

Nanopositioning Piezo Actuator



Nanopositioning Piezo Actuator, #85-008

Stock **#85-008** 5 In Stock

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1

+

A\$5,184⁰⁰

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General

For Microscope Objectives	Type:
1.5	Resolution (nm):

Physical & Mechanical Properties

Linear (Z)	Type of Movement:
Aluminum and Brass Body	Construction:

300	Load Capacity (g):
100	Range of Motion (μm):
6	Runout, θ _x (μrad):
10	Runout, θ _y (μrad):
Optical Properties	
12.7	Optical Path Difference (mm):
Electrical	
500	Frequency (Hz):
±20	Frequency Stability (%):
Hardware & Interface Connectivity	
Ultrasonic Motor	Type of Drive:
Controller with EO-Drive and 16-bit USB Open Loop	Power Supply:
Threading & Mounting	
Sold Separately	Mounting Threads:
Material Properties	
1	Stiffness (N/μm):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:

Product Details

Nanopositioning piezo actuator and USB controller are sold separately; both are required for a complete system.

- 100μm Range of Motion
- 1.5nm High Resolution Positioning
- Interchangeable Quick Mount Adapters

The Microscope Objective Nanopositioning System is a piezo driven, flexure guided, nanopositioning focusing element system. Combining 100μm of travel with low off-axis motion, the nanopositioning piezo actuator ensures stable microscope images throughout the entire range of motion. RMS, M25, and M26 quick mount adapters set thread directly into the microscope turret and provide a stable mounting surface for the nanopositioning actuator.

Note: Nanopositioning piezo actuator (required), USB controller (required), and quick mount adapters (at least one required) are sold separately.

The EO-Drive controller connects directly to any USB port on a Windows® (XP, Vista, Windows 7) compatible computer, and provides high resolution, 16-bit control of the lens motion. Software drivers, LabVIEW™ examples, and a LabVIEW™ tutorial are included. LabVIEW™ examples are open source, and can be used as a starting point in LabVIEW™ routines written for specialized imaging applications.