

Fast Piezo Objective Mover | f-POM



Features

- Specialty piezo objective mover provides high-speed, large load, long-travel operation
- Travel range of 150 μm , 300 μm , or 500 μm available
- Closed-loop control
- Ideal for custom microscope applications
- Standard MS-2000 Adept Controller or special high performance driver available for most rapid operation

Physical Dimensions

- 102 mm x 60 mm x 20 mm
- Thru aperture 18.0 mm
- Mounting holes: Four M4-0.7 on 19 mm x 47 mm pattern
- Objective threads M25 - 0.75 (other available)

ADEPT High-Performance Piezo Controller Specifications

Specification	f-POM- 150	f-POM- 300
Piezo Travel Range (+/- 5%)	150 μm	300 μm
Piezo smallest move resolution w/ 16 bit DAC	2.2 nm	4.5 nm
Maximum Load for full range travel	1.2Kg	600g
Transient Response time (10%-90%) for moves below 30% travel range	3.3 ms	
External Analog input (BNC)	0 to 10 Volts	
Closed Loop 3dB Bandwidth w/ 280gm load for moves 70% of travel range	75Hz	

ADEPT Standard Piezo Controller Specifications

Specification	f-POM- 150	f-POM- 300	f-POM- 500
Piezo Travel Range (+/- 5%)	150 μm	300 μm	500 μm
Piezo smallest move resolution w/ 16 bit DAC	2.2 nm	4.5 nm	7.6 nm
Maximum Load for full range travel	1.2Kg	600g	500g
Transient Response time (10%-90%) for moves below 30% travel range	11 - 15 ms		
External Analog input (BNC)	0 to 10 Volts		
Closed Loop 3dB Bandwidth w/ 600gm load	30Hz		