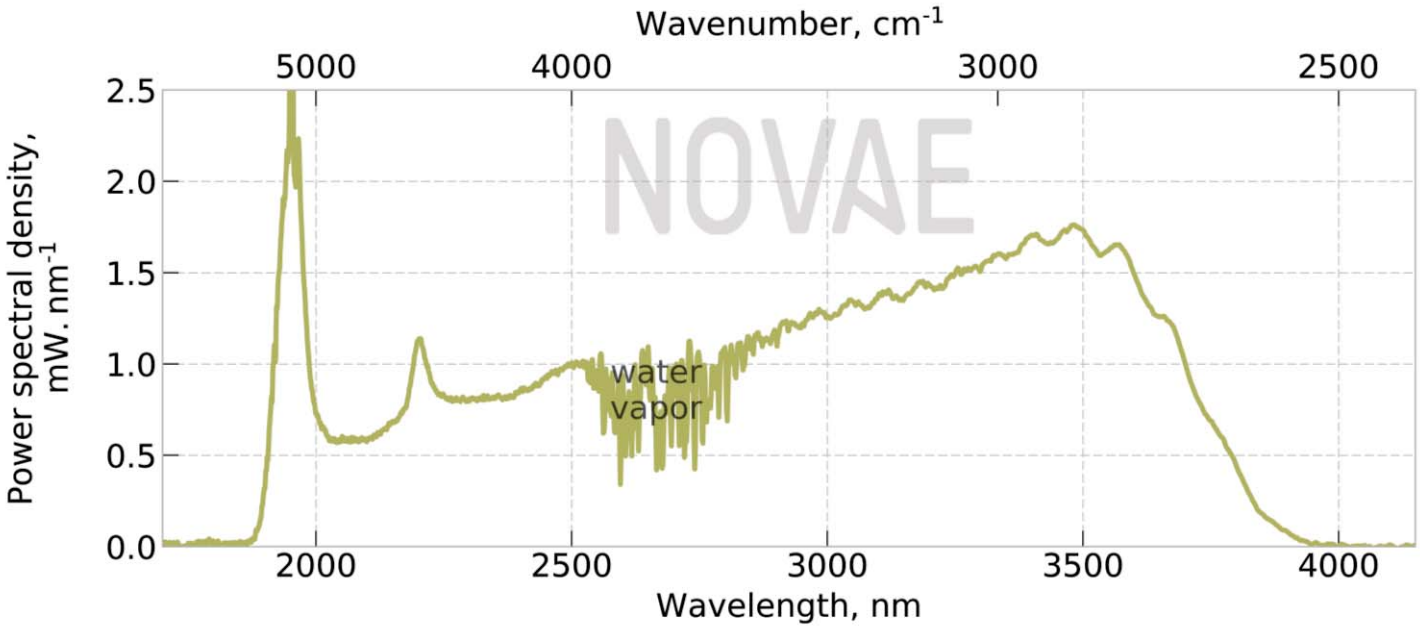
Coverage

Mid-IR broadband fiber laser

NOVAE
Shift the spectrum of fiber femto-lasers



- Broadband from **1.9 µm up to 3.9 µm**
- High power **> 1.2 W**
- **4 MHz** repetition rate
- **High brightness**
- Diffraction limited beam

Coverage is a turn-key supercontinuum source emitting a continuous spectrum from 1.9 µm up to 3.9 µm. The very high brightness associated to the high average power allows a wide range of applications such as spectroscopy, spectro-microscopy or optronic counter-measures.

Based on a patented seed source, the all-fiber integrated laser delivers up to 1 mW/nm over the operation wavelength range.

In 2016, the laser has been used for a world first demonstration of a table-top spectro-microscopy imaging of lipidic vesicles in liver sample.

KEY APPLICATIONS

- Spectro-microscopy
- Mid-infrared spectroscopy
- Trace gas analysis
- Optronic counter-measures

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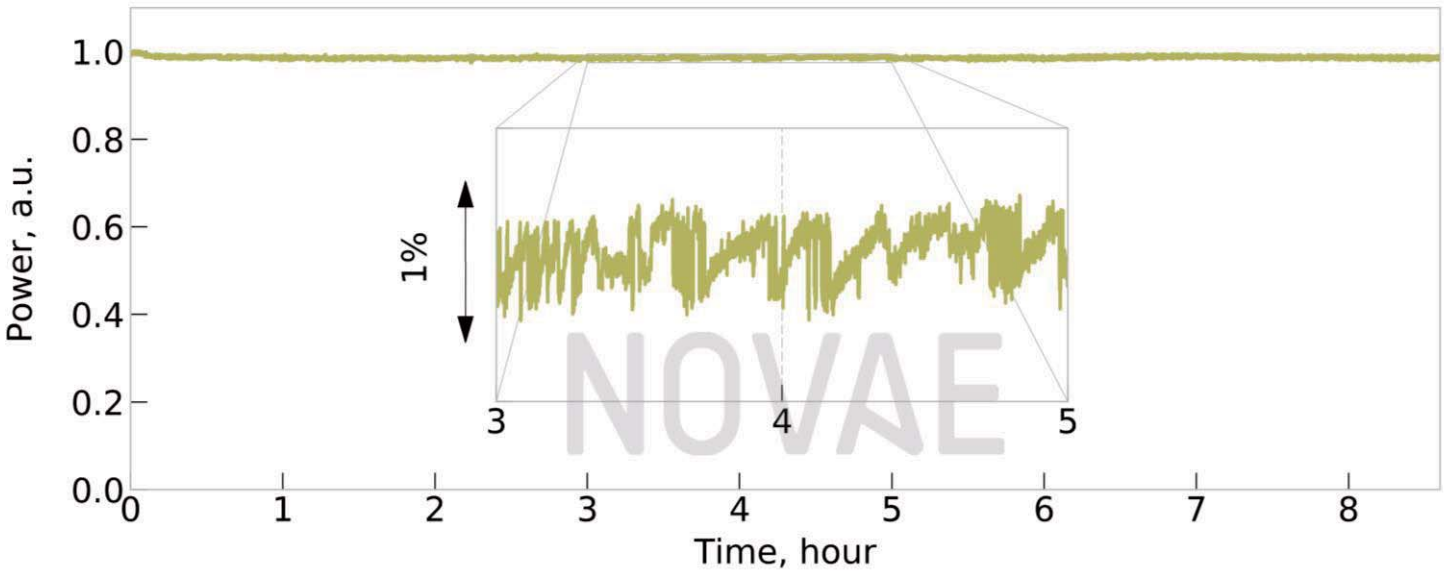
Optical specifications

Operating wavelength	From 1.9 µm up to 3.9 µm (2560 cm^{-1} to 5260 cm^{-1})
Output power	> 1.2 W
Spectral power density	Up to 1 mW/nm
Master repetition rate	4 MHz typical
Total power stability	± 0.5 %
Laser output	Collimated
Beam shape	Gaussian, single mode

Mechanical/Electrical specifications

Operation voltage	100 – 240 V VAC 50/60 Hz
System cooling	Air cooled
Operating temperature	+20 °C to +30 °C
Dimensions (h×w×d)	177×483×466 mm^3 (×2)
Weight	20 kg (electrical) / 20 kg (optical)



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