

# Tunable mid-IR ultrafast laser

Femtum is proud to introduce the first commercial ultrafast fiber laser in the mid-infrared. This compact, maintenance-free and tunable laser system is ideal for scientific applications.



## Technical Specifications

Optical <sup>1</sup>	Standard
Central wavelength	2.8 - 3.4 $\mu\text{m}$
Bandwidth (FWHM)	10 - 75 nm
Average power	30 - 1000 mW
Pulse energy	1 - 30 nJ
Repetition rate	~ 35 MHz
Peak power	~ 1 - 100 kW
Pulse duration	< 500 fs
Beam diameter	< 3 mm
M <sup>2</sup> (Average of X & Y)	< 1.3
Output polarization	Elliptical

### System specifications

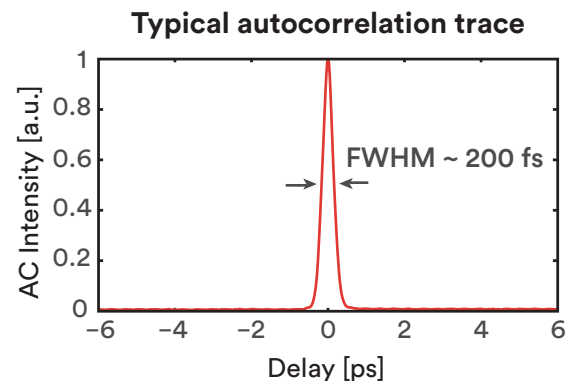
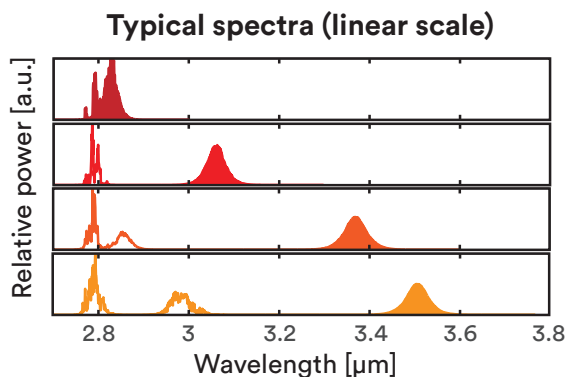
Dimensions (W x H x D) <sup>1</sup>	24 x 5.2 x 17.3 in.
Cooling	Fan-cooled
Voltage	100 to 240 V
Beam delivery	Free space or fiber output
Controller	Computer-controlled or integrated touch screen

## KEY FEATURES

- Compact and turn-key laser system
- Automated mode locking
- Pulse duration < 500 fs
- Average power up to 1 W
- Single-mode output

## APPLICATIONS

- Frequency combs
- Mid-infrared imaging
- Nonlinear frequency conversion
- Supercontinuum generation
- High-field physics



<sup>1</sup>Specifications subject to change

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