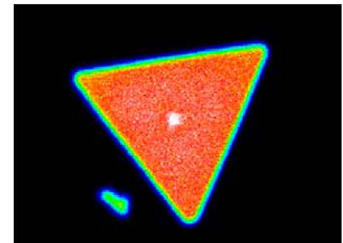
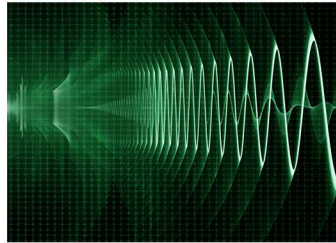


1.5 μm Ultrafast Fiber Laser - Rainbow 1550 OEM

Rainbow 1550 OEM is a miniaturized version of Rainbow 1550 Pro. The laser is highly compact and is specially developed for oem integration, such as commercial THz instrumentation. It is also popular with photonics labs as a general-purpose ultrafast source. Rainbow 1550 OEM has flexible parameters upon user requests. The laser operates at a wavelength of $1560\pm 10\text{nm}$, and has pulse width of $\leq 80\text{fs}$, repetition rate of 80MHz and an average power up to 200mW . The laser can couple with our high-performance frequency-doubling module for 780nm output.



Key Features :

- Customizable wavelength
- 10k times mode-lock test
- Linearly polarization
- Diffraction limited beam

Applications :

- Terahertz generation
- Harmonic generation
- Two-photon polymerization
- Two-photon imaging

» Main Specification:

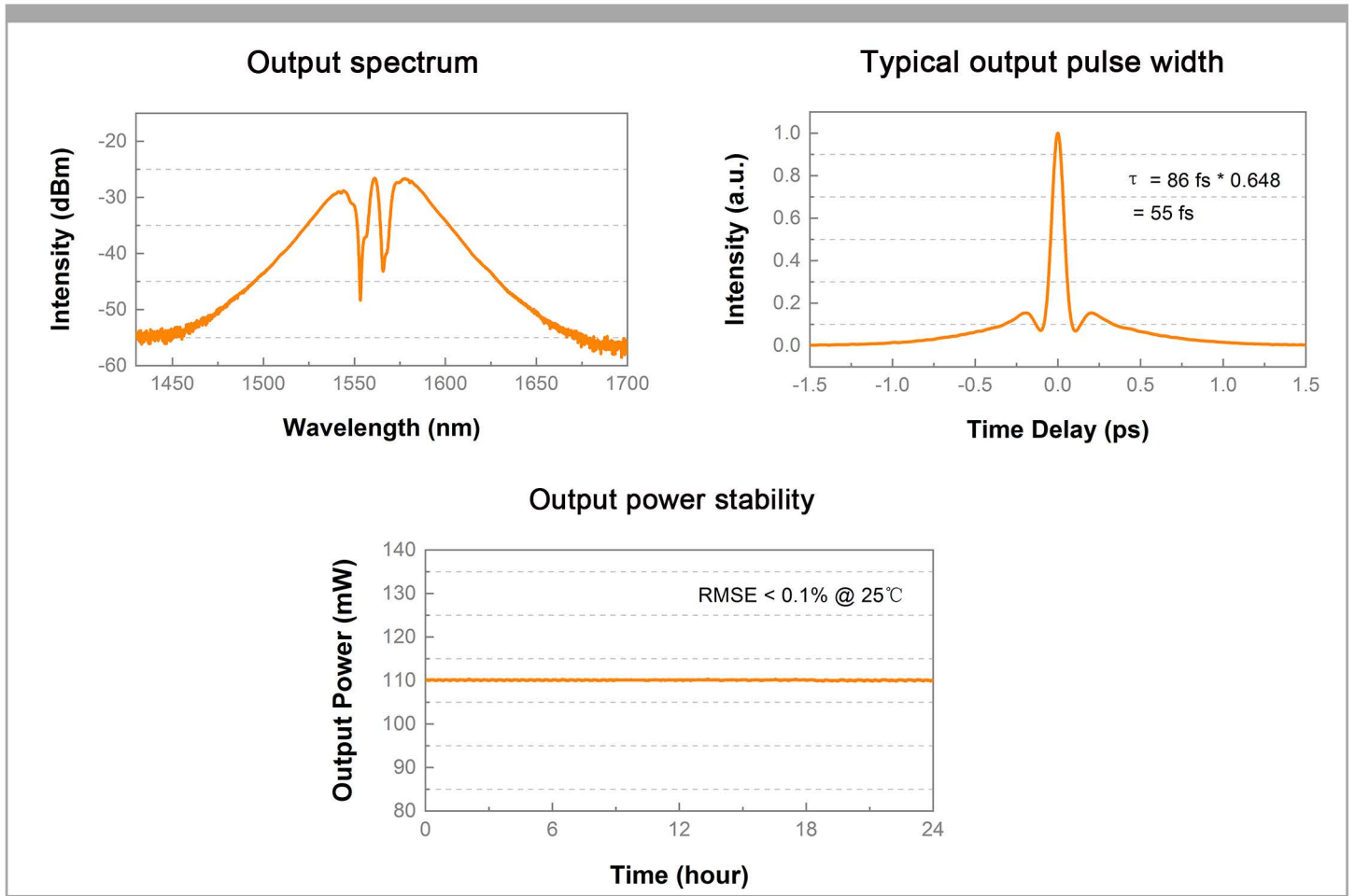
Laser Parameters

Operating Wavelength	nm	1560 ± 10
Pulse Width (FWHM)	fs	<80
Repetition Rate	MHz	80
Average Power	mW	>100 or >200
Average Power Stability	% RMS	<0.1 (24h@25°C)
Single Pulse Energy	nJ	>1.25
Polarization Extinction Ratio	dB	>20
Beam Quality		TEM00, $M^2 < 1.2$
Output Fiber Length	m	1 or 5
Output Mode		PM1550 Fiber, FC/APC Connector

Electrical, Environmental and Mechanical Parameters

Trigger Signal	V	1 V @50 Ohm
Power Consumption	Watt	<150
Supply Voltage	VDC	12
Operational Temperature Range	°C	10-45
Operational Humidity Range	%	20~80 (non-condensing)
Storage Temperature Range	°C	0-50
Storage Humidity Range	%	20~80 (non-condensing)
Weight Laser Head	kg	2
Dimensions Laser Head	mm(L×W×H)	200×140×48
Cooling		Air-cooled

Test Data :



Machine Drawing

