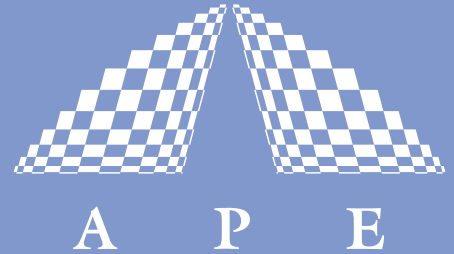


NEW!



LX SPIDER

Phase Resolved Ultrafast Pulse Measurement



The new **LX SPIDER** is a compact and robust instrument for complete spectral and temporal characterization of femtosecond laser pulses.

Based on a patented technology using a single crystal to up-convert the two test pulse replicas and to introduce the spectral shear without the need for an additional chirped pulse, **LX SPIDER** measures the spectral amplitude and phase using the SPIDER principle. From the spectral quantities the temporal amplitude and phase are derived in real-time.

Due to the drastically simplified set-up **LX SPIDER** is smaller than a shoe box, while easy to align and operate. The automatic calibration feature reduces the scan of the calibration trace to a click on a button with time consumption of a few seconds. Offering real-time operation **LX SPIDER** is the ideal tool for adjustment of complex ultrafast arrangements like amplifiers and pulse compressors.

Compact and robust design

Easy alignment

Real-time operation

Fully automatic

Single shot capability

Ultrafast Pulse Diagnostics

Wavelength Conversion

Pulse Management

Acousto-optics

Your Partner in Ultrafast

LX SPIDER

The system comes ready to use with required software.

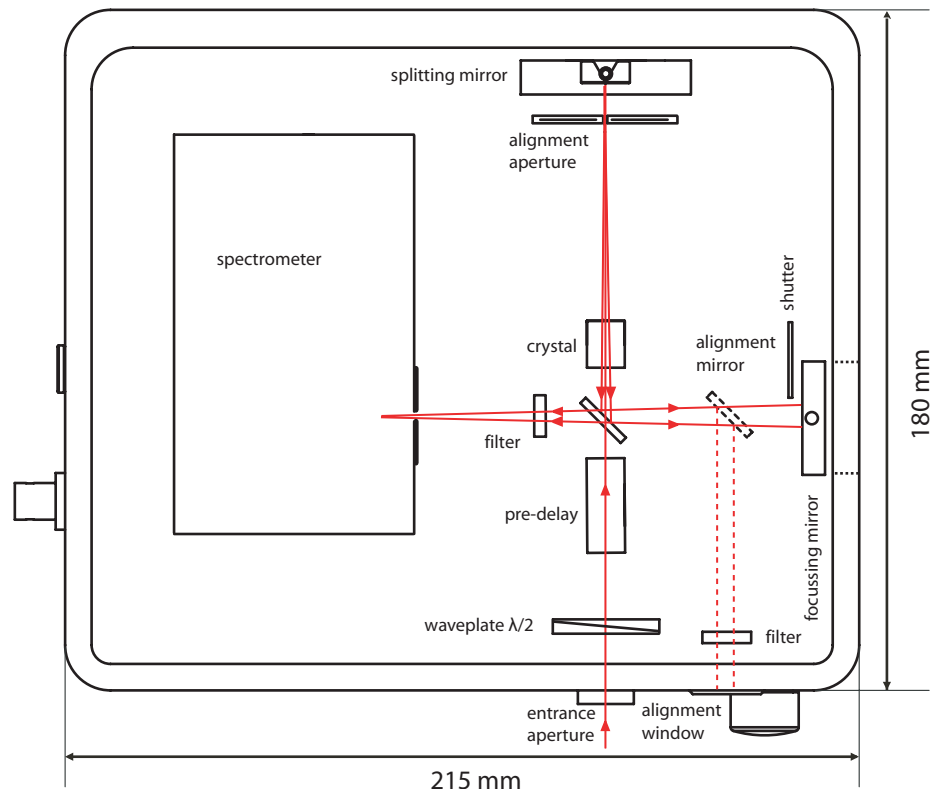
SPECIFICATIONS

Wavelength range	750 ... 900 nm	
	Optics set 1	Optics set 2
Pulse bandwidth	13 nm - 40 nm	5 nm - 15 nm
Pulse duration ¹⁾	80fs - 25 fs ²⁾	200 fs - 70 fs
	(with reduced accuracy down to 16 fs / 65 nm bandwidth) ³⁾	
Maximum pulse duration	150 fs	300 fs
Minimum required input power	10 mW @ 80 MHz, 80 fs	
Input polarisation	linear	
Input beam height	70 mm	

DIMENSIONS

180 mm x 215 mm x 100 mm

- 1) Transform limited duration of Gaussian pulses
- 2) theoretical reconstruction error < 1%
- 3) theoretical reconstruction error < 10%



Distributors
see APE website www.ape-berlin.com

APE GmbH Plauener Straße 163-165 Haus N / 13053 Berlin Germany
Phone +49.30.986.01130 Fax +49.30.986.97885 / Web www.ape-berlin.com Email ape@ape-berlin.de

APE follows a policy of continued product improvement. Therefore, specifications are subject to change without notice.