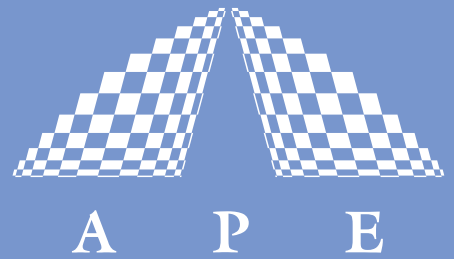


**NEW!**

# SCAN DELAY

## USB



### OPTICAL DELAY LINE SERIES



New USB Driver



Optical Unit

**ScanDelay** is a device for a defined linear translation and positioning of optical elements, e.g. in interferometers, pump and probe configurations, correlators or fast scan modules.

The heart of the APE optical delay line series **ScanDelay** is a special linear translation stage that is supplied together with an appropriate control and drive electronics. The linear drive has been designed especially for optical applications. It combines low moving mass with compactness reaching high precision and resolution. It is simply controlled by an electrical signal. Because of the spring bearings the movement is frictionless.

Thus, **ScanDelay** is capable of generating fast wide scans as well as smallest delays without any stick-slip effects. The actual position is measured online by an analog photoelectrical system with high resolution and wide dynamic range.

The control electronics contains the motor driver and a quartz stabilized signal synthesiser. It can be synchronized with an external clock-source for a precise, phase-locked scanner movement. A LabView based user interface allows easy integration into existing measurement software. The **ScanDelay** can be operated in fast and slow scan movements with various scan modi as sinus, triangle, sawtooth or even with a user defined shape. Typical applications of the ScanDelay are interferometers, pump and probe configurations, correlators or fast scan modules.

LabView Interface

User defined delay patterns

Scan phase-locked to external source

Ultrafast Pulse Diagnostics

Wavelength Conversion

Pulse Management

Acoustooptics

**Your Partner in Ultrafast**

# SCANDELAY

## USB

### SPECIFICATIONS

Version	15	50
Max. scan range	15 ps ( $\pm 1.125$ mm)	50 ps ( $\pm 3.75$ mm)
Scan modes		
Slow		0.5 ... 0.01 Hz
Fast		0.1 ... 20 Hz
Trigger output (zero position)		TTL
Position output signal	$\pm 5$ V / 15 ps <sup>1)</sup>	$\pm 5$ V / 50 ps <sup>1)</sup>
External control voltage		$\pm 10$ V / 300 W <sup>2)</sup>
Linearity of position signal		< 0.5 %
Interface		USB

1) \*10, \*100 switchable

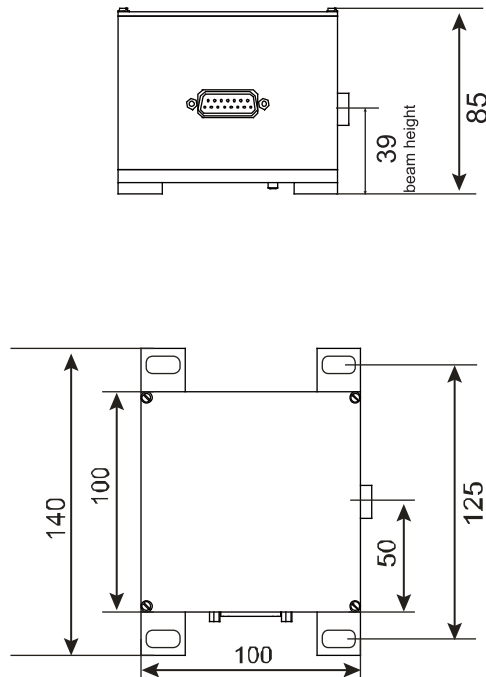
2) scan amplitude varies with scan frequency

### OPTICS (high precision retroreflector)

clear aperture	1"	1/2"
coating	protected Ag (other coatings on request)	

### DIMENSIONS of optical unit (in mm)

ScanDelay 15/50



#### Distributors

see APE website [www.ape-berlin.com](http://www.ape-berlin.com)

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APE follows a policy of continued product improvement. Therefore, specifications are subject to change without notice.

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