

Rainbow 1064 Dichro

1064/532 nm Ultrafast Fiber Laser

Rainbow 1064 Dichro features a dual-port design and may provide high-power output at both 1064 nm and 532 nm simultaneously. It gives customers the ultimate flexibilities in constructing multi-purpose optical systems. The proportion of 1064 and 532 output power can be customized upon user request. The laser is a fully-integrated turn-key system, and can also be computer controlled.

Rainbow 1064 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 1064 Dichro is well-suited for materials science research such as TCSPC, SHG/THG imaging, pump-probe spectroscopy, and other nonlinear optics applications.

Applications:

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

Main Specification

Laser Parameters

Central Wavelength	1064 nm	532 nm	Repetition Rate	30 MHz (20-50 MHz optional)
Average Power	>300 mW	>350 mW	Average Power Stability	<1% RMS (12hrs@25°C)
Beam Quality	M ² <1.2	M ² <1.2	Polarization Extinction Ratio	>20 dB
Pulse Width (FWHM)	<15 ps		Output Type	Collimated output, beam diameter <2 mm

Electrical, Environmental and Mechanical Parameters

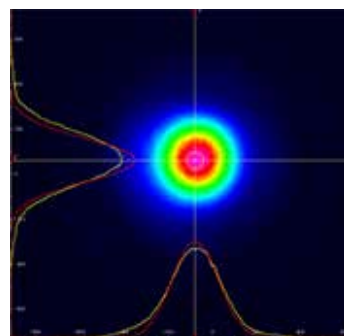
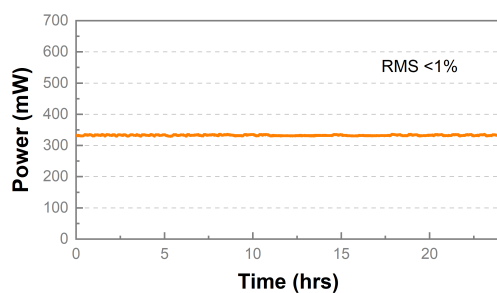
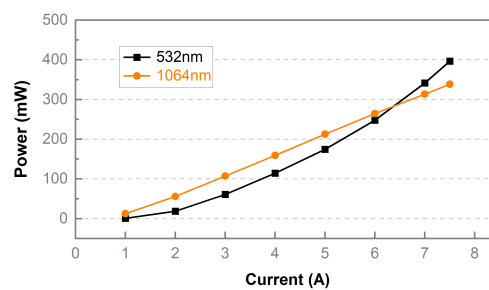
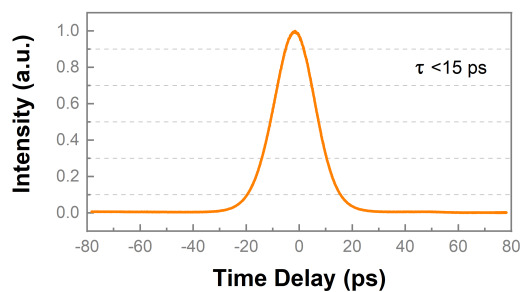
Supply Voltage	100-240 VAC	Dimensions	1064 Fundamental Frequency: 401×342×106 mm
Operational Temperature Range	15-35°C		532 Frequency-doubled: 375×197×84 mm;
Operational Humidity Range	20~80% (non-condensing)	Cooling	Air cooling



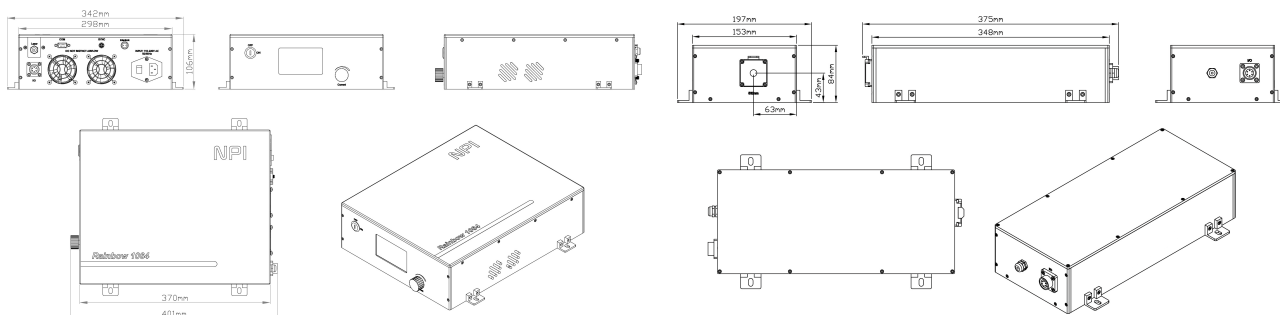
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Test Data



Machine Drawing



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