

Rainbow 1550 OEM

1550 nm Ultrafast Fibre Laser

Rainbow 1550 OEM is a high-performance femtosecond fibre laser that features excellent stability and reliability. The laser is highly compact, can be remotely controlled via software, and is well-suited for setting up optical and spectroscopic systems.

Rainbow 1550 OEM operates with a default repetition rate of 80 MHz (50-100 MHz optional) and an average output power of > 100 mW. To meet the requirements of certain applications, The length of the fibre-pig-tail can be customised up to 5m. The laser also offers an optional AOM module that can reduce the repetition rate (<1 MHz). For more power, our Rainbow 1550 HP can provide Watt-level average power.

Rainbow 1550 OEM is widely adopted in applications such as THz-TDS, SHG/THG imaging, nonlinear optics and laser metrology.

Applications:

- Terahertz generation
- SHG/THG imaging
- Nonlinear optics
- Laser metrology
- General-purpose ultrafast source

Main Specification

Laser Parameters

Central Wavelength	1560±10 nm	Pulse Energy	>1.25 nJ
Pulse Width (FWHM)	<80 fs	Polarisation Extinction Ratio	>20 dB
Repetition Rate	80MHz(50-100 MHz optional)	Pigtail Length	1 m (customizable)
Average Power	>100mW(Up to 200 mW)	Output Type	PM SM fibre, FC/APC narrow key jumper
Average Power Stability	<0.5%RMS (12hrs@25°C)		

Electrical, Environmental and Mechanical Parameters

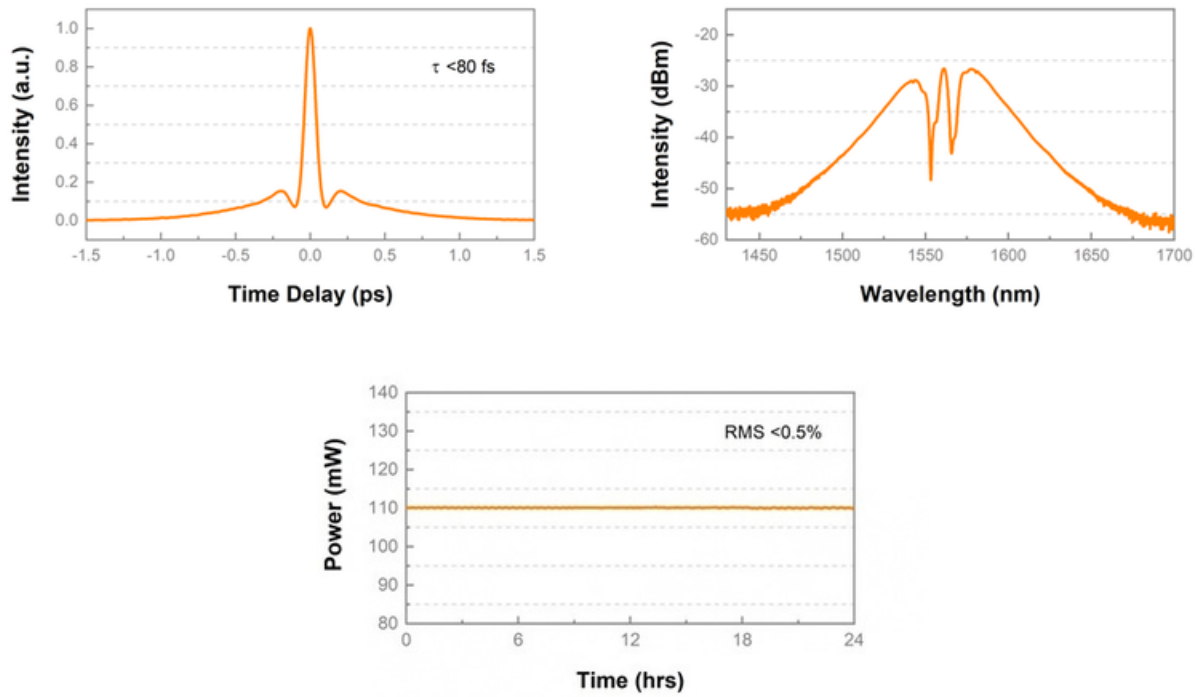
Supply Voltage	12 VDC	Dimensions	200×140×48 mm
Operational Temperature Range	15-35°C	Cooling	Air cooling
Operational Humidity Range	20~80% (non-condensing)		



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Test Data



Machine Drawing

