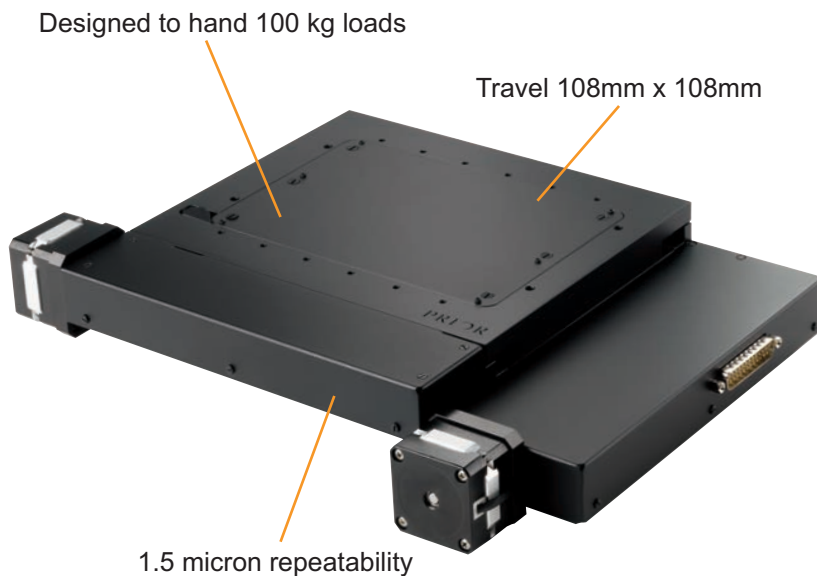


## HT1111LC Stage

### Motorized Stepper Stage for Upright Microscopes



Prior Scientific proudly introduces the HT1111LC motorized stage for high load and other demanding industrial applications.

Major features of the HT1111LC include:

- Designed to handle 100 kg point loads
- 20 nanometer resolution when used with a controller from Prior Scientific
- 108mm x 108mm travel
- 0.7micron repeatability
- Compatible with Prior standard sample holder inserts
- Externally adjustable limit switches for use with a variety of microscopes and testing stands

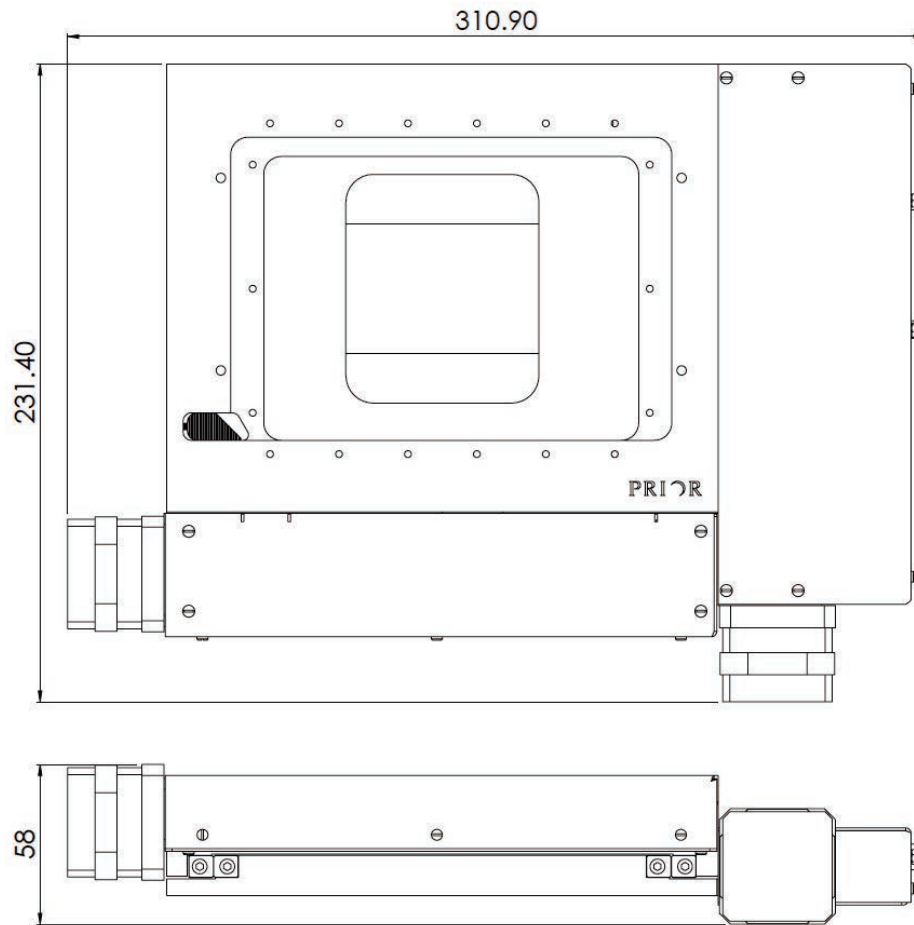
Prior stages have a well-deserved reputation for quality and repeatability. They are manufactured using the highest quality components: precision bearings, zero backlash recirculating ball screws, X and Y limit switches, two high precision stepper motors even a tough scratch resistant coating. They are available with standard and custom sample holders to suit the user's application and requirements. Stages can be driven by the Prior series of motor controllers or compatible systems in existing OEM configurations. The controller can be accessed via RS-232 serial port or with an optional joystick or keyboard. For the HT1111LC and all its products, Prior provides full support and service both direct and indirect – through a professional, knowledgeable and extensive dealer network.

#### General Specifications

- Travel Range: 108mm x 108mm
- XY Repeatability\*:  $\pm 0.7\mu\text{m}$  (micrometer)
- Minimum Step Size (Resolution):  $0.04\mu\text{m}$
- Load Capacity: 100kg
- Limit Switches: X and Y standard
- Stage Profile: Approximately 43.5mm with glass plate installed
- Finish: Electro-phoretic black plate

## HT1111LC Stage

Motorized Stepper Stage for Upright Microscopes



### HT1111LC Specifications

Specification	Details
Maximum Travel Range	108mm x 108mm
Minimum Step Size	0.4µm
XY Repeatability*	+/-0.7µm
Load Capacity	100kg
Stepper Motor	4 phase, 1 amp per phase, micro stepping
Drive Screws	Zero backlash, recirculating ball screws; 2mm pitch



### Ordering Information

Part Number	Description
HT1111LC	Stage with 2mm pitch screw