## COVERAGE MID-IR BROADBAND FIBER LASER

novne

## **COVERAGE** is a

turn-key supercontinuum source emitting a continuous spectrum from  $1.9 \ \mu m$  up to  $4.0 \ \mu m$ . 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.



## FEATURES

Supercontinuum lasers

- SCIENTIFIC

– NIR – MID IR

Ideal for microspectroscopy experiments Fully incoherent spectrum Highest imaging resolution accessible (3µm x 3µm) High brighteness beam Reduction of the acquisition time Application proven power & spectrum stability Rock solid system – alignment free

All fiber supercontinuum source

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





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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 spectromicroscopy imaging of lipidic vesicles in liver sample.

| OPTICAL SPECIFICATIONS                      | COVERAGE   |
|---|--|
| Operating wavelength                        | From 1.9 µm up to 4.0 µm<br>(2500 cm-1 to 5260 cm-1) |
| Output power                                | > 0.6 W  |
| Spectral power density                      | Up to 0.5 mW/nm                                      |
| Repetition rate                             | From 250 kHz up to 2.4 MHz                           |
| Total power stability<br>(RMS over 8 hours) | < 1%   |
| Laser output                                | Collimated   |
| Beam shape                                  | Gaussian, single mode                                |
| OTHER 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                 | 177x483x466 mm³ (×2 units)                           |
| Weight                                      | 20 kg (electrical unit) / 20 kg (optical unit)       |



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LE VERRE FLUORE









CAUTION – VISIBLE AND INVISIBLE LASER RADIATION AVOID EYE AND SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION CLASS 4 LASER PRODUCT





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All specifications are subject to change without notice - JANUARY 2023 EDITION