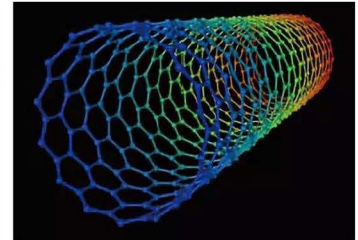
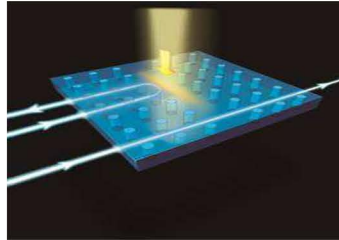


2 μm Ultrafast Fiber Laser - Rainbow 2000 OEM

Rainbow 2000 OEM is a miniaturized version of Rainbow 2000 Pro. The laser is highly compact and is specially developed for oem integration, such as seeder for high-power mid-infrared pulsed systems. Rainbow 2000 OEM has flexible parameters upon user requests. The laser operates at a wavelength of $1970\pm 20\text{nm}$, and has spectral bandwidth up to 100nm (narrower bandwidth are available as option), repetition rate of 80MHz and an average power up to 15mW.



Key Features :

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

Applications :

- Mid-IR frequency conversion
- Nonlinear optics
- Silicon photonics
- Mid-IR spectroscopy

» Main Specification:

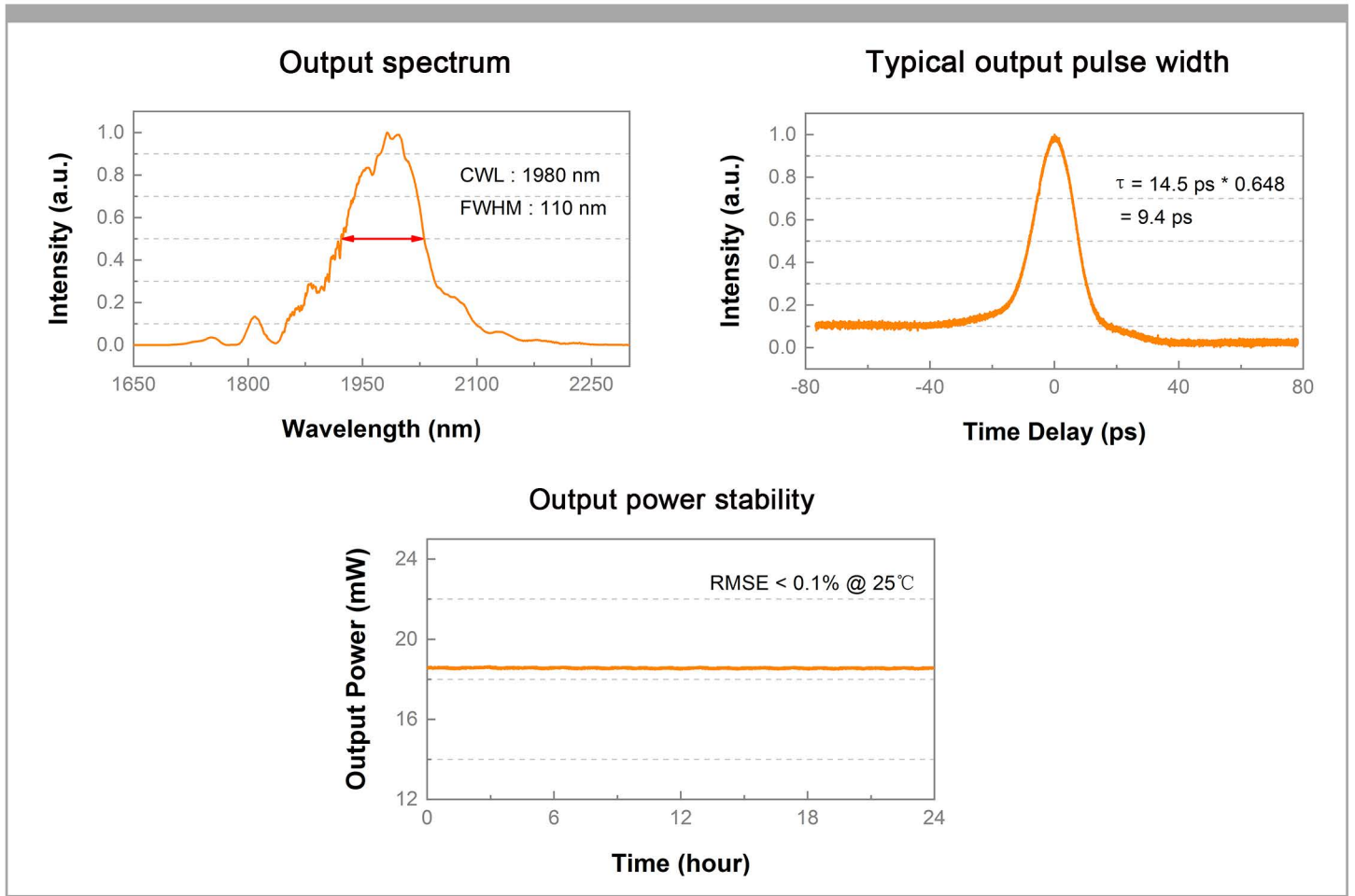
Laser Parameters

Operating Wavelength	nm	1970 \pm 20nm
Spectral Bandwidth	nm	>100
Pulse Width (FWHM)	ps	<10 (can be compressed to the fs scale)
Repetition Rate	MHz	80
Average Power	mW	>15
Average Power Stability	% RMS	<0.1 (24h@25 $^{\circ}$ C)
Single Pulse Energy	nJ	>0.18
Polarization Extinction Ratio	dB	>20
Beam Quality		TEM00, M ² <1.2
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	$^{\circ}$ C	10-45
Operational Humidity Range	%	20~80 (non-condensing)
Storage Temperature Range	$^{\circ}$ C	0-50
Storage Humidity Range	%	20~80 (non-condensing)
Weight Laser Head	kg	2
Dimensions Laser Head	mm(L \times W \times H)	200 \times 140 \times 48
Cooling		Air-cooled

Test Data :



Machine Drawing

