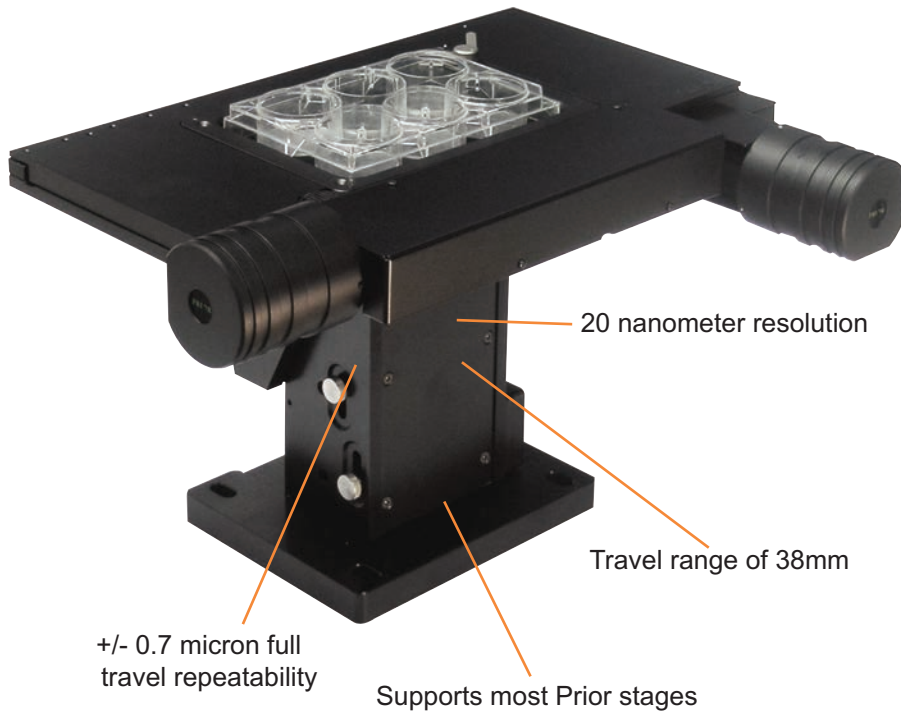


## Z Axis Motorized Stage

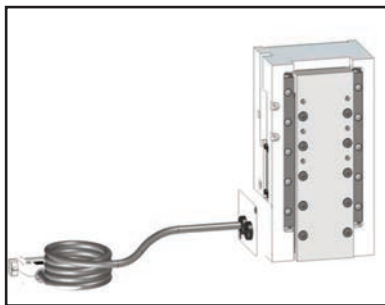
XY Stage Can Be Mounted for Transmitted and Reflected Light Applications



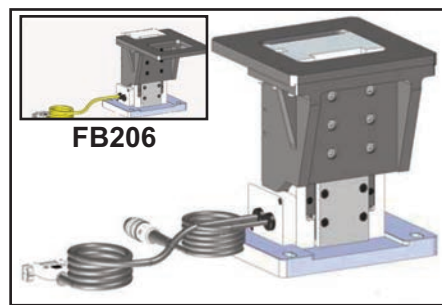
The Z axis motorized stages offer a wide range of positioning solutions for a variety of applications. Many configurable options are available from a simple motorized linear axis to a full three axis stage system. This flexibility is ideal for the requirements of customized solutions, particularly for OEM applications. The Z axis motorized stage complements the accuracy and repeatability expected from Prior positioning systems and is capable of supporting any of Prior Scientific's upright range of stages.

The Z axis motorized stage features:

- Travel range of 38mm
- 20 nanometer resolution
- +/-0.7 micron full travel repeatability
- Supports most Prior stages
- High precision ball screw
- Adjustable limit switches
- Fully configurable
- Compatible with any Prior controller
- Drives horizontally or vertically



**FB203**



**FB204E**

Prior motorized stages have a reputation for quality and performance. As an ISO 9001:2008 accredited company Prior equipment is designed and manufactured to the highest quality standards. Prior provides full support and service both direct and indirect through a professional, knowledgeable and extensive global dealer network.

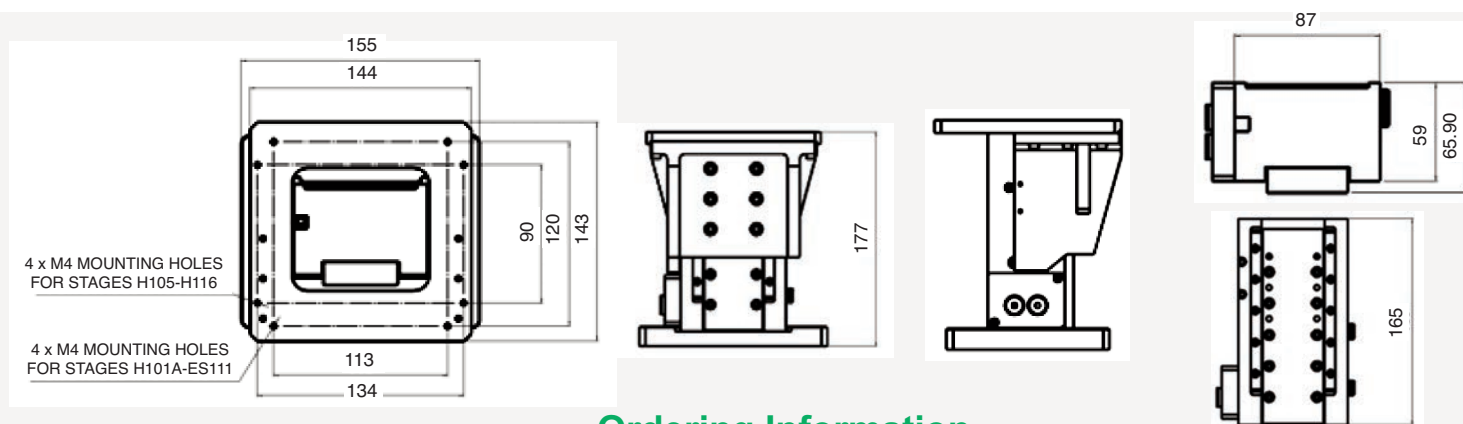
### General Specifications

- Travel Range: 38mm
- XY Repeatability\*:  $\pm 0.7\mu\text{m}$  (micrometer)
- 20 nanometer resolution
- Supports most Prior stages

- High precision ball screw
- Adjustable limit switches
- Fully configurable
- Compatible with any Prior controller
- Drives horizontally or vertically

## Z Axis Motorized Stage

High Precision Motorized Stage for Upright Microscopes



### Ordering Information

Part Number	Description
FB203	Motorized linear axis
FB204	Motorized linear axis with mounting stand - reflected light
FB204E	Motorized linear axis with mounting stand (encoded) - reflected light
FB206	Motorized linear axis with mounting stand - transmitted light
FB206E	Motorized linear axis with mounting stand (encoded) - transmitted light

### General Specifications

	FB203	FB204/FB206	FB204E/FB206E
Dimensions	165mm x 92mm x 66mm	177mm x 155mm x 143mm	177mm x 155mm x 143mm
*Resolution	20 nanometers	20 nanometers	100 nanometers
*Straightness (Over Full Travel)	+/- 3.5 microns	+/- 3.5 microns	+/- 3.5 microns
*Full Travel Repeatability	+/- 0.7 microns	+/- 0.7 microns	+/- 0.7 microns
*Full Travel Metric Accuracy	< 5 microns	< 5 microns	< 5 microns
Drive Mechanism	Zero Backlash Precision Ball Screw	Zero Backlash Precision Ball Screw	Zero Backlash Precision Ball Screw
Travel Range	38mm	38mm	38mm
Speed Range (with Max Load)	1 to 14 mm/s	1 to 14 mm/s	1 to 14 mm/s
Encoder	No	No	0.1 micron linear encoder
Max Load	10kg	10kg	10kg
Cable Length	1 meter	1 meter	1 meter