

SuperTune-2000

2 μm Widely Tunable Fiber Laser



SuperTune-2000 is the first domestic CW laser with widely tuning range in mid-infrared band. The wavelength tuning range is from 1900~2050 nm, with 0.1 nm linewidth and >1 mW average output power. It can be used in gas detection, optical coatings, sensing, spectral characteristics of optical elements and accurate characterization of spectral characteristics of materials.

SuperTune-2000 can be used together with NPI Lasers' thulium doped fiber amplifier (TDFA) to generate high average power (>1 W).

SuperTune-2000 has excellent stability of power and wavelength under fixed mode. While the sweeping speed is >20 nm/s under sweep mode. For example, for passive optical fiber components or waveguide devices, the wide spectrum transmission characteristic peak near 2 microns can be obtained in 30 seconds by using sweep mode of SuperTune-2000.

Key Features

- Excellent power stability
- Fast wavelength sweep
- Diffraction limited beam
- Tune-key system

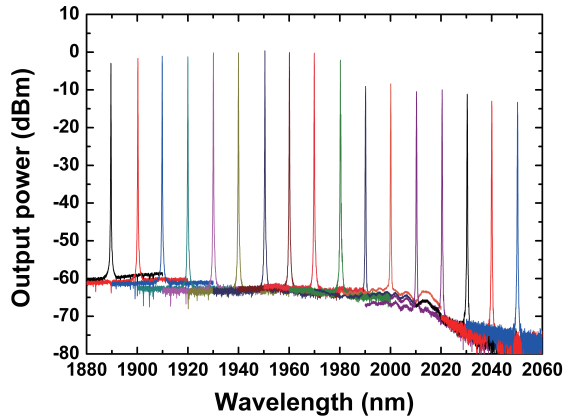
Applications

- Gas sensing
- Biomedical analysis
- Spectroscopy
- Test and measurement
- Silicon Photonics

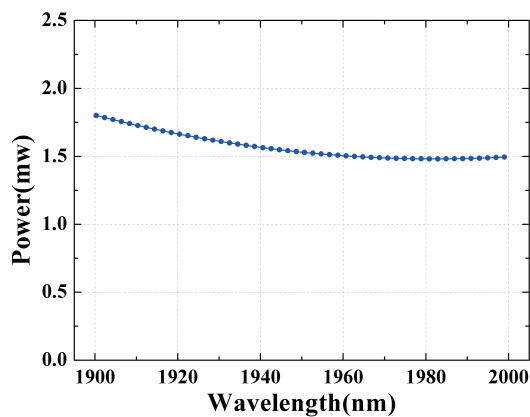
Main Specification

Parameter	Performance
Tuning Range	1900-2050 nm type A: 1900-2000 nm type B: 1970-2050 nm
Spectral Bandwidth	~0.1 nm
Average Output Power	>1 mW
Beam Quality, M ²	<1.1
Operating Temperature	15-35 °C
Power Requirement	AC 100-240 V (50 Hz/60 Hz)
Dimensions	436 mm x 260 mm x 146 mm
Weight	17 kg
Output Type	SM2000 or Nufern PM1950, FC/PC or FC/APC connector

Typical spectrum



Output power



Machine Drawing

