Features

- Compact size
- 500 μ m three axis motion (XYZ)
- ► Closed loop control
- True flexure guided motion

Typical Applications

- Optical fiber alignment
- Hybrid positioning systems
- ▶ Micromachining
- ▶ Micromanipulation

LabVIEW Compatible USB Interfaces

Example Nano-Ro with Nan interfaces.

E Interfaces Examples, tutorial, and Nano-Route^{*}3D supplied with Nano-Drive^{*} USB



Product Description

The Nano-3D500 is a long range, three axis (XYZ) nanopositioning system constructed from aluminum. Ideally suited for optical alignment applications and high precision static positioning, the Nano-3D500 uses unique internal flexures to produce independent, isolated movement in all axes. High resolution position sensors combine with the closed loop controller to

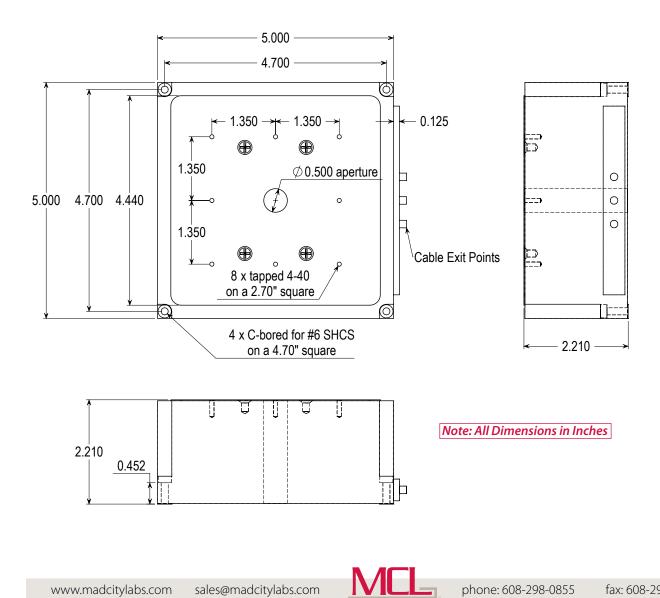
provide absolute, repeatable position measurement and long term stability. The 0.5 inch diameter center aperture provides a potentially useful optical path through the stage. A wireless 3-axis joystick controller is available as a convenience for fast, precise manual alignment without computer programming.



Technical Specifications

Ranges of motion (XYZ)	500 μm
Resolution	1 nm
Resonant Frequency (X)	150 Hz ±20%
Resonant Frequency (Y)	150 Hz ±20%
Resonant Frequency (Z)	200 Hz ±20%
Stiffness	1.0 N/µm
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 engine	ineering staff

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