1030nm Yb:YAG q-switched picosecond laser MJ Microchip laser system

DESCRIPTION

1030nm laser is the common industrial laser. ULaser uses microchip technology to make 1030nm laser smaller to suit more situations. Yb:YAG crystal is the base of 1030nm laser. With nonlinear crystal, 1030nm output light can be got by frequency doubling.

1030nm laser's most important advantage is its pulsed laser energy. Its output energy is up to 100μJ, and its average power is up to 160mW. Based on Yb:YAG crystal, our 1030nm laser has lower quantum loss, thermal load, and thermal conductivity.

These features make our 1030nm laser become a better choice in industry. It shows a good performance in micromachining, laser pump, photochemical machining and so on.

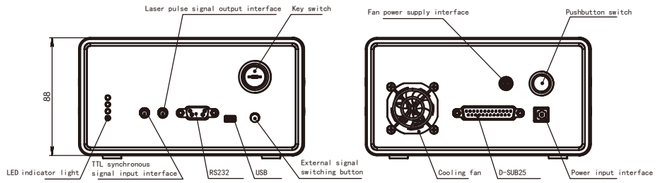
FEATURES

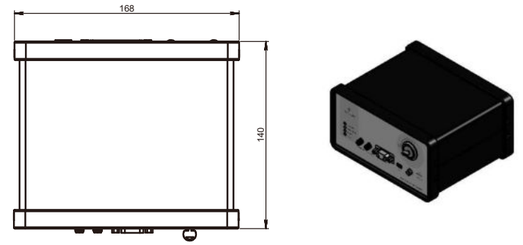
- Pulse width up to 800ps
- Pulse energy up to 100μJ
- Maximum repetition rate up to 2kHz
- Beam mode is TEM_{00}

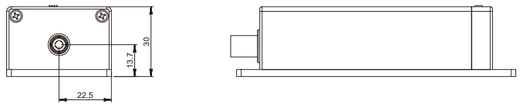
APPLICATIONS

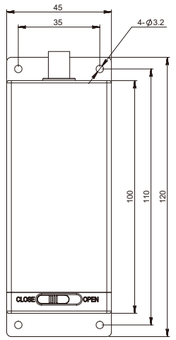
- Material micromachining
- Spectral detection
- Lidar
- Pump source
- Biomedical science

OUTLINE SIZE(mm)









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PARAMETERS

Model		UL1030-1kHz-100μJ-MJ008
Optical parameter	Wavelength (nm)	1030
	Repetition frequency (kHz)	1
	Average power (mW)	100
	Output energy (μJ)	100
	Pulse width (ps)	1000
	Power stability (8h)	±3%
	Beam mode	TEM_{00}
	Full-angle divergence angle Typ. (Mrad) level @1/e^2	6
	Full-angle divergence angle Typ. (Mrad) Vertical @1/e^2	6
	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 (℃)	15-35
	Storage temperature (℃)	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).

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