

Tunable mid-IR ultrafast fiber 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 ¹	Standard
Central wavelength	2.8 - 3.4 μm
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 ² (Average of X & Y)	< 1.3
Output polarization	Elliptical

System specifications

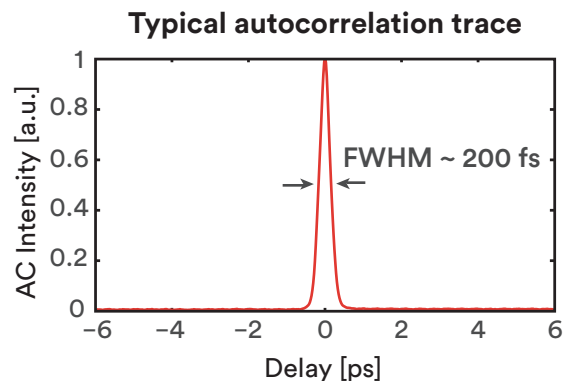
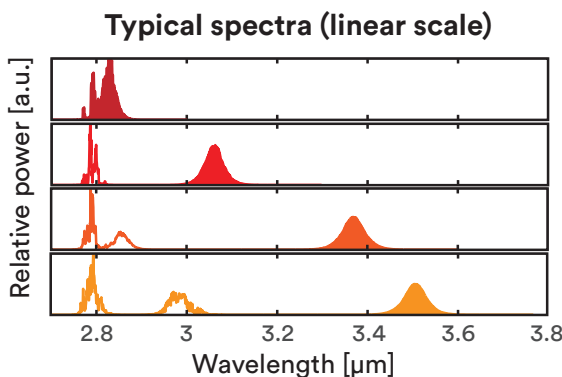
Dimensions (W x H x D) ¹	25 x 5.2 x 17.3 in.
Cooling	Fan-cooled
Voltage	100 to 240 V
Beam delivery	Free space
Controller	Computer-controlled or integrated touch screen

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



¹Specifications subject to change