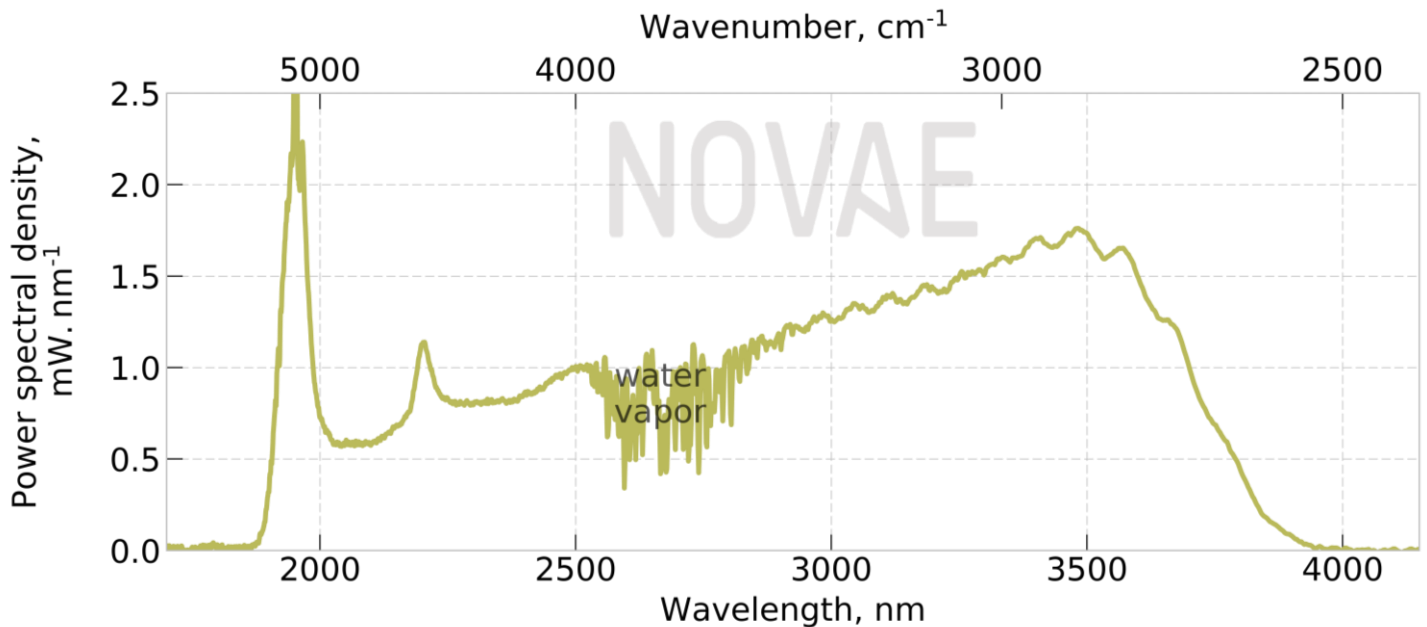


# Coverage

## Mid-IR broadband fiber laser



- Broadband from **1.9  $\mu\text{m}$  up to 3.9  $\mu\text{m}$**
- High power > **1.2 W**
- **4 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  $\mu\text{m}$  up to 3.9  $\mu\text{m}$ . 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  $\text{mW}/\text{nm}$  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 $\mu\text{m}$ up to 3.9 $\mu\text{m}$ (2560 $\text{cm}^{-1}$ to 5260 $\text{cm}^{-1}$ )
Output power	> 1.2 W
Spectral power density	Up to 1 mW/nm
Master repetition rate	4 MHz typical
Total power stability	$\pm 0.5 \%$
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 $^{\circ}\text{C}$ to +30 $^{\circ}\text{C}$
Dimensions (h×w×d)	177×483×466 $\text{mm}^3$ (×2)
Weight	20 kg (electrical) / 20 kg (optical)

