

H138A ProScan Upright Stage

240mm x 71mm Travel, Motorised Scanning Stage for Upright Research Microscopes.



The H138A is part of a full range of ProScan II stages designed to fit most upright microscopes. With the H138A you can automatically scan up to eight standard slides and store points for later recollection and inspection with unmatched repeatability. Sample holders can be released quickly and easily interchanged to increase processing speed.

The H138A has specimen holders for up to eight standard slides, semiconductor wafers.

Manufactured to the highest quality with crossed roller ways, zero backlash recalcuating ball screws, X and Y limit switches, and high precision stepper motors.

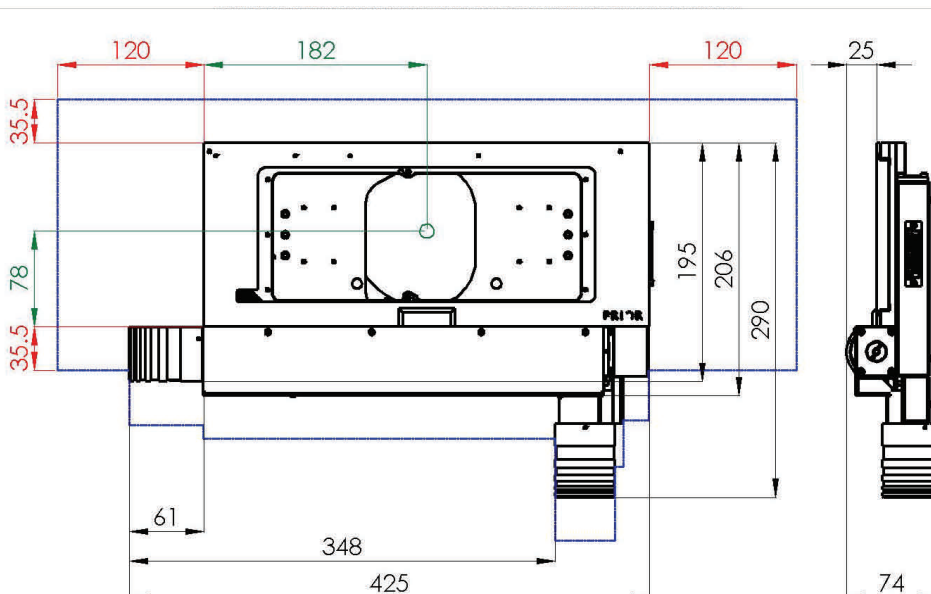
Incorporates Prior IST system.

H138A Features:

- Sample Holder for Eight Slides
- <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

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

Dimensions



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

H138A Specifications

	H138A	HIP8A	HE38A	HEP8A	Units
Performance					
**Bi-Directional Repeatability (Average Performance)	+/- 2.2(1.0)	+/- 2.0	+/- 1.5	+/- 1.5	um
**Uni-Directional Repeatability (Average Performance)	+/- 0.7 (0.2)	+/- 0.7	+/- 0.7	+/- 0.7	um
Minimum Step Size	0.04	0.02	0.04	0.02	um
Recommended Speed (Maximum Speed)	40 (100)	20 (50)	40 (100)	20 (50)	mms ⁻¹
*Metric Accuracy (per mm of travel) (Average Performance)	0.075 (0.024)	0.075	0.075	0.075	um
Specifications					
Maximum Travel Range	240x71	240x71	240x71	240x71	mm
Maximum Load	10	10	10	10	kg
Squareness	60	60	60	60	arc sec
Weight	5	5	5	5	kg
Type	1	1	1	1	
Ball Screw Pitch	2	1	2	1	mm
Motor Type	200	200	200	200	***S.P.R
Encoders	No	No	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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