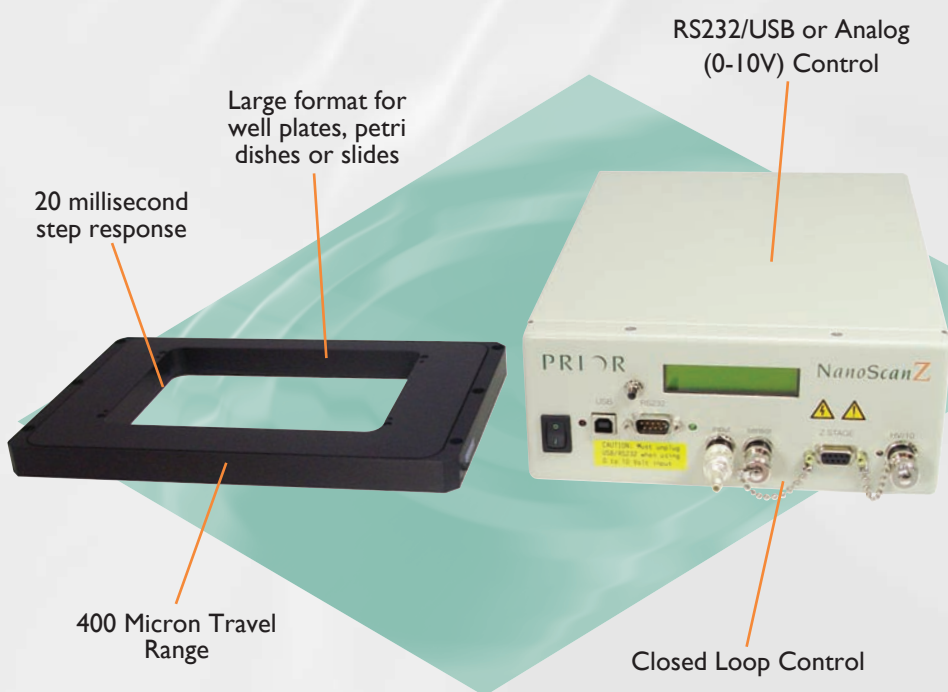


# NanoScanZ Nanopositioning Piezo Z 400 Micron Stage

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

## Features



Inset Photo: NanoScanZ Piezo 400 micron stage mounted on a Prior Scientific ProScan™III HI 17 motorized stage.

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Prior Scientific proudly introduces the latest innovation in microscope automation - the NanoScanZ Piezo Stage System. With 400 micron travel, the NanoScanZ is well suited for researchers producing rapid Z sections and 3D images of live cells and other specimens grown in well plates and other large sample dishes. The NanoScanZ stage systems offers nanometer level 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:

- 400 micron travel
- Large well plate format
- Nanometer level 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
- Compatible with DIC techniques
- 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;

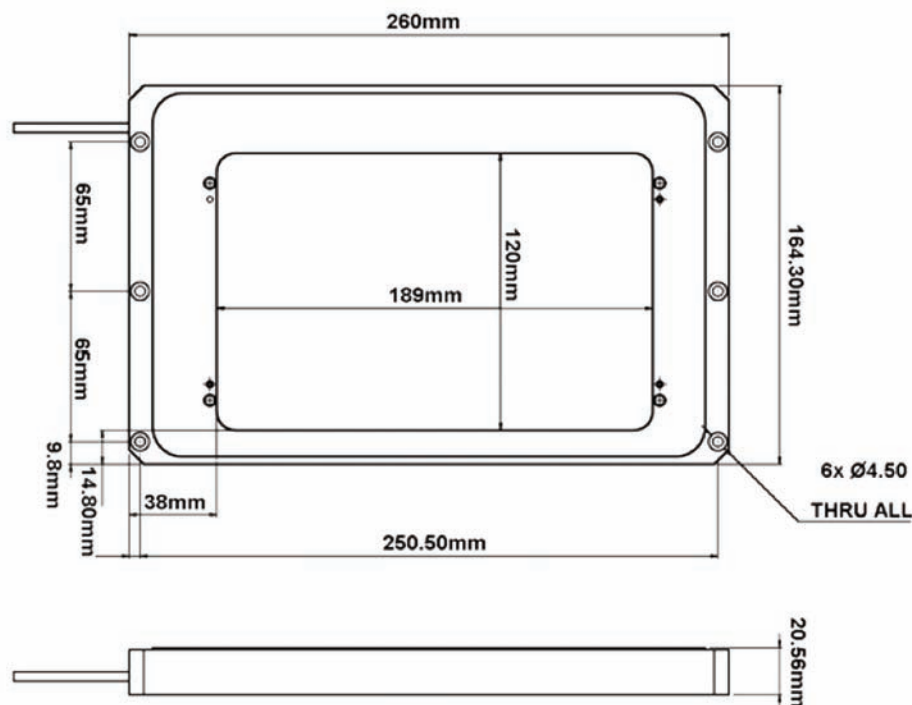
- Quicker movement and settling
- Flexibility to create Z stacks with multiple objectives
- No rotating wires to twist and break

Prior Scientific provides full support and service for the NanoScanZ and its entire product line through its professional and knowledgeable worldwide dealer network.

PRIOR SCIENTIFIC, INC.  
80 RESERVOIR PARK DRIVE  
ROCKLAND, MA 02370-1062  
TELEPHONE 781-878-8442



## Dimensions



## General Specifications

Feature	Specification
Range of Motion	400 micron
Repeatability	5 nanometer
Step Response	20 milliseconds
Accuracy/Linearity	0.5% of travel
Resonant Frequency	550 Hz (+/- 20%)
Inplane Tilt	20µrad 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
NZ400CE	Z Axis 400µm travel Piezo stage with closed loop nanodrive controller

### NZ400 Inserts:

Part Number	Product Description
NZ301	Microtitre plate holder (85 x 128mm) for NZ400
NZ302	Universal specimen holder (slides, petri dishes and small flasks) for NZ400
NZ303	Slide holder for one 76 x 26mm microscope slide for for NZ400
NZ304	Terasaki Plate Holder for for NZ400

PRIOR SCIENTIFIC, INC.  
80 RESERVOIR PARK DRIVE  
ROCKLAND, MA 02370-1062  
T: 781-878-8442  
E: INFO@PRIOR.COM

PRIOR SCIENTIFIC, LTD.  
CAMBRIDGE, UNITED KINGDOM  
T: +44 (0) 01223 881711  
E: UKSALES@PRIOR.COM

**PRIOR**  
scientific

PRIOR SCIENTIFIC GMBH  
JENA, GERMANY  
T: +49 (0)3641675650  
E: VETRIEB@PRIOR.COM

PRIOR SCIENTIFIC KK  
TOKYO, JAPAN  
T: +81 (0)3 5847 8213  
E: INFO-JAPAN@PRIOR.COM

**VISIT PRIOR ON THE WEB AT [www.prior.com](http://www.prior.com)**