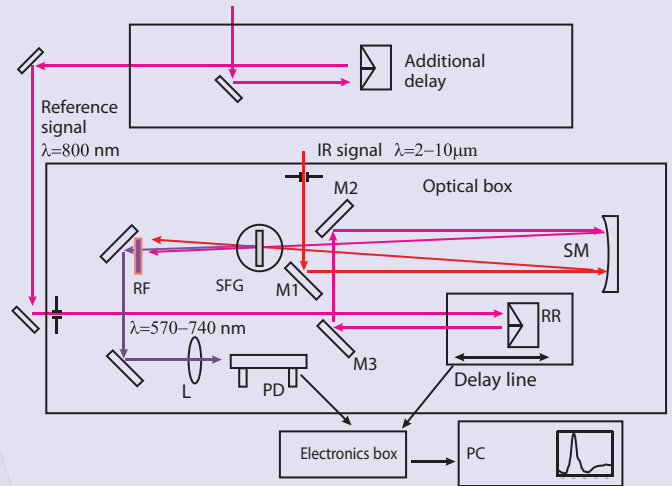


Diagnostics

Cross-Correlator CCIR-800

- 2-10 μm wavelength range
- 200 ps scan range
- Sensitivity 1 uJ@40-50 fs
- USB PC connection and PC acquisition software
- Pulse duration, pre- and postpulses



Cross-correlator CCIR-800 scheme

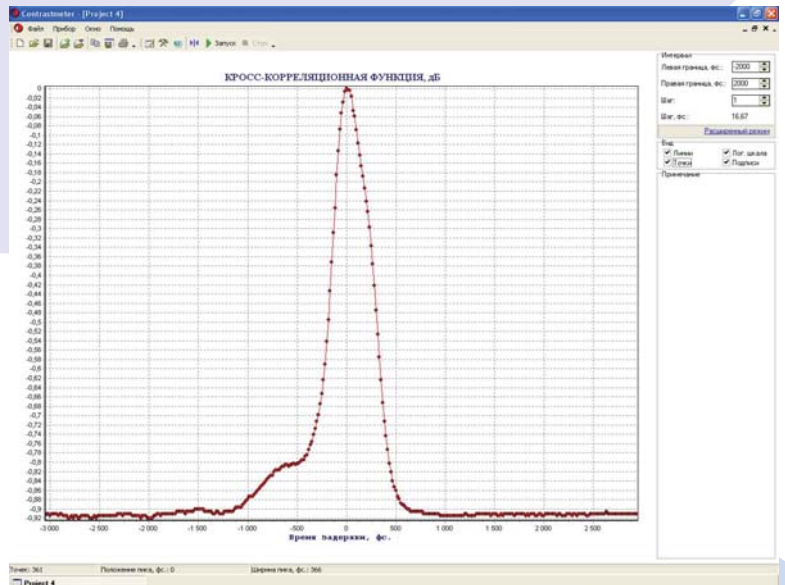
Product overview

The Comet-A cross-correlator is specifically developed for measurement of pulse duration of femtosecond and ps OPAs. Knowing exact pulse duration and pedestal information is essential for many applications, especially with the OPAs as there are quite few devices that can fulfill the task. The advantage of the cross-correlation method is that it can display pre- and post-pulse structure while autocorrelation will show symmetric curve. However, if you require higher resolution, please refer to our IRA-3-10 autocorrelator for IR measurements. Learn more...

The **Comet-A** cross-correlator offers 200-ps scan range and 17 fs resolution. It can give comprehensive information about the near contrast and pulse duration, pulse pedestal, pre-and post-pulses's structure and shape. The user can also select the desired narrow area (say, +/- 50 ps from the peak) for faster scanning speed. The **Comet-A** communicates with a PC via USB and acquisition and analysis software is included in the package.

	CCIR-800
Wavelength (input), μm	2 - 10*
Wavelength (reference), nm	780-820
Energy of input and reference signals, μJ	< 1
Pulse width, fs	> 20
Polarization (for input and reference signals)	linear-horizontal
Repetition rate, kHz	< 3
Temporal resolution, fs	17
Temporal range, ps	200
Electric power	220/110 V AC; 50/60 Hz +-10%
Dimensions, mm	Optical box 580x250x210 Control unit 250x180x90

* - when switching to the one of the following ranges : 2 μm – 3 μm, 3 μm – 5.5 μm, 5.5 μm – 7 μm, 7 μm – 10 μm - the replacement of crystal and selecting filter is required.



Software screenshot