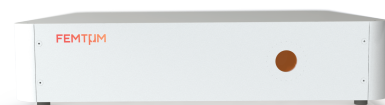


Femtum UltraTune 3400

Femtum is proud to introduce the first commercial ultrafast fiber laser emitting above 3 μm . This compact, maintenance-free and electronically tunable laser system offers unique optical performances for scientific applications.



Technical Specifications

Optical ¹	Standard ²
Central wavelength	2.8 to 3.5 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

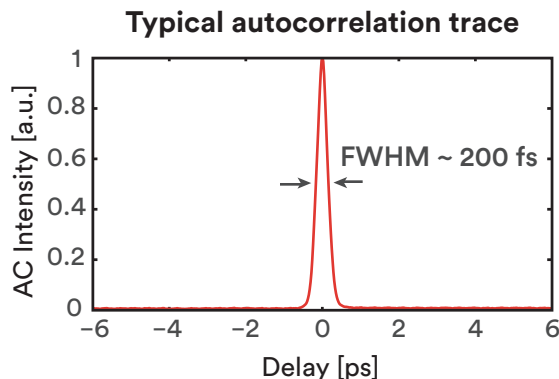
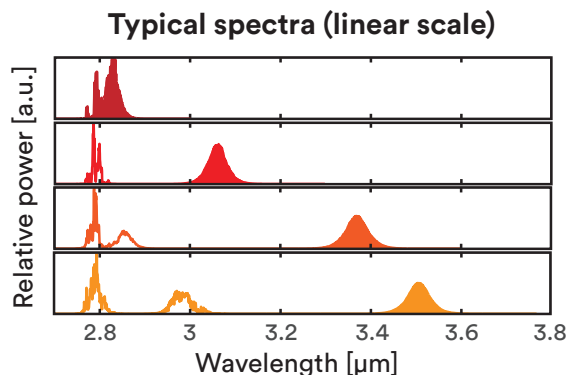
Dimensions ¹	16 × 30 × 3.5 in.
Cooling	Passive cooling
Voltage	100 to 240 V
Beam delivery	Free space ³
Controller	Computer-controlled or integrated touch screen

KEY FEATURES

- Compact and turn-key laser system
- Fast tunability from 2.8 to 3.5 μm
- Self-starting mode locking
- Integrated fast detector for monitoring
- Pulse duration < 500 fs
- Average power up to 1 W
- Single-mode output

APPLICATIONS

- Mid-infrared frequency combs
- Material processing
- Mid-infrared spectroscopy and imaging
- Nonlinear frequency conversion
- High-field physics
- Supercontinuum generation



¹ Specifications subject to change

² Custom specifications upon request

³ Fiber output with single-mode delivery cable upon request