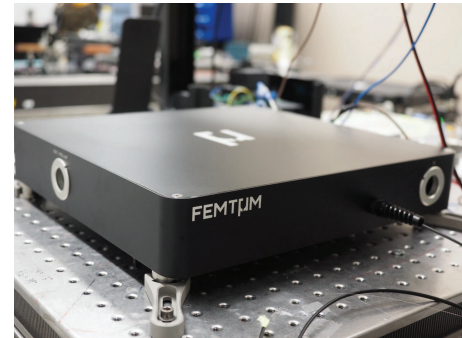


Femtum Amp 2800

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 ¹ | Standard ² |
|-----------------------------------|--|
| Signal wavelength | 2780 (± 50) nm |
| Output power | 10 mW to > 1 W |
| Signal gain | 10 to > 20 dB |
| Output beam diameter | < 3 mm |
| M ² (Average of X & Y) | < 1.3 |
| System specifications | |
| Dimensions ¹ | 16 × 14 × 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 system
- Efficient all-fiber diode pumping at 980 nm
- Signal gain > 10 dB
- Single-mode output

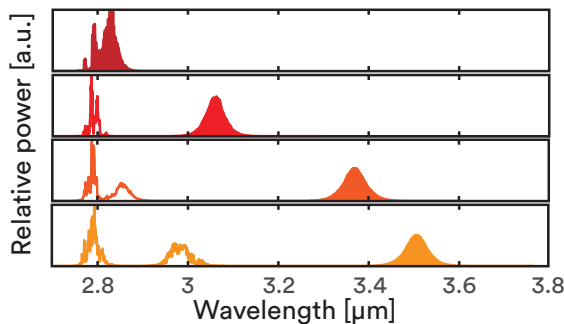
APPLICATIONS

- 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

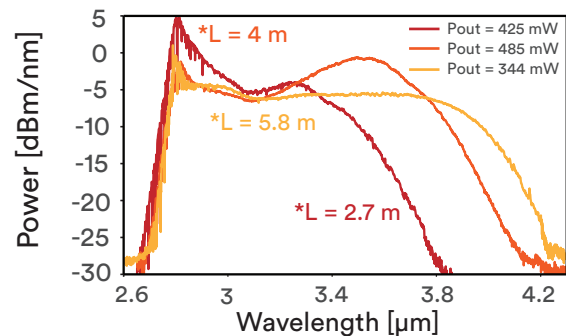
When seeded with an ultrafast laser, this amplifier can generate a watt-level tunable ultrafast output or a high energy supercontinuum spanning from 2.6 to 4.2 μm.

Typical spectra of a tunable ultrafast amplifier



¹ Specifications subject to change
² Custom specifications upon request
³ Fiber output with single-mode delivery cable upon request

Supercontinuum spectra (log scale)



* L = Amplifier length