

Rainbow 2000 Pro

2000 nm Ultrafast Fiber Laser

Rainbow 2000 Pro is a high-performance medium-power ultrafast Tm fiber laser that features excellent stability and reliability. It has a center wavelength of 1970 ± 10 nm, a pulse width of < 200 fs or < 15 ps, with a maximal average output power reaching > 4 W. The laser also offers an optional AOM module that can reduce the repetition rate (< 1 MHz). To access more peak power, Rainbow 2000 HP provides > 1 W average power with femtosecond output.

Rainbow 2000 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 2000 Pro is well-suited for applications such as Mid-IR frequency conversion, nonlinear optics and silicon photonics.

Applications:

- Mid-IR Frequency Conversion
- Nonlinear optics
- Mid-IR spectroscopy
- Silicon photonics

Main Specification

Laser Parameters

Pulse Width (FWHM)	< 200 fs	< 15 ps	Repetition Rate	80 MHz
Average Power	> 200 mW	> 4 W	Average Power Stability	$< 0.5\%$ RMS (12hrs@25°C)
Pulse Energy	2.5 nJ	50 nJ	Polarization Extinction Ratio	> 20 dB
Central Wavelength	1970 ± 10 nm		Output Type	PM1550 Fiber, FC/APC Connector, Free-space

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)		



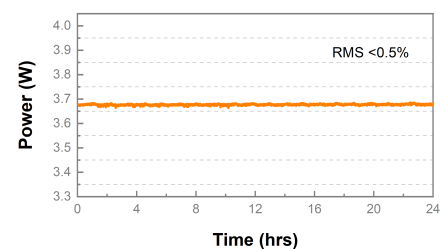
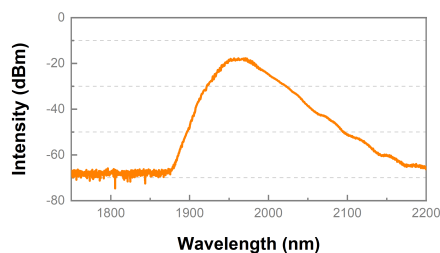
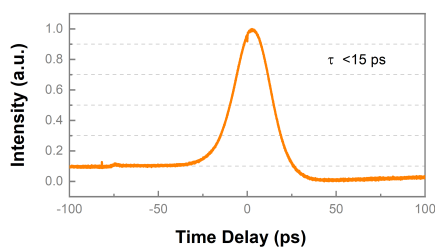
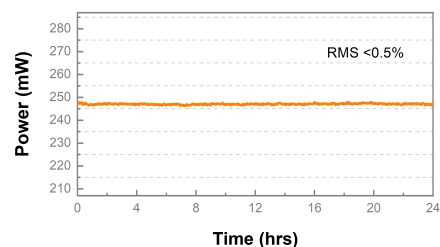
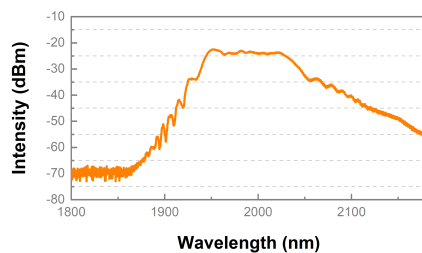
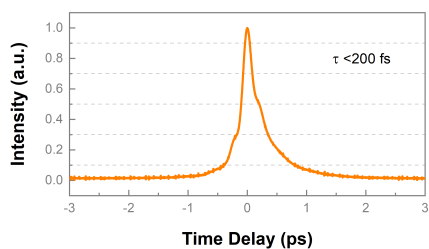
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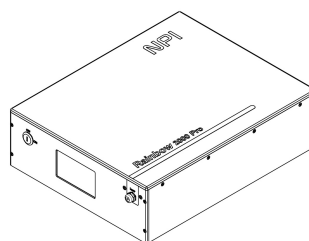
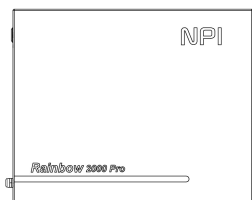
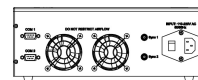
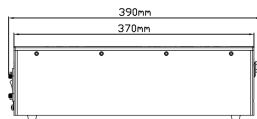
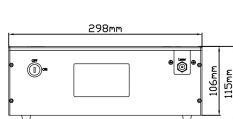
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Test Data



Machine Drawing



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