

GECO

Scanning Autocorrelator

FEATURES

- 10 fs – 20 ps pulse duration range
- 500 – 2000 nm wavelength range
- High-resolution voice coil driven delay line
- Integrated controller
- Compact and portable design
- Pulse-analysis software
- FROG-ready



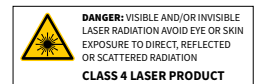
GECO is a scanning autocorrelator designed for pulse duration measurements. It is based on noncollinear second-harmonic generation, producing intensity autocorrelation trace related to the fundamental pulse duration. GECO features a noncollinearity angle adjustment and can be transformed into a collinear setup for measurements down to 10 fs. High resolution is ensured by a delay line with a 0.13 fs/step.

GECO comes with an integrated controller and pulse analysis software. It is capable of generating FROG traces, if an external spectrometer is connected. Software APIs are available for user adaptation.

SPECIFICATIONS

Input wavelength range		500 – 2000 nm
Input pulse duration		10 fs – 20 ps
Minimum repetition rate		1 kHz
Minimum input power ¹⁾	from amplifiers	2 mW @ 1 kHz 200 mW @ 1000 kHz
	from oscillators	400 mW @ 800 nm, 76 MHz, 100 fs 250 mW @ 1030 nm, 76 MHz, 100 fs
Temporal resolution		0.13 fs/step
Scan rate		5 scans/s @ 1 – 1000 kHz
Detector		Si photodiode

¹⁾ For specific input requirements, contact sales@lightcon.com.



DRAWINGS

