Features

- ▶ XY motion: 25mm
- Optional encoders: 20 nm resolution
- Fits inverted microscopes, custom available
- Proprietary intelligent control for stability
- ▶ High native precision & accuracy
- ► Nanopositioner compatible

Typical Applications

- Complex, programmed motion control
- High stability microscopy
- Automation

Compatible Software Packages



HManager



LabVIEW. USB motion control Examples supplied for the Micro-Drive™ controller

MicroStage with optional breadboards for mounting probes or other accessories. Breadboard position is easily adjusted and breadboards can be removed if not needed.





phone: 608-298-0855

Product Description

The MicroStage is a precision, stepper motor driven, micropositioning system for microscopy applications. Long range (25 mm) linear positioning is provided in two axes (XY) with high resolution and excellent repeatability. Employing our proprietary intelligent control scheme results in exceptional stability with high native precision making our MicroStages the ideal choice for demanding microscopy and nanoscopy. The MicroStage is compatible with a range of Mad City Labs nanopositioning systems. The addition of optional high resolution (20nm) linear encoders provide real-time feedback of the actual stage position.

petri dish adapter.

The included Micro-Drive[™] controller connects to a

PC via a standard USB port and can be controlled via the supplied LabVIEW based software. Complex motion profiles can be programmed and sophisticated control parameters such as automatic acceleration and deceleration is employed to achieve high stability and native accuracy. Optional wireless gamepad control is also available. MicroStages are offered for the following inverted microscopes: Olympus IX Series, Nikon TE/ Ti Series, Leica DMI Series, and Zeiss Axiovert/Axio Observer Series. MicroStages designed to fit other experimental setups, including direct mounting to optical tables, are also available.

fax: 608-298-9525

Technical Specifications

Range of motion (X)25 mm
Range of motion (Y)
Encoder Resolution (optional)
Step Size
Maximum Speed2 mm/sec
Native Accuracy< 1 μm
Native Repeatability < 100 nm
Recommended max. load*5 kg
Body MaterialAluminum
ControllerMicro-Drive™2
Available options
Optical encoder (per axis), gamepad control, breadboard
(metric or imperial), sample holders.

* Larger load requirements should be discussed with our engineering staff.



Three axis Micro-Drive^{TM3} controller includes a USB port for direct connection of the Micro-DriveTM controller to a PC. LabVIEW and 3rd party software compatible.



MicroStage stability after two 150µm motions.

