

Rainbow 1030 Pro

1030 nm Ultrafast Fiber Laser

Rainbow 1030 Pro is a compact and medium-power 1 μ m femto-second fiber laser that is comprised of our high-performance seeder (Blade Seed-fs) and a built-in compressor. The system is fully-integrated and outputs <200 fs pulses, with a fixed repetition rate of 25 MHz. To access more power, our Rainbow 1030 HP can provide >5 W average power at 1030 nm.

With its unrivaled cost-performance ratio, Rainbow 1030 Pro is widely adopted in a range of applications in nonlinear optics and ultrafast photonics.

Key Features:

- Customizable wavelength
- Femtosecond level
- Linear polarization
- Diffraction-limited beam

Applications:

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

Main Specification

Laser Parameters

Central Wavelength	1030 $\pm$ 10 nm	Average Power Stability	<0.5% RMS (12hrs@25°C)
Pulse Width (FWHM)	<200 fs	Polarization Extinction Ratio	>20 dB
Repetition Rate	25 MHz	Beam Quality	M ² <1.2
Average Power	>100 mW	Output Type	Spatial collimation output
Pulse Energy	>4 nJ		

Electrical, Environmental and Mechanical Parameters

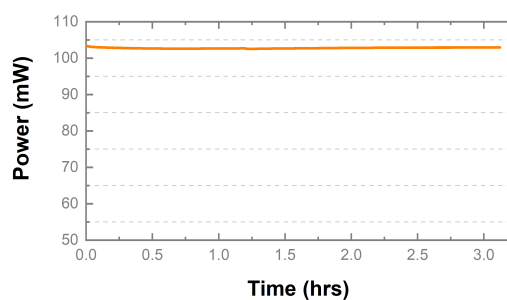
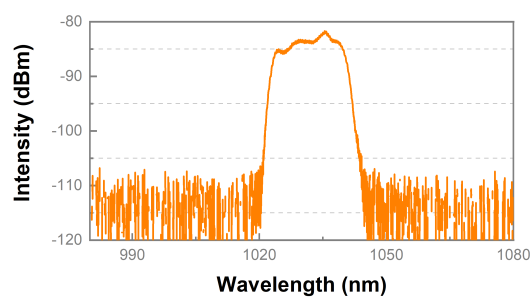
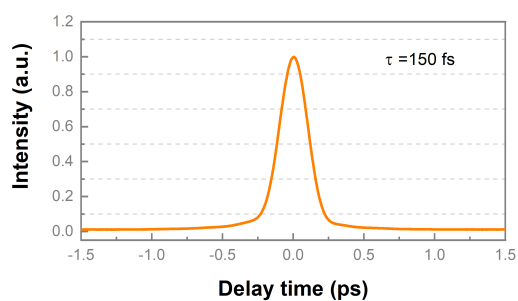
Supply Voltage	12 VDC	Dimensions	260×194×115 mm
Operational Temperature Range	15-35°C	Cooling	Air cooling
Operational Humidity Range	20~80% (non-condensing)		



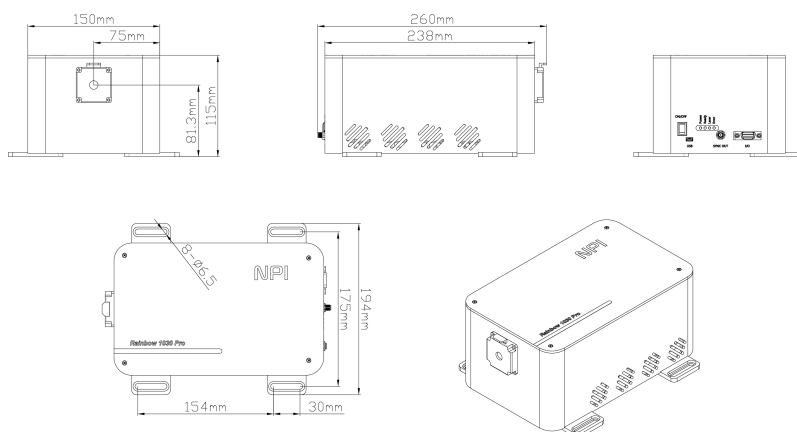
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Test Data



Machine Drawing



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