

DELTA SINGLE SHOT AUTOCORRELATOR

The Delta single shot autocorrelators are ideal instrument for monitoring and measuring ultrafast pulse from low repetition rate (<1 Hz) to high repetition rate (>1000 MHz). The DELTA is affordable while it is powerful. The small size 15x7x6.8 (in cm) makes it possible to measure a pulse at very tight space. The triangle delay line design makes the DELTA very user friendly.



Specification for the Delta basic model:

Pulse width range	50fs-1ps
Wavelength range	680-1200 nm with a filter. 1600-2000nm by removing the filter.
Sensitivity(1)	(1) 0.12 nJ (10 mW) for 100 fs pulse of 80 MHz at 800nm (2). 1 μJ for 100fs pulse of 1kHz at 800 nm
(2) With Ultralow power option	<0.012 nJ (1 mW) for 100 fs pulse of 80 MHz at 800 nm.
Step size of CCD pixel to pixel	7.4fs
Step size with short pulse option	2fs
Laser repetition rate	Single shot to 1GHz, no limit
Power supply	100-220V 50-60Hz plug with 5V DC
Physical dimension	LxWxH: 160x70x68 (in mm)
GDL-100 long pulse option:	For pulse 1-100 ps .
Short pulse option	For 20-200fs
UV-option:	For wavelength 500-650 nm.
UV-2 option	For wavelength 600-680 nm
IR option	For 1200-1600 nm.
SHG crystal for basic model*	7x5x0.5 (in mm)
SHG crystal for short pulse option*	7x5x0.2 (in mm)
SHG crystal for long pulse option	7x5x2 (in mm) suggestion
Digit Scope option	USB Digit interface for computer monitor pulse width

*Only one crystal is provided with one Delta. Additional crystals can be order by demand. All options are add-in components.