

Specifications

	H117N2TE	H117NITE	H117NIT4	H117E2TE	H117EITE	H117EIT4	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

Prior Scientific Limited

Cambridge, UK.

T. +44 (0) 1223 881711

E. uksales@prior.com

Prior Scientific GmbH

Jena, Germany.

T +49 (0)3641 675 650

E. jena@prior.com

Prior Scientific Inc.

Rockland, MA, USA.

T. +1 781-878-8442

E. info@prior.com