

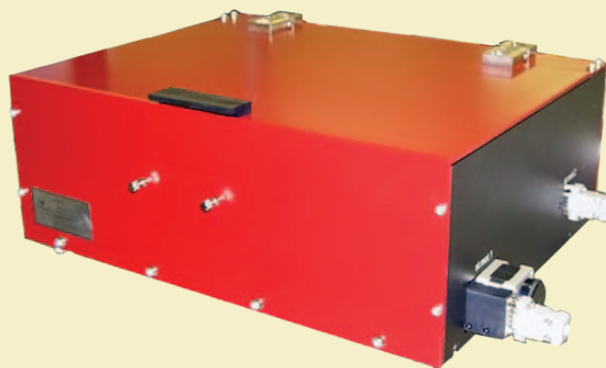


Diagnostics



IRA-3-10 Autocorrelator

- Pulse duration range 30 fs - 50 ps
- Wavelength range 3-10  $\mu\text{m}$
- USB connection and software



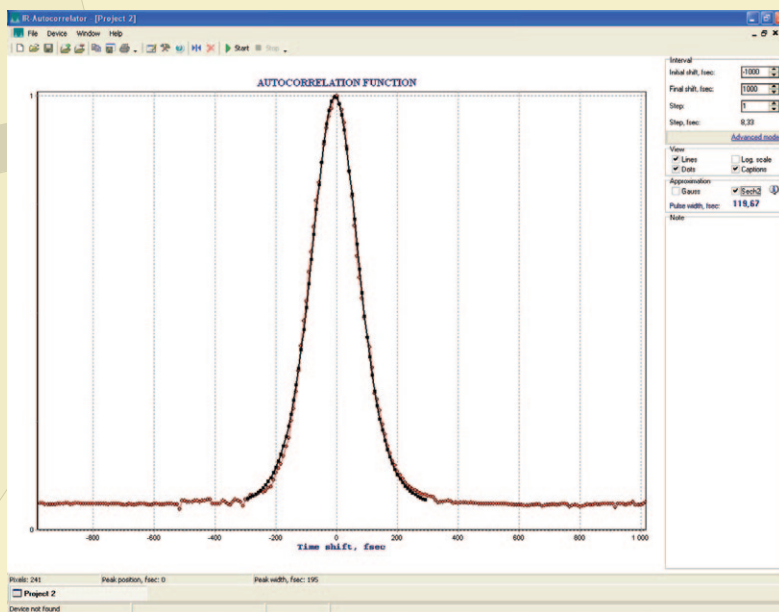
IRA-3-10 autocorrelator

Product overview

The IRA-3-10 autocorrelator is specifically developed for measuring pulse duration and near contrast ratio of IR ultrafast radiation (wavelength 3–10  $\mu\text{m}$ ) that is usually generated by the ultrafast OPAs.

The IRA 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. Approximation with Gauss and Sech<sup>2</sup> profile is also available. The opto-mechanical assembly consists of optical box and mechanical kit for additional delay of reference pulse.

The acquisition and analysis software is fully compatible with Windows XP, USB drivers are included.



	IRA-3-10
Wavelength range, $\mu\text{m}$	3-10*
Pulse duration range	30 fs - 50 ps
Input repetition rate, kHz	<3
Input polarization, linear	horizontal (vertical upon request)
Input pulse energy, $\mu\text{J}$	<10
Temporal resolution, fs	8.3
Temporal range, ps	150
PC connection	USB
Necessary equipment	PC with Windows OS
Power supply	220/110 V AC; 50/60 Hz $\pm$ 10%
Dimensions, mm	400x250x210 (optical unit) 250x180x90 (electronic unit)
* - the wavelength range is subdivided into three subranges: 3-5.5, 5.5-7 and 7-10 $\mu\text{m}$ that are covered by exchanging the crystal and selecting filter. Please specify the desired wavelength range when requesting a quote.	