

532nm Non-single Frequency Laser

Based on non-single frequency seed laser, fiber laser amplification and high-efficiency frequency conversion technology, Precilasers can provide non-single frequency 532nm laser with maximum output of 40W, long life and excellent beam quality.

Features

- Long Life
- High Power
- Excellent Beam Quality
- Never Mode-hop

Applications

- Wafer Inspection
- Interference Exposure



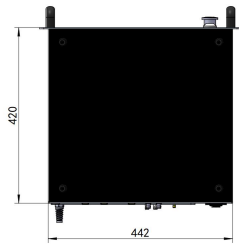
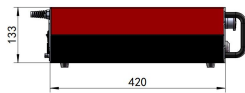
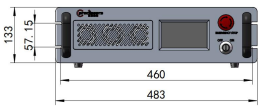
| Specification | | | |
|---|---|------------------------|------|
| Partnumber | FL-NSF-532-X ⁽¹⁾ -CW | | |
| Center Wavelength | 532.00nm | | |
| Linewidth ⁽²⁾ | 40GHz±1GHz | | |
| Operation Mode | Continuous | | |
| Output Power | >10W | >20W | >40W |
| Beam Waist Diameter | 0.8±0.2 mm | | |
| Beam Waist Location Relative to Output Window (m) | Output window within ±0.3m | | |
| Beam Divergence (Full Angle) | <0.9mrad | | |
| Beam Ellipticity | 0.9-1.1 | | |
| Pointing Stability | <5μrad | | |
| Beam Quality | TEM ₀₀ , M ² <1.1 | | |
| Polarization | Linear, Vertical±3°, >23dB | | |
| Power Stability | <0.75% @3hours, RMS | | |
| Relative Intensity Noise | <0.1%(RMS, 10Hz-10MHz integration) | | |
| Cooling | Air Cooling | Water Cooling | |
| Warm-up Time | | | |
| Cold Start | <1 hour | | |
| From Standby | <30 minutes | | |
| Dimensions & Weights | | | |
| Laser Head Dimensions | ≤358mm x 90mm x 70mm | | |
| Laser Controller Dimensions | ≤483mm x 420mm x 133mm | ≤483mm x 422mm x 105mm | |
| Operating Environment & Power Supply | | | |
| Temperature | 15-30 °C | 15-35 °C | |
| Power Supply | 100V-240V, AC, 50/60Hz | | |
| Communication | RS422 | | |

(1) X is the laser power in W. For example, the model of a 40W 532nm non-single-frequency laser is: FL-NSF-532-40-CW

(2) Linewidth can be customized

Air Cooling Version Dimensions (Power: 10W)

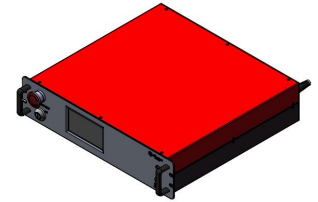
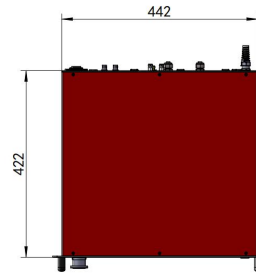
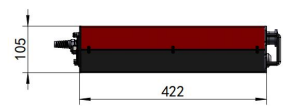
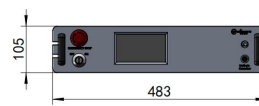
Laser Controller



Laser Head

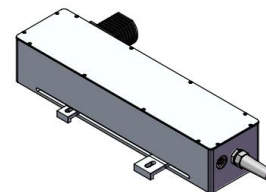
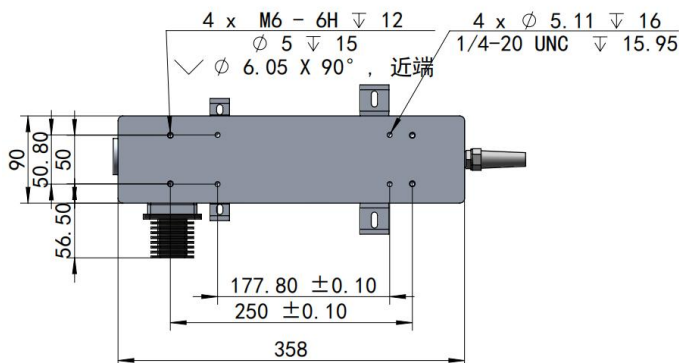
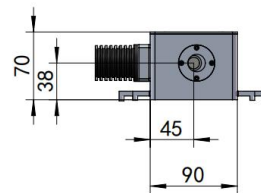
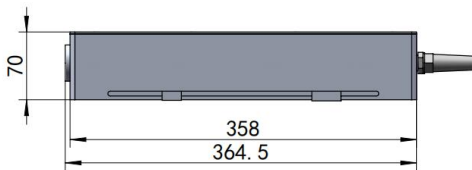
Water Cooling Version Dimensions (Power: 20W & 40W)

Laser Controller



Laser Head

Laser Head



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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

