Beam mode is TEM₀₀

APPLICATIONS

- Laser induced fluorescence
- Ultrasonic testing
- Radar ranging
- Raman spectroscopic detection

OUTLINE SIZE(mm)



PARAMETERS

Model	UL946- 1kHz- 20μJ- MI003	
Optical parameter	Wavelength (nm)	946
	Repetition frequency (kHz)	1
	Average power (mW)	20
	Output energy (μJ)	20
	Pulse width (ps)	2500
	Power stability (8h)	±3%
	Beam mode	TEM ₀₀
	Full-angle divergence angle Typ. (Mrad) level @1/e ²	9
	Full-angle divergence angle Typ. (Mrad) Vertical @1/e ²	9
	Polarization characteristics	> 100:1
System parameters	Power input	100-240 VAC, 50/60Hz
	Control interface	RS232, USB
	System power consumption (W)	≤15
	Power supply size (W × H × L, mm)	168×88×140
	Laser head size (W × H × L, mm)	45×30×120
	Working temperature (°C)	15-35
	Storage temperature (°C)	0-60

1. * Side light emitting structure (non-marked products are central light emitting structure).

2. The built-in beam expansion function can be customized to meet the requirements of small divergence Angle (less than 2mrad).

