

A P E

LX SPIDER

Phase Resolved Ultrafast Pulse Measurement



The **LX Spider** is a compact and robust instrument for complete spectral and temporal characterization of femtosecond laser pulses in the range of approximately 25 ... 200 fs (with two exchangeable optics sets).

The **LX Spider** measures the spectral amplitude and phase using the SPIDER (Spectral Phase Interferometry for Direct Electric-field Reconstruction) principle. It is based on a patented technology, using a single crystal to up-convert the two test pulse replica and to introduce the spectral shear without the need for an additional chirped pulse. From the spectral quantities the temporal amplitude and phase are calculated in real-time.

Due to the drastically simplified setup, the **LX Spider** is very compact, easy to align and use. With its automation, calibration is done via simply a mouse click in a matter of seconds. Offering real-time operation, the automated **LX Spider** is the ideal tool for optimization of complex ultrafast setups like amplifiers and pulse compressors.

The instrument comes ready to use including all required software.

Compact and robust design

Easy alignment

Real-time operation

Fully automated

Single shot capability

Ultrafast Pulse Diagnostics

Wavelength Conversion

Pulse Management

Acousto-optics

Your Partner in Ultrafast

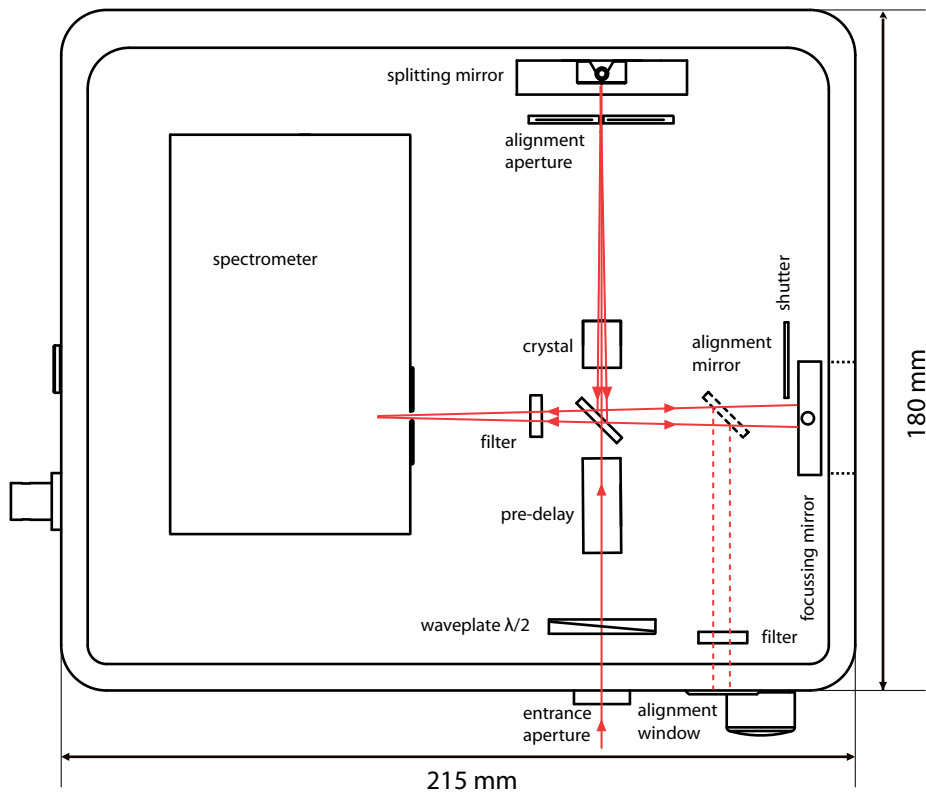
LX SPIDER

SPECIFICATIONS

Wavelength range	750 ... 900 nm	
	Optics set 1	Optics set 2
Pulse width (for transform limited pulses)	80 ... 25 fs	200 ... 70 fs
Pulse bandwidth	13 ... 40 nm	5 ... 15 nm
Pulse width (for non-transform limited pulses)	< 150 fs	< 300 fs
Input polarisation	Linear / horizontal	
Input power	> 10 mW @ 80 MHz, 80 fs	

DIMENSIONS

180 mm x 215 mm x 100 mm



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 +49.30.986.011333 / 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.

**PHOTO
TECHNICA** PHOTOTECHNICA CORP.

TEL:048-871-0067 FAX:048-871-0068,
e-mail: voc@phototechnica.co.jp
<http://www.phototechnica.co.jp>