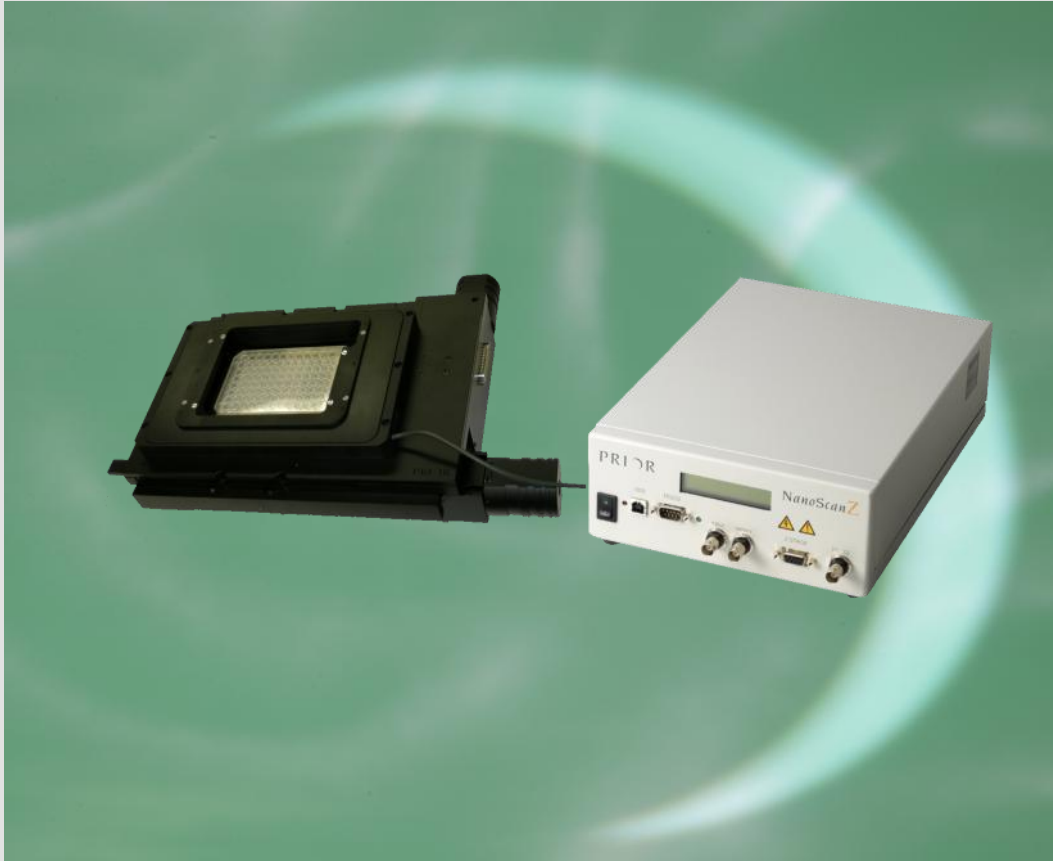


# NanoScanZ 400

## Fast Piezo Focusing Stage



The NanoScanZ from Prior Scientific offers researchers unprecedented levels of performance and convenience when fast and precise control of the Z Axis is required.

Ideally suited to Z-Stacking applications, particularly those involving live cells, the NanoScanZ brings a new dimension to deconvolution, 3D reconstruction and confocal microscopy.

Unlike traditional piezo focusing devices that move a single objective lens, the NanoScanZ can be used with all nosepiece positions. This ensures no loss of parfocality. It is also possible to continue using DIC as a contrasting technique when using NanoScanZ.

### Compatible with the ProScan H117 range of stages

#### NanoScanZ Features:

- Travel range 400 micron
- Accuracy 0.5% of travel
- Linearity 0.5% of travel
- 5nm Repeatability
- Interchangeable Sample Holders
- High Precision closed loop feedback
- Compatible with ProScan Controllers and motorised stages
- Can be driven by any software supporting piezo objective collars
- Any size movement complete in 20ms
- Fully CE compliant
- LCD Display showing current position
- RS232 and USB control.

Part Number	Movement Range	Suits Sample Sizes
NZ400	400um	26x76mm Slides and up to 70mm Petri dishes, Microtitre or Well plates, (85x 128mm).

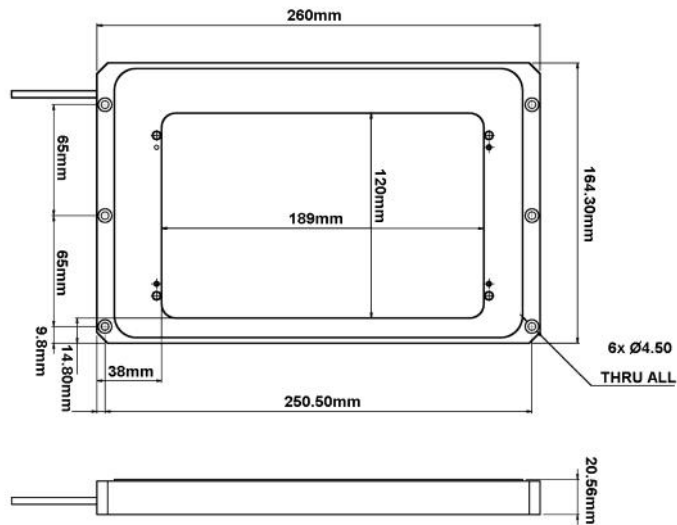
# Specifications

Feature	Specification	Feature	Specification
Operating Temperature Range	5 to 50°C	Range of Motion	400 micron
Body Material	Anodised Aluminium	Repeatability	2.5nm
Stage Control Input	Analogue (0-10 Volt DC) USB RS232 from ProScan H30 Controller	Accuracy/Linearity	0.5% of Travel
Power Requirement	90-240 Volt AC	Maximum Load	500g
Output Position Signal	0.0-10.0 Volt DC	Resonant Frequency	200 Hz (+/-20%)
		Inplane Tilt	15 µrad (typical)

Specifications are subject to change without notice.

# Compatibility

## Outline dimensions



## Available Inserts

Part Number	Description
NZ301	Microtitre Plate Holder ( 85 x 128mm )
NZ302	Universal Specimen Holder (Slides, Petri Dishes and Small Flasks)
NZ303	Slide Holder for one 76 x 26mm Microscope Slide
NZ304	Terasaki Plate Holder
-	Incubator for Well Plates, Petri dishes, Chamber or Standard Slides.

NanoScanZ is compatible with ProScan H117 motorised stages for the following instruments;

- **Zeiss AxioVert 200/AxioObserver**
- **Olympus IX51/71/81**
- **Nikon TE2000/TI**
- **Leica DMIRB/ DMI4000/5000/6000**

NanoScanZ can also be mounted onto a number of the manual stage supplied with the instruments mentioned above. This requires an adapter plate supplied by Prior. The NanoScanZ stage is also compatible with the H101 range of ProScan stages for upright microscopes. Contact your local Prior dealer for the full range of microscopes supported.

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