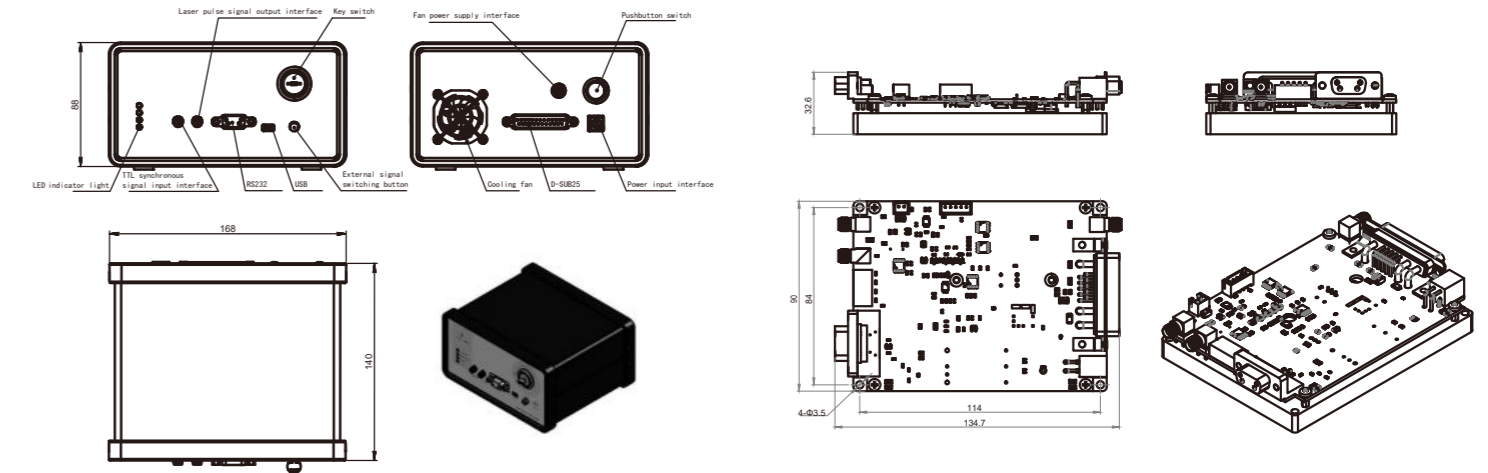


# 532nm Nd:YAG q-switched nanosecond laser MA Microchip laser system



## OUTLINE SIZE(mm)



## DESCRIPTION

532nm laser is one of the most common lasers used in most fields. It can emit excellent green light. It is based on Nd:YAG crystal. Frequency doubling technology is used in Crylink's 532nm laser. As a perfect picosecond laser, our 532nm laser has version of 300ps.

Like our all lasers, 532nm laser has very pure pulsed output. Thus, stability and high quality have become synonymous with our 532nm laser. Good penetrability and strong anti-interference of stray light makes our 532nm laser can adapt most situations.

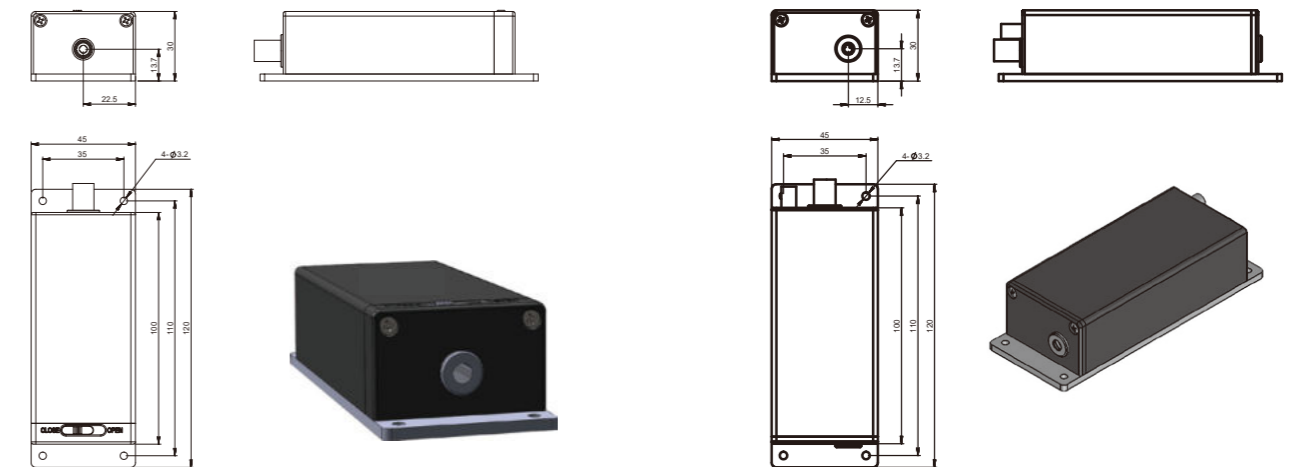
532nm laser is commonly used in industrial field, like laser engraving and etching to print circuit boards, micro-machining, and so on. Medical field is another common field for 532nm laser. Our 532nm laser is suitable for yag laser eye surgery. Laser ultrasound, laser induced fluorescence, solid state lidar, and et al, are also its competent field.

## FEATURES

- Pulse width up to 1ns
- Pulse energy up to 200μJ
- Repetition frequency up to 20kHz
- Beam mode is TEM<sub>00</sub>
- Fully sealed design, high reliability

## APPLICATIONS

- Lidar
- Laser ranging
- Atmospheric monitoring
- Laser ultrasonic inspection
- Optical metrology
- Laser-induced fluorescence



## PARAMETERS

Model	CL532-1KHz-60μJ-MA009	CL532-2.5KHz-60μJ-MA010	CL532-1KHz-100μJ-MA011	CL532-2.5KHz-100μJ-MA012	CL532-5KHz-30μJ-MA013	CL532-10KHz-15μJ-MA014	CL532-20KHz-10μJ-MA015
Wavelength(nm)	532	532	532	532	532	532	532
Repetition frequency (KHz)	1	2.5	1*	2.5*	5	10	20
Average power(mW)	60	150	100	250	150	150	200
Output energy(uJ)	60	60	100	100	30	15	10
Pulse width (ps)	1500	1500	1500	1500	1200	1200	1200
Power stability (8h)	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Beam mode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>
Full-angle divergence angle Typ. (Mrad) level @1/e <sup>2</sup>	6	≤2.5	≤2.5	≤2.5	6	6	6
Vertical @1/e <sup>2</sup>	6	≤2.5	≤2.5	≤2.5	6	6	6
Polarization characteristics	> 100:1	> 100:1	> 100:1	> 100:1	> 100:1	> 100:1	> 100:1
System power consumption (W)	≤35	≤25	≤20	≤25	≤35	≤35	≤35
Power input	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz
Control interface	RS232、USB	RS232、USB	RS232、USB	RS232、USB	RS232、USB	RS232、USB	RS232、USB
Power supply size (W×H×L, mm)	168×88×140	90×32.6×120	90×32.6×120	90×32.6×120	168×88×140	168×88×140	168×88×140
Laser head size (W×H×L, mm)	45×30×120	45×30×120	45×30×120	45×30×120	45×30×120	45×30×120	45×30×120
Working temperature (°C)	15-35	15-35	15-35	15-35	15-35	15-35	15-35
Storage temperature (°C)	0-60	0-60	0-60	0-60	0-60	0-60	0-60

1. The optical outlet of the \* laser head is a side outlet. For details, see the mechanical dimension diagram.
2. The built-in beam expanding function can be customized to meet the requirements of small divergence Angles (less than 2mrad).
3. MA010, MA011, and MA012 are specially designed for miniaturized weather radar applications. They are small in size, low in power consumption, and can be used in high altitudes, large temperature differences, and other subserve environments. This series accepts dual wavelength laser customization, such as 1064nm&532nm, 1064nm&355nm, or others.

