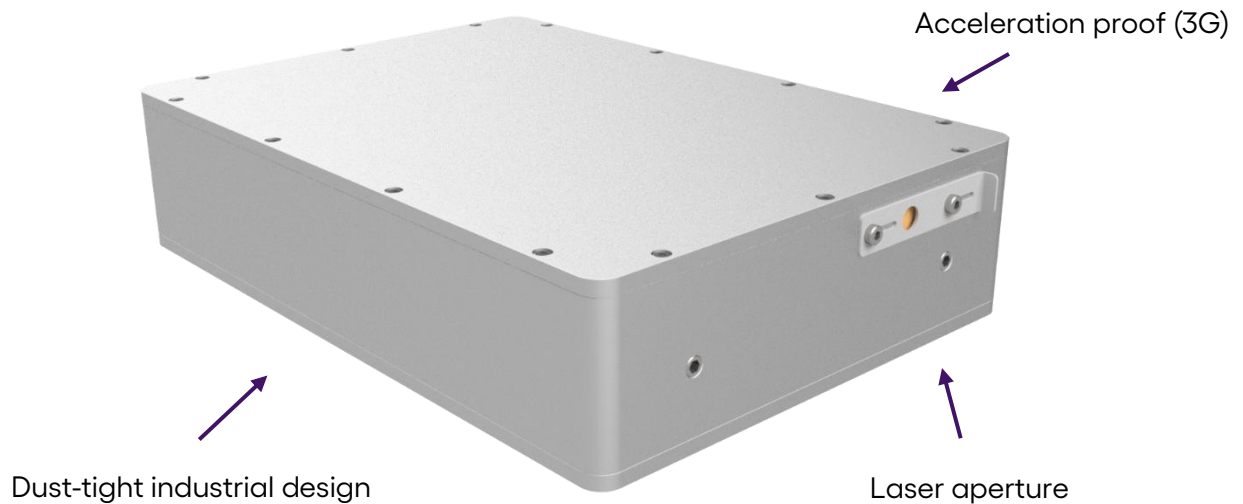


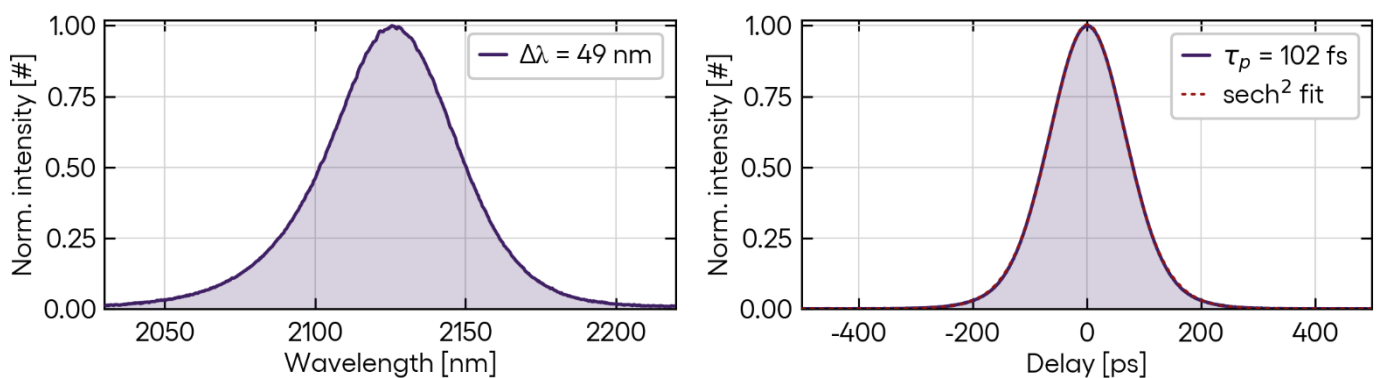
RayVen-S 2.1 μm ultrafast oscillator



Specifications

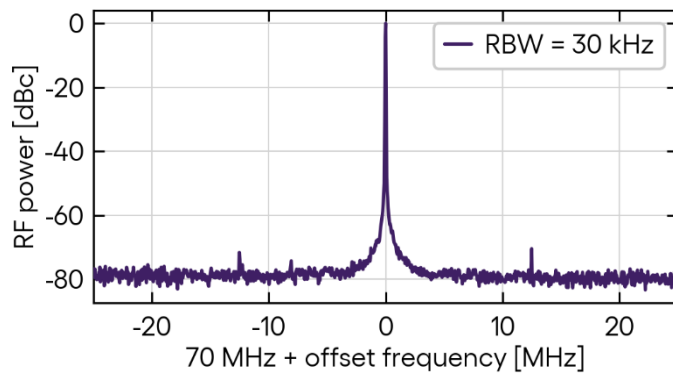
- Repetition rate: 70 MHz
- Average power: 1 W
- Pulse duration: 100 fs
- Wavelength: 2120 nm / 40 nm (-3dB)
- Beam quality: TEM₀₀, M² < 1.1
- Beam height: 55 mm
- Size (laser head): 297 x 210 x 84 mm³
- Misalignment-free
- Water-cooled

Pulse duration and optical spectrum

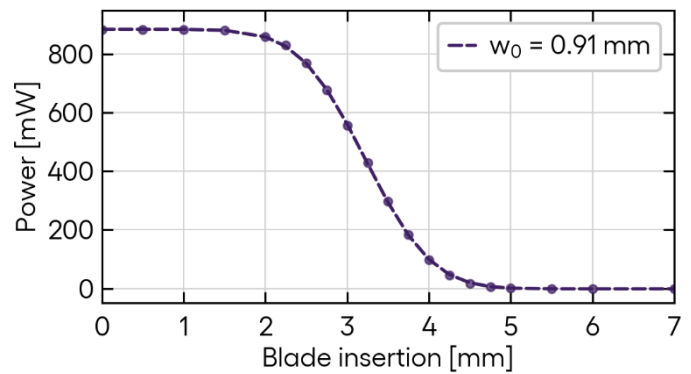


- Emission of a clean soliton spectrum and a transform-limited sech^2 -shaped pulse

Radio-frequency spectrum and beam shape

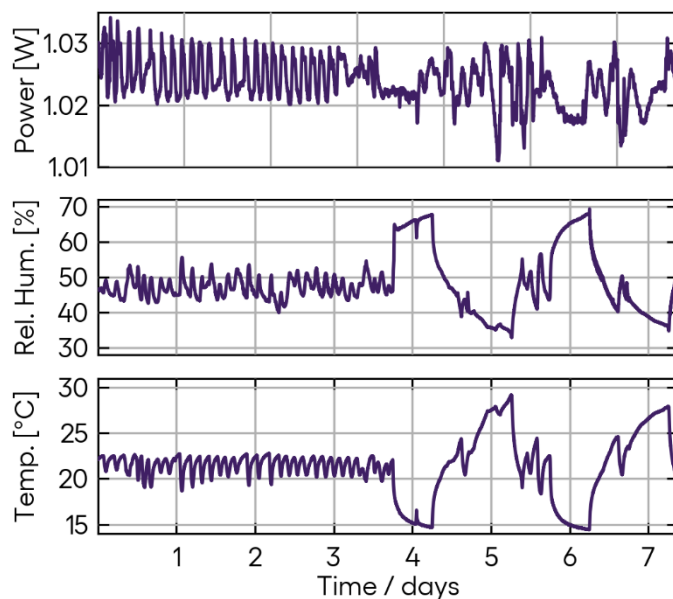


- Low-noise operation, detection-limited



- Knife-edge measurement, ideal Gaussian

Environmental stability

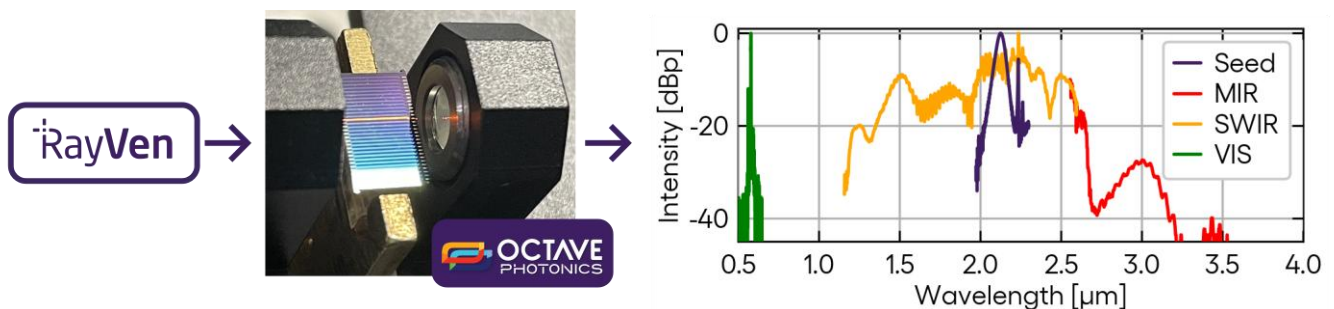


- Power varies less than $\pm 1\%$ for
- 1 week of continuous operation
 - 15 - 28°C ambient temperature
 - 35 - 70% relative humidity

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 Ta₂O₅ waveguide



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