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albatross

The first single-cycle infrared light source

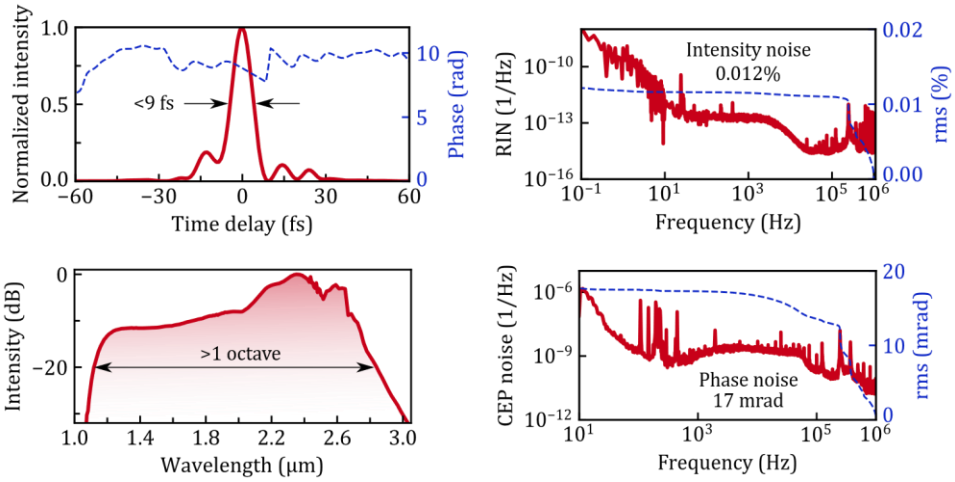
// **Single-cycle CEP-stable pulses at 2 µm**
with octave-spanning spectral bandwidth & ultra-low laser noise

// **Outstanding pulse-to-pulse amplitude and phase stability**
delivered as a compact one-box solution

Key parameters

pulse duration	< 10 fs
output power	> 250 mW
spectral coverage (-20 dB)	1.2-2.8 µm
repetition rate	25 MHz
pulse energy	> 10 nJ
integrated RIN (10 Hz – 1 MHz)	< 0.06%
CEP noise (10 Hz – 1 MHz)	< 30 mrad

Performance example



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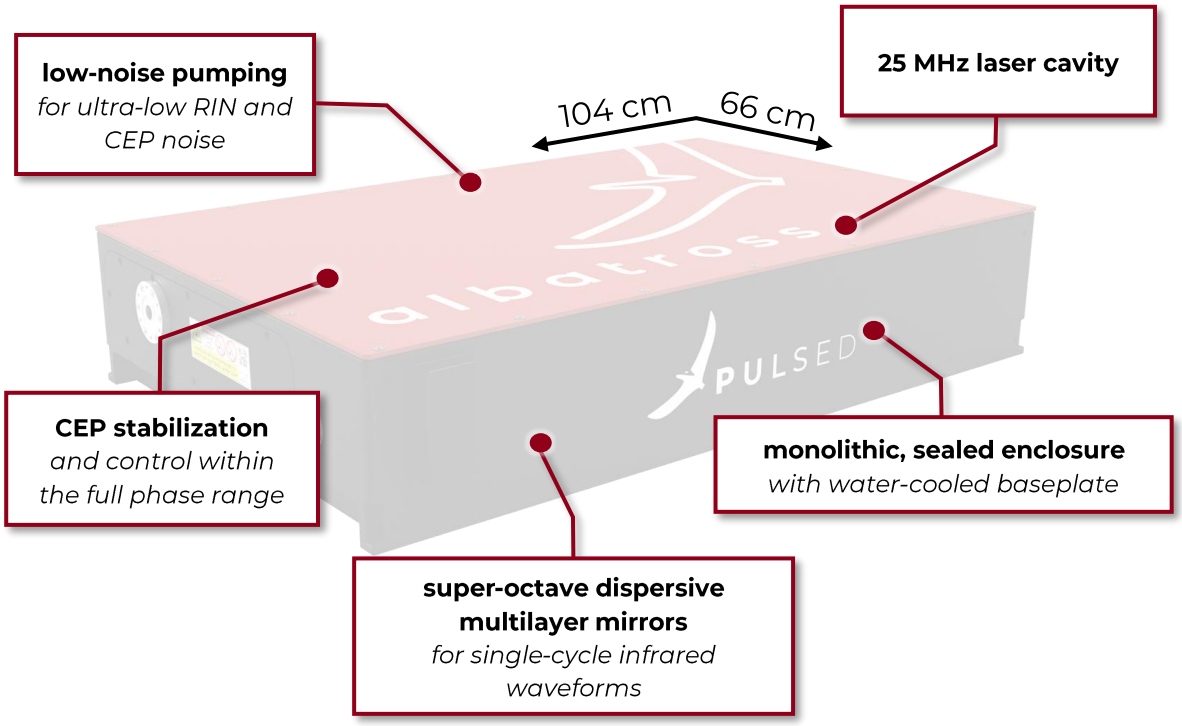

albatross is the first source of single-cycle light at the repetition rate of a laser oscillator. Efficiently generating near- to mid-infrared waveforms over more than three octaves is a striking demonstration of its potential (Nature Photonics article: https://doi.org/10.1038/s41566-022-01001-2). Combined with ultra-low noise of field amplitude and CEP, laser pulses are generated with high waveform fidelity. This makes **albatross** the ideal choice for exploring infrared opto-electronics at sub-cycle timescales and for spectroscopic measurements with unprecedented sensitivity and time resolution.

Interested? Contact us

info@pulsed.eu
www.pulsed.eu

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