

Rainbow 1550 Pro

1550 nm Ultrafast Fiber Laser

Rainbow 1550 Pro is a high-performance medium-power ultrafast fiber laser that features excellent stability and reliability. The laser can be configured to output either femtosecond or picosecond pulses, with a maximal output power >500 mW. The length of the fiber-pigtail can be customized up to 5 m. The laser also offers an optional AOM module that can reduce the repetition rate (<1 MHz). The laser can also be configured into a wavelength-tunable ultrafast source with >80 nm tuning range, covering C+L band.

Rainbow 1550 Pro is based on an all-PM fiber structure. It integrates NPI Lasers' unique "Smart-Lock" processes to ensure long-term stability and reliability. With its unrivaled cost-performance ratio, Rainbow 1550 Pro is well-suited for applications such as THz-TDS, SHG/THG imaging, nonlinear optics and laser metrology.

Applications:

- Terahertz generation
- Precision measurement
- Two-photon polymerization
- Two-photon imaging

Main Specification

Laser Parameters

Pulse Width (FWHM)	<100 fs	<15 ps	Repetition Rate	80 MHz
Average Power	>200 mW	>500 mW	Average Power Stability	<0.5% RMS (12hrs@25°C)
Spectral Width	>20 nm	<2 nm	Polarization Extinction Ratio	>20 dB
Central Wavelength	1560±10 nm		Output Type	PM1550 Fiber,FC/APC Connector

Electrical, Environmental and Mechanical Parameters

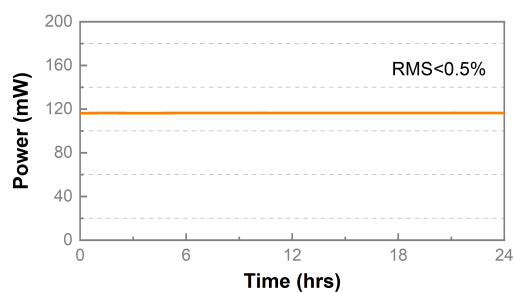
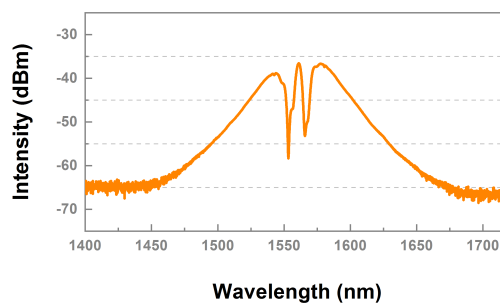
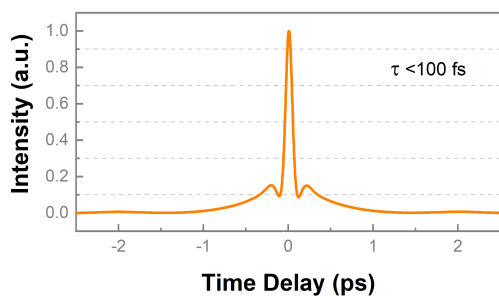
Supply Voltage	100-240 VAC	Dimensions	390×298×115 mm
Operational Temperature Range	15-35°C	Cooling	Air cooling
Operational Humidity Range	20~80% (non-condensing)		



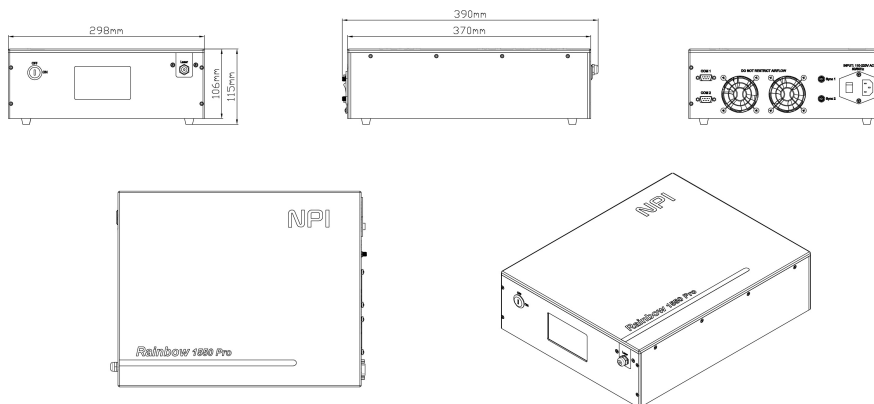
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Test Data



Machine Drawing



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