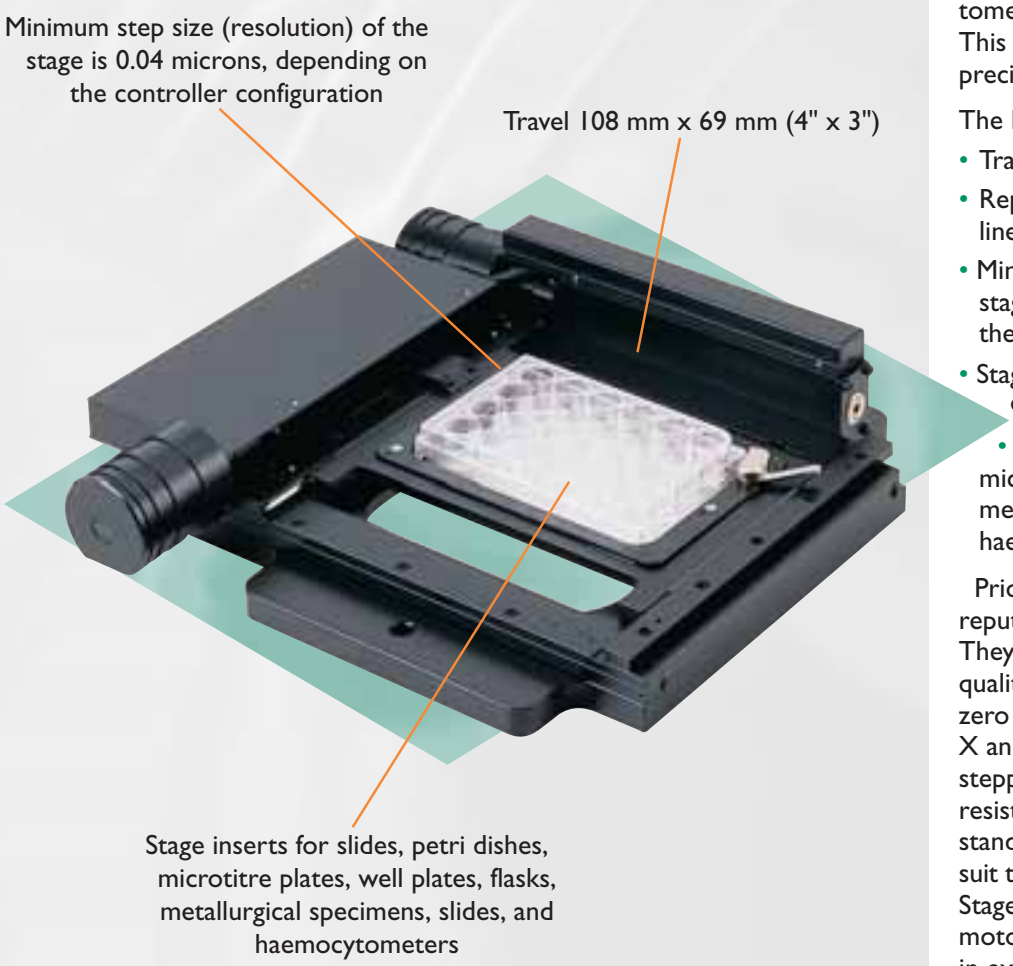
PRIOR
Scientific

H107 Stage

4”x3” Travel, Programmable, Motorized Stepper Stage for Inverted Microscopes

Features



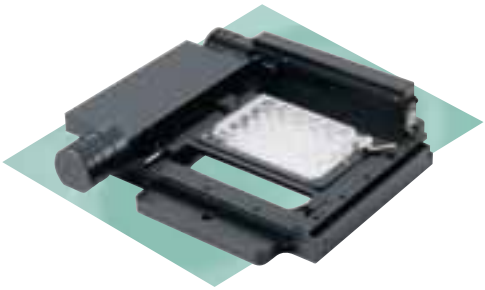
Whether you are performing scanning on an inverted microscope for biomedical or material science applications, Prior has a precision programmable stage for you: the H107. The H107 adapts to virtually any inverted microscope or optical system. It allows you to perform scanning using a very broad range 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 features:

- Travel 108 mm x 69 mm (4" x 3")
- Repeatability to 0.3 microns with linear scales
- 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

Prior stages have a well-deserved reputation for quality and repeatability. They are manufactured using the highest quality components: crossed roller ways, zero backlash recirculating ball screws, X and Y limit switches, two high precision stepper motors-even a tough scratch resistant coating. They are available with standard and custom sample holders to suit the user’s application and requirements. Stages can be driven by the Prior series of motor controllers or compatible systems in existing OEM configurations. The controller can be accessed via RS-232 serial port or with an optional joystick or keyboard. 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.

H107 Stage



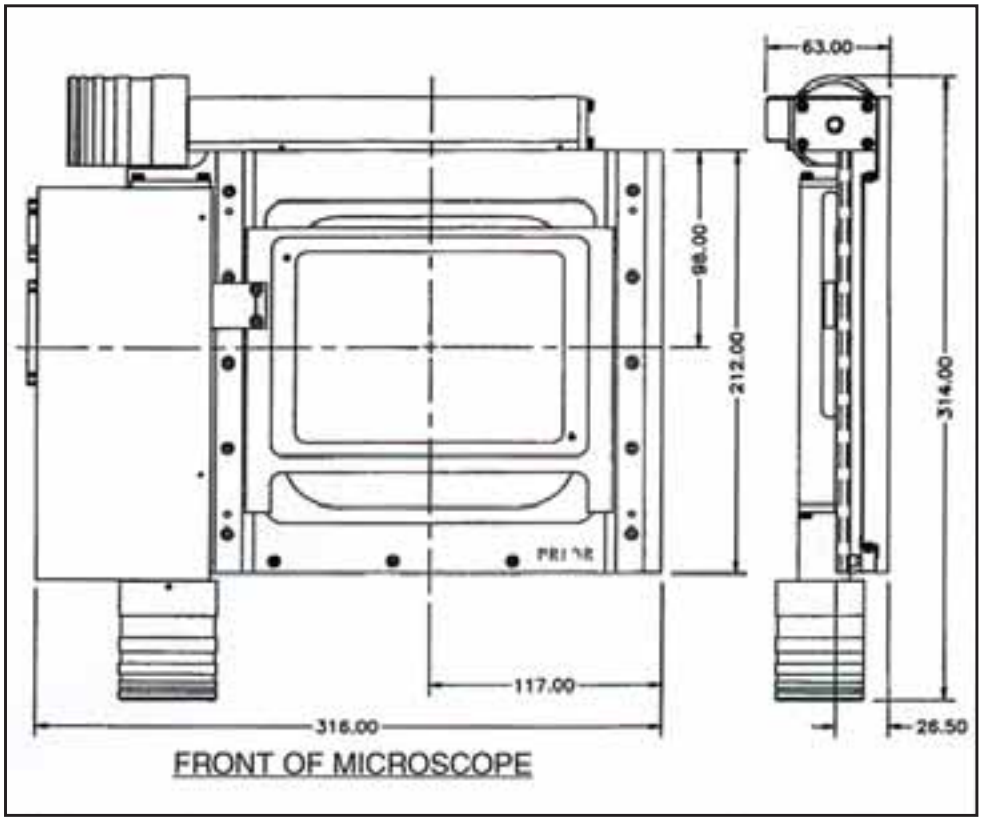
4"x3" Travel, Programmable, Motorized Stepper Stage for Inverted Microscopes

Standard Sample Holders

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

Ordering Information

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



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

General Specifications

Travel Range
108 mm x 69 mm (4" x 3")

Repeatability*
± 1 µm (micrometer)
± 0.3 µm (micrometer) with linear encoders

Minimum Step Size (Resolution) 0.04 µm

Load Capacity 10 kg

Stepper Motor
4 phase, 1 amp per phase, micro stepping

Linear Slides
Crossed 3 mm roller 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

Accuracy
± 3 µm, open loop to ± 1 µm with optional linear scales

Flatness
5 µm

*Specifications valid only if used with Prior Controller.

PRIOR
Scientific

Prior Scientific Instruments Limited,
Unit 4, Wilbraham Road, Fulbourn,
Cambridge CB1 5ET
Telephone 01223 881711
Fax 01223 881710

Prior Scientific Inc.,
80 Reservoir Park Drive,
Rockland, MA 02370-1062
Telephone 781-878-8442
Fax 781-878-8736

Visit Prior On The Web at www.prior.com