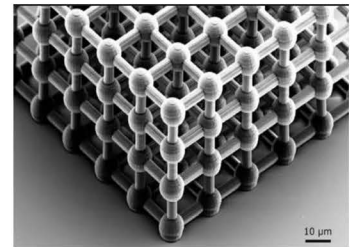
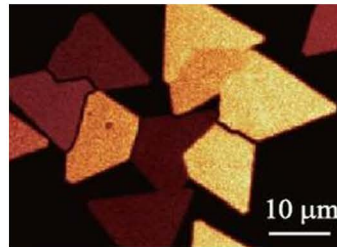


780 nm High Power Ultrafast Fiber Laser - Rainbow 780 HP

Rainbow 780 HP is a frequency-doubled version of our high-power Er mode-locked laser Rainbow 1550 HP. It has an average output power of 0.2W at a wavelength of 780nm. It features a diffraction-limited free space laser beam with sub-150 fs pulse width. The laser boasts 24-hour power stability within 0.5%, currently the highest standard in industry. The laser can be a cost-effective substitute to ultrafast Ti:Sapphire oscillators.

Rainbow 780 HP is ideal for applications such as two-photon polymerization, non-linear optics, quantum optics, SHG/THG imaging and multi-photon imaging. It can meet a broad range of R&D requirements of the scientific community.



Key Features :

- Long-Term Stable Operation
- High Pulse Energy
- Reliable Mode-Locking
- All-PM Solution

Applications :

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

» Main Specification:

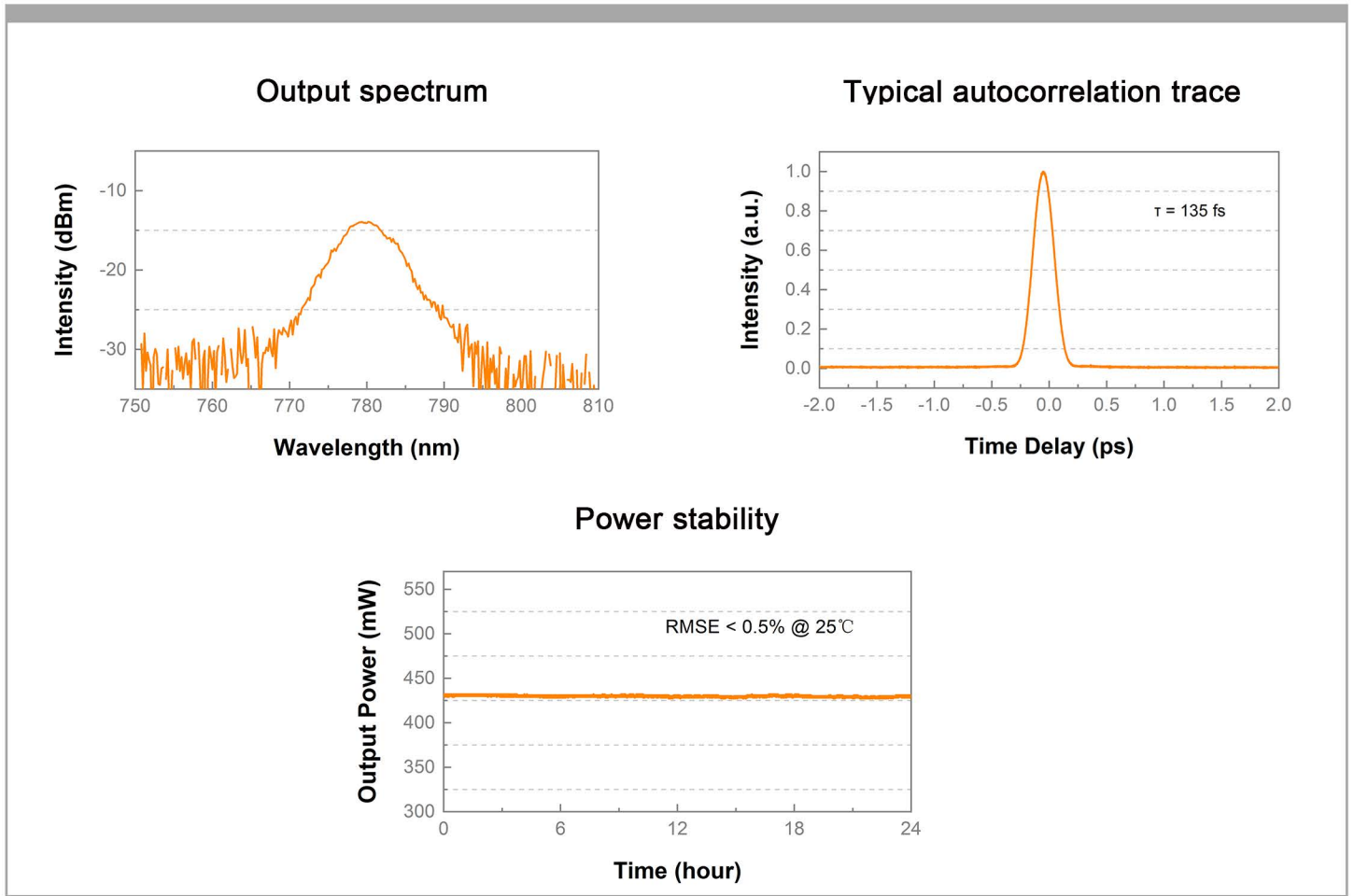
Laser Parameters

Operating Wavelength	nm	780±10
Pulse Width (FWHM)	fs	<150
Repetition Rate	MHz	80
Average Power	W	>0.2
Average Power Stability	% RMS	<0.5 (24h@25°C)
Single Pulse Energy	nJ	>2.5
Polarization Extinction Ratio	dB	>20
Beam Quality		TEM00, M ² <1.2
Output Mode		Free-space /Shutter

Electrical, Environmental and Mechanical Parameters

Trigger Signal	V	1 V @50 Ohm
Power Consumption	Watt	<150
Supply Voltage	VAC	100-240 (50Hz/60Hz)
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	10
Dimensions Laser Head	mm(L×W×H)	445×300×134
Weight supply unit	kg	10
Dimensions supply unit	mm(L×W×H)	380×445×94
Cooling		Air-cooled

Test Data :



Machine Drawing

