

Features

- ▶ Compact size
- ▶ 200 μm two axis motion (XY)
- ▶ Closed loop control
- ▶ True flexure guided motion
- ▶ Large sample mounting area

Typical Applications

- ▶ AFM, NSOM and other types of scanning probe microscopy
- ▶ XY precision alignment
- ▶ Nanofabrication



Nano-SPM200 made from aluminum.

LabVIEW Compatible USB Interfaces



Examples, tutorial, and Nano-Route[®] 3D supplied with Nano-Drive[®] USB interfaces.



Nano-SPM200 shown with micrometer XY coarse positioning stage.

Product Description

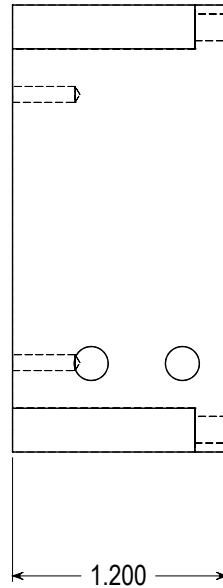
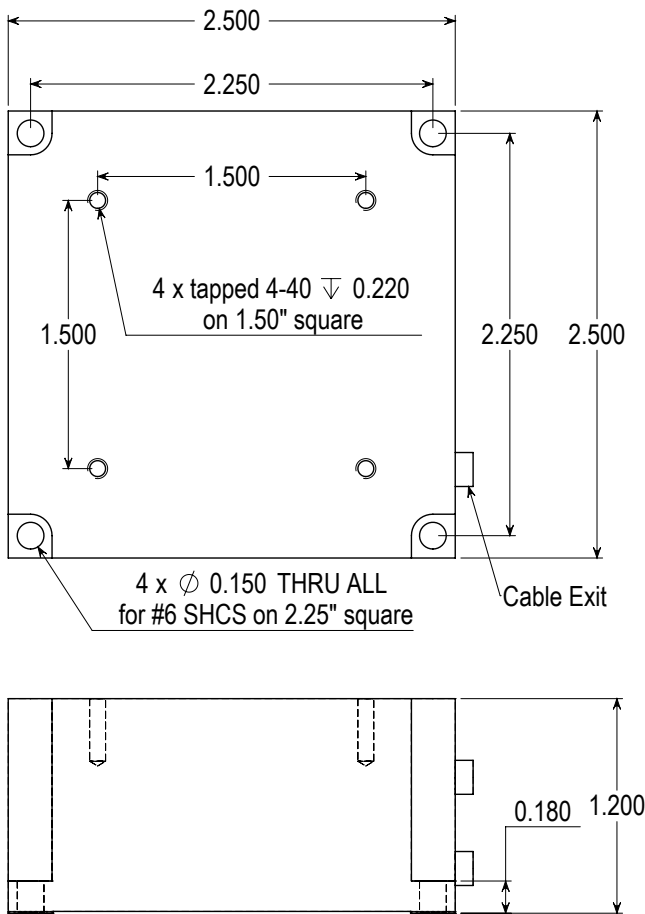
The Nano-SPM200 is a compact two axis (XY) nano-positioning system constructed from aluminum. The compact design of the Nano-SPM200 makes it ideal for integration into scanning probe microscopy systems. Internal position sensors combined with the closed loop Nano-Drive controller to provide sub-nanometer positioning resolution and long term stability. Independent

flexure guided motion for each axis provides mechanical isolation and ensures minimum cross-talk between axes. Samples can be mounted in any location on the flat top surface and secured with the four threaded mounting holes. The Nano-SPM200 is the ideal XY scanning stage for use with the MadPLL system.

Technical Specifications

Ranges of motion (XY).....	200 μ m
Resolution.....	0.4 nm
Resonant Frequency (X).....	300 Hz \pm 20%
Resonant Frequency (Y).....	300 Hz \pm 20%
Stiffness.....	1.0 N/ μ m
Recommended max. load (horizontal)*	0.5 kg
Recommended max. load (vertical)*	0.2 kg
Body Material	Aluminum
Controller	Nano-Drive [®]

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



Note: All Dimensions in Inches