

## FROGscan

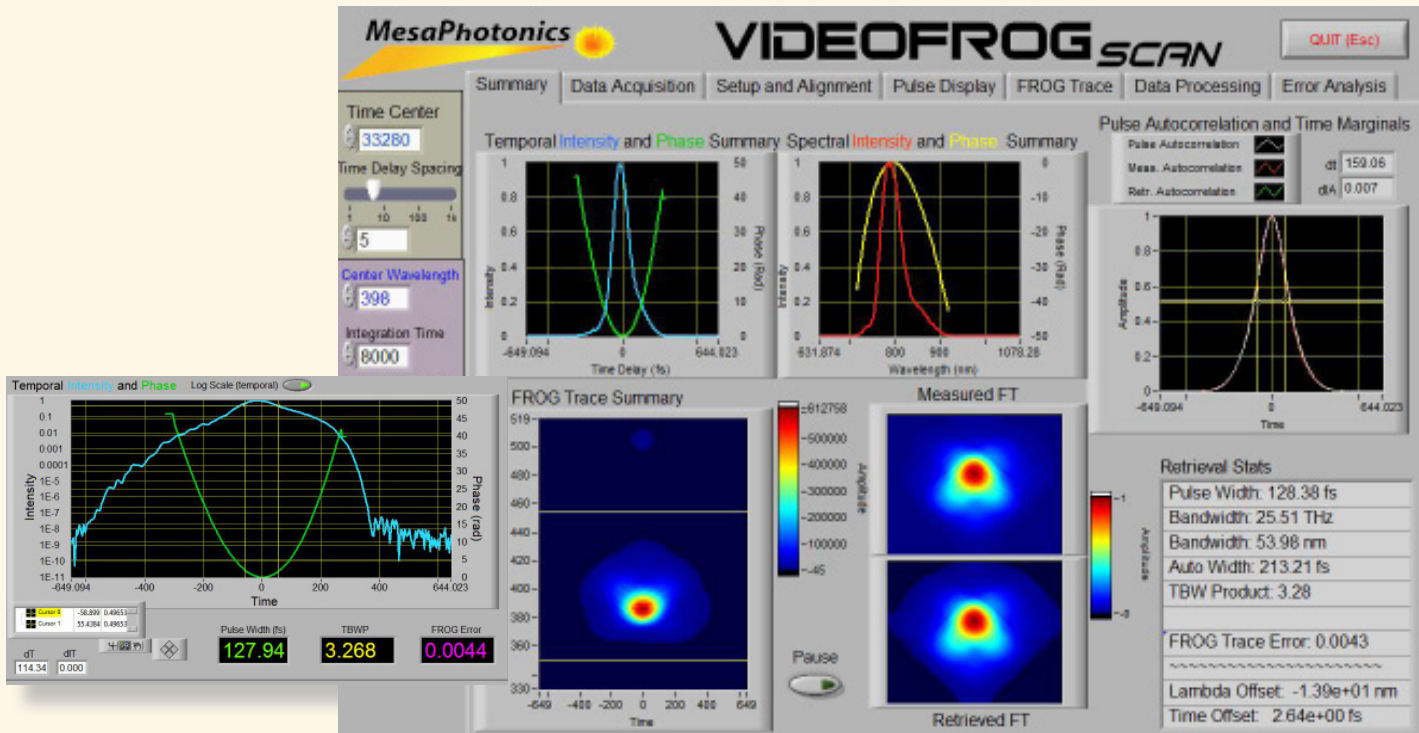
FROGscan is a revolutionary, high-accuracy, real-time ultrafast laser pulse measurement system

FROGscan Ultra provides wider wavelength coverage, higher resolution and up to 75dB dynamic range



- Pulse durations: 5 fs to >10 ps
- Wavelengths: 450 nm to >4.5  $\mu\text{m}$
- Measurement rates: >2 Hz
- Time-bandwidth products: >50

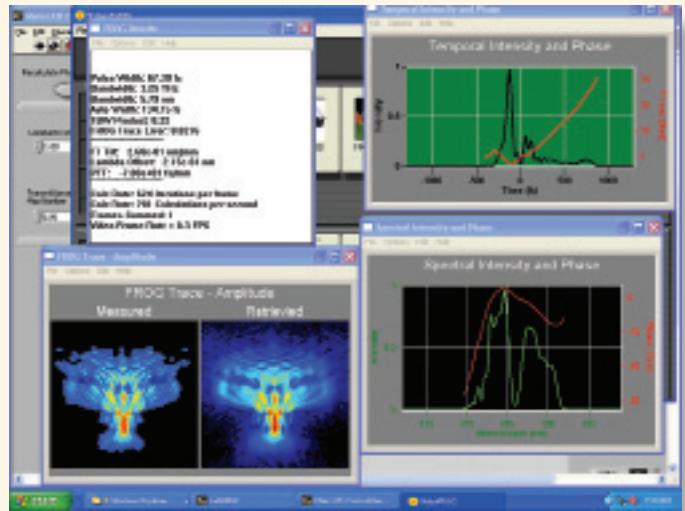
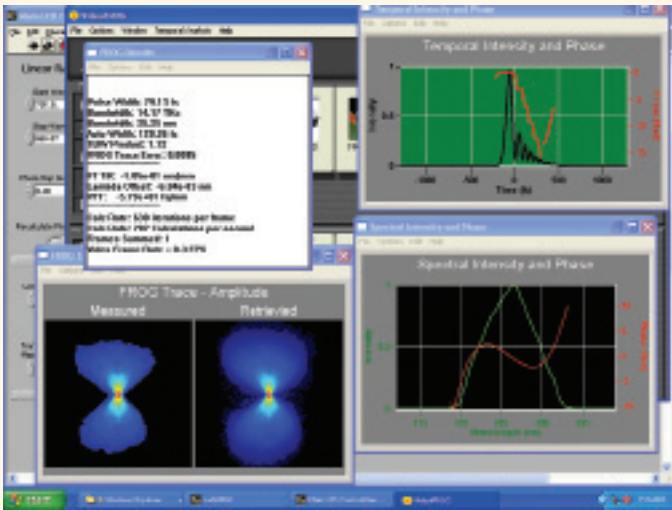
- Easy to align
- Field configurable
- Easy to use
- Includes **VideoFROGscan** software
- Integral alignment laser
- High sensitivity



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<b>Specifications</b>	
Wavelength Range	450 nm - >4500 nm (for >~3.7 μm contact us)
Pulse Length Range	5 fs to >10 ps
Temporal Range	30 ps
Temporal Resolution	2 fs or better
Delay Increment	1 fs
Spectral Resolution	0.20 nm - 1 nm (Ultra: 0.05 nm - 1 nm)
Spectral Range	100 nm - 600 nm
Pulse Complexity	TBWP > 50
Intensity Accuracy	2%
Phase Accuracy	0.01 radians
Real-time Sensitivity ( $I_{peak} \cdot I_{ave}$ )	4 W <sup>2</sup>
Averaged Sensitivity ( $I_{peak} \cdot I_{ave}$ )	< 0.1 W <sup>2</sup> (Ultra: 0.01 W <sup>2</sup> )
Input Beam Size	2 - 8 mm collimated
Polarization	Horizontal
Acquisition Speed	> 2 Hz (64 x 64 grid)
Spectra Required for Measurement	Grid width
Size on Table	16 cm x 30.5 cm (Ultra: 30 cm x 30 cm)
Software	VideoFROGscan included

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