Rainbow 10X0 HP

1030-1060 nm High Power Ultrafast Laser

Rainbow 10X0 HP is our new generation of “wavelength versatile” high power fiber laser that features unparalleled output parameters. The laser adopts an innovative new cavity design that allows setting of the central wavelength within 1030-1060 nm. As with other NPI mode-locked products, the Rainbow 10X0 HP laser is produced using our proprietary ‘Smart-Lock’ processes to ensure long-term stability and reliability. It has an average output power exceeding 5 W and a pulse width under 100 fs. A frequency-doubling module can be used to enable W-level 532nm (Green) femtosecond output.
Rainbow 10X0 HP is well suited for applications such as OPO/OPA pumping, fluorescence microscopy, two-photon polymerization, seeding high-power amplifiers and other advanced photonic experiments.

Applications :

- Harmonic imaging
- Two-photon polymerization
- Two-photon fluorescence imaging
- High precision laser ranging

Main Specification

Laser Parameters			
Operating Wavelength	1030-1060 nm	Average Power Stability	<0.5% RMS(12h@25℃)
Pulse width (FWHM)	< 150 fs	Pulse Energy	>60 nJ
Repetition Rate	80 MHz	Polarization Extinction Ratio	>20 dB
Average Power	5-10 W	Output Type	Spatially collimated output

Electrical, Environmental and Mechanical Parameters			
Supply Voltage	100-240 VAC	Weight	20 Kg
Operational Temperature Range	15-35 ℃	Dimensions	445×300×134; 380×445×94mm
Operational Humidity Range	20~80 ℃	Cooling	Air cooling

Tel：025-84985077
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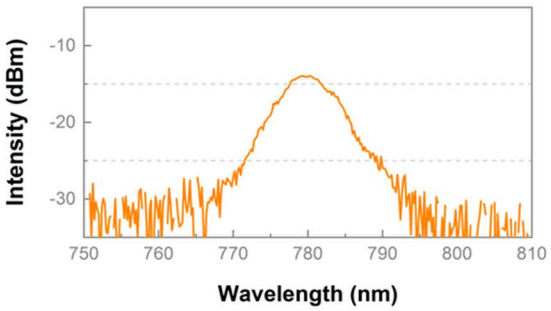
Rainbow 780 HP

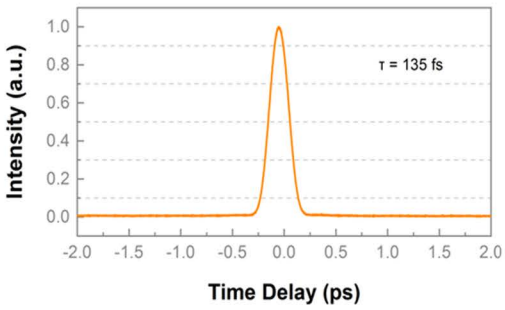
780 nm High Power Ultrafast Fiber Laser

Test Data

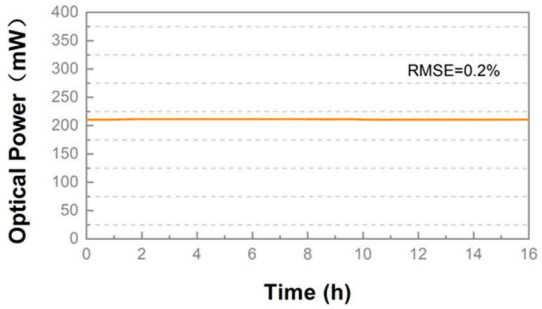
Output spectrum



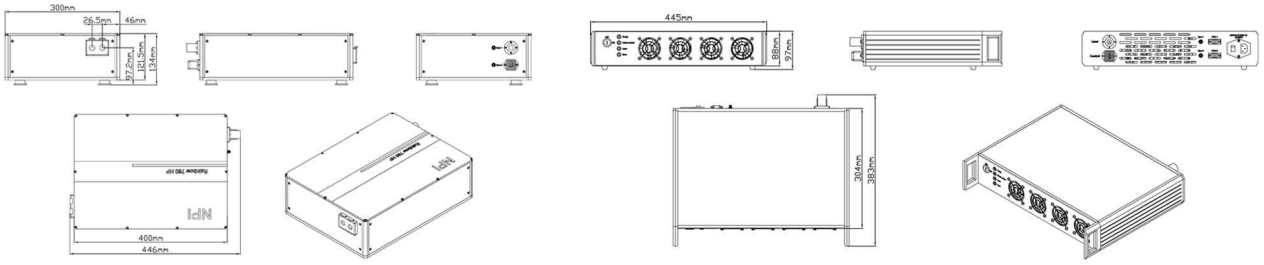
Typical output pulse width



Power Stability



Machine Drawing



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RoHS CE ISO

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