



## Features

- <40 fs Pulse Duration
- >500 mW
- >60 kW
- Integrated Controller
- Free-Space Output
- Air-Cooled

## Applications

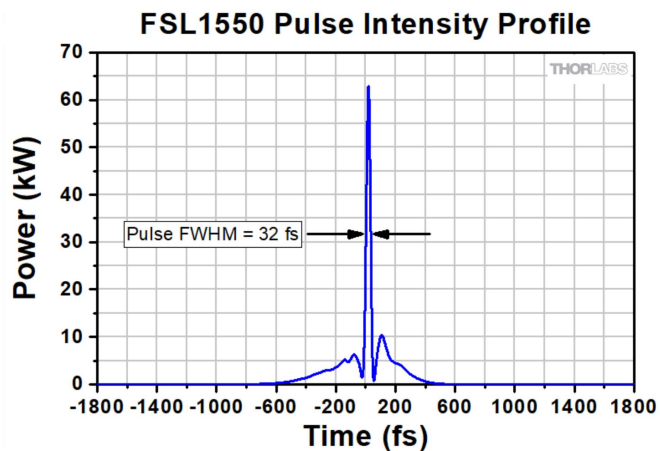
- Supercontinuum Generation
- Terahertz Generation
- Ultrafast Spectroscopy
- Multiphoton Microscopy

Thorlabs' FSL1550 high-power Erbium-doped ultrafast fiber laser is a turnkey source that offers ultra-short pulses (<40 fs) in the 1550 nm wavelength band. This laser provides high peak power (estimated >60 kW) with >500 mW average power at the fundamental oscillator repetition rate of 100 MHz. Air-cooled with an integrated controller make for an easy to use and simplified set up.

This laser features an all-PM-fiber design with no free-space or moving parts to maximize environmental stability and reliability while eliminating user intervention by removing the need for alignment for routine operation.



FSL1550



A typical intensity profile of an output pulse from the FSL1550 fiber laser. This intensity profile is a single line trace extracted from a frequency-resolved optical gating (FROG) measurement. The output pulse has a power of 510 mW.

## Specifications

|                        |                    |
|------------------------|--------------------|
| Model                  | FSL1550            |
| Central Wavelength     | 1560 nm            |
| Pulse Duration         | < 40 fs            |
| Peak Power             | > 60 kW            |
| Average Power          | > 500 mW           |
| Repetition Rate        | 100 MHz            |
| Pulse Energy           | >5 nJ              |
| Dimensions (L x W x H) | 15.9" x 17" x 5.8" |

For the most up to date information please visit [Thorlabs.com](http://Thorlabs.com)

56 Sparta Avenue • Newton, New Jersey 07860 • Contact # • [www.thorlabs.com](http://www.thorlabs.com)

Femtosecond Fiber Laser, 1550 nm