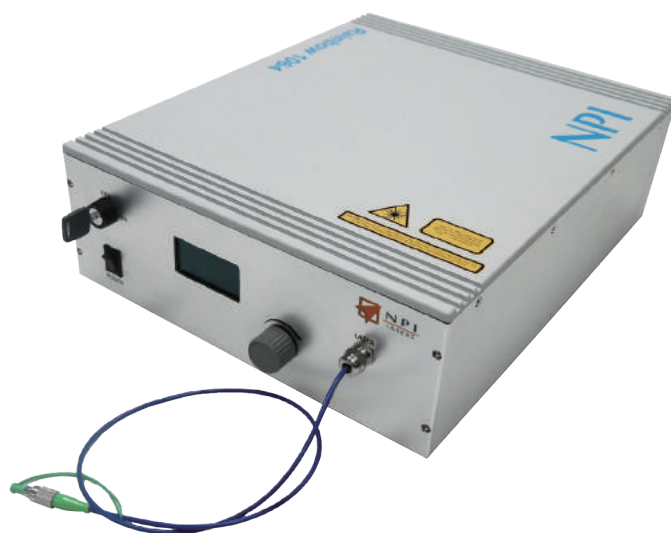


Rainbow 1064

1 μm Ultrafast Fiber Laser

For scientific research and industrial OEM



Rainbow 1064 series is high repetition rate 1 micron ultrafast fiber laser. The laser parameters can be selected flexibly in certain range. Typical output wavelength is from 1030 to 1064 nm, the pulse width is less than 10 ps, the repetition rate is 5-50 MHz. Lower rate is also available, that can be tuned down as little as hundreds of hertz, and the output pulse energy can reach up to micro joule level.

Rainbow 1064 can be applied to scientific research such as seed source of high energy laser system, supercontinuum generation, optical parametric amplifier pump, time-resolved fluorescence excitation and pump detection.

Because of its simple interface and compact size, it is convenient for scientific researchers to integrate into complex optical systems.

Rainbow 1064 uses all fiber master oscillator power amplifier (MOPA) design, and it provides optional built-in modular of SHG or THG to realize ultrafast green/UV light output. Each laser is subjected to strict vibrational stable testing to ensure a long-term reliable operation.



Key Features

- Customized operating wavelength
- Picosecond level
- Linearly polarized
- Diffraction limited beam
- Tune-key system



Applications

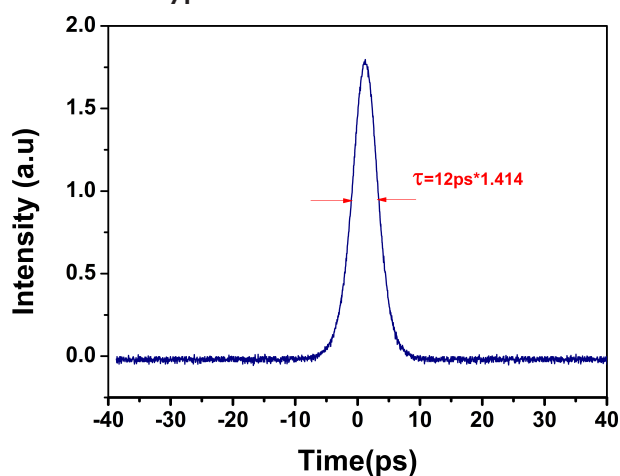
- OPA pump
- Pump-probe
- Supercontinuum generation
- Source for time-resolved fluorescence



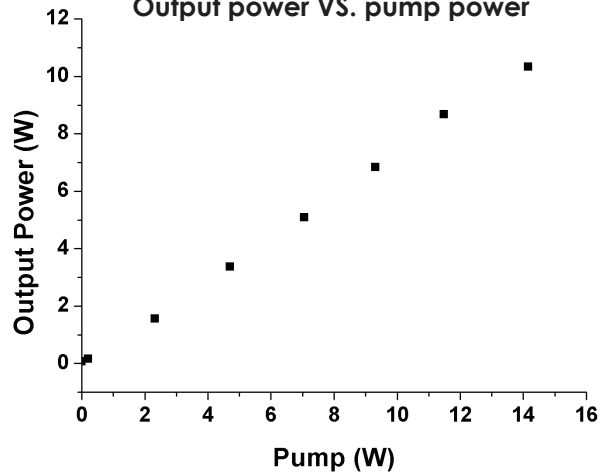
Main Specification

Parameter	Performance
operating wavelength	1030-1064 nm (optional)
pulse duration	<15 ps
Average Output Power	1 W , 10 W
Repetition Rate	10-50 MHz
Peak Power	>60 kW
Operating Temperature	15-35 °C
Power Requirement	AC 100-240 V (50 Hz/60 Hz)
Dimensions	390 mm x 298 mm x 115 mm
Weight	7 kg
Output Fiber Type	Armored cable

Typical autocorrelation trace



Output power VS. pump power



Machine Drawing

