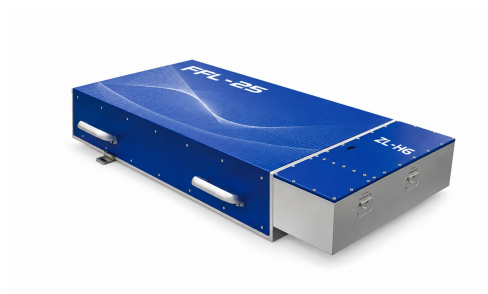


FFL-25

Femtosecond Fibre-Solid Laser Platform

An ultrafast platform combining a fibre seed with a solid-state amplifier. The FFL-25 configuration provides adjustable pulse duration, flexible repetition rate and an optional second-harmonic output for spectroscopy and nonlinear experiments.

Best suited to: Ultrafast excitation, pump-probe spectroscopy and nonlinear optical measurements.



Configuration

Specify pulse duration, repetition rate and energy at the experiment. Fundamental and second-harmonic performance apply to different output configurations.

Specifications

Published parameters	
Pulse duration	600 fs–10 ps
Repetition rate	Single shot–1 MHz
Beam quality	$M^2 < 1.3$
Beam divergence	< 1 mrad
Pointing stability	< 25 μ rad
Power stability	$< 0.5\%$ RMS
Polarisation extinction	100:1

Published FFL-25 outputs

These are the FFL-25 technical-table values. Larger pulse-energy figures in general family descriptions are not assigned to this configuration.

Output	Wavelength	Average power	Pulse energy at 100 kHz
Fundamental	1030 $\pm$ 5 nm	> 20 W	> 200 μ J
Second harmonic	515 $\pm$ 3 nm	> 2.5 W	> 25 μ J

Measurement features

- Pulse duration adjustable from 600 fs to 10 ps.
- Single-shot operation through 1 MHz; POD and burst options.
- Free-space output with harmonic-generation options.

Full configuration: www.precisometer.com/spectroscopy/light-sources/ffl-25