

257nm Nd:YAG q-switched picosecond laser MJ Microchip laser system



DESCRIPTION

257nm laser is one of the series of solid state laser provided by ULaser. It is based on the fourth harmonic wave of Nd:YAG crystal. Q-switched crystal bonded with laser crystal is used to emit 800ps output beam. And it can also be called as 257nm microchip laser.

Our 257nm laser has pure and stable output light. It has very low full angle beam divergence. Both horizontal and vertical one can down to $2\text{mrad}@1/e^2$. Our 257nm laser supports internal and external triggers. And it has fully sealed modules for secondary development.

Our 257nm laser can performs well in ultraviolet way. It is perfect in micromachining, laser spectra, photoacoustic imaging, etc.

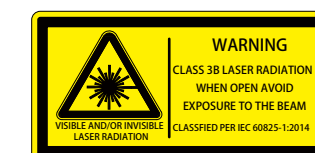
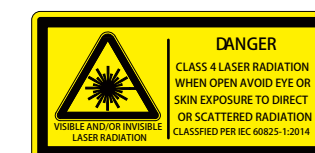
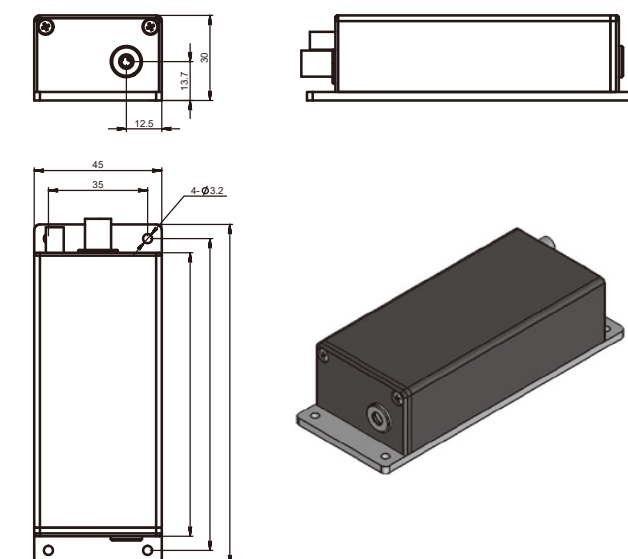
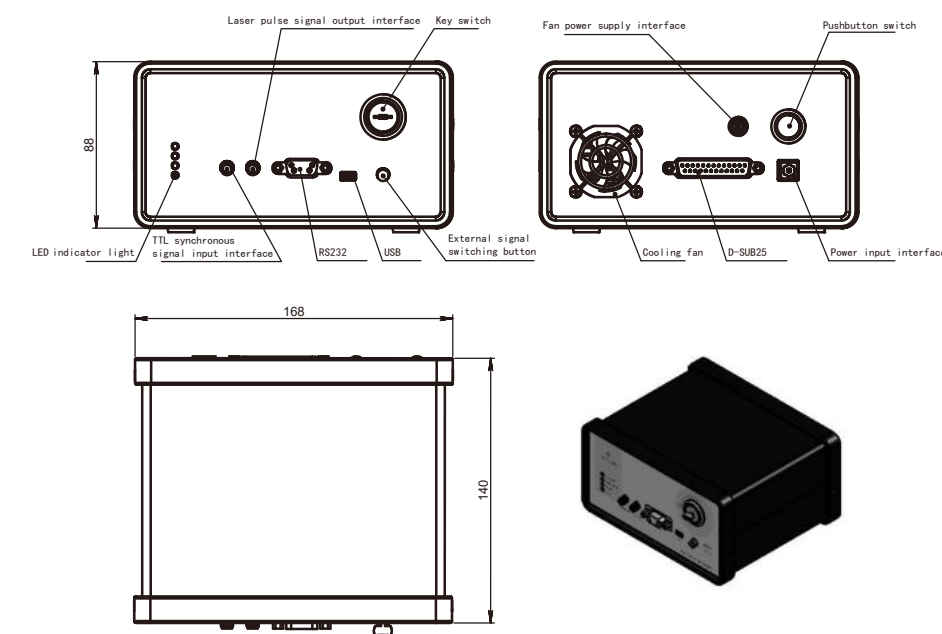
FEATURES

- Pulse width up to 800ps
- Pulse energy up to $100\mu\text{J}$
- Beam mode is TEM_{00}
- Maximum repetition rate up to 2KHz

APPLICATIONS

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

OUTLINE SIZE(mm)



PARAMETERS

| | | |
|-------------------|---|----------------------|
| Model | | UL257-1kHz-8μJ-MJ001 |
| Optical parameter | Wavelength (nm) | 257 |
| | Repetition frequency (kHz) | 1* |
| | Average power (mW) | 8 |
| | Output energy (μJ) | 8 |
| | Pulse width (ps) | 800 |
| | Power stability (8h) | ±3% |
| | Beam mode | TEM ₀₀ |
| | Full-angle divergence angle Typ. (Mrad) level @1/e ² | 2 |
| | Vertical @1/e ² | 2 |
| | Polarization characteristics | >100:1 |
| System parameters | System power consumption (W) | ≤15 |
| | 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. See the mechanical dimension drawing for details
2.Customized internal beam expansion function to meet the requirements of small divergence angle (less than 2mrad)

