

# H101 Stage

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

## Features



Now add the highest quality, precision motorized stepper stage to your upright laboratory microscope: the Prior ProScan. The H101 is one of a full range of ProScan motorized stages from Prior Scientific adaptable to virtually any microscope or optical system. With the H101, you can increase your labor efficiency by automatically scanning your specimens and storing points for later recollection and inspection with unmatched repeatability. Perform scanning or inspection of slides, microtitre trays, semiconductor wafers, or metallurgical specimens in any sort of pattern, including raster, snake and random.

The H101 features:

- Travel 108 mm x 71 mm (4" x 3")
- Repeatability to  $\pm 0.3$  micron with optional linear scales
- Minimum step size (resolution) of the stage is 0.04 microns
- Standard stages are customized to any microscope or mount
- Stage inserts for slides, petri dishes, microtitre and Terasaki trays

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 H101 and all its products, Prior provides full support and service both direct and indirect – through a professional, knowledgeable and extensive dealer network.

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## Standard Sample Holders



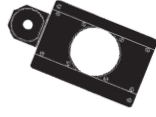
**Glass Plate**



**Single Slide Holder**



**Four Slide Holder**



**Motorized Rotating Holder**



**Custom Configurations**

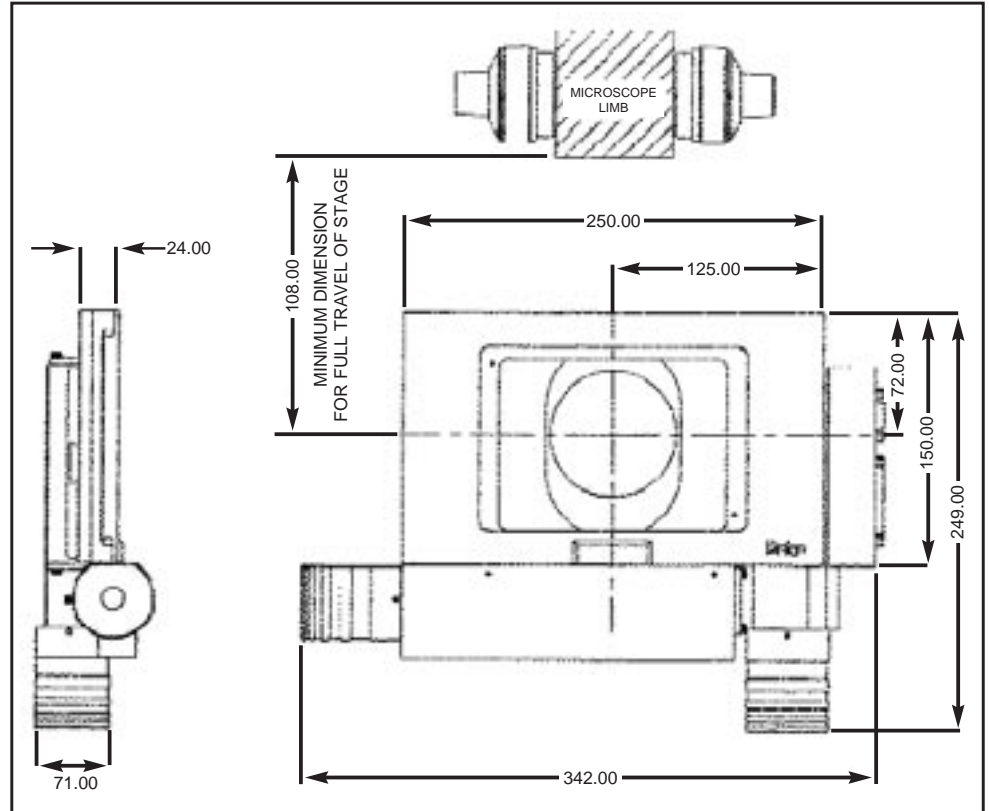
## Ordering Information

**Stage:**  
**500-H101** Specify Microscope Make and Model

**Sample Holder:**  
**500-H220** Glass Plate  
**500-H224** Single Slide 1"x3"  
**500-H237** Single Slide 2"x3"  
**500-H234** Four Slide  
**500-H240** Motorized Rotating Holder

**500-H2xx** Custom Sample  
**500-H230** Aluminum Plate

**Options:**  
**500-HK01** Manual Override Knobs  
**500-H101JENK** Linear Encoders



Dimensions in millimeters.

## General Specifications

<b>Travel Range</b>	108 mm x 71 mm (4" x 3")	<b>Stage Profile</b>	Approximately 25mm (1.0") with glass plate installed
<b>Repeatability*</b>	±1 µm (micrometer) ±0.3 µm with linear scales	<b>Weight</b>	3.0 kg (6.6 lbs)
<b>Minimum Step Size (Resolution)</b>	0.04 µm	<b>Finish</b>	Electrophoretic black plate
<b>Load Capacity</b>	10 kg	<b>Accuracy</b>	±3 µm open loop, 1.0 µm linear scales optional
<b>Stepper Motor</b>	4 phase, 1 amp per phase, micro stepping	<b>Flatness</b>	5 µm
<b>Linear Slides</b>	Crossed 3 mm roller bearings		
<b>Drive Screws</b>	Zero backlash, recirculating ball screws; 2 mm pitch		
<b>Limit Switches</b>	X and Y standard		

\*Specifications valid only if used with Prior Controller.

**PRIOR**  
 Scientific

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**VISIT PRIOR ON THE WEB AT [www.prior.com](http://www.prior.com)**

Specifications subject to change without notice.