

# H107 Stage

## 4"x3" Travel, Programmable, Motorized Stepper Stage for Inverted Microscopes

### Features

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

Travel 112 mm x 70 mm (4" x 3")



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, Prior has a precision programmable stage for you: the H107. 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™II 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™II controller to make any required adjustments to maintain superior orthogonally and metric accuracy.

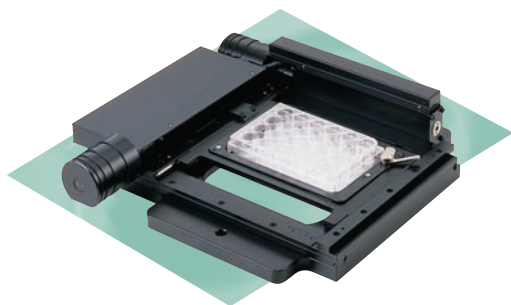
The H107 features:

- Travel 112 mm x 70 mm (4" x 3")
- 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

For the H107 and all its products, Prior provides full support and service both direct and indirect – through a professional, knowledgeable and extensive dealer network.

(U.S. Patent 7,330,307)

# H107 Stage



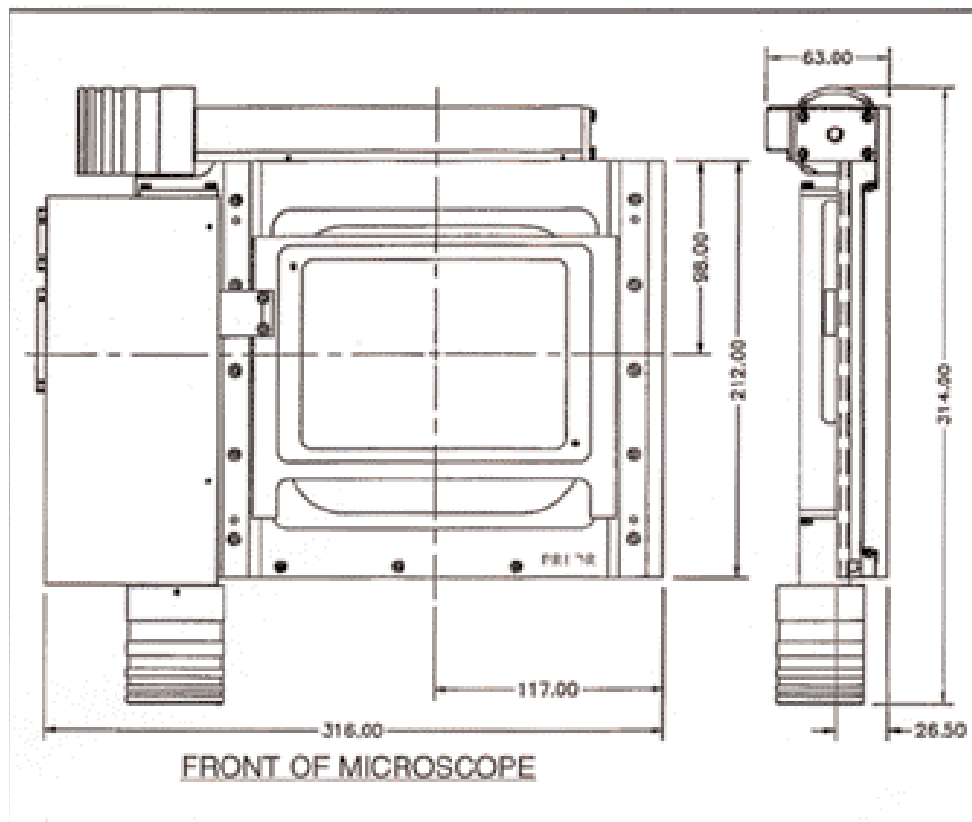
**4"x3" Travel,  
Programmable,  
Motorized Stepper Stage  
for Inverted Microscopes**

## Standard Sample Holders

<b>H223R</b>	Microtitre Plate 128 x 86 mm
<b>H224R</b>	Single Slide Holder - Recessed - 1" x 3"
<b>H237R</b>	Single Slide Holder - Recessed - 2" x 3"
<b>H656</b>	Single 1.25" Diameter - Metallurgical Sample
<b>H657</b>	Single 2.0" Diameter - Metallurgical Sample
<b>H658</b>	Six 1.25" Diameter - Metallurgical Sample
<b>H659</b>	Single 1.5" Diameter - Metallurgical Sample
<b>H229</b>	Petri Dish, Specify Diameter
<b>H23x</b>	Flask, Specify Size
<b>H2xx</b>	Custom Sample

## Ordering Information

<b>Stage:</b>	
<b>H107</b>	Specify Microscope Make and Model
<b>Options:</b>	
<b>H107/E</b>	Rotary Encoders
<b>HK07</b>	Manual Override Knobs
<b>H107NENK</b>	Add Linear Encoders Nikon TE 200/300
<b>H107PENK</b>	Add Linear Encoders Olympus IX
<b>H107ZENK</b>	Add Linear Encoders Zeiss Axiovent 200
<b>H107LENK</b>	Add Linear Encoders Leica DMIR



\*Note: Above dimensions and configurations are different for each microscope.

## General Specifications

### Travel Range

112 mm x 70 mm (4" x 3")

### XY Repeatability\*

± 1 µm (micrometer)

**Minimum Step Size (Resolution)** 0.04 µm

**Load Capacity** 10 kg

### Stepper Motor

4 phase, 1 amp per phase, micro stepping

### Linear Slides

Precision 3 mm bearings

### Drive Screws

Zero backlash, recirculating ball screws; 2 mm pitch

### Limit Switches

X and Y standard

### Stage Profile

Approximately 25 mm (1.0") with glass plate installed

### Weight

3.5 kg (7.7 lbs)

### Finish

Electrophoretic black plate

\*Specifications valid only if used with Prior Controller.

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Specifications subject to change without notice.