

213nm Nd:YVO₄ q-switched picosecond laser

MC Microchip laser system



DESCRIPTION

213nm laser is the laser with shortest wavelength among Crylink's products. It is a deep uv laser, which is based on Nd:YVO₄. 550ps and 600ps are optional.

Our 213nm laser has narrow laser pulse width and high pulse repetition frequency. Compact laser head makes 213nm laser integrate easily. Our 213nm laser is compatible with internal and external triggers.

Our 213nm laser can replace ArF excimer laser in lots of areas. It performs well in industry, like laser ablation and marking. Our 213nm laser can also be used in some precision field like fabrication of fiber Bragg grating, photolithography process and so on.

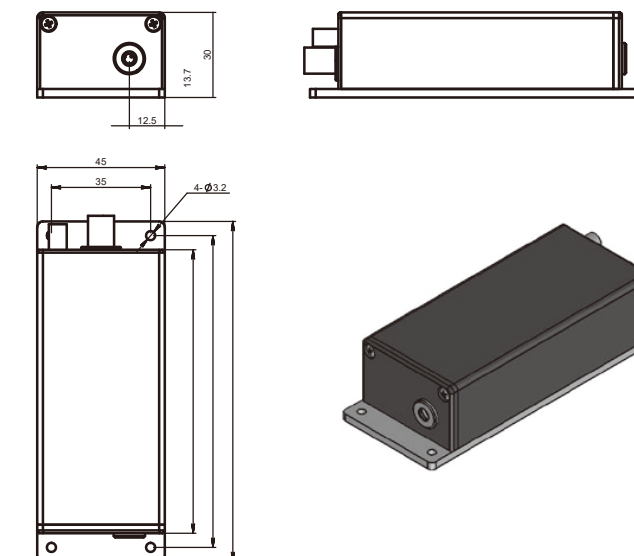
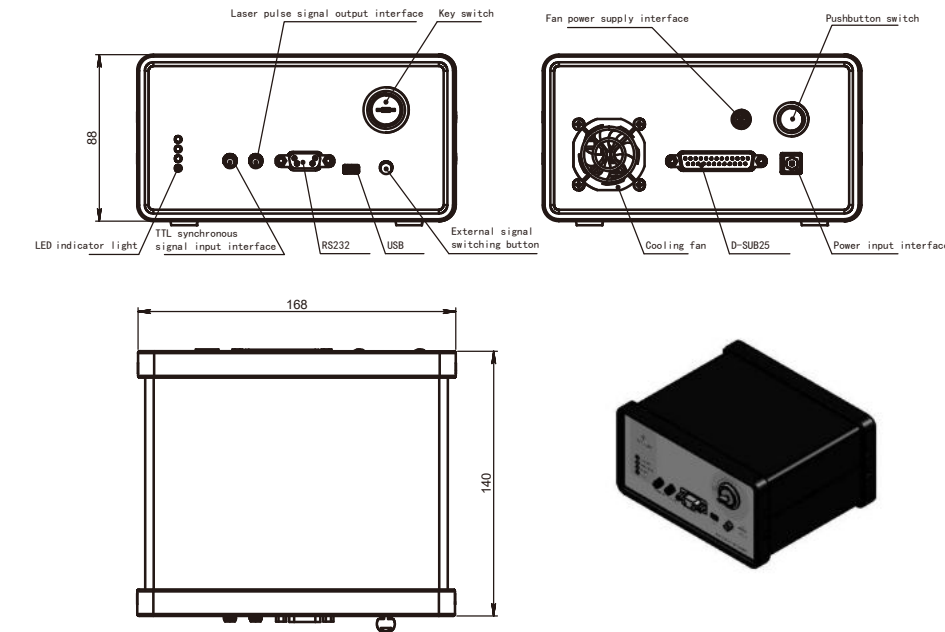
FEATURES

- Pulse energy up to 180μJ
- High polarization direction stability
- Beam mode is TEM₀₀
- Fully sealed design, high reliability

APPLICATIONS

- Seed source
- Laser ultrasonic testin
- Optical parametric oscillation pump source
- Micromachining
- Laser ionization mass spectrometry
- Laser induced breakdown spectroscopy

OUTLINE SIZE(mm)



PARAMETERS

| | | |
|--------------------------|---|----------------------|
| Model | | CL213-1kHz-4μJ-MC001 |
| Optical parameter | Wavelength (nm) | 213 |
| | Repetition frequency (kHz) | 1* |
| | Average power (mW) | 4 |
| | Output energy (μJ) | 4 |
| | Pulse width (ps) | 650 |
| | Power stability (8h) | ±3% |
| | Beam mode | TEM ₀₀ |
| | Full-angle divergence angle Typ. (Mrad) level @1/e ² | 5 |
| | Vertical @1/e ² | 5 |
| System parameters | Polarization characteristics | >100:1 |
| | System power consumption (W) | ≤25 |
| | Power input | 100-240 VAC,50/60Hz |
| | Control interface | RS232、USB |
| | 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. * the light outlet of the laser head is side outlet. Please refer to the mechanical dimension drawing for details.
2. the built-in beam expanding function can be customized to meet the requirements of small divergence angle (less than 2mrad).

