

Rainbow 1550 LOCK

1550 nm Repetition-rate locked Ultrafast Fiber Laser

Rainbow 1550 LOCK is our repetition-rate locked version of the standard Rainbow 1550 Pro, specifically designed for frequency comb R&D. It has all the excellent optical characteristics, while at the same time, utilizing an integrated feedback module to stabilize the repetition rates to within a few mHz. The laser is designed to take in a reference frequency from a high-performance signal source between 80-100 MHz. The LOCK system is also available at 1 μ m and 2 μ m range, upon customer request.

With its unrivaled cost-performance ratio, Rainbow LOCK is ideally suited for optical frequency comb, dual-comb spectroscopy and asynchronous optical sampling.

Applications:

- Optical frequency comb
- Precision optical measurement
- Terahertz generation
- Optical asynchronous sampling

Main Specification

Laser Parameters

Central Wavelength	1560 $\pm$ 10 nm	Repetition Rate	< 10 mHz (12hrs@25°C)
Pulse Width (FWHM)	<80 fs	Allen Variance	< 10 ⁻¹¹ @1s
Repetition Rate	80-100 MHz optional	Pigtail Length	1-3 m (customizable)
Average Power	>100 mW	Output Type	PM1550 Fiber,FC/APC Connector
Average Power Stability	<0.5% RMS (12hrs@25°C)		

Electrical, Environmental and Mechanical Parameters

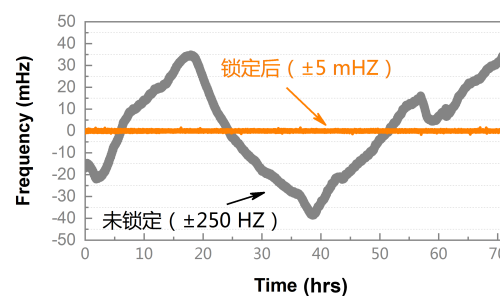
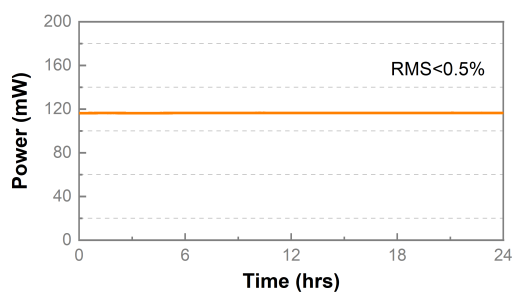
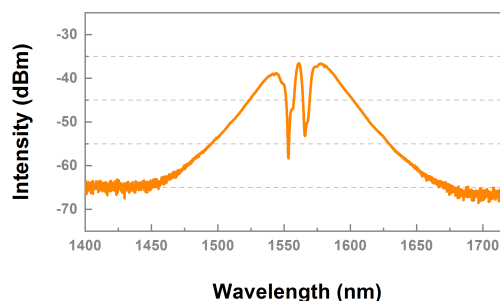
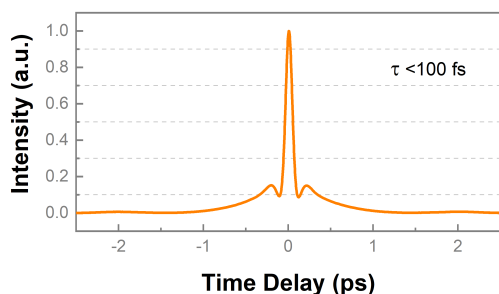
Supply Voltage	100-240 VAC	Dimensions	387×298×115 mm
Operational Temperature Range	15-35 °C	Cooling	Air cooling
Operational Humidity Range	20~80% (non-condensing)		



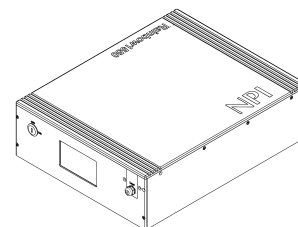
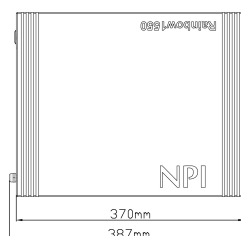
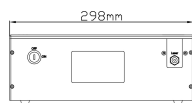
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Test Data



Machine Drawing



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CAUTION
CLASS 3B LASER RADIATION
WHEN OPEN
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION