

ZL-OPA-HP / HE

Optical Parametric Amplifiers

Wavelength-conversion platforms for a suitable Yb-based ultrafast pump laser. The HP and HE versions provide complementary signal and idler tuning intervals, with optional shorter-wavelength conversion stages.

Best suited to: Tunable ultrafast excitation when the pump laser wavelength alone does not cover the experiment.



Configuration

Specify the pump pulse energy, duration and repetition rate, then the required output wavelength. The amplifier requires a compatible external pump laser.

Specifications

Published parameters	
Pump requirement	>200 μ J at 100 kHz
Published stability at 750 nm	<1% over 8 h
Output polarisation	Linear
Pump source	Compatible Yb fibre or solid-state ultrafast laser

Parametric amplifier comparison

Optional extension stages: HP 325–515 and 515–650 nm; HE 325–450 and 600–650 nm. Broad family-level extension claims are not base-unit tuning specifications.

Model	Signal / idler tuning	Pulse duration	Energy at 750 nm
ZL-OPA-HP	630–1030 / 1030–2500 nm	<500 fs	>15 μ J
ZL-OPA-HE	650–900 / 1200–2600 nm	<100 fs	>10 μ J

Measurement features

- Linearly polarised signal and idler outputs.
- Optional wavelength-extension stages selected with the base amplifier.
- Published output energy measured at 750 nm.

Full configuration: www.precisometer.com/spectroscopy/light-sources/zl-opa