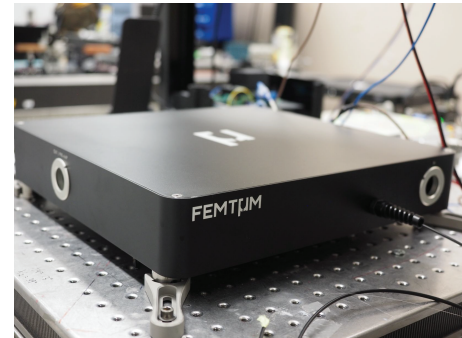


# Femtum Amp 2800

Femtum introduces the first commercial erbium-doped fluoride fiber amplifier in the mid-infrared. This compact fiber system can efficiently amplify light at wavelengths around 2800 nm.



## Technical Specifications

Optical <sup>1</sup>	Standard <sup>2</sup>
Signal wavelength	2780 (± 50) nm
Output power	10 mW to > 1 W
Signal gain	10 to > 20 dB
Output beam diameter	< 3 mm
M <sup>2</sup> (Average of X & Y)	< 1.3

### System specifications

Dimensions <sup>1</sup>	16 × 14 × 3.5 in.
Cooling	Passive cooling
Voltage	100 to 240 V
Beam delivery	Free space <sup>3</sup>
Controller	Computer-controlled or integrated touch screen

## KEY FEATURES

- Compact and turn-key system
- Efficient all-fiber diode pumping at 980 nm
- Signal gain > 10 dB
- Single-mode output

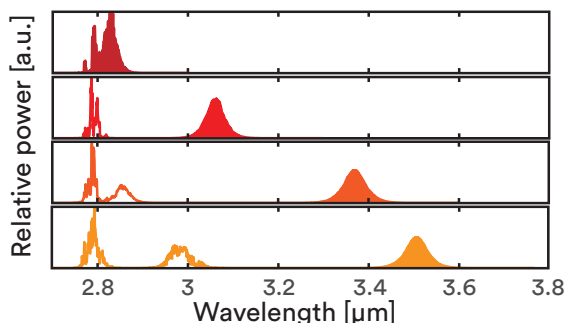
## APPLICATIONS

- Femtosecond to CW amplification
- Amplifier for ICL, OPO, DFG sources
- Mid-infrared spectroscopy and imaging
- Nonlinear frequency conversion
- High-field physics
- Supercontinuum generation

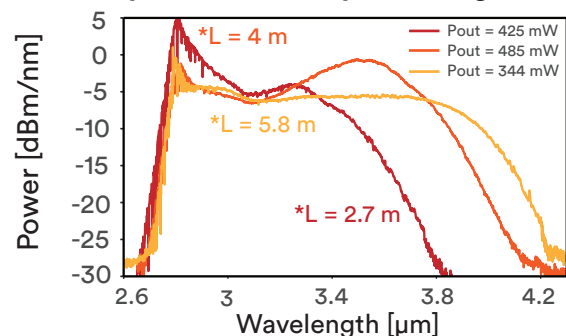
## Example of application : Mid-IR ultrafast amplifier and spectral converter

When seeded with an ultrafast laser, this amplifier can generate a watt-level tunable ultrafast output or a high energy supercontinuum spanning from 2.6 to 4.2 μm.

### Typical spectra of a tunable ultrafast amplifier



### Supercontinuum spectra (log scale)



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

<sup>2</sup> Custom specifications upon request

<sup>3</sup> Fiber output with single-mode delivery cable upon request

\* L = Amplifier length