

## H107 Stage

### High Precision Motorized Stage for Inverted Microscopes

Minimum step size (resolution) of the stage is 0.04 microns, depending on the controller configuration

Travel 112mm x 70mm



Stage inserts for slides, petri dishes, microtitre plates, well plates, flasks, metallurgical specimens, slides and haemocytometers

Whether you are performing scanning on an inverted microscope for biomedical or material science applications the H107 high precision stage is the solution. The H107 adapts to virtually any inverted microscope or optical system. It allows you to perform scanning using a very broad range of sample holders, including microtitre plates, slide holders, petri dishes, well plates, flasks, haemocytometers and metallurgical sample holders. This stage offers a unique combination of precision and flexibility. The H107 ProScan stage incorporates the patented - Intelligent Scanning Technology®. In conjunction with extensive testing, Intelligent Scanning Technology (IST) allows each stage to be pre-programmed with a unique set of operating characteristics particular to that stage to ensure optimum performance. IST allows the ProScan controller to make any required adjustments to maintain superior orthogonally and metric accuracy.

The H107 features:

- Travel 112mm x 70mm
- Optional 100nm linear scales provide the highest precision available
- Minimum step size (resolution) of the stage is 0.04 microns, depending on the controller configuration
- Stages customized to any microscope or mount
- Stage inserts for slides, petri dishes, microtitre plates, well plates, flasks, metallurgical specimens, slides, and haemocytometers

#### General Specifications

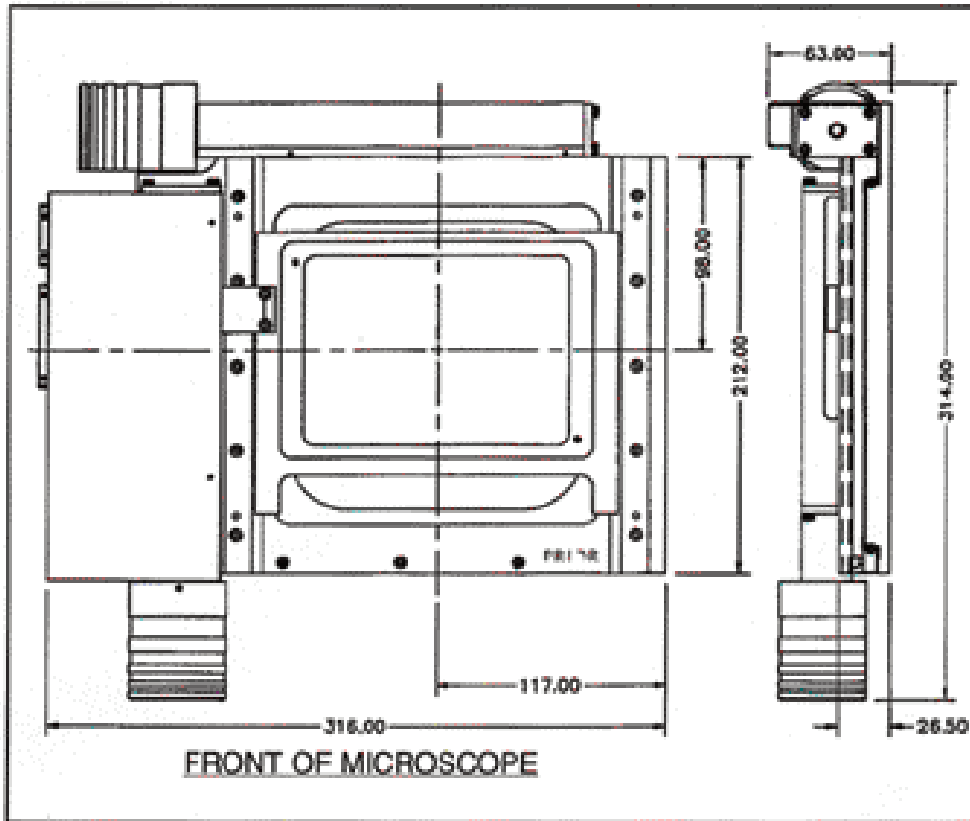
- Travel Range: 112mm x 70mm
- XY Repeatability\*:  $\pm 1.0\mu\text{m}$  (micrometer)
- Minimum Step Size (Resolution):  $0.04\mu\text{m}$
- Load Capacity: 10kg
- Stepper motor: 4 phase, 1 amp per phase, micro stepping
- Linear Slides: Precision 3mm bearings

- Drive Screws: Zero backlash, recirculating ball screws; 2mm pitch
- Limit Switches: X and Y standard
- Stage Profile: Approximately 25mm with glass plate installed
- Weight: 3.5kg
- Finish: Electro-phoretic black plate

## H107 Stage

High Precision Motorized Stage for Inverted Microscopes

### Drawing



### H107 Specifications

Specification	Details
Maximum Travel Range	112mm x 70mm
Minimum Step Size	0.04µm
XY Repeatability*	+/-1.0µm
Load Capacity	10kg
Stepper Motor	4 phase, 1amp per phase micro stepping
Linear Slides	3mm precision bearings
Drive Screws	Zero backlash, recirculating ball screws; 2mm pitch

\*Specifications valid only if used with Prior Controller.



### Ordering Information

Part Number	Description
H107A_NN	Stage with 2mm pitch screws
H107A_N1	Stage with 2mm pitch screws with scales
H107C_NN	Stage with 1mm pitch screws
H107C_N1	Stage with 1mm pitch screws with scales

Please specify type of microscope at time of order.