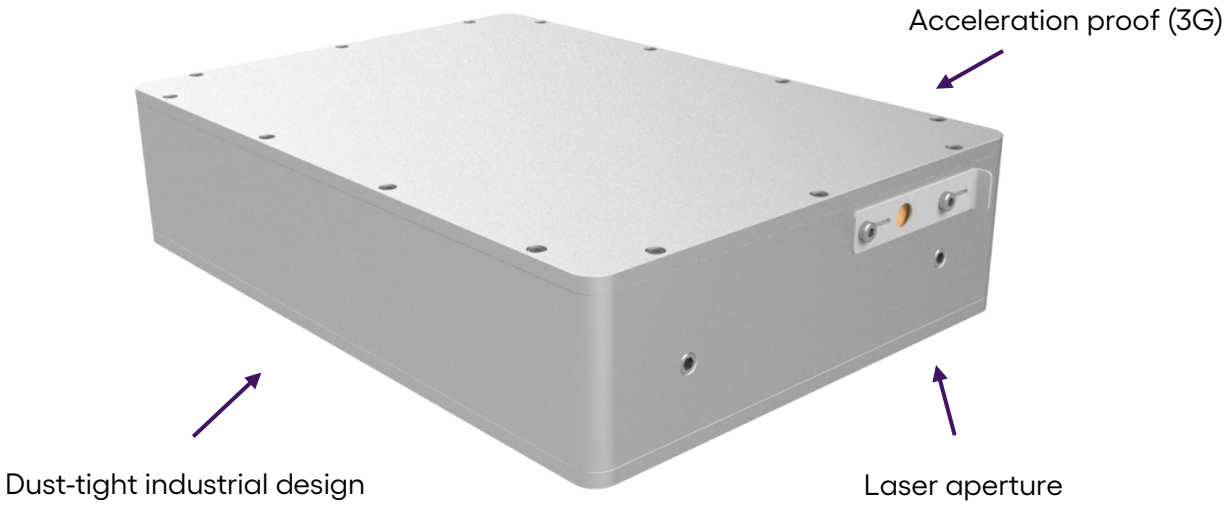
RayVen Laser GmbH
Universitätsstraße 150
44801 Bochum, Germany
rayvenlaser.com

RayVen-S

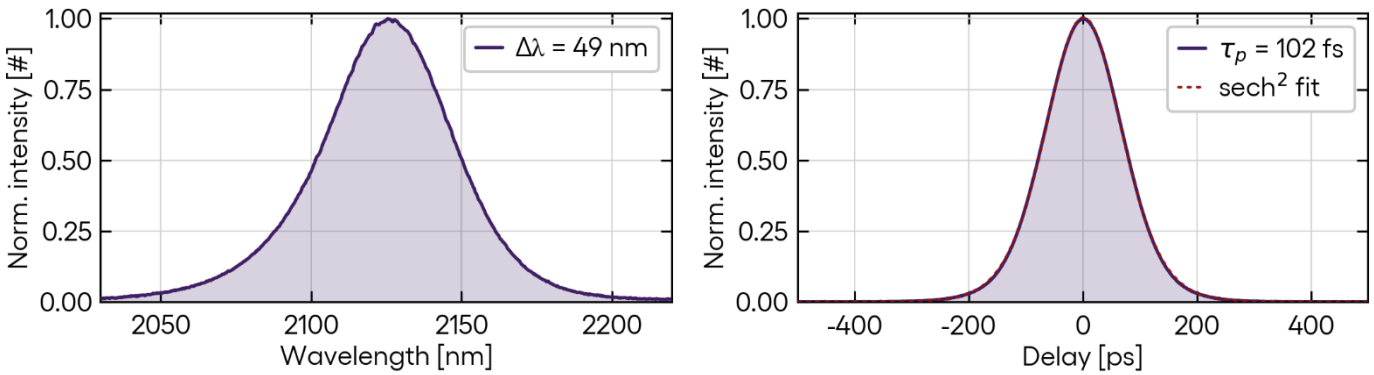
2.1 µm ultrafast oscillator



Specifications

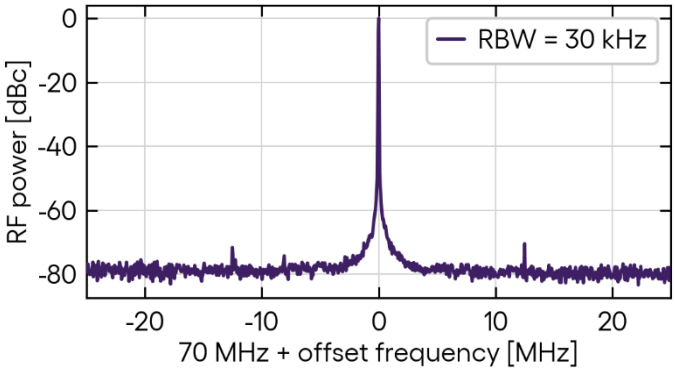
- Repetition rate: 70 MHz
- Average power: 1 W
- Pulse duration: 100 fs
- Wavelength: 2120 nm / 40 nm (-3dB)
- Beam quality: TEM_{00}, $M^2 < 1.1$
- Beam height: 55 mm
- Size (laser head): 297 x 210 x 84 mm^3
- Misalignment-free
- Water-cooled

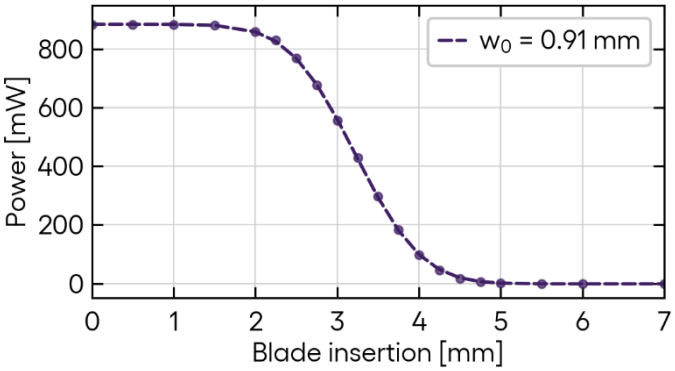
Pulse duration and optical spectrum



- Emission of a clean soliton spectrum and a transform-limited $sech^2$-shaped pulse

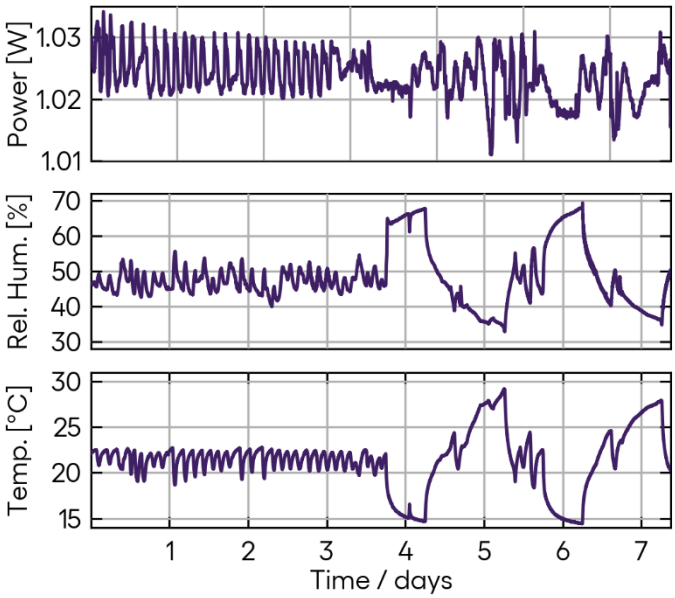
Radio-frequency spectrum and beam shape





- Low-noise operation, detection-limited
- Knife-edge measurement, ideal Gaussian

Environmental stability

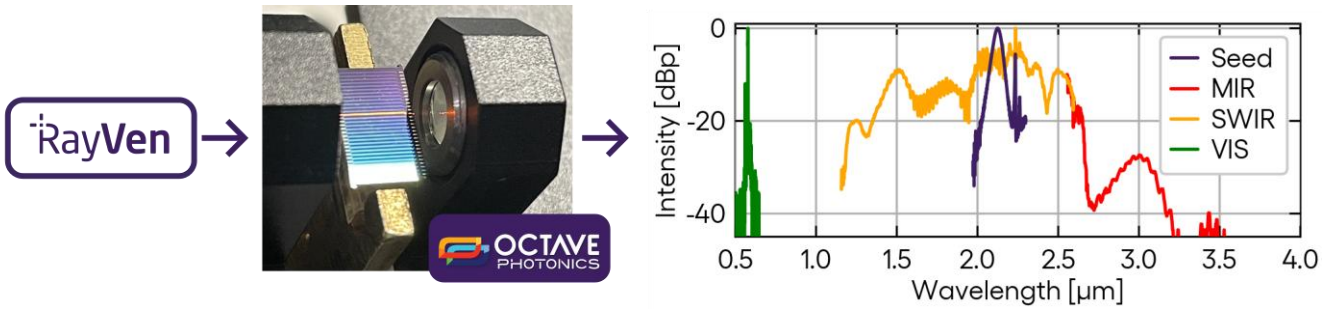


Power varies less than ± 1% for
- 1 week of continuous operation
- 15 - 28°C ambient temperature
- 35 - 70% relative humidity

The laser passed a 3 G acceleration test without change of specification.

Our robust engineering guarantees long product life and uninterrupted operation.

Application – 1.4 octave supercontinuum in Ta_2O_5 waveguide



Contacts

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