

# Nanopositioning Piezo Actuator



Nanopositioning Piezo Actuator, #85-008

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

⊖ 1 ⊕ €3.240<sup>00</sup>

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### Volume Pricing

Qty 1+	€3.240,00 each
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### Product Downloads

### General

For Microscope Objectives **Type:**  
1.5 **Resolution (nm):**

### Physical & Mechanical Properties

Linear (Z) **Type of Movement:**  
**Construction:**

Aluminum and Brass Body

300 **Load Capacity (g):**

100 **Range of Motion ( $\mu\text{m}$ ):**

6 **Runout,  $\theta_x$  ( $\mu\text{rad}$ ):**

10 **Runout,  $\theta_y$  ( $\mu\text{rad}$ ):**

### Optical Properties

12.7 **Optical Path Difference (mm):**

### Electrical

500 **Frequency (Hz):**

$\pm 20$  **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 ( $\text{N}/\mu\text{m}$ ):**

### 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.

- 100 $\mu\text{m}$  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 100 $\mu\text{m}$  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.