

H138A Stage

Multi-slide motorised stage for upright microscopes



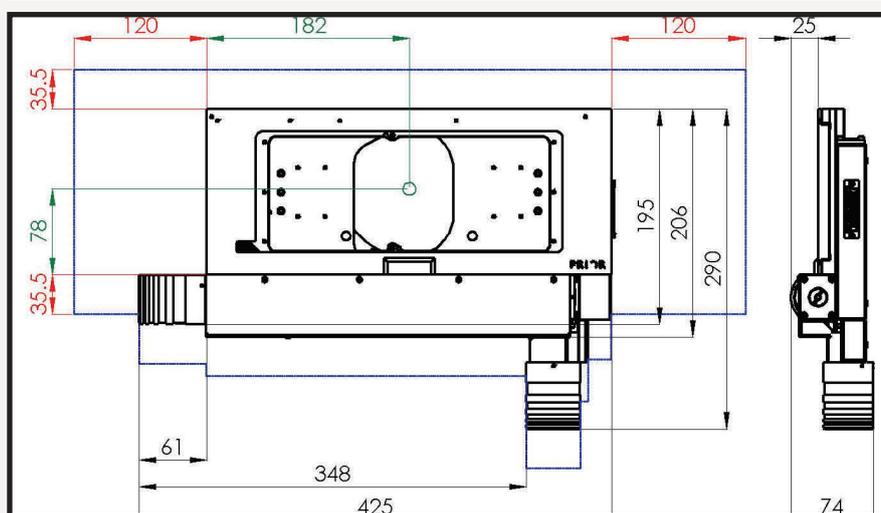
Designed to fit most upright microscopes, the H138A ProScan™ stage is designed to increase the speed at which images and data are obtained, whilst retaining the precision and reliability associated with a product from Prior Scientific. Points can be stored and returned to later with extremely high accuracy and reliability, especially when the slide is used with the ProScan™ control system.

- Sample holder can hold eight standard sized slides, increasing the speed of image acquisition and processing.
- $< 1 \mu\text{m}$ resolution and $\pm 0.7 \mu\text{m}$ repeatability (or better) allows accurate imaging of, and return to, areas of interest
- Can be incorporated into the ProScan™ system, allowing control of illumination and the Z axis, as well as the XY control offered by the stage for tight and precise control over the whole imaging process.
- Controllable via joystick, RS232 or USB.
- Choice of motor type and high precision ball screw available, with an option to add a linear encoder.
- XY limit switches allow the stage to be integrated safely with your specific set-up.
- Anti-backlash mechanism enhances accuracy.

H138A

Multi-Slide Motorised Stage for Upright Microscopes

Dimensions



Performance and Specifications

Performance*	H138A	H1P8A	HE38A	HEP8A	Unit
Bi-directional repeatability (Average performance)	± 2.2 (1.1)	± 2	± 1.5	± 1.5	µm
Uni-directional repeatability (Average performance)	± 0.7 (0.2)	± 0.7	± 0.7	± 0.7	µm
Minimum step size	0.04	0.02	0.04	0.02	µm
Recommended Speed (Maximum speed)	40 (100)	20 (50)	40 (100)	20 (50)	mm/s
Metric accuracy per mm of travel (Average performance)	0.075 (0.024)	0.075	0.075	0.075	µm
Specifications					
Maximum travel range	240 x 71	240 x 71	240 x 71	240 x 71	mm
Maximum load	10	10	10	10	kg
Squareness	60	60	60	60	arc sec
Weight	5	5	5	5	kg
Ball Screw Pitch	2	1	2	1	mm
Motor Type	200	200	200	200	SPR**
Encoders	No	No	0.1	0.1	µm res

*Obtaining these figures requires the use of a ProScan™ II or above controller. All values are based on the Prior method of testing, using a Prior ProScan™ controller, with backlash correction and IST enabled measured over the full travel of the stage. All repeatability is uni-directional.

** SPR - full Steps Per Revolution of motor

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