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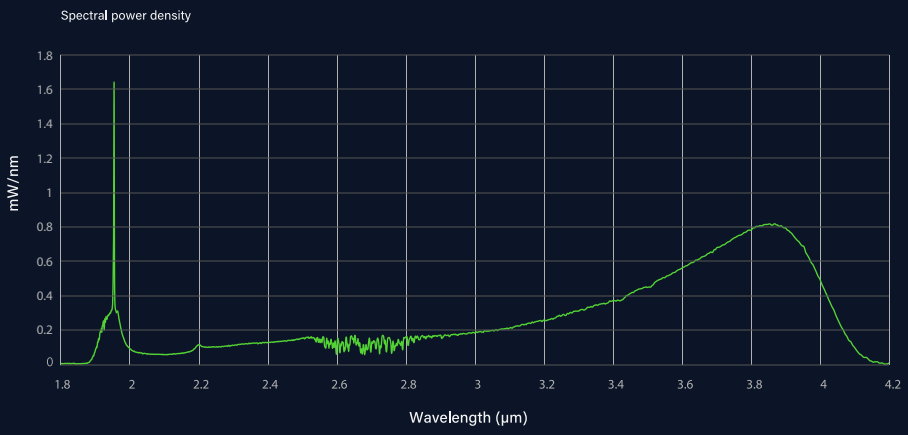
COVERAGE

Mid-IR broadband fiber laser

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 tabletop spectro-microscopy imaging of lipidic vesicles in liver sample.



Key Points

- **Ideal for microscopy experiments**
- Fully incoherent spectrum

- **Highest imaging resolution accessible**
- High brighteness beam

- **Drastic reduction of acquisition time**
- Application proven power & spectrum stability

- **Rock solid, alignment free**
- All fiber supercontinuum source

- **Suitable for time resolved experiments**
- High repetition rate (> 2 MHz)

COVERAGE

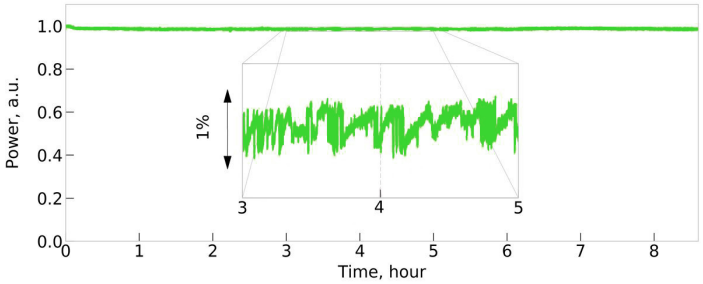
Mid-IR broadband fiber laser

Optical specifications

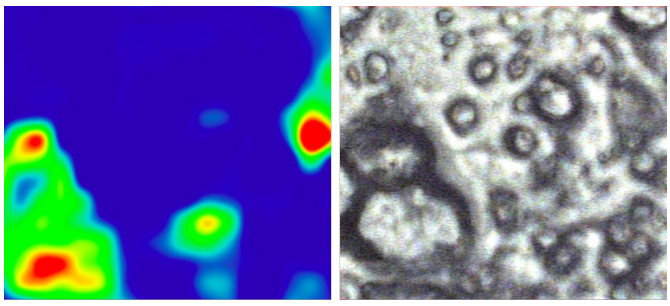
Operating wavelength	**From 1.9 µm up to 4.0 µm** (2500 cm-1 to 5260 cm-1)
Output power	**> 0.9 W**
Spectral power density	**Up to 0.5 mW/nm**
Repetition rate	**2.4 MHz typical**
Total power stability (RMS over 8 hours)	**< 1%**
Laser output	**Collimated**
Beam shape	**Gaussian, single mode**

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 mm3 (×2 units)**
Weight	**20 kg (electrical unit) / 20 kg (optical unit)**



Typical long term stability of a COVERAGE laser



High resolution (3x3 µm²) FTIR Micro-spectroscopy
Borondics et al. OPTICA 5-4, April 2018

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