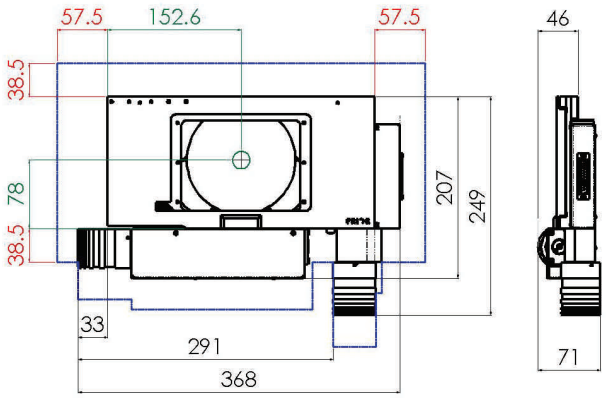
H101A *ProScan Upright Stage*

114mm x 75mm Travel, Motorised Scanning Stage for Upright Research Microscopes.

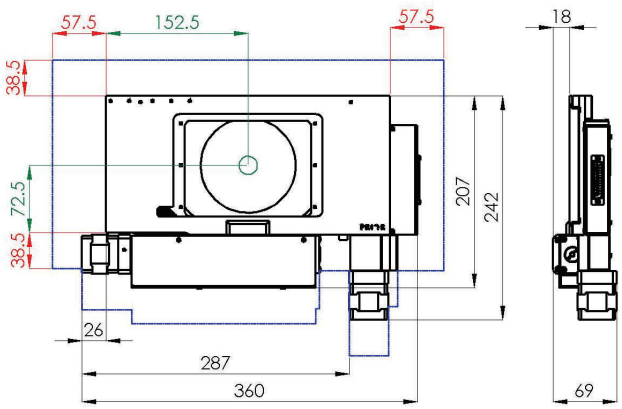
Use our online configurator to select the full part number for your microscope.
http://www.prioruk.com/configurator/configurator.html

Dimensions

Type 1



Type 2



The H101A is part of a full range of Pro-Scan III stages designed to fit most upright microscopes. The basic stage has a adaptation system to allow one universal stage to fit many microscopes.
Select the most appropriate model of H101A stage from the options overleaf with a choice of Ball Screw diameter motor type and linear encoders.
The H101A has specimen holders for up to four standard slides, semiconductor wafers, metallurgical specimens, Microtitre plates and Petri dishes.

Incorporates Prior IST system.

H101A Features:

- Travel Range 114mmx75mm
- Low Profile Sample Holders
- <1um Resolution
- +/-0.7um Repeatability and Better
- Interchangeable Sample Holders
- Choice of High Precision Ball Screw
- Anti-Backlash Mechanism
- Adjustable Limit Switches
- Choice of Motor Type
- Accepts Linear Encoders
- RS232 and USB Control
- Compatible with most third party software

Prior motorised stages have a reputation for quality and performance. As an ISO 9001:2000 accredited company Prior equipment is designed and manufactured to the highest quality standards. Prior provides full support and service both direct and indirect through a professional, knowledgeable and extensive global dealer network.
GB Patent No. 2411249
US Patent No. 7330307

Specifications

	H101A	H1P1A	H1P4A	HE01A	HEP1A	HEP4A	Units
Performance							
**Bi-Directional Repeatability (Average Performance)	+/- 2.2(1.3)	+/- 2.0 (1.0)	+/- 2.0(0.9)	+/- 1.5 (0.8)	+/- 1.5 (0.8)	+/- 1.5 (0.6)	um
**Uni-Directional Repeatability (Average Performance)	+/- 0.7 (0.2)	+/- 0.7 (0.2)	+/- 0.7 (0.2)	+/- 0.7 (0.2)	+/- 0.7 (0.2)	+/- 0.7 (0.2)	um
Minimum Step Size	0.04	0.02	0.01	0.04	0.02	0.01	um
Recommended Speed (Maximum Speed)	40 (100)	20 (50)	15 (25)	40 (100)	20 (50)	15 (25)	mms^{-1}
*Metric Accuracy (per mm of travel) (Average Performance)	0.2 (0.06)	0.2 (0.059)	0.2 (0.059)	0.2 (0.057)	0.2 (0.046)	0.2 (0.046)	um
Specifications							
Maximum Travel Range	114x75	114x75	114x75	114x75	114x75	114x75	mm
Maximum Load	10	10	10	10	10	10	kg
Squareness	30	30	30	30	30	30	arc sec
Weight	5	5	5	5	5	5	kg
Type	1	1	2	1	1	2	
Ball Screw Pitch	2	1	1	2	1	1	mm
Motor Type	200	200	400	200	200	400	***S.P.R
Encoders	No	No	No	0.1	0.1	0.1	um res

Requires the use of a Prior ProScan™ II or above controller and are based on Prior method of testing.
*Based on performance with IST enabled, and measured over the full travel of stage.
**Using a Prior ProScan™ controllers with backlash correction enabled, all repeatability is Uni-directional.
***S.P.R: Full steps per revolution of motor.

Controller Options

Patented Intelligent Scanning Technology (IST):
The ProScan™ III controller and stage include as standard IST which significantly improves the metric accuracy of the ProScan™ stage.

ProScan™ III Ordering Information:
V31XYZ for Stage and Focus control order and **V31XYZE** for encoded stages.
To add functionality for Filter wheels and shutter **V31XYZF** and **V31XYZEF** for encoded stages.
For the horizontally stacking version use **H** as the first character of the part numbers above.
Dimensions: 177x177x177mm (4U)

Prior Interactive Control Centre.

PS3J100 local control centre provides positional feedback and the ability to measure distances. The stage can be controlled either via the Joystick or via fine individual X and Y control knobs.

CERTIFICATE NO: FM 61600
STANDARD: BS EN ISO 9001:2000

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PN: DS08007 Ver 1 Issue 01/12/09