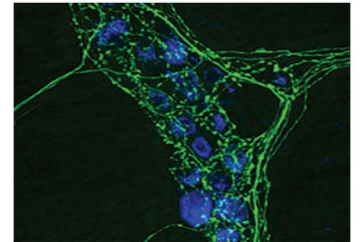
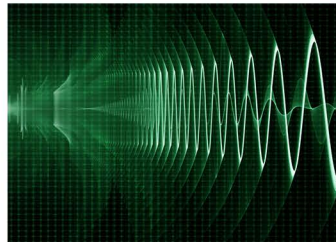


## 780 nm Ultrafast Fiber Laser - Rainbow 780 OEM

Rainbow 780 OEM is a high-performance ~800 nm ultrafast fiber laser, specifically designed for oem integration, such as commercial THz instrumentation. It is comprised of our best-selling Rainbow 1550 OEM and a compact frequency-doubling module to generate 780nm femtosecond laser beam with excellent power and transverse mode stability.

Rainbow 780 OEM has flexible parameters upon user requests. The laser operates at a wavelength of 780nm, and has pulse width of <80fs, repetition rate of 80MHz and an average power up to 60mW. A picosecond version is available as an option.



### Key Features :

- Customizable wavelength
- High peak powerl
- Linearly polarization
- Diffraction limited beam

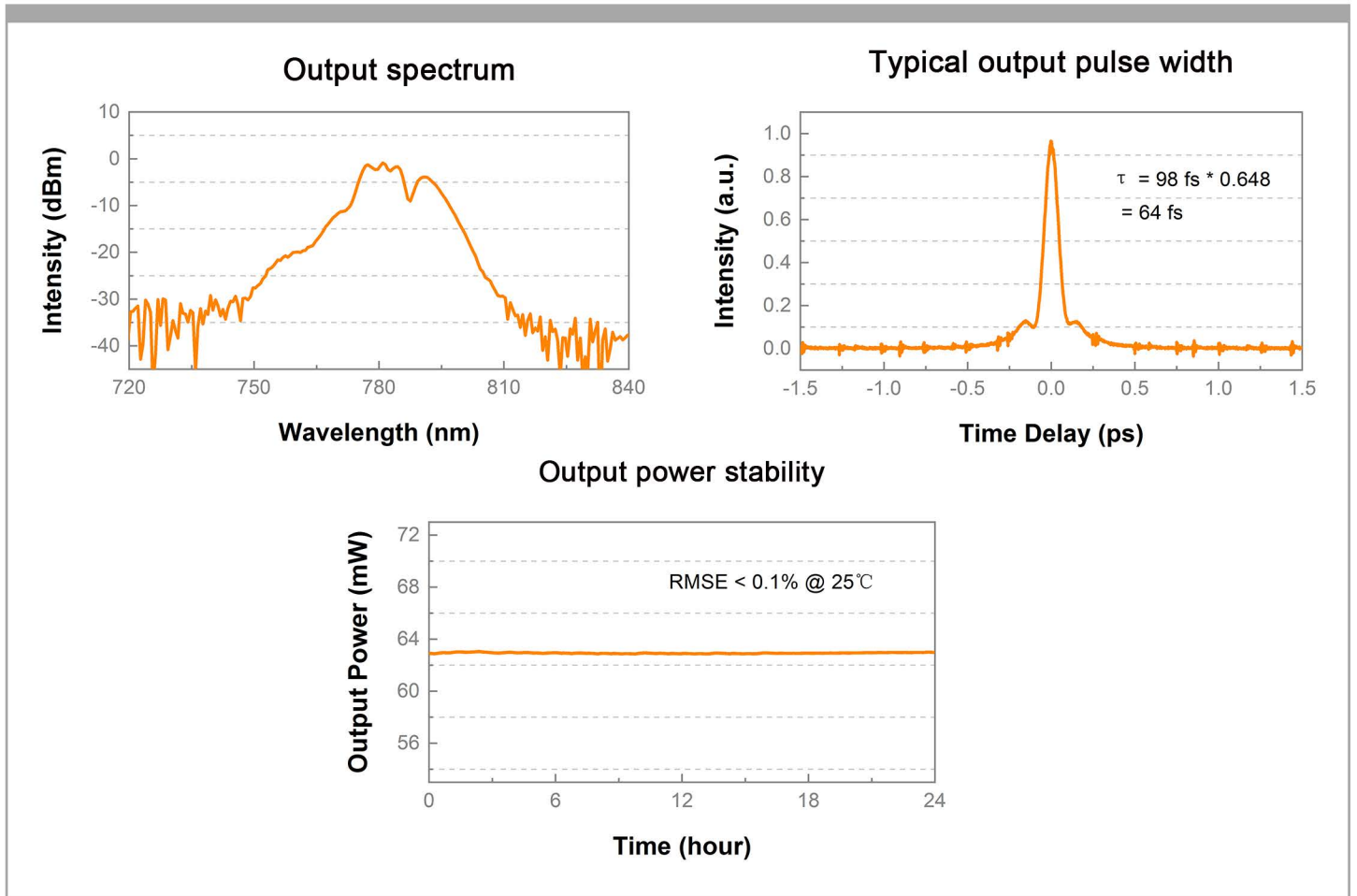
### Applications :

- Terahertz radiation
- Biophotonology
- Dual photon imaging
- Optical measurements

## » Main Specification:

Laser Parameters		
Operating Wavelength	nm	780
Pulse Width (FWHM)	fs	<80
Repetition Rate	MHz	80
Average Power	mW	>60 or >80
Average Power Stability	% RMS	<0.5 (24h@25°C)
Single Pulse Energy	nJ	>0.75
Polarization Extinction Ratio	dB	>20
Beam Quality		TEM00, M <sup>2</sup> <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	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	kg	2
Dimensions	mm(L×W×H)	200×140×85
Cooling		Air-cooled

### Test Data :



### Machine Drawing

