

ES111

Economical motorized stage for upright microscopes

The ES111 is an entry-level motorized XY stage adapted for upright microscopes. It is compatible with Prior's OpenStand and is easily integrated into OEM products or custom microscopes. The ES111 is also compatible with numerous commercial microscope frames.

Featuring reliable and accurate anti-backlash leadscrew and stepper motor drives, the stage suits routine imaging applications that do not require sub-micrometer repeatability and is an affordable choice for microscope automation.

It accommodates a variety of specimen types including glass slides, multi-well plates, Petri dishes, and polished metallurgical samples.

The ES111 is the ideal stage for introducing basic motorization for any microscopy application both in research and industrial settings.

Due to its low cost and ease of use, the ES111 is also ideal for motorized microscopy education or home-use pathology systems.



Key Features

- Compatible with both industrial and life science Nikon microscopes.
- Low cost, easy to set up and easy to use.
- Facilitates routine multiposition imaging and stitching.
- Wide range of sample holders for most microscopy applications.
- Robust simple design for integration and complex systems.

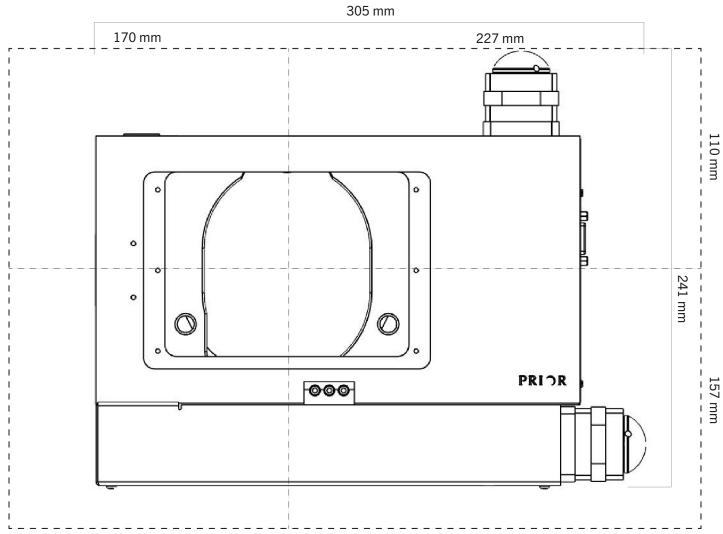
Applications

- Fluorescence microscopy
- Metrology
- Slide scanning

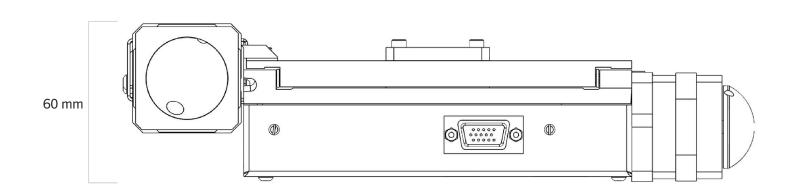
ES111-V4-1224-EN prior.com



Dimensions*









Specifications

ES111

Travel range	125 mm x 75 mm
Unidirectional repeatability ¹	< 1 μm
Bidirectional repeatability ¹	< 3.4 μm
Metric accuracy ¹	0.16 μm/mm
Full travel metric accuracy	< 14.4 µm
Resolution ²	1 μm
Squareness ¹	< 35 arcsec
Maximum velocity ³	15 mm/s
Maximum load	10 kg
Encoders	No
Motor type	400 step
Screw pitch	1 mm
Weight	3 kg

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

Ordering Information

Part Number	Description
ES111*	OptiScan® stage for upright microscopes with travel range of 125 x 75 mm.

^{*}Numerous adapter kits for commericial microscopes are available, please contact Prior.

UNITED KINGDOM

Prior Scientific Instruments Ltd.
Units 3-4 Fielding Industrial Estate
Wilbraham Road, Fulbourn
Cambridge, CB21 5ET
United Kingdom
Email: inquiries@prior.com

Email: inquiries@prior.com Phone: +44 (0)1223 881711

U.S.A.

Prior Scientific, Inc. 80 Reservoir Park Drive Rockland, MA. 02370 U.S.A.

Email: info@prior.com Phone: +1 781 878 8442

GERMANY

Prior Scientific Instruments GmbH Maria-Pawlowna-Str. 4 D-07743, Jena, Germany Email: jena@prior.com Phone: +49 (0)3641 242 010

JAPAN

Kayabacho 3rd Nagaoka Bldg 10F, 2-7-10, Nihonbashi Kayabacho, Chuo-Ku, Tokyo103-0025, Japan Email: info-japan@prior.com

Email: info-japan@prior.com Phone: +81 (0)3 5652 8831

CHINA

Prior Scientific Instruments (Suzhou) Ltd.
Room 118, Meilihua Hemu Park
No. 393 Suhong Middle Road, Suzhou Industrial Park
Suzhou, 215000, China
Email: info-china@prior.com
Phone: +86 (0)512 6617 5866







^{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.