

## 2.8 $\mu\text{m}$ ultrafast fiber laser

Femtum offers the first 3- $\mu\text{m}$  class ultrafast fiber oscillator. This reliable, compact and maintenance-free laser is ideal for R&D applications in the mid-infrared.



### Technical Specifications

Optical <sup>1</sup>	Standard	Custom
Central wavelength	2800 ( $\pm 20$ ) nm	
Bandwidth (FWHM)	10-30 nm	
Average power	35 mW	> 100 mW
Pulse energy	1 nJ	> 3 nJ
Repetition rate	~ 35 MHz	40 - 100 MHz
Peak power	> 1 kW	> 5 kW
Pulse duration	~ 500 fs	200- 500 fs
Beam diameter	< 3 mm	
M <sup>2</sup> (Average of X & Y)	< 1.3	
Output polarization	Linear	

### System specifications

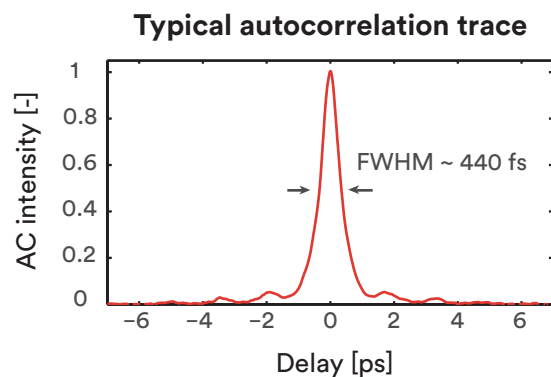
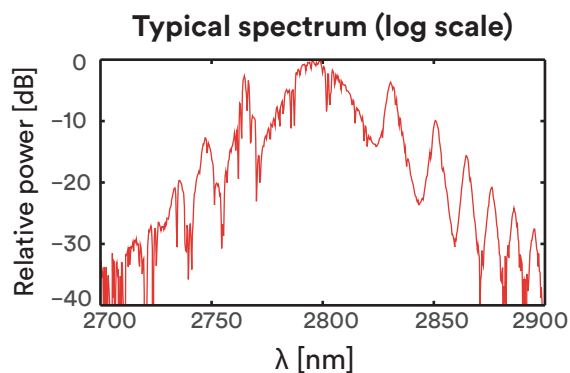
Dimensions(W x H x D) <sup>1</sup>	24 × 5.2 × 17.3 in.	
Cooling	Fan-cooled	
Voltage	100 to 240 V	
Beam delivery	Free space	Fiber output <sup>2</sup>
Controller	Computer-controlled or integrated touch screen	

### KEY FEATURES

- Compact and turn-key laser system
- Self-starting automated mode locking
- Pulse duration < 600 fs
- Average power up to 100 mW
- Single-mode output

### APPLICATIONS

- Mid-infrared frequency combs
- Nonlinear frequency conversion
- Supercontinuum generation
- High-field physics
- Nonlinear spectroscopy and microscopy



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

<sup>2</sup>Single-mode delivery cable upon request