

Coverage

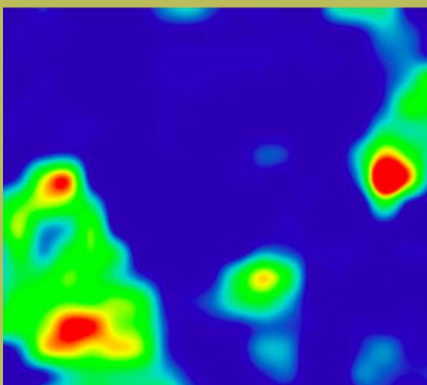
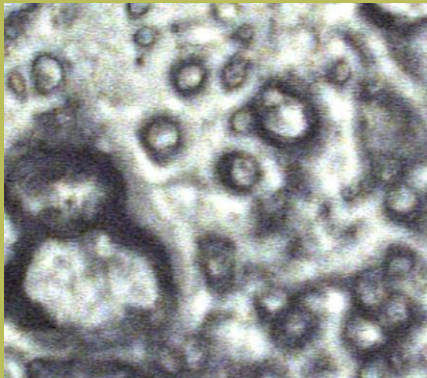
Mid-IR broadband fiber laser



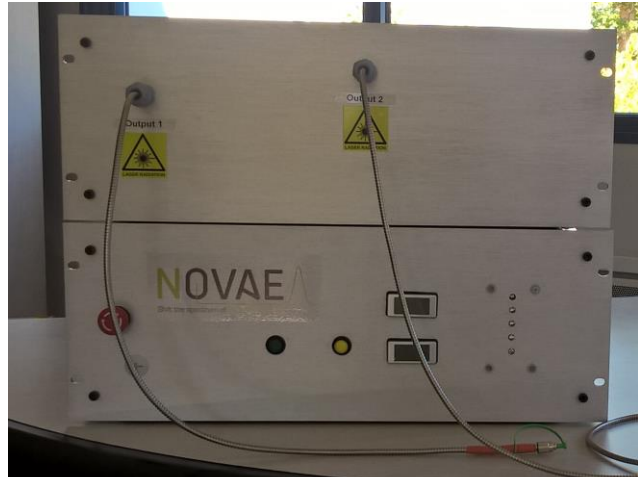
- 1.9 μm up to 3.9 μm
- High power > 1.5 W
- High repetition rate: 4 MHz
- High brightness
- Diffraction limited beam

KEY APPLICATIONS

- Mid-Infrared Spectroscopy
- Fiber optics characterization
- Trace gas analysis
- Optronic counter measures



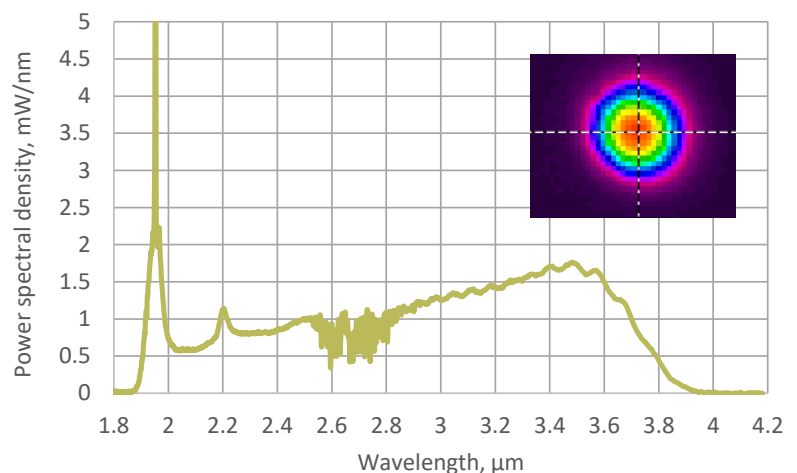
Spectro-microscopy image of a liver sample (CH_2 absorption band)



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, micro-spectroscopy or optronic counter measures.

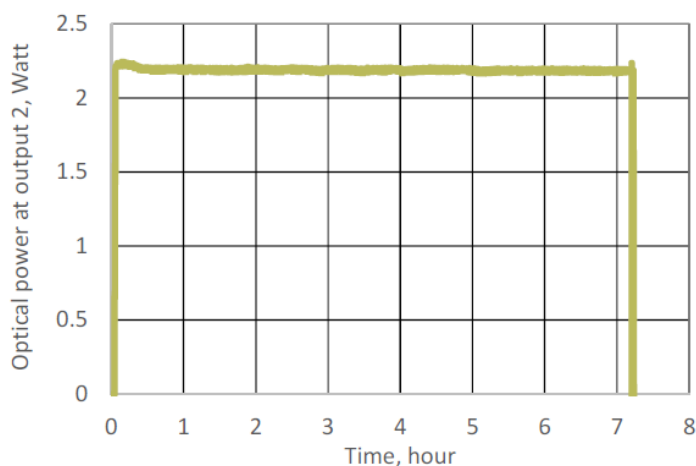
Based on a patented seed source, the all-fiber integrated laser delivers about 1mW/nm over the operation wavelength range.

In 2016, the laser has been used for a world first demonstration of a table-top micro-spectroscopy imaging of lipidic vesicles in liver sample. Novae's application team demonstrated that the laser complements the synchrotron with same resolution and same signal to noise ratio opening a new path to micro-spectroscopy imaging.



Coverage

Mid-IR broadband fiber laser



Optical

Operating wavelength	1.9 μm up to 3.9 μm
Output power	> 1.5W
Spectral power density	1 mW/nm
Master repetition rate	4.15 MHz \pm 5%
Total power stability	\pm 0.5 %
Beam output	Gaussian, single mode Collimated (d = 4 mm)

Mechanical/Electrical

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 mm ³ (×2)
Weight	20 kg (electrical) 20 kg (optical)

Novae SAS
ZA de bel Air
87700 Saint Martin le Vieux
FRANCE

Nicolas DUCROS
CEO
info@novae-laser.com
+33 658 091 289
Skype: nicolas_ducros

INVISIBLE LASER RADIATION
AVOID EXPOSURE to BEAM
Class 4 (IV) Laser product

