

PHAZZLER™

PH-1000-1100 Specifications

DUAL MODE FEMTOSECOND PULSE SHAPING AND PULSE MEASUREMENT SYSTEM

Features

- Includes FROG, SPIDER, and Autocorrelator
- Includes DAZZLER ultrafast pulse shaper model HR-1053
- 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,
- Femtosecond pulse shaping with phase **and** amplitude control
- Adapted to femtosecond solid state or fiber-based oscillators and amplifiers

PHAZZLER PH-1000-1100 SPECIFICATIONS

Laser Repetition Frequency (Frep)	Frep<30kHz	30kHz <Frep< 300kHz	Frep>300 kHz
Pulse measurement range	20 fsec to 600 fsec	50 fsec to 600 fsec	50 fsec to 600 fsec
Wavelength range*	1000-1100 nm	970-1120nm	970-1120nm
Minimum energy per pulse required	1µJ	100 nJ	2 nJ
Measurement methods available	FROG, SPIDER, Autocorrelator,	FROG, SPIDER, Autocorrelator,	FROG, 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

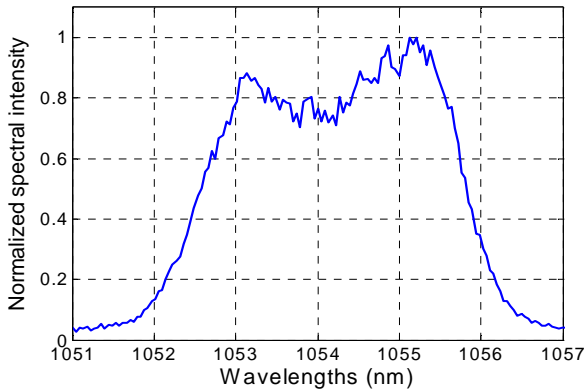


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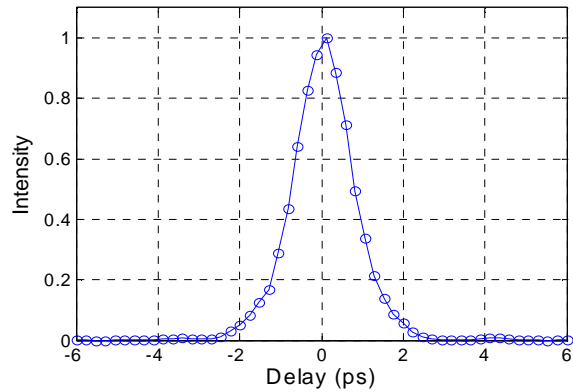
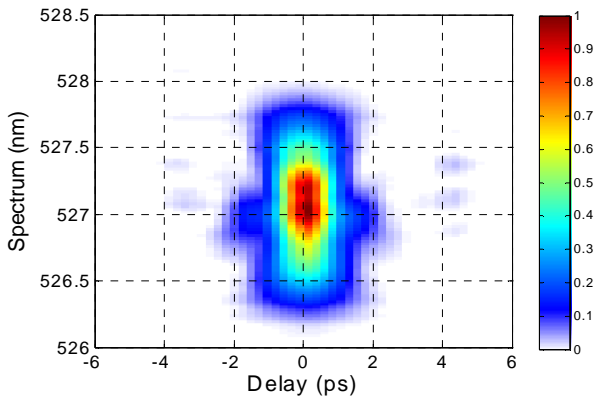
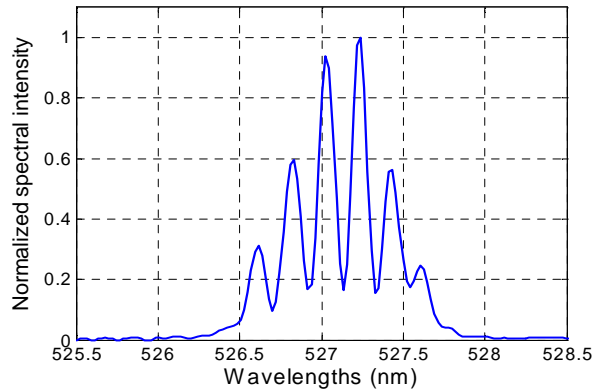
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Narrowband SPIDER/FROG (High-resolution setup)
1054nm, 3.5nm, 10μJ, 1Hz

Spectrum
3.4nm



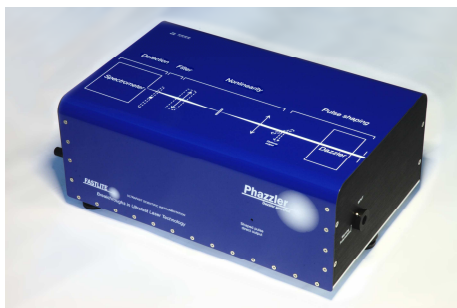
Experimental
SPIDER



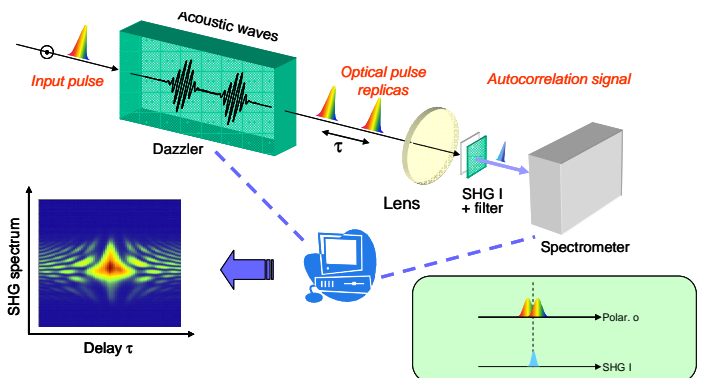
Experimental FROG

Autocorrelation

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FROG SET UP



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

Product Specifications are subject to change at any time without prior notice. © FASTLITE 2007. All rights reserved.