

Lulu

Ultrafast Fiber Laser

1020-1064 nm wavelength-tunable



Overview

Our ultrafast fiber laser is the first all-fiber and all-polarization maintaining mode-locked laser that enables turn-key stable operation.

The wavelength, pulse duration, and spectral bandwidth are tuned continuously by installing an electrically programmable optical filter into the cavity.

The typical applications include ultrafast spectroscopy, fluorescence and Raman imaging, dual comb spectroscopy, supercontinuum generation.

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Features

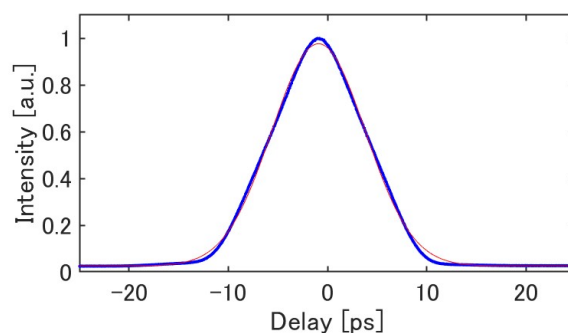
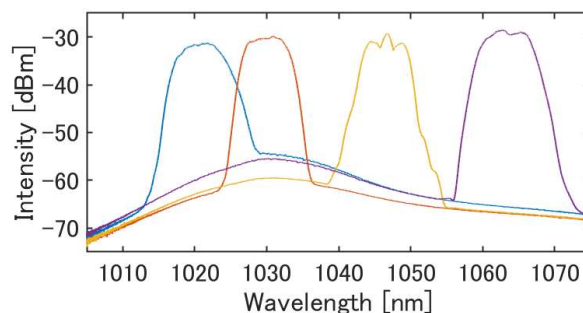
- PC-controlled tunable center wavelength, pulse duration, spectral bandwidth
- Gaussian shape spectrum
- "Instant-on" turn-key operation
- Stable mode-locking operation

Specifications

- Center wavelength: 1020-1064 (tunable)
- Pulse duration: > 300 fs – 10 ps (tunable)
- Spectral bandwidth: 3 - 7 nm (tunable)
- Repetition rate: 6 MHz (fixed)
- Output power: 70 mW @ 1030 nm

Applications

- Ultrafast Spectroscopies
- Fluorescence and Raman imaging
- Dual comb spectroscopy
- supercontinuum generation



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