

Mesa Photonics Optical Delay Line Specifications

Specification	Values
Step Resolution	150 nm (nominal, 1 fs, double pass)
Number of positions	65536
Range of motion	10 mm
Position nonlinearity	<0.5%
Short term repeatability	200 nm
Long term repeatability	50 ppm/degree C
Control loop bandwidth	1 kHz
Hysteresis	None
Deadband	None
Digital write speed (max)	300 points/second
Analog modulation for 90% full scale (minimum)	20 Hz sine wave
Analog Modulation 3 mm travel	90 Hz sine wave
Yaw	Corrected with hollow roof prism (standard, included)
Pitch	100 μ rad/mm max, typical 80 μ rad/mm corrected with optional hollow retroreflector
Control	Digital, Analog, or Digital and Analog simultaneously.

Digital and Analog I/O

2 16-bit A/Ds (SINAD #1, 80 dB, #2 70 dB)	300 samples/second, 1-1000X gain, software controlled
Analog position control	+/- 2V full range
Analog position output	+/- 2V full range
Trigger	TTL in, active high
Frame synch output	CMOS/ TTL out, active high

Included Software: LabView VI's (version 2012), and application for digital scanning and data acquisition

Size: 5.1" W x 6.1" D x 7.5" H (130 mm W X 154 mm D X 191 mm H).