

# SEQUOIA

Reference temporal contrast measurement

AMPLITUDE



TECHNOLOGIES



## SEQUOIA

Developed by world-leader in high peak power laser systems, Amplitude Technologies, under license from, and in collaboration with the French CEA, Sequoia offers state-of-the-art measurement of the temporal contrast of laser pulses. This makes it ideal for operations that require strict control of the laser pulse contour, such as femtosecond laser systems used in high-field physics applications.

High quality system engineering means that precise measurements can be performed easily and reliably. On a daily basis, its ultra-high dynamic range permits characterization of high peak power systems, making Sequoia the best third-order cross-correlator commercially available today. Such is the performance level of Sequoia it has been adopted as the reference tool to define and optimize virtually any laser system, commercial or bespoke.

## KEY FEATURES

1 #

State-of-the-art technology to measure laser pulse temporal contrast

2 #

Robust and standardized measurement tool suitable for daily use

3 #

Ultra-high dynamic range ( $> 10^9$ ) to permit characterization of high peak power laser systems

4 #

Developed by Amplitude Technologies under license from the French Atomic Energy Commission, the CEA.

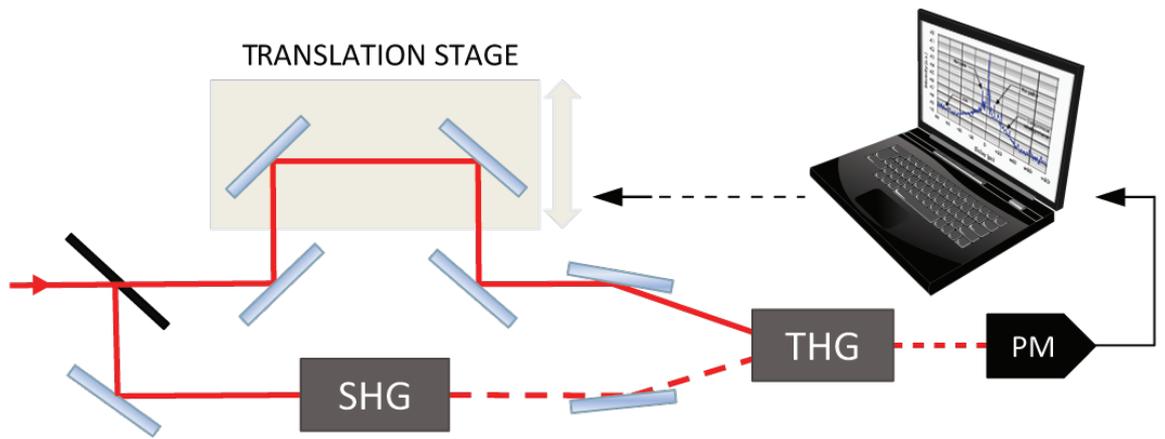
5 #

Sequoia is the reference tool to define and optimize a wide range of laser systems

## OPTICAL SCHEME

1# State-of-the-art technology to measure laser pulse temporal contrast

2# Robust and standardized measurement tool suitable for daily use



## PERFORMANCE

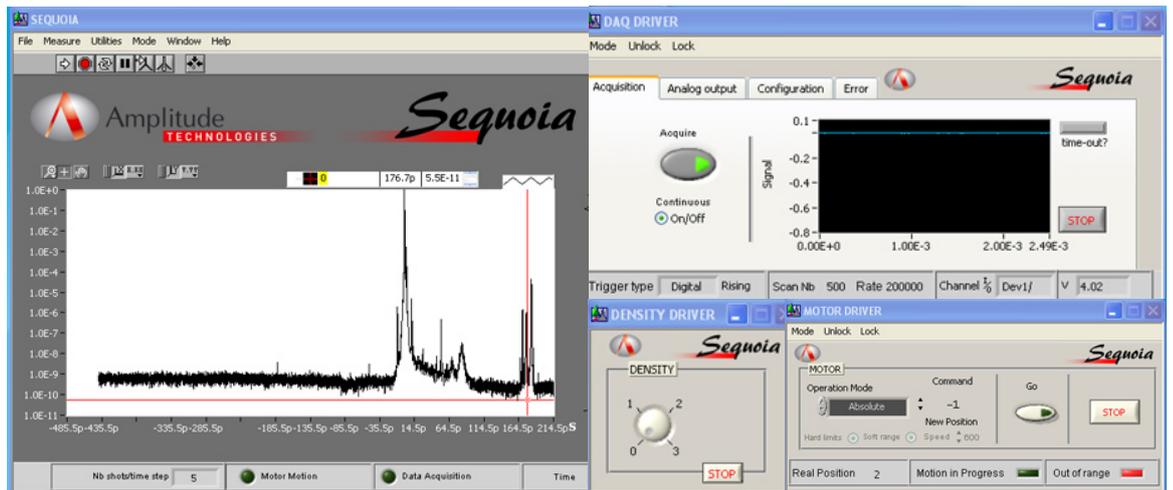
3# Ultra-high dynamic range (> 10<sup>9</sup>) to permit characterization of high peak power laser systems

MODEL	SEQUOIA 800	SEQUOIA 1000
DYNAMIC RANGE	>10 <sup>9</sup> (typical 10 <sup>10</sup> )	
TEMPORAL RANGE	570ps	
RESOLUTION	20fs	
WORKING WAVELENGTH	760nm-840nm	1000nm-1100nm
MINIMUM PULSE ENERGY	1mJ	
WORKING POLARIZATION	horizontal	
DATA ACQUISITION RATE	up to 1kHz	
DIMENSIONS	450mm X 250mm X 100mm	

## COMPUTER INTERFACE CONTROL

4# Developed by Amplitude Technologies under license from the French Atomic Energy Commission, the CEA.

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