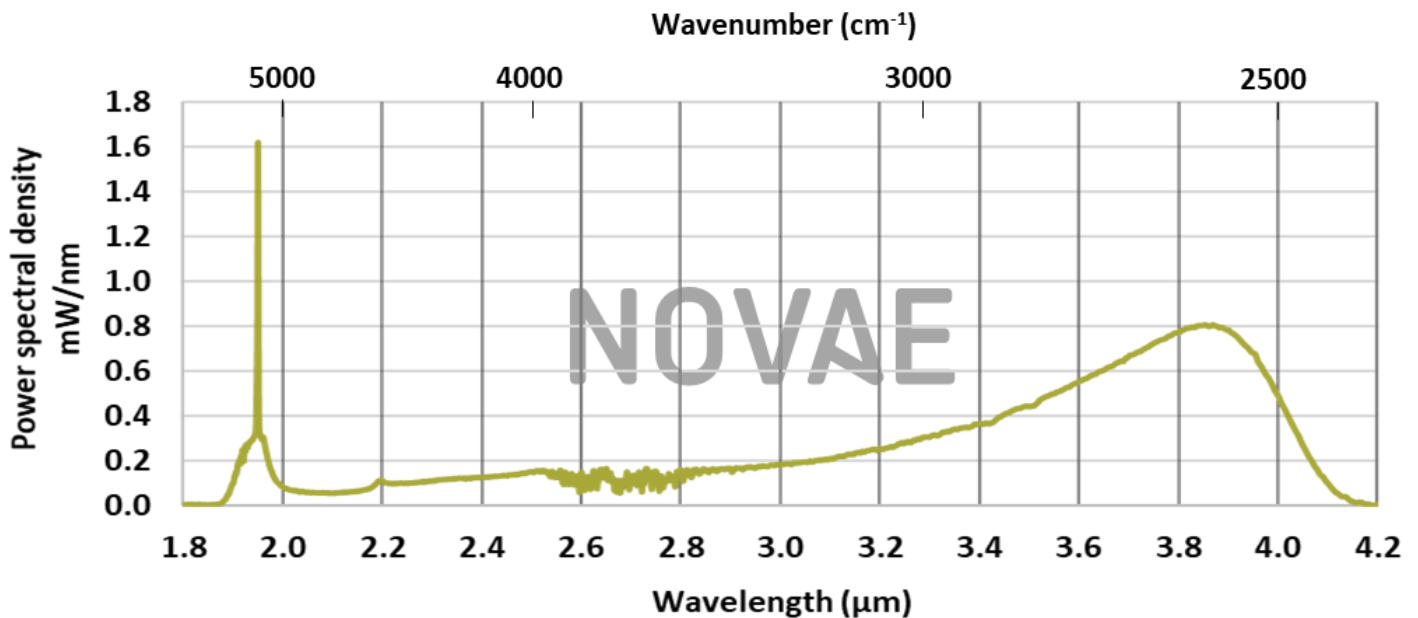
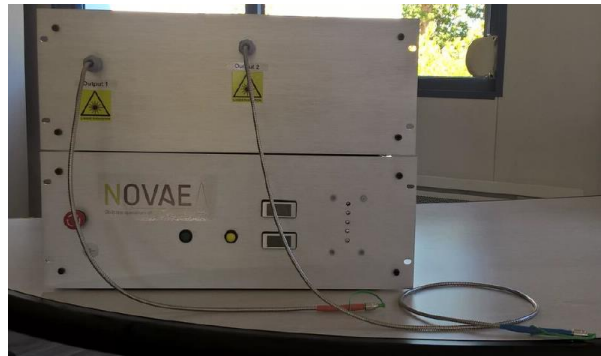


Coverage

Mid-IR broadband fiber laser



- Broadband from **1.9 μm up to 4.0 μm**
- High power > **0.9 W**
- **2 MHz** repetition rate
- **High brightness**
- Diffraction limited beam



KEY APPLICATIONS

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

Coverage is a turn-key supercontinuum source emitting a continuous spectrum from 1.9 μm up to 4.0 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 0.5 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.

Coverage

Mid-IR broadband fiber laser

Optical specifications

Operating wavelength	From 1.9 μm up to 4.0 μm (2500 cm^{-1} to 5260 cm^{-1})
Output power	> 0.9 W
Spectral power density	Up to 0.5 mW/nm
Repetition rate	2.4 MHz typical
Total power stability (RMS over 8 hours)	< 1%
Laser output	Collimated
Beam shape	Gaussian, single mode

Mechanical/Electrical specifications

Operation voltage	100 – 240 V VAC 50/60 Hz
System cooling	Active air cooling
Operating temperature	+20 °C to +30 °C
Dimensions (H×W×D) per unit	177×483×466 mm ³ (×2 units)
Weight	20 kg (electrical unit) / 20 kg (optical unit)

