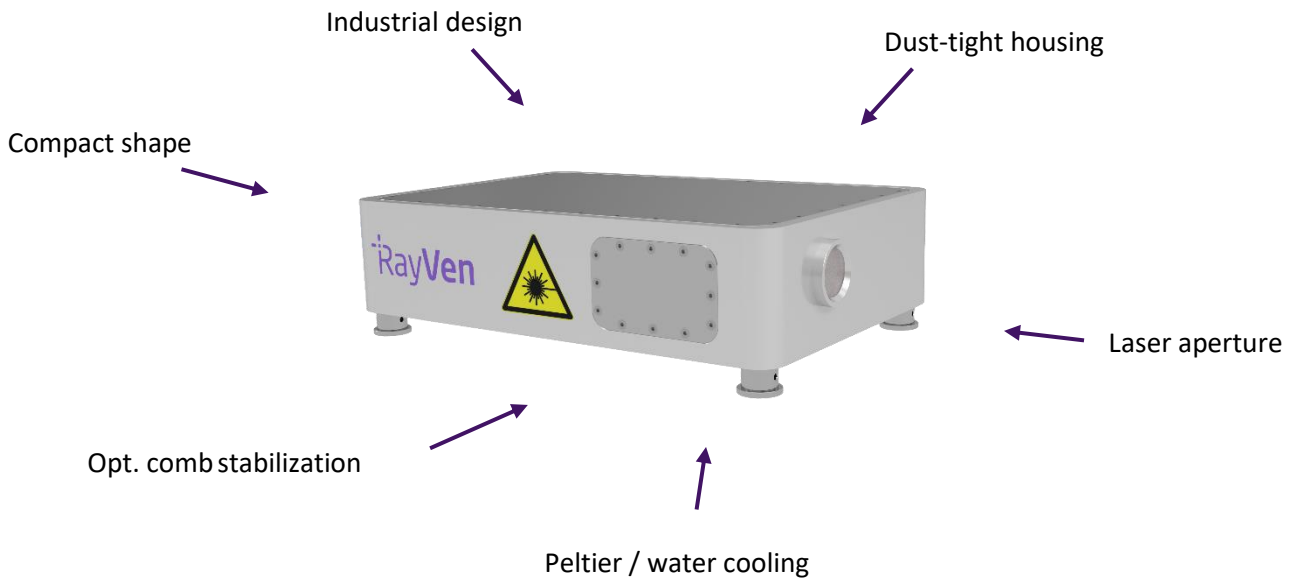


2.1 μm ultrafast oscillator

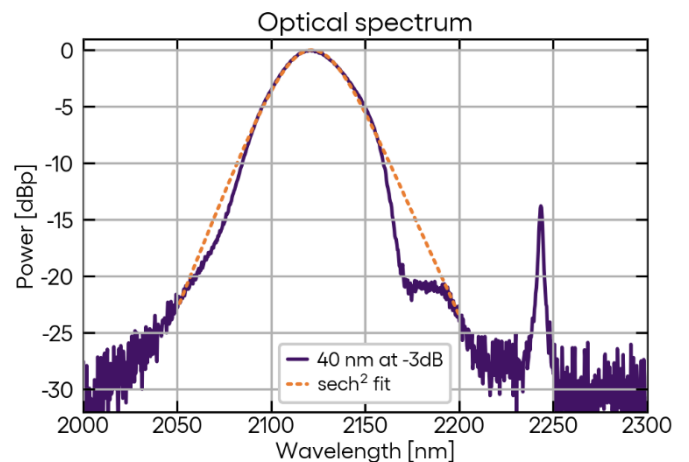
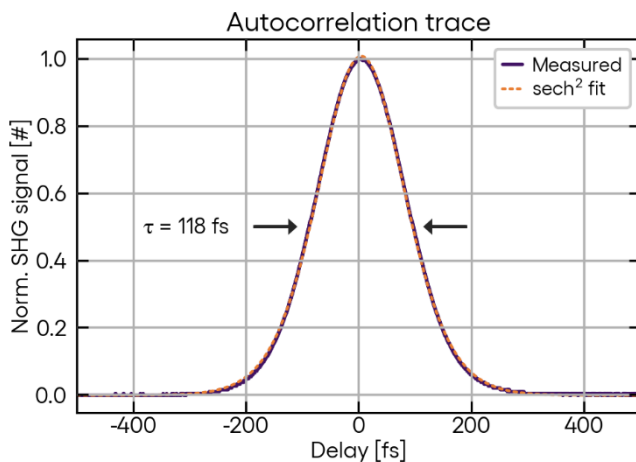
Laser head



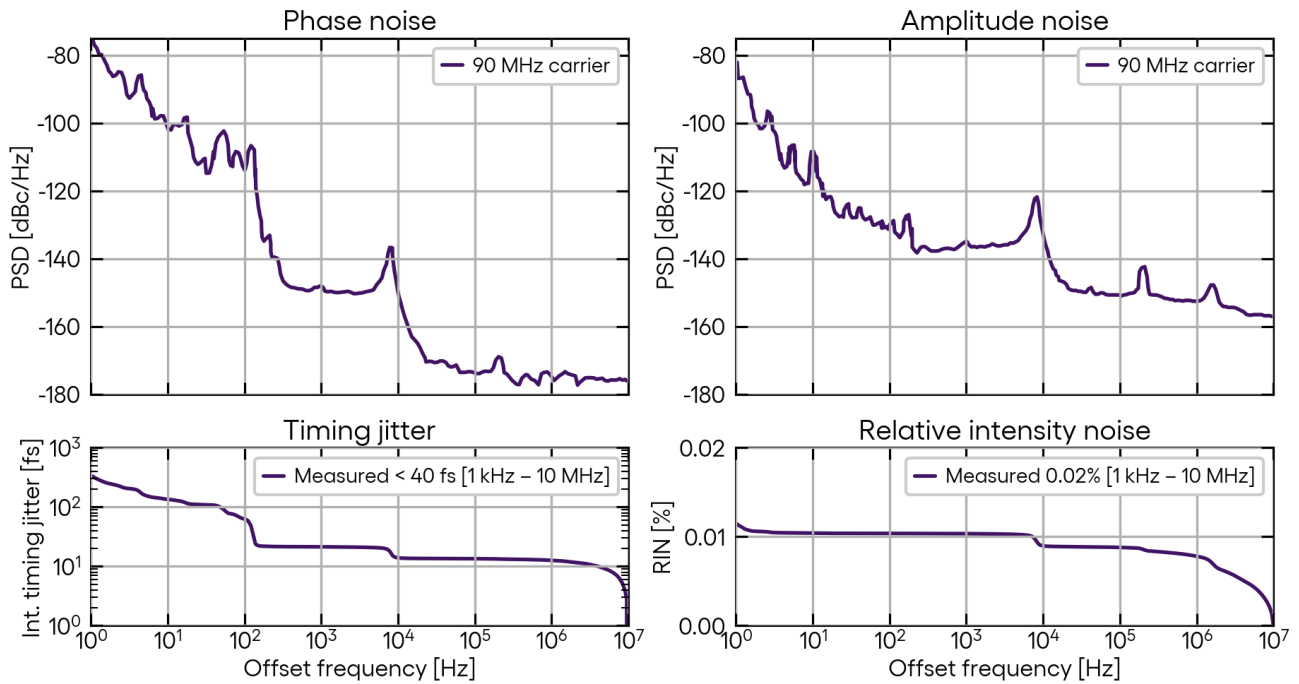
Key specifications

- Repetition rate: 10 MHz – 1 GHz
- Average power: 1 W
- Pulse duration: 120 fs
- Wavelength: 2120 nm / 40 nm
- Beam quality: TEM₀₀, M² < 1.1
- Entirely alignment-free
- Long-term stable, low-noise operation
- Size (laser head): 297 x 210 x 84 mm³
- Electrical power consumption: < 50 W

Pulse characterization



Noise characterization (Free running)



Add-ons

Optical frequency comb

- Repetition rate stabilization
- Carrier-envelope offset stabilization

Wavelength shift, post-compression

- Raman shift up to 4 μm
- Supercontinuum 2-4 μm
- Pulse compression < 50 fs

Applications

- Amplifier seeding (research, ultrafast micro machining)
- Space-ground communication (clock transfer, high atmospheric transmission)
- Nonlinear frequency conversion (NIR, MIR, SC)
- Molecular spectroscopy

Get in touch !

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RayVen Lasers – 2.1 μm ultrafast lasers

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