

FASTLITE

ULTRAFAST SCIENTIFIC INSTRUMENTATION

WIZZLER 400

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 400

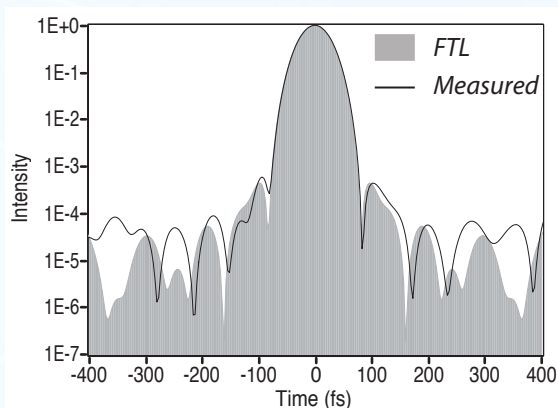
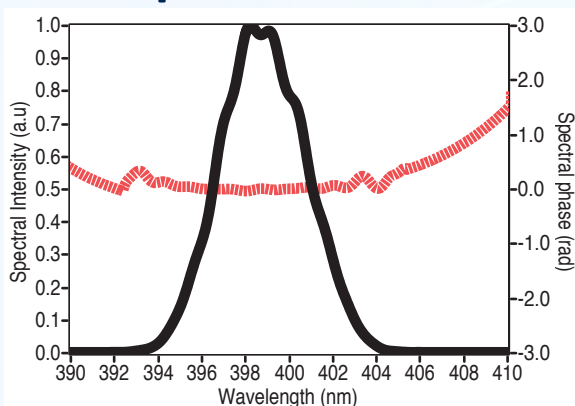
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Specifications:

• Spectral band edges	390-410nm
• Pulse bandwidth range <i>FWHM values for FTL Gaussian pulses</i>	2,5-7nm
• Pulse duration <i>FWHM values for FTL Gaussian pulses</i>	35-100fs
• Temporal measurement range	± 400 fs
• Temporal measurement dynamic	40dB

For shorter pulses or other wavelengths, please contact us.

Experimental data: 50fs, 400nm pulse measurement



Requirements:

Input pulse:

• Polarization	linear
• Beam diameter	3mm
• Beam Height	80-160mm
• Min/Max energy	2-20 μ J

PC:

- Windows XP, 7
- USB 2.0 port

Dimensions: 260x110mm

