

# FASTLITE

ULTRAFAST SCIENTIFIC INSTRUMENTATION

## WIZZLER 700-900

### Femtosecond pulse measurement device



Self-Referenced Spectral Interferometry

Single shot, single beam

Extreme ease of use

Direct retrieval algorithm

Real time operation

Data logging

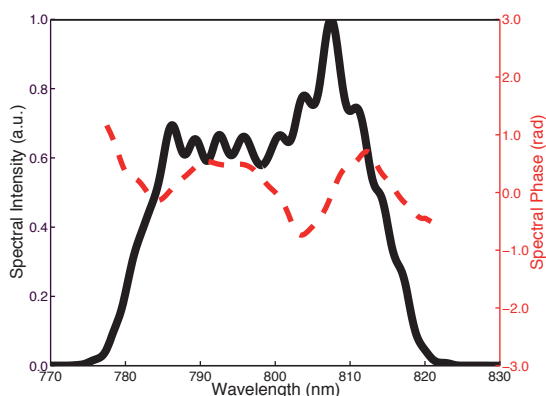
The **Wizzler** is a new tool for ultrashort pulse characterization based on Self-Referenced Spectral Interferometry. In this new technique invented and patented by FASTLITE, a reference pulse with a flat spectral phase is collinearly generated from the input pulse by cross-polarized wave generation (XPW). A non-integrative processing of the spectral interference pattern resulting from the combination of the input pulse and the reference pulse allows direct retrieval of the spectral phase and intensity.

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# WIZZLER 700-900

## Femtosecond pulse measurement device



30nm, 40fs CPA amplifier measurement

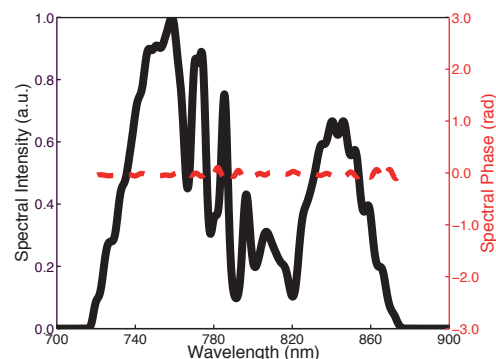
### Specifications:

- Central wavelength range 700-900nm
- Pulse bandwidth range 15-50nm  
*FWHM values for FTL Gaussian pulses*
- Pulse duration 20-80fs  
*FWHM values for FTL Gaussian pulses*
- Temporal measurement range  $\pm 350$ fs
- Temporal measurement dynamic 40dB

For shorter pulses or other wavelengths, please contact us.

### Added features for Dazzler users:

- Automated pulse compression via feedback loop to the Dazzler
- Minimum pulse duration measurement reduced to  $< 15$ fs
- Automated second order scan (Dazscope)



12fs Hollow-core fiber output pulse, after AOPDF

### Requirements:

#### Input pulse:

- Polarization linear
- Beam diameter 3mm
- Beam Height 80-160mm
- Min/Max energy 2-20 $\mu$ J

#### PC:

- Windows XP, 7
- USB 2.0 port

#### Dimensions:

260x110mm

