

Rainbow 1550 Dichro

1550/780 nm Ultrafast Fiber Laser

Rainbow 1550 Dichro features a dual-port design and may provide high-power output at both 1550 nm and 780 nm simultaneously. It gives customers the ultimate flexibilities in constructing multi-purpose optical systems. The proportion of 1550 and 780 output power can be customized upon user request. The laser is a fully-integrated turn-key system, and can also be computer controlled.

Rainbow 1550 Dichro 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, pump-probe spectroscopy.

Applications:

- SHG imaging
- Two-photon Polymerization
- Multiphoton imaging
- Time-resolved fluorescence

Main Specification

Laser Parameters

Central Wavelength	1560±10 nm	780±10 nm	Repetition Rate	80 MHz
Pulse Width (FWHM)	< 80 fs	< 100 fs	Average Power Stability	<0.5% RMS (12hrs@25°C)
Average Power	>100 mW	>60 mW	Polarization Extinction Ratio	>20 dB
Pulse Energy	>1.25 nJ	>0.75 nJ		

Output Type PM1550 Fiber,FC/APC Connector;Spatial collimation output

Electrical, Environmental and Mechanical Parameters

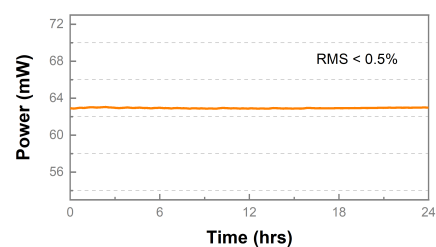
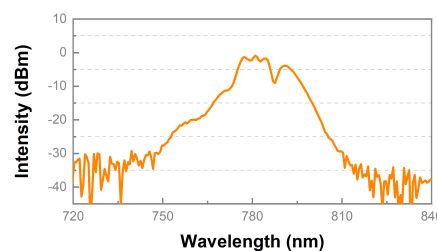
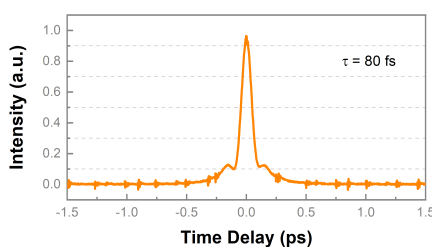
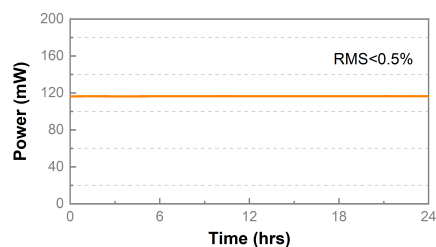
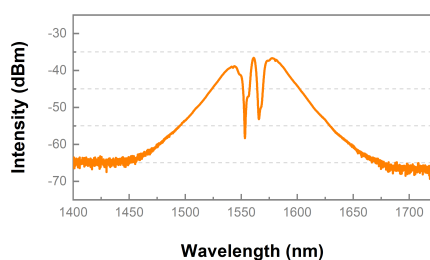
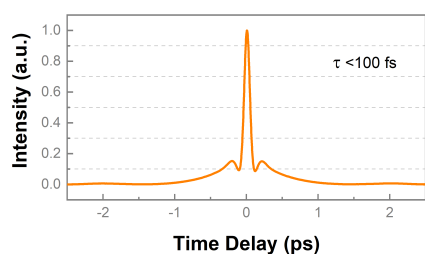
Supply Voltage	100-240 VAC	Dimensions	392×346×126 mm
Operational Temperature Range	15-35°C	Cooling	Air cooling
Operational Humidity Range	20~80% (non-condensing)		



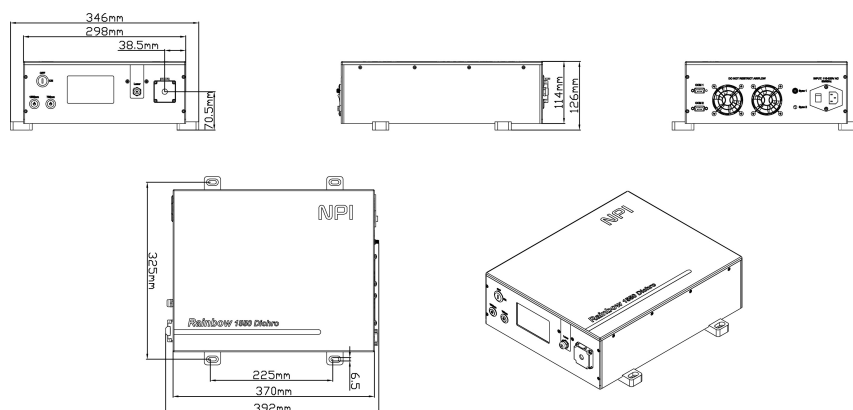
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Test Data



Machine Drawing



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CAUTION

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