

FROG Option for *pulseCheck* USB



The FROG option converts the APE *pulseCheck* autocorrelator into a tool for in-depth pulse characterization. FROG is an abbreviation for Frequency Resolved Optical Gating and enables pulse analysis in both spectral and temporal domain.

The FROG Option includes a special crystal that is inserted into the *pulseCheck*. An extra spectrometer is not necessary. The crystal exchange can easily be performed by the user. The software is included and makes all necessary calculations.

The FROG option is available for all *pulseCheck* autocorrelators except the *pulseCheck* SM.

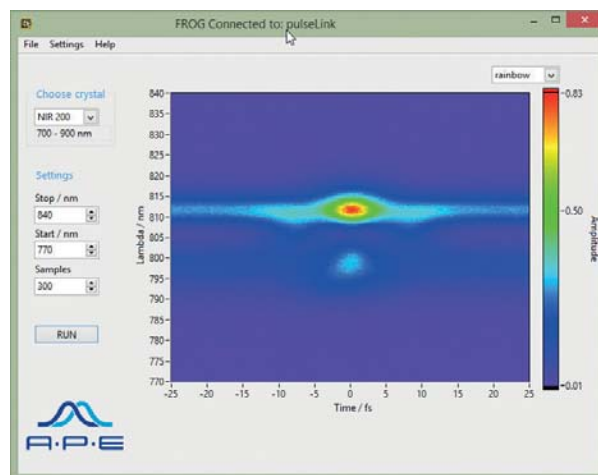
FROG measurements are limited to a repetition rate of > 10 kHz.



- Adapts *pulseCheck* for additional spectral analysis
- No extra spectrometer needed
- Temporal and spectral phase and intensity information is automatically derived

Crystal Overview

Crystal	Wavelength range	Pulse width range	Spectral resolution
VIS-I-200	420 ... 550 nm	200 ... 6000 fs	0.1 nm
VIS-I-50	420 ... 550 nm	50 ... 200 fs	0.3 nm
VIS-I-20	420 ... 550 nm	20 ... 70 fs	1 nm
VIS-II-150	550 ... 700 nm	150 ... 2000 fs	0.1 nm
VIS-II-50	550 ... 700 nm	50 ... 200 fs	0.3 nm
VIS-II-20	550 ... 700 nm	20 ... 60 fs	2 nm
NIR-200	700 ... 900 nm	200 ... 5000 fs	0.1 nm
NIR-50	700 ... 900 nm	50 ... 500 fs	0.2 nm
NIR-20	700 ... 900 nm	20 ... 50 fs	3 nm
IR-I-150	900 ... 1200 nm	150 ... 900 fs	0.2 nm
IR-I-60	900 ... 1200 nm	60 ... 200 fs	1 nm
IR-I-30	900 ... 1200 nm	30 ... 60 fs	5 nm
IR-II-100	1200 ... 1600 nm	100 ... 700 fs	0.5 nm
IR-II-50	1200 ... 1600 nm	50 ... 100 fs	2 nm
IR-II-30	1200 ... 1600 nm	30 ... 50 fs	9 nm



Measured FROG raw data

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