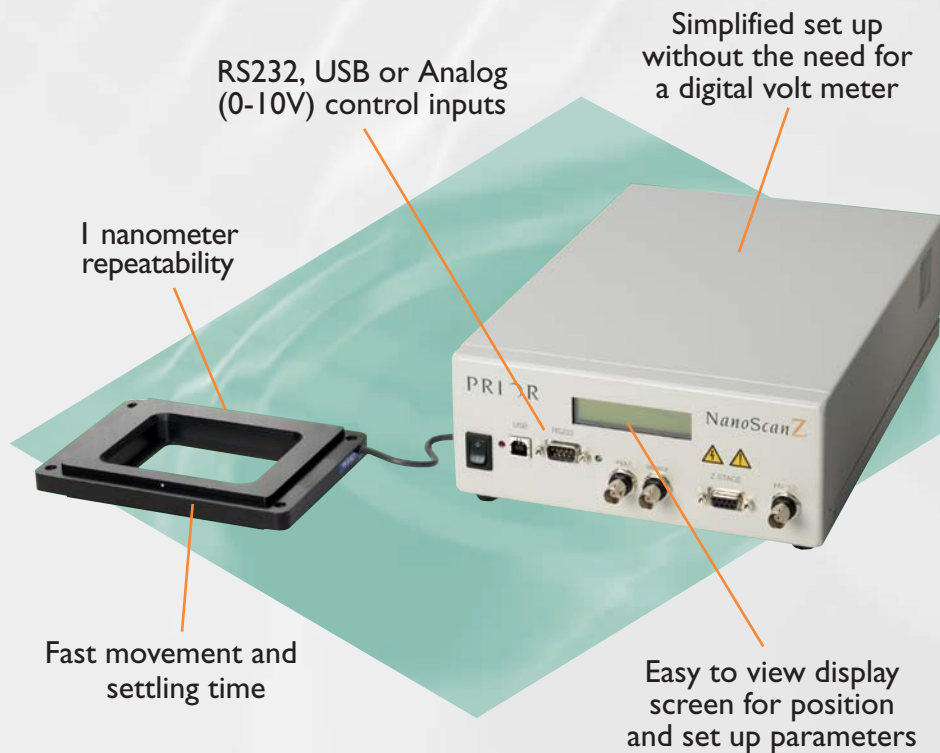


NanoScanZ Piezo Stage System

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 System. Specifically designed for researchers utilizing deconvolution and 3D imaging, the NanoScanZ features 100µm or 200µm travel, one nanometer repeatability and closed loop control utilizing a sub-angstrom resolution Piezo resistive sensor. The NanoScanZ optimizes the speed of the newest digital cameras and accomplishes in milliseconds what used to take seconds for conventional rotary focus drives.

The NanoScanZ features:

- 100µm or 200µm travel
- 1 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 drive 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;

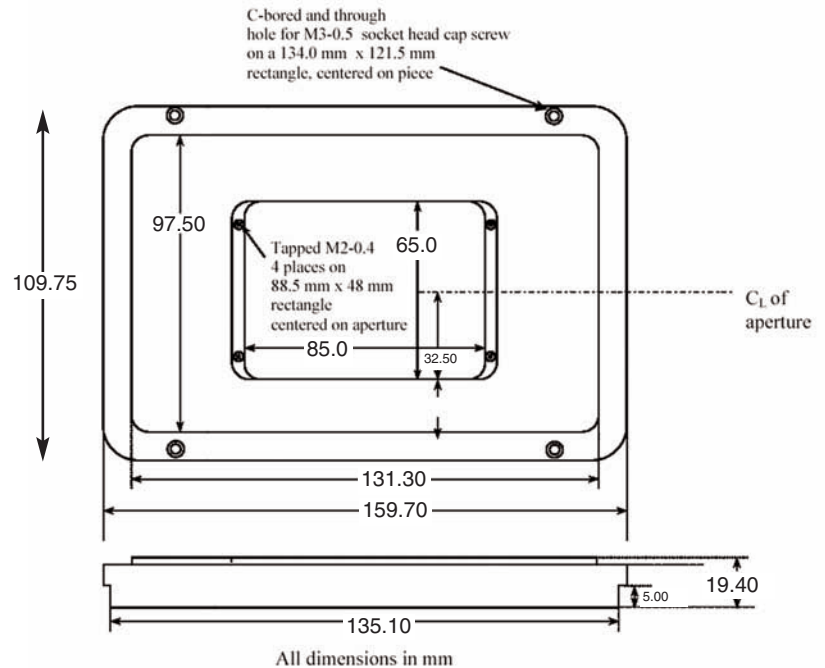
- Quicker movement and settling due to lower mass movement
- Flexibility to create Z stacks with multiple objectives
- No rotating wires to twist and break

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

General Specifications

Feature	Specification
Range of Motion	100µm & 200µm
Repeatability	1nm
Bandwidth	200Hz
Accuracy/Linearity	0.5% of travel
Maximum Load	500 grams
Resonant Frequency	1 KHz
Inplane Tilt	10µrad typical
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

Dimensions



Ordering Information



Closed loop nanodrive controller and NanoScanZ Piezo Stage System



NanoScanZ Piezo Stage installed on a HI17 Flat top motorized stage



NanoScanZ Piezo Stage with adapter plate installed on a manual stage

Z Axis Piezo Stages:

Part Number	Product Description
NZ100CE	Z Axis 100µm travel Piezo stage with closed loop nanodrive controller
NZ200CE	Z Axis 200µm travel Piezo stage with closed loop nanodrive controller

NZ100 Inserts:

Part Number	Product Description
H471	Single slide holder for the NZ100 stage
H472	35mm Petri dish slide holder for the NZ100 stage
EMIPZI	Adapter plate for the NZ100 stage for use with manual stages

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Specifications subject to change without notice.