
Specifications

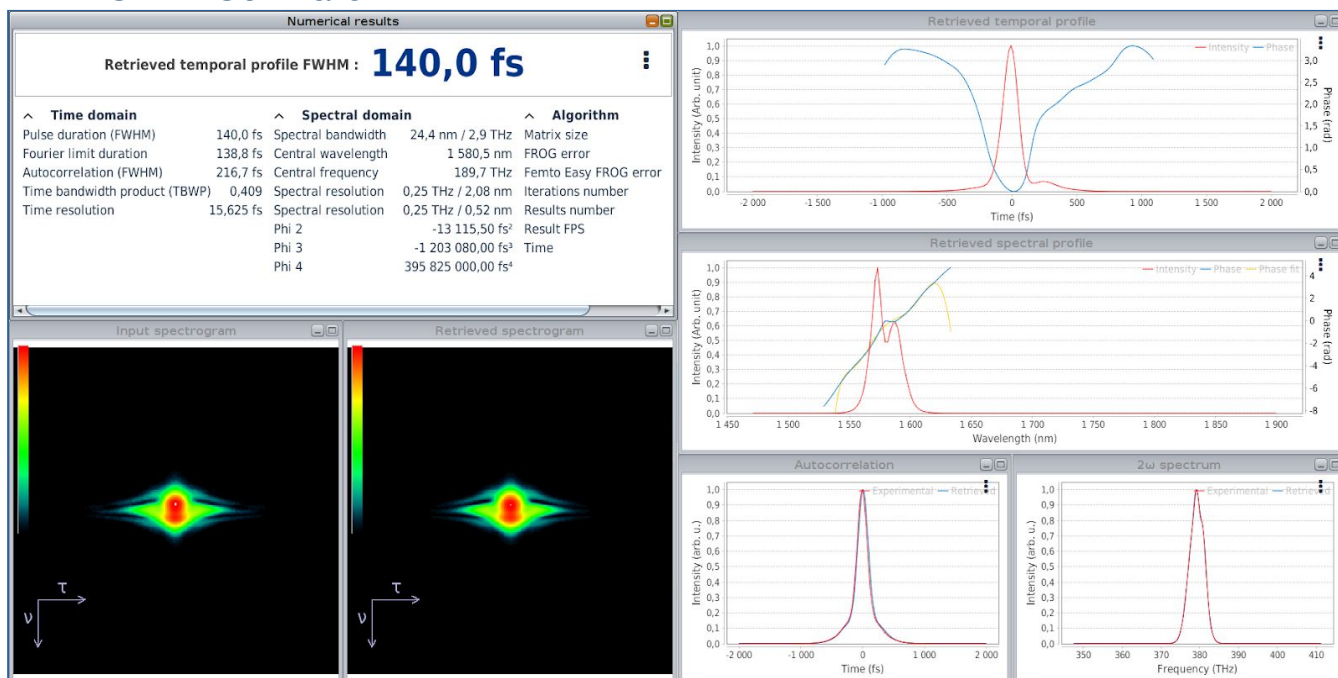
Fast FROG Models		FC	FS	PS1	PS3	PS5	PS10	
Pulse duration range	min	4 fs	10 fs	50 fs	100 fs	150 fs	300 fs	
	max	150 fs	250 fs	1 ps	3.5 ps	5 ps	10 ps	
Accessible spectral range (nm)		480 - 2100 ¹					800 - 2100 ¹	
Spectral Window $\Delta\lambda$ (nm)		580 ¹	420 ¹	300 ¹				
Input pulse repetition rate		single-shot to GHz ²						
Single-pulse measurement		Up to 150 kHz laser repetition rate (with Enhanced detection option, or 40 kHz without)						
Min input pulse energy ³	Single-shot	250 μ J	1 μ J	1 μ J				
	1 kHz	10 μ J	100 nJ	50 nJ				
	50 MHz	20 nJ	1 nJ	200 pJ				
	1 GHz	n/a	50 pJ	25 pJ				
Input polarization		linear vertical						
Detection		CMOS 12 Bits – 3 Mpx – 72 dB						
PC Interface		USB 3.1 (or GigE as an option)						
Beam height (mm)		75 - 155						
Dimensions (mm)		326 x 194 x 129						

¹ Effective spectral bandwidth to be defined within the accessible spectral range according to customer's requirements. Additional spectrometers can be provided to address different spectral windows

² The measurements are averaged over several pulses for laser with repetition rate higher than 80 kHz.

³ Those values give an order of magnitude, with "low energy" option when applicable. The exact sensitivity depends on many parameters (pulse duration, beam profile, wavelength...)

 STAR Software



- ◆ Live extraction of shot to shot pulse properties: temporal profile intensity and phase, fundamental spectrum and phase, Chirp, Third-order dispersion...
- ◆ Several algorithms (including the Ptychographic Iterative Engine) are combined to enhance the reconstruction speed and quality
- ◆ Enhanced background & hot pixels treatment, for optimum dynamic and signal to noise ratio
- ◆ Client / Server interface, allowing remote control through network
- ◆ All data exportable into most common formats