

NanoScanZ Nanopositioning Piezo Z 250 Micron & 500 Micron Stages

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For use with motorized and manual stages, the NanoScanZ positions slides and petri dishes with nanometer resolution

Features



Prior Scientific proudly introduces the latest innovation in microscope automation - the NanoScanZ Piezo Stage Systems. Available in 250 micron and 500 micron travel models, the NanoScanZ is specifically designed for researchers utilizing deconvolution and 3D imaging. The NanoScanZ stage systems offers five nanometer repeatability and closed loop control utilizing a sub-angstrom resolution Piezo resistive sensor. The NanoScanZ complements the speed of the newest digital cameras and accomplishes in milliseconds what would take seconds for conventional rotary focus drives. The NanoScanZ Piezo stage system features:

- 250 or 500 micron travel models
- 2.5/5 nanometer repeatability
- Closed loop control utilizing sub-angstrom resolution piezo resistive sensor
- RS232/USB or Analog (0-10V) control
- Compatibility with software already programmed to control piezo objectives
- Used in conjunction with HI22 focus motor the entire range of focus can be viewed.
- Easy to view display screen for position and set up parameters

By moving the sample instead of the objective the NanoScanZ offers enormous benefits over existing objective based Piezo systems including;

- Quicker movement and settling
 - Flexibility to create Z stacks with multiple objectives
 - No rotating wires to twist and break
- Prior Scientific provides full support and service for the NanoScanZ and its entire product line through its professional and knowledgeable worldwide dealer network.

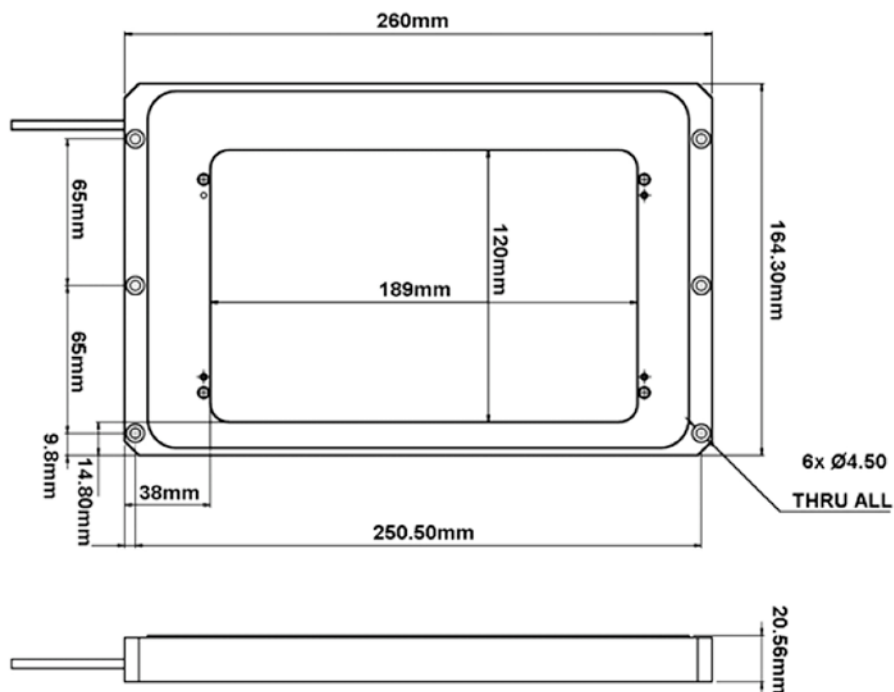


Inset Photo: NanoScanZ Piezo 500 micron stage mounted on a Prior Scientific ProScan™II HI17 motorized stage.

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Dimensions



General Specifications

Feature	Specification
Range of Motion	250 micron / 500 micron
Repeatability	2.5 nm / 5 nm
Step Response	15ms
Accuracy/Linearity	0.5% of travel
Resonant Frequency	200Hz / 550 Hz (+/- 20%)
Inplane Tilt	15 μ rad / 20 μ rad typical

Feature	Specification
Operating Temp. Range	5 to 50 degrees C
Body Material	Anodized Aluminum
Stage Control Input	Analog (0-10 VDC) RS232/USB
Power Requirement	90-240 VAC
Output-Position Signal	0.0 -10.0V

Ordering Information

Z Axis Piezo Stages:

Part Number	Product Description
NZ250CE	Z Axis 500 μ m travel Piezo stage with closed loop nanodrive controller
NZ500CE	Z Axis 250 μ m travel Piezo stage with closed loop nanodrive controller

NZ500 and NZ250 Inserts:

Part Number	Product Description
NZ301	Microtitre plate holder (85 x 128mm) for NZ250 and NZ500
NZ302	Universal specimen holder (slides, petri dishes and small flasks) for NZ250 and NZ500
NZ303	Slide holder for one 76 x 26mm microscope slide for NZ250 and NZ500
NZ304	Terasaki Plate Holder for NZ250 and NZ500

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Specifications subject to change without notice.