

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



DESCRIPTION

1030nm laser is the common industrial laser. Crylink 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.

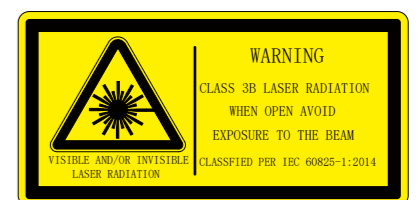
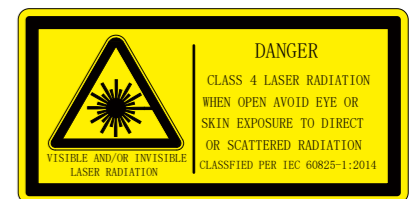
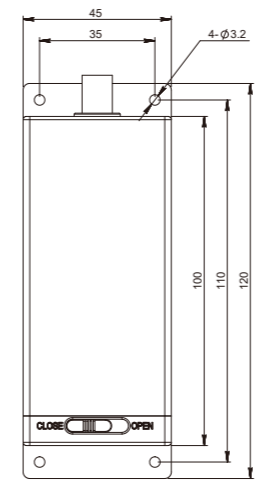
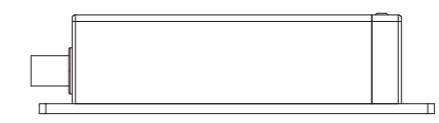
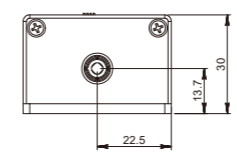
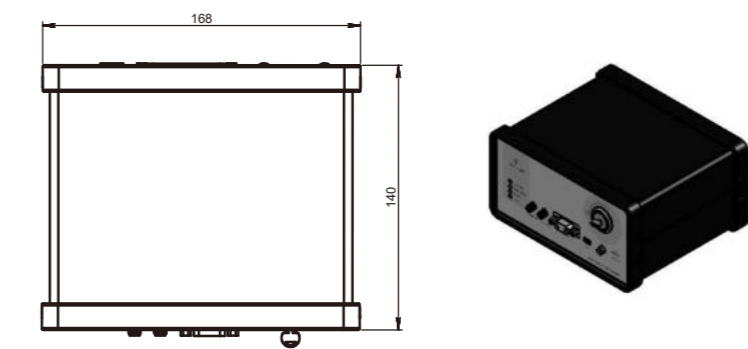
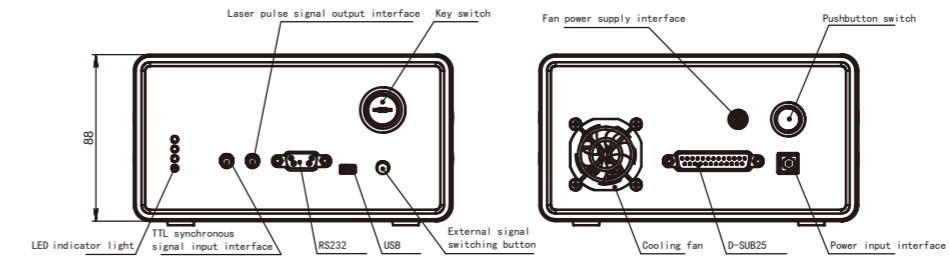
FEATURES

- Pulse width up to 800ps
- Pulse energy up to 100μJ
- Maximum repetition rate up to 2KHz
- Beam mode is TEM₀₀

APPLICATIONS

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

OUTLINE SIZE(mm)



PARAMETERS

Model	CL1030- 1KHz- 100μJ- MJ008	CL1030- 2KHz- 80μJ- MJ009	
Optical parameter	Wavelength(nm)	1030	1030
	Repetition frequency (KHz)	1	2
	Average power(mW)	100	160
	Output energy(μJ)	100	80
	Pulse width (ps)	1000	1000
	Power stability (8h)	±3%	±3%
	Beam mode	TEM ₀₀	TEM ₀₀
	Full-angle divergence angle Typ. (Mrad) level @1/e ²	6	8
	Full-angle divergence angle Typ. (Mrad) Vertical @1/e ²	6	8
	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)	≤15	≤25
	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

- * Side light emitting structure (non-marked products are central light emitting structure).
- The built-in beam expansion function can be customized to meet the requirements of small divergence Angle (less than 2mrad).

