

# PHAZZLER™

## PH-S-750-850 Specifications

### DUAL MODE FEMTOSECOND PULSE SHAPING AND PULSE MEASUREMENT SYSTEM

#### Features

- Includes FROG, single shot SPIDER, and Autocorrelator
- Includes DAZZLER ultrafast pulse shaper model HR-800
- In-line, single beam geometry
- no re-alignment when switching between measurement techniques
- Fully computer controlled

#### Applications:

- Femtosecond pulse characterization, using adapted measurement method to each specific pulse shape: SPIDER for transform Limited pulses, FROG for complex pulse shapes
- Femtosecond pulse shaping with phase **and** amplitude control
- Adapted to Ti:Sa oscillators and amplifiers

### PHAZZLER PH-750-850 SPECIFICATIONS

Laser Repetition Frequency (Frep)	Frep<30kHz	30kHz <Frep< 300kHz	Frep>300 kHz
Pulse measurement range (FWHM)	20 fsec to 250 fsec	50 fsec to 250 fsec	50 fsec to 250 fsec
Wavelength range*	750-850 nm	720-930nm	720-930 nm
Minimum energy per pulse required	1µJ (5µJ in single shot SPIDER mode)	100 nJ	2 nJ
Measurement methods available	FROG, Single shot SPIDER, Autocorrelator	FROG, Single shot SPIDER, Autocorrelator	FROG, Single shot SPIDER, Autocorrelator
Input polarization	vertical	vertical	vertical
Maximum input energy	30 µJ	30 µJ	30 µJ
Maximum input diameter	2.5 mm	2.5 mm	2.5 mm
*: These values correspond to the central wavelength of a transform limited pulse			

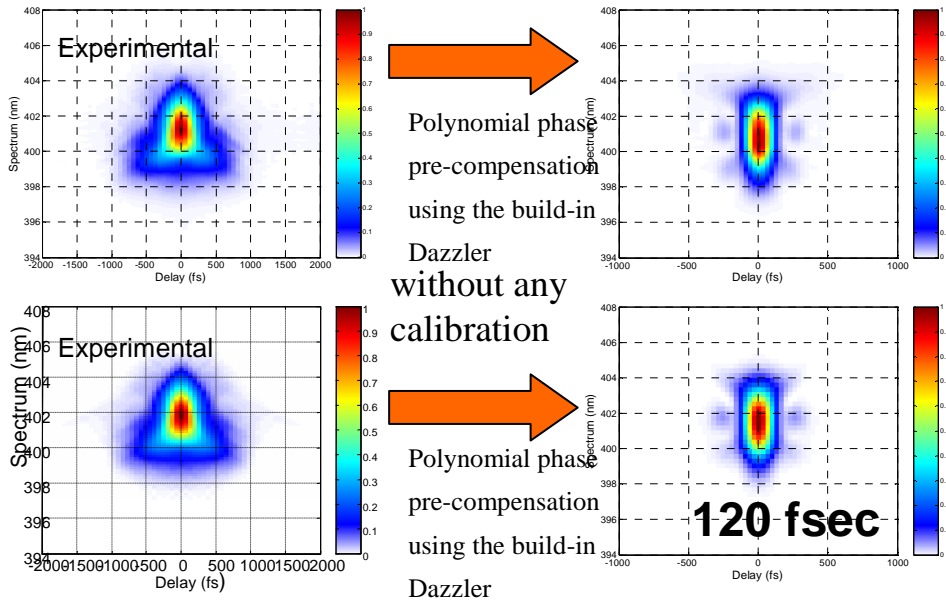
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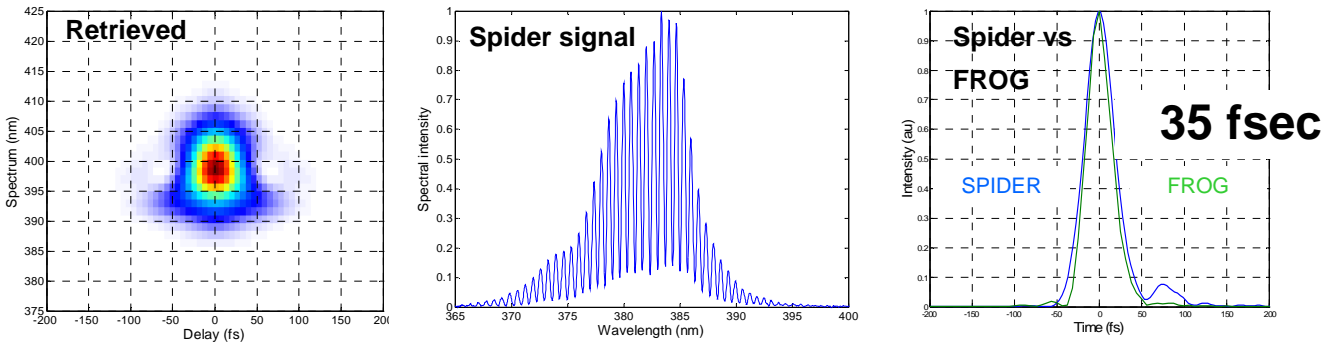
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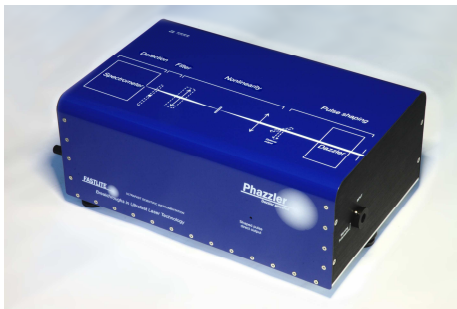
### FROG measurements 1 kHz, 805nm, 5 μJ per pulse CPA laser system



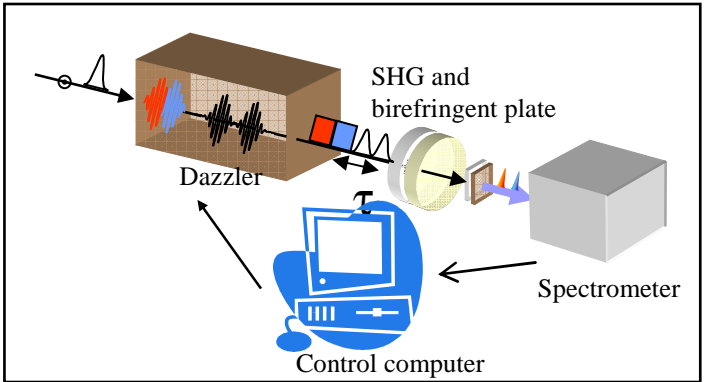
### FROG and SPIDER measurements 790nm, 1kHz, 1mJ per pulse CPA laser system



#### PHAZZLER



#### SPIDER SET UP



Length (cm)	Width (cm)	Beam height (cm)	Height (cm)
478	262	117	200

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