

Rincon SS

Single shot third-order cross-correlator

The new third order cross-correlator 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.

- High dynamic range
- High temporal range
- USB compatible
- Single-shot measurements
- CCD camera



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.

PRODUCT FEATURES

Wavelength	700-1500 nm
Dynamic range	10^8 (in one window 10^4)
Temporal range	950 ps
Pulse width	>20 fs
Input energy (40-50 fs pulse)	<500 μ J
Repetition rate	<100 Hz*
Input polarazation	Linear-horizontal
Resolution	150 fs (at time window 2 ps) 400 fs (window 12 ps)
Electric power	220/110 V AC; 50/60 Hz \pm 10%
Dimensions, mm	optical unit 550X400X135

* - at repetition rate more than 100 Hz cross-correlator will operate in multiple pulses mode.

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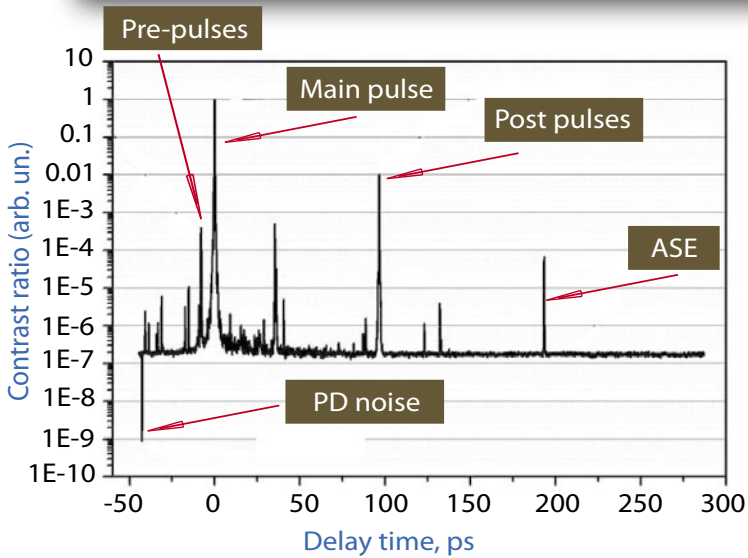
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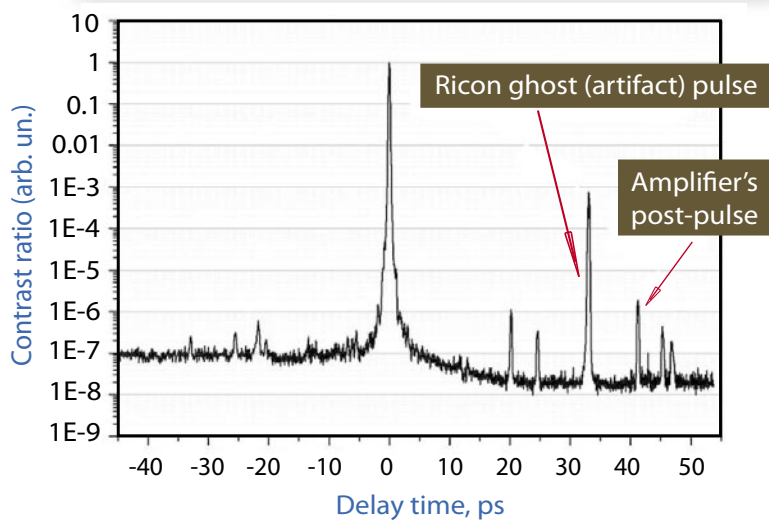
Software screenshot (Windows XP fully compatible, USB drivers included)



Third order cross-correlation function of laser pulse (Cr:forsterite regenerative amplifier)



Third order cross-correlation function of laser pulse (Ti:Sapphire multipass amplifier)



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