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Nanopositioning Piezo Actuator

Nanopositioning Piezo Actuator, #85-008

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Product Downloads

General

Type:

For Microscope Objectives

Resolution (nm):

1.5

Physical & Mechanical Properties

Type of Movement:

Linear (Z)

Construction:

Aluminum and Brass Body

Load Capacity (g):
300

Range of Motion (µm):
100

Runout, θ_x (µrad):
6

Runout, θ_y (µrad):
10

Optical Properties

Optical Path Difference (mm):
12.7

Electrical

Frequency (Hz):
500

Frequency Stability (%):
±20

Hardware & Interface Connectivity

Type of Drive:
Ultrasonic Motor

Power Supply:
Controller with EO-Drive and 16-bit USB Open Loop

Threading & Mounting

Mounting Threads:
Sold Separately

Material Properties

Stiffness (N/µm):
1

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

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.

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