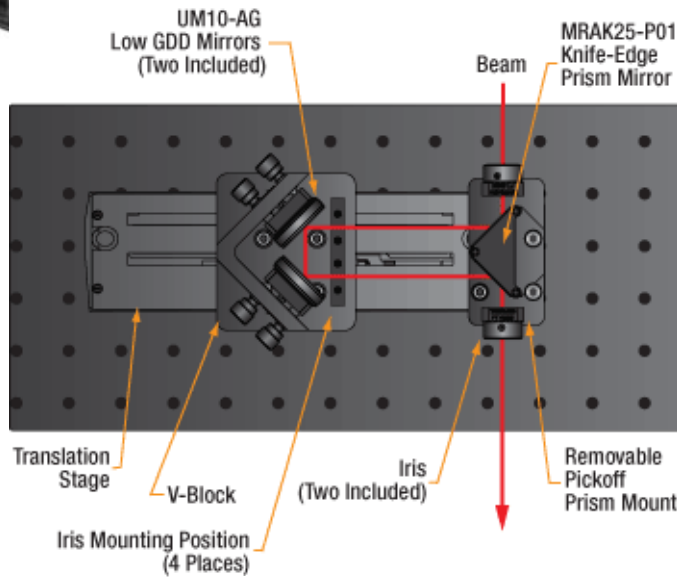


Optical Delay Line (# ODL100, ODL220, ODL300, ODL600)

Sub-Femtosecond Resolution with up to 4000 ps Optical Delay
 Internal and External Triggering Modes
 High-Speed DC Servo Delay Stages Capable of up to 400 mm/s
 Includes Low-Dispersion Silver-Coated Optics



Specifications	
Item #	ODL100(/M)
Optical Delay Specifications	
Maximum Optical Delay	666.6 ps
Inherent Delay @ 0 mm	507 ps
Minimum Delay Shift ^a	3.3 fs
Beam Height	2.36" (60.0 mm)
Key Specifications of Translation Stage^b	
Translation Stage Item #	DDSM100(/M)^c
Travel Range	100 mm (3.9")
Velocity (Max)	500 mm/s
Acceleration (Max)	5000 mm/s ²
Bidirectional Repeatability	±1.5 μm
Minimum Incremental Movement	500 nm
Absolute On-Axis Accuracy	±5.0 μm
Pitch	±175 μrad
Yaw	±175 μrad
Bearing Type	High Rigidity, Recirculating, Precision Linear Bearings
Motor Type	Brushless DC Linear Motor
Dimensions	195 mm x 57 mm x 35 mm (7.68" x 2.24" x 1.38")
Weight	0.72 kg (1.6 lbs)

Specifications			
Item #	ODL220(/M)	ODL300(/M)	ODL600(/M)
Optical Delay Specifications			
Maximum Optical Delay	1466 ps	2000 ps	4000 ps
Inherent Delay @ 0 mm	507 ps	607 ps	607 ps
Minimum Delay Shift ^a	0.67 fs	0.67 fs	0.67 fs
Beam Height	3.22" (81.7 mm)	3.45" (87.7 mm)	3.45" (87.7 mm)
Key Specifications of Translation Stage^b			
Translation Stage Item #	DDS220(/M)^c	DDS300-E(/M)^d	DDS600-E(/M)^e
Travel Range	220 mm (8.6")	300 mm (11.81")	600 mm (23.6")
Velocity (Max)	300 mm/s	400 mm/s	400 mm/s
Acceleration (Max)	5 000 mm/s ²	10 000 mm/s ²	10 000 mm/s ²
Bidirectional Repeatability	±0.25 μm	±0.25 μm	±0.25 μm
Minimum Incremental Movement	0.1 μm	0.1 μm	0.1 μm
Absolute On-Axis Accuracy	±2.0 μm	±7.5 μm	±12.0 μm
Pitch ^f	±175 μrad	±100 μrad	±150 μrad
Yaw ^f	±175 μrad	±150 μrad	±300 μrad
Bearing Type	Precision Linear Bearing	High Rigidity, Recirculating, Precision Linear Bearings	
Motor Type	Brushless DC Linear Motor		
Dimensions	370.0 mm x 90.0 mm x 44.0 mm (14.57" x 3.54" x 1.73")	500 mm x 130 mm x 50 mm (19.69" x 5.12" x 1.97")	800 mm x 130 mm x 50 mm (31.5" x 5.12" x 1.97")
Weight	2.4 kg (5.3 lbs)	5.9 kg (12.98 lbs)	9.125 kg (20.0 lbs)