PRIOR®
Scientific

H117N1XD / H117E1XD STAGE

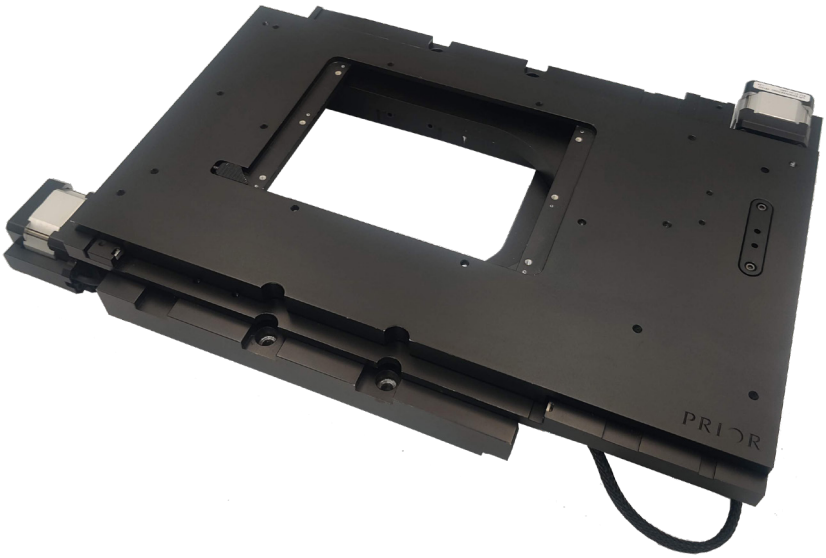
Motorized stage for Evident/Olympus IX3 series microscopes

The H117N1XD and H117E1XD inverted stages are designed for use with Evident/Olympus IX73 and IX83 microscopes.

The flat top design facilitates compatibility with many stage top incubation systems and positioning of peripheral equipment around sample for complex imaging operations.

Featuring Prior's patented Intelligent Scanning Technology (IST) to optimize stage accuracy, linearity and other performance characteristics, and being directly compatible with NanoScan SP Series piezo stages, the H117N1XD and H117E1XD are ideal for high end life science imaging.

Whilst the stages are typically configured with a 1mm pitch ballscrew and 400 step motor for maximum resolution, alternative drive configurations focusing on speed may be available depending on your region.



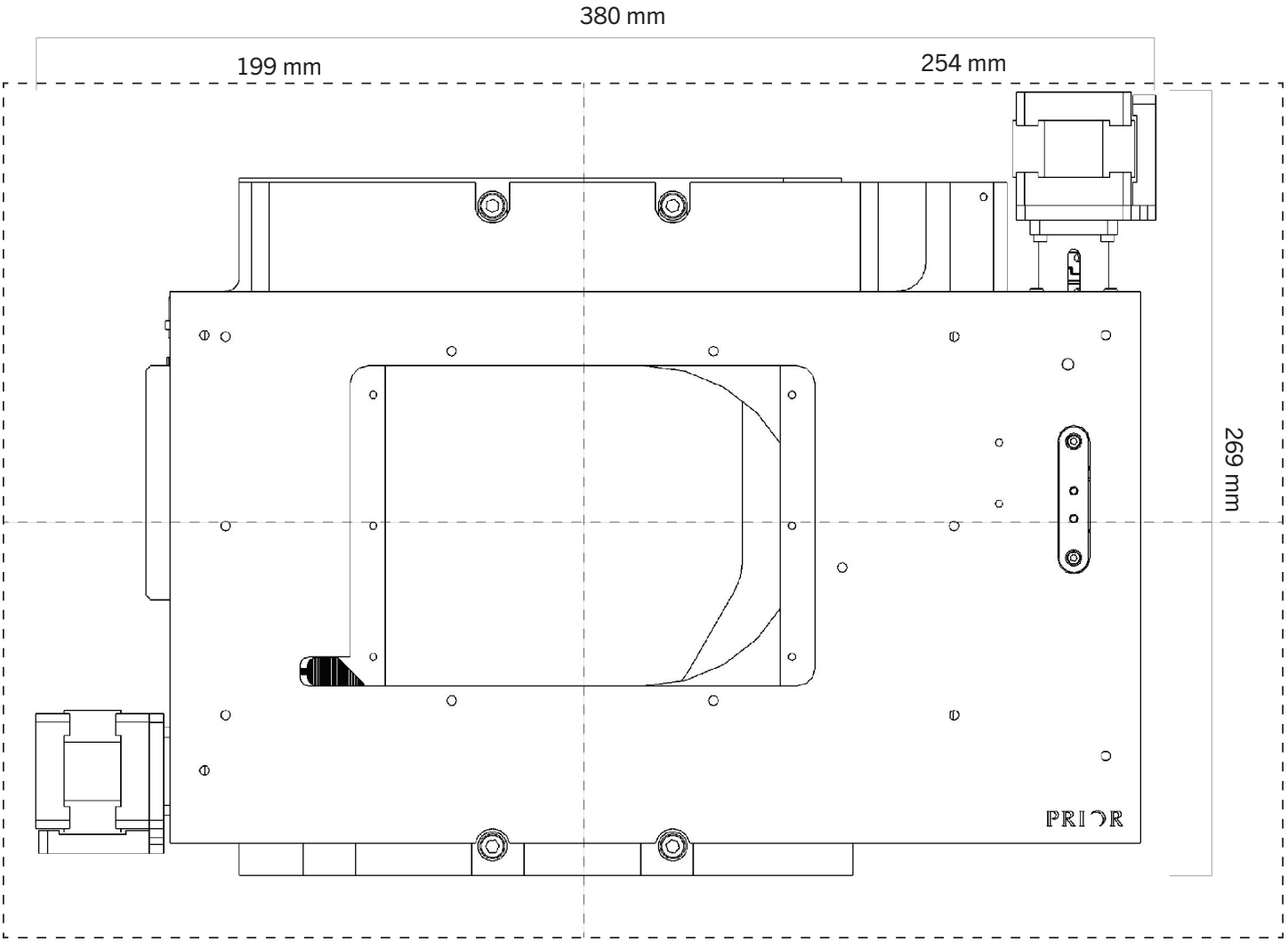
Key Features

- Directly compatible with Evident/Olympus IX3 series microscopes and CellSens Dimension software.
- Flat top design for easy sample loading.
- Compatible with NanoScan SP series piezo stages, stage top incubators and other peripheral equipment.
- Optimized for resolution and repeatability.
- Intelligent Scanning Technology™ (U.S. Patent 7,330,307).

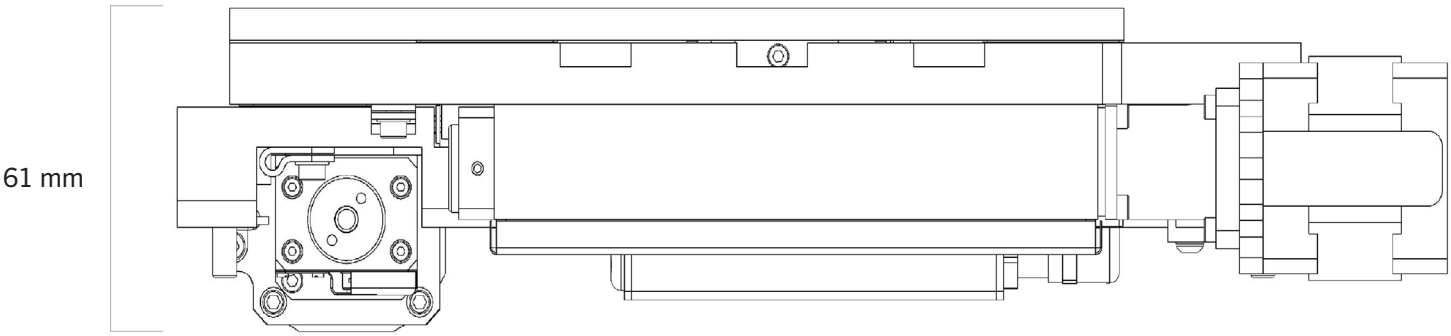
Applications

- Confocal and super-resolution microscopy
- Fluorescence microscopy
- High content screening
- Slide scanning

Dimensions*



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



Specifications

	H117N1XD	H117E1XD
Travel range	114 mm x 75 mm	114 mm x 75 mm
Unidirectional repeatability[1]	<0.8 µm	<0.5 µm
Bidirectional repeatability[1]	<2.1 µm	<0.7 µm
Metric accuracy[1]	0.12 µm/mm	0.10 µm/mm
Full metric travel accuracy	<11.7 µm	<8.4 µm
Resolution[2]	0.01 µm	0.1 µm
Squareness[1]	<30 arcsec	<30 arcsec
Maximum velocity[3]	15 mm/s	15 mm/s
Maximum load	10 kg	10 kg
Encoders	No	0.1 µm linear encoders
Motor type	400 step	400 step
Screw pitch	1 mm	1 mm
Weight	5 kg	5 kg

1. As per Prior Scientific's test methodology, typical value.
2. Defined as the minimum motor step resolution for non-encoded stages, defined as the encoder resolution for encoded stages.
3. Defined as 2.5x the default velocity, true maximum velocity is dependent on sample mass.

Ordering Information

Part Number	Description
H117N1XD	Flat top ProScan® stage for Olympus IX3 inverted microscopes with travel range 114 x 75 mm, 1 mm pitch ball screw and 400 step motors.
H117E1XD	Flat top ProScan® stage for Olympus IX3 inverted microscopes with travel range 114 x 75 mm, 1 mm pitch ball screw and 400 step motors. Encoded with 0.1 µm linear encoders.

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