

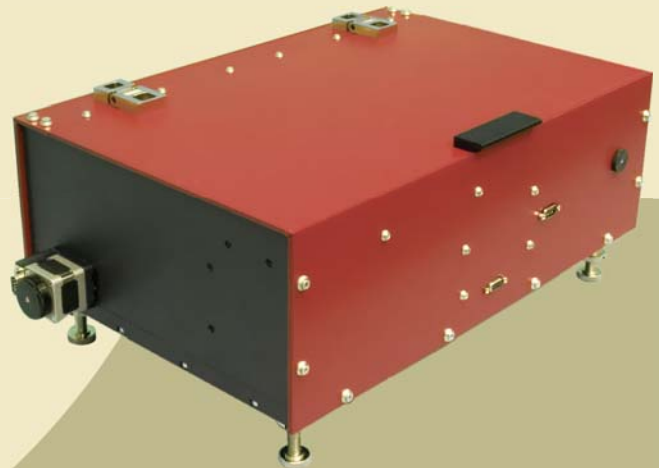


Diagnostics



Cross-Correlator COMET

- High dynamic range
- High temporal range
- High sensitive photodetector
- USB compatible

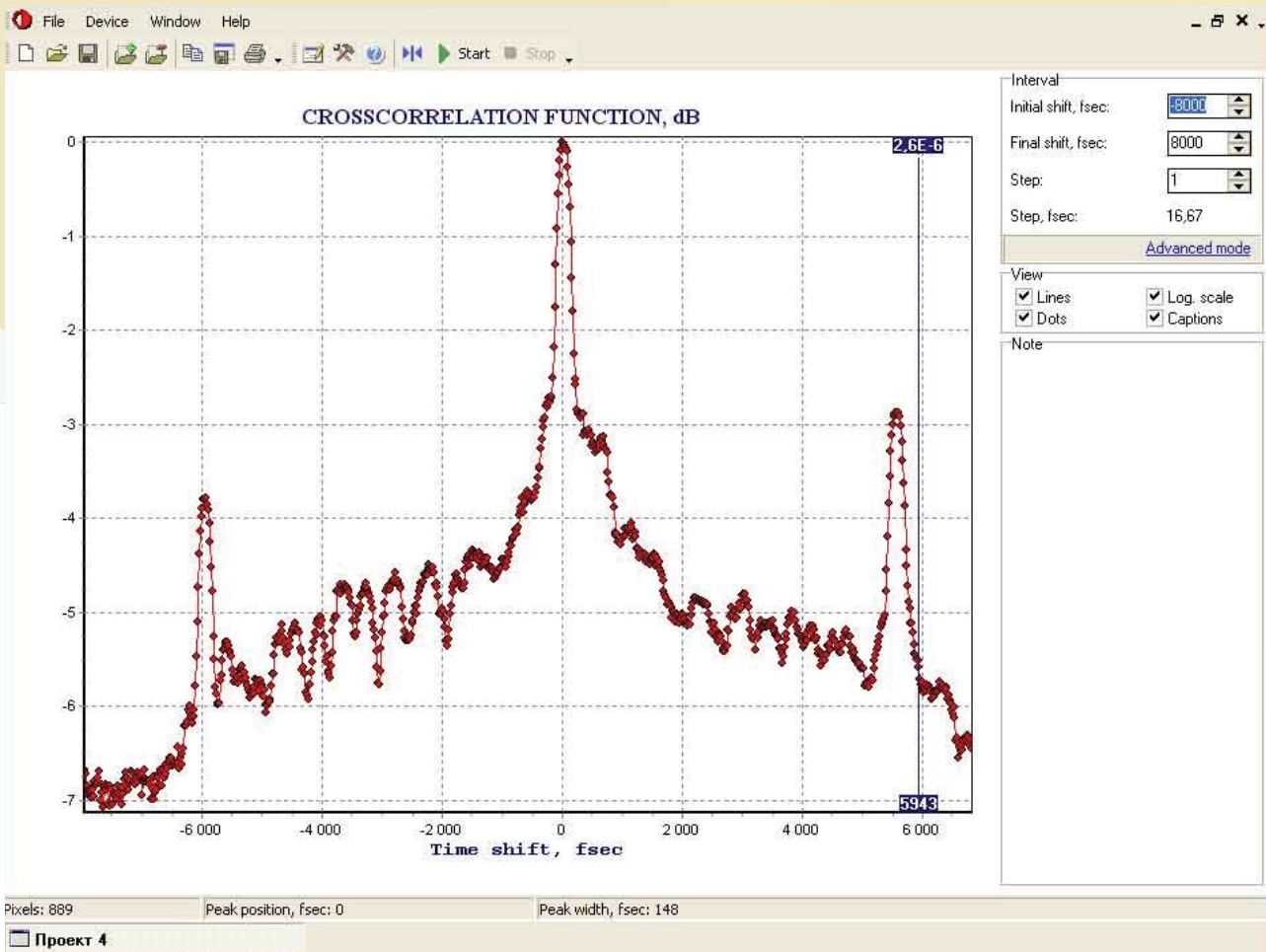


Cross-correlator COMET

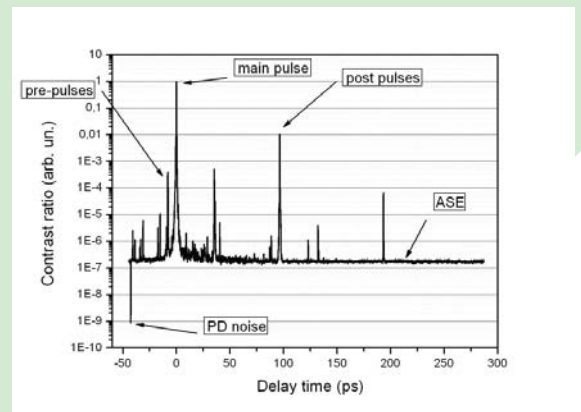
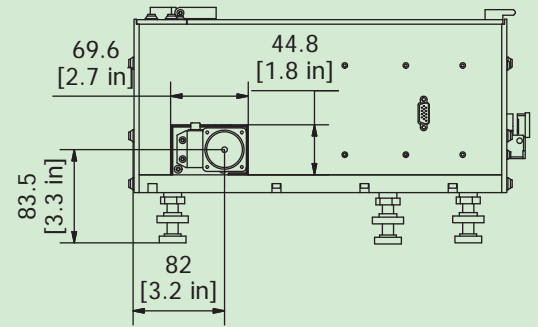
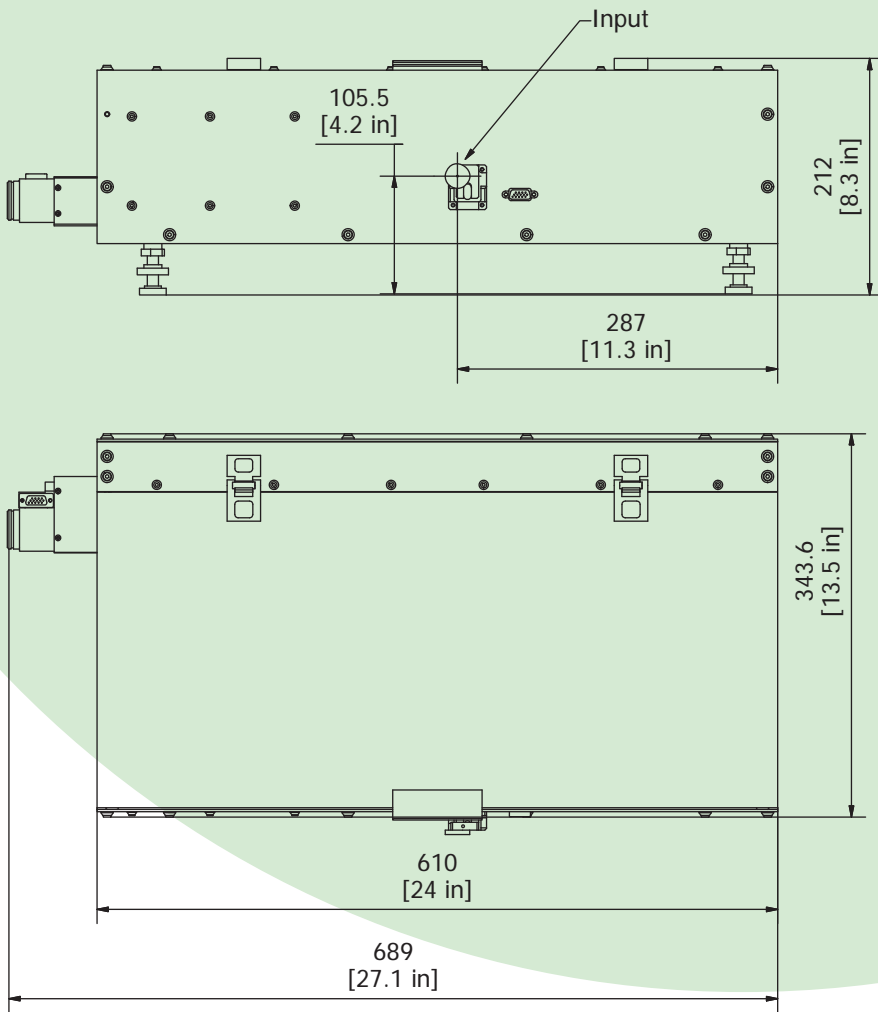
Product overview

The new third order cross-correlator has been specifically developed for measuring a wide array of output parameters from ultrafast laser systems including: contrast ratio of laser pulses, determining pulse pedestal, pre- and post-pulses, and amplified spontaneous emission in femtosecond systems. It also provides information about the third-order cross-correlation function of pulse intensity on a femtosecond scale and can be used for alignment of high power femtosecond lasers.

Cross-correlator includes opto-mechanical assembly and electronics with USB interface. System is easy to operate and includes a full set of user friendly software tools for data collection and analysis.



Software screenshot



Contrast/delay graph

COMET technical specifications

	COMET
Wavelength, nm	700-1500*
Dynamic range	>10 ¹⁰
Temporal range, ps	870
Input radiation energy (40-50 fs pulse), μJ	50-100
Pulse duration, fs	>20
Repetition rate, kHz	<10
Input polarization, linear	horizontal
Resolution, fs	100
Electric power	220 / 110 V AC; 50/60 Hz +-10%
Dimensions, mm	Optical unit 690 x 345 x 210 Control unit 250 x 180 x 90
* - please specify a certain wavelength value in this range with your request	