

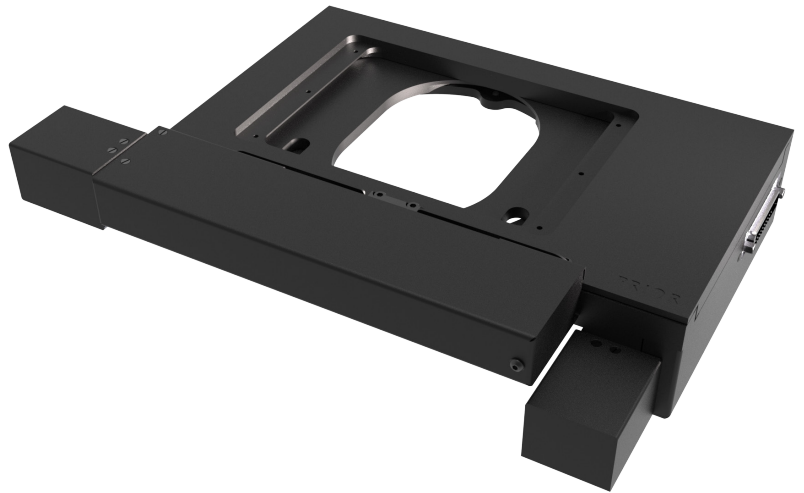
H100A

Compact motorized stage for upright microscopy

The H100A motorized XY stage provides a cost effective way of accessing ProScan-level high performance accuracy and repeatability with many commercial microscopes.

Each individual H100A is tuned with specific parameters that optimize its overall performance, making it equally well suited to higher magnification basic microscopy or higher end imaging techniques, in an efficiently sized format ideal for typical microscopy samples such as slides, filter papers or polished metrology samples. The H100A's low mass compared to the other stages also makes it a good choice for smaller microscope frames.

Its small footprint is ideal for integration into optical table-based experimental setups and OEM instruments. Its 1 mm ball screw and 200 step motors provide an excellent balance of speed and precision for most applications.



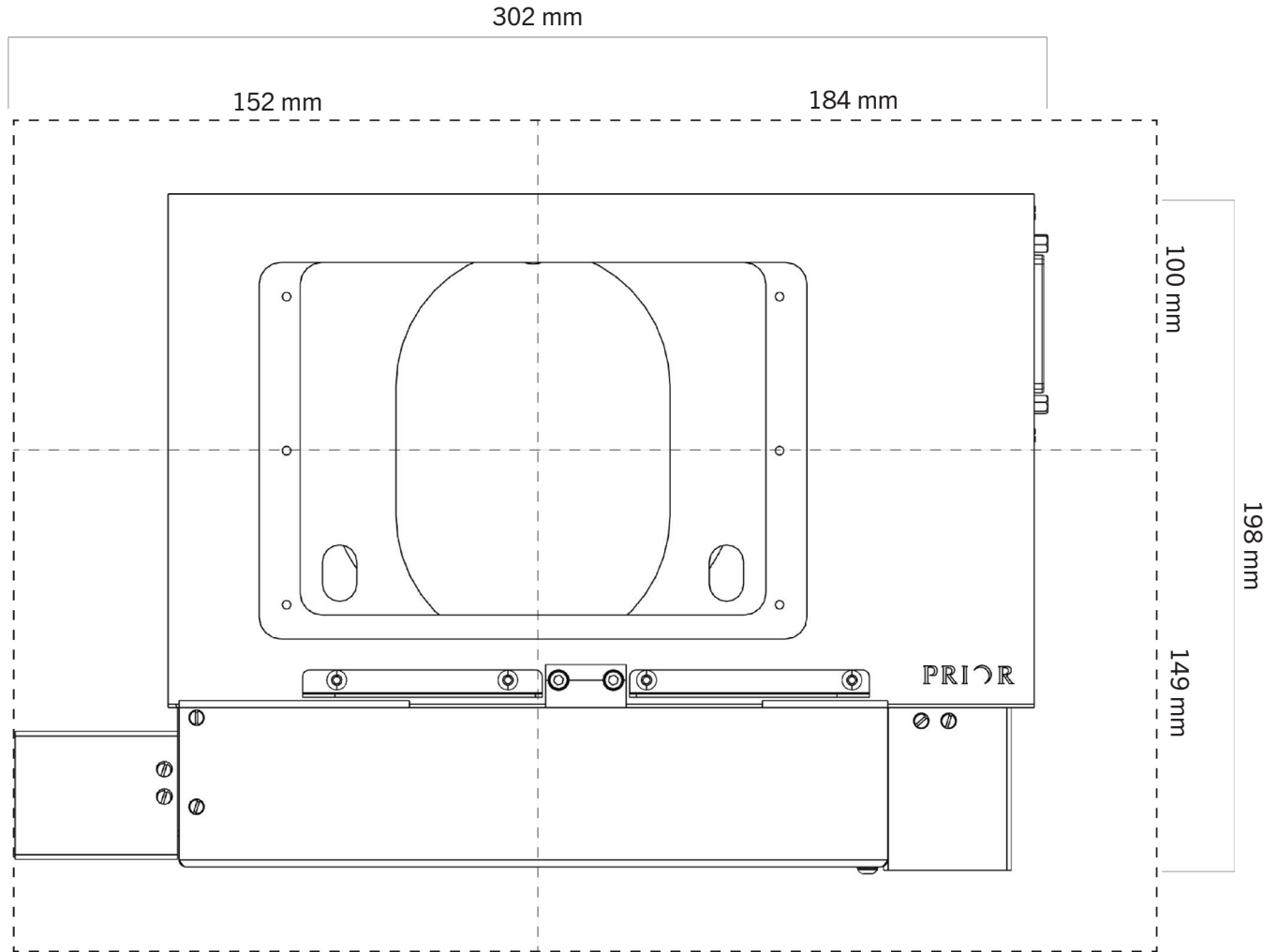
Key Features

- Compact size ideal for installation into OEM projects.
- ProScan-level precision and accuracy at a lower price.
- Intelligent Scanning Technology™ for accuracy and linearity.
- Variety of sample holders available to accommodate a range of specimen types.
- Compatible with many pieces of commercial microscopy software.

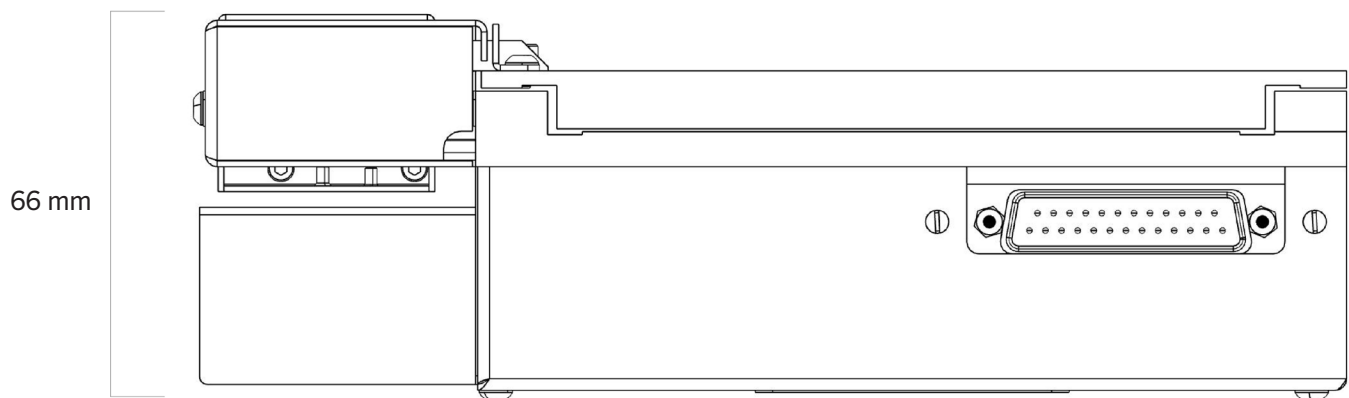
Applications

- Slide scanning
- Industrial imaging
- Fluorescence microscopy

Dimensions*



*Outer dotted line shows the maximum footprint of the stage when at the limits of travel.



Specifications

H100A

Travel range	75 mm x 50 mm
Unidirectional repeatability ¹	<0.7 µm
Bidirectional repeatability ¹	<1.9 µm
Metric accuracy ¹	<0.09 µm/mm
Full travel metric accuracy	<7.2 µm
Resolution ²	0.02 µm
Squareness ¹	<35 arcsec
Maximum velocity ³	30 mm/s
Maximum load	5 kg
Encoders	No
Motor type	200 step
Screw pitch	1 mm
Weight	2.5 kg

1. As per Prior Scientific's test methodology, typical value.

2. Defined as the minimum motor step resolution for non-encoded stages.

3. At maximum velocity setting when using a ProScan III controller. Actual maximum speed is dependent on sample mass and acceleration settings.

Ordering Information*

Part Number	Description
H100A	ProScan® stage for upright microscopes, with travel range of 75 x 50 mm, 1 mm pitch ball screw and 200 step motors.
H100BX	ProScan® stage for Evident/Olympus BX-series microscopes, with travel range of 75 x 50 mm, 1 mm pitch ball screw and 200 step motors.
H100WM	ProScan® stage for Motic BA310 microscope, with travel range of 75 x 50 mm, 1 mm pitch ball screw and 200 step motors.
H100NLV	ProScan® stage for Nikon LV100/150 microscopes, with travel range of 75 x 50 mm, 1 mm pitch ball screw and 200 step motors.

*Many more options for commercial microscopes are also available. See our website, or contact Prior, for a full list of options.

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