

355nm narrow linewidth laser

PreciLasers' ultraviolet 355nm laser is based on Yb fiber DFB seed laser and Yb amplifier. It outputs 355nm laser in space after frequency tripling. It has the Features of narrow linewidth and high frequency stability. It can be widely used in optical precision measurement, quantum precision measurement and other fields.

Features

- Tunable
- Linear polarization
- Continuous laser
- Narrow Line width

application

- Optical precision measurement
- Quantum precision measurement



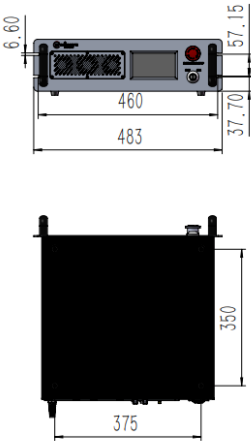
| Optical parameters | | |
|---|--|---------------|
| Central wavelength | 355nm | |
| Output power | 20mW | |
| Tuning range (temperature) | > 0,2nm, Continuous mode stability | |
| Output Mode | Spatial collimation output, diameter 0.7-1mm | |
| Linewidth ⁽²⁾ (100us integration time) | < 30kHz | |
| Polarization extinction ratio | > 20dB | |
| Power Stability (3 Hours RMS) | < 0.75% | |
| Beam quality | $M^2 < 1.1$ | |
| PZT tuning range | > 9GHz | |
| PZT tuning bandwidth | > 5kHz | |
| Cooling method | Air Cooling | Water Cooling |

(1) Fiber-delay self-heterodyne beat frequency method measurement

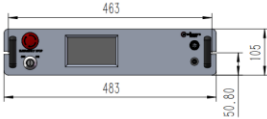
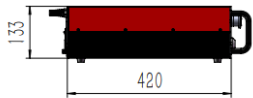
| Options | |
|------------|--|
| AOM option | Adding AOM and VCO drive between seed and amplifier enables 500kHz tuning bandwidth and $> \pm 5\text{MHz}$ tuning range |

| Other parameters | | |
|---------------------|---------------------|---------------|
| Working temperature | 15-25°C | |
| Cooling method | Air Cooling | Water Cooling |
| Supply electricity | 100V-220V, AC, 50Hz | |

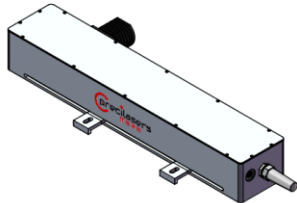
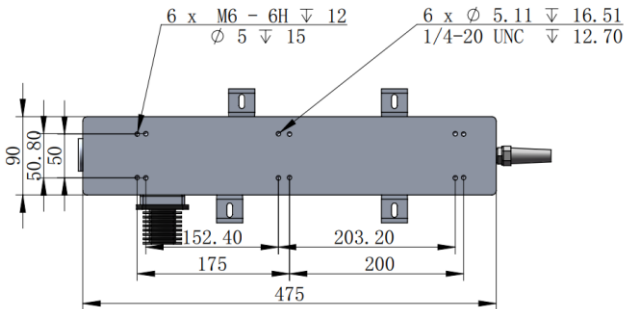
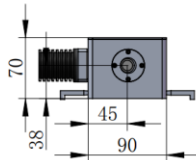
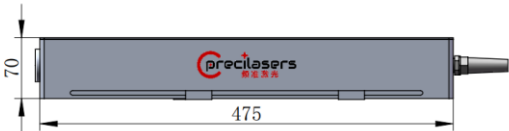
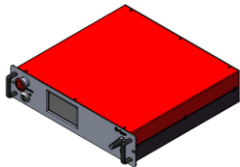
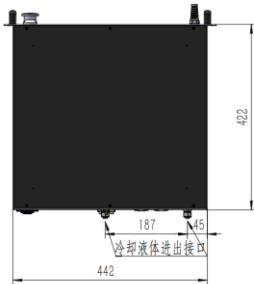
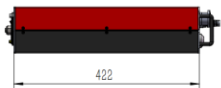
❖ Product Dimensions



Air-cooled chassis dimensions

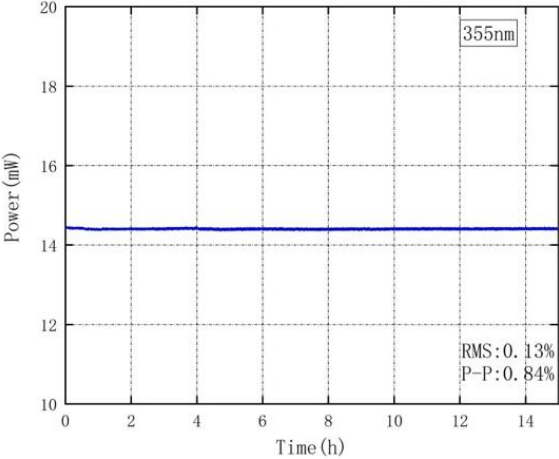


Water cooling chassis dimensions

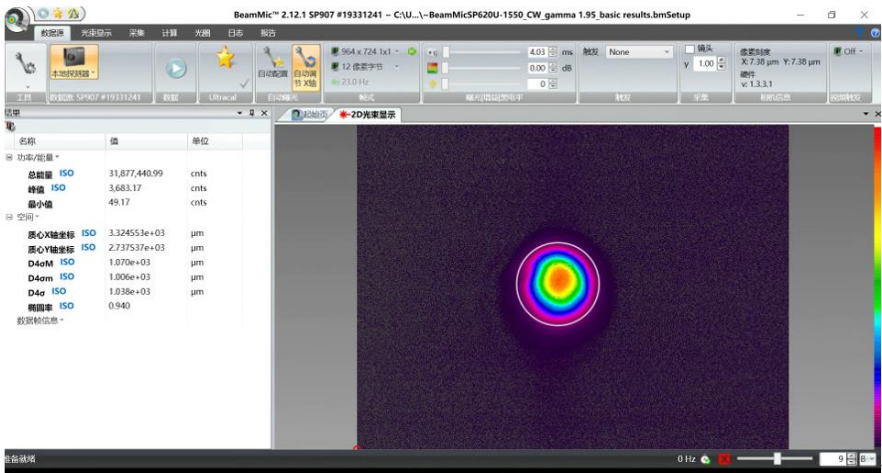


Frequency doubling head dimensions

❖ Performance index test (typical value)



Power stability test chart:RMS=0,13%,15h




Light spot test chart



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⚠ Laser Hazard

Visible or invisible laser radiation, avoid eye or skin exposure to direct, reflected or filtered radiation.

CLASS 4 Laser Products