Nano-F3D

Features

- *XYZ objective lens positioning*
- *100 µm range of motion in all 3 axes*
- *Interchangeable threaded lens adapters*
- *Closed loop control*
- *pico® sensor technology*

Typical Applications

- *Custom microscope scanning*
- *4Pi microscopy*
- *Optical inspection*

Compatible Software Packages

LabVIEW

USB and analog motion control

Image-Pro AMS

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

µManager THE OPEN SOURCE MICROSCOPY SOFTWARE

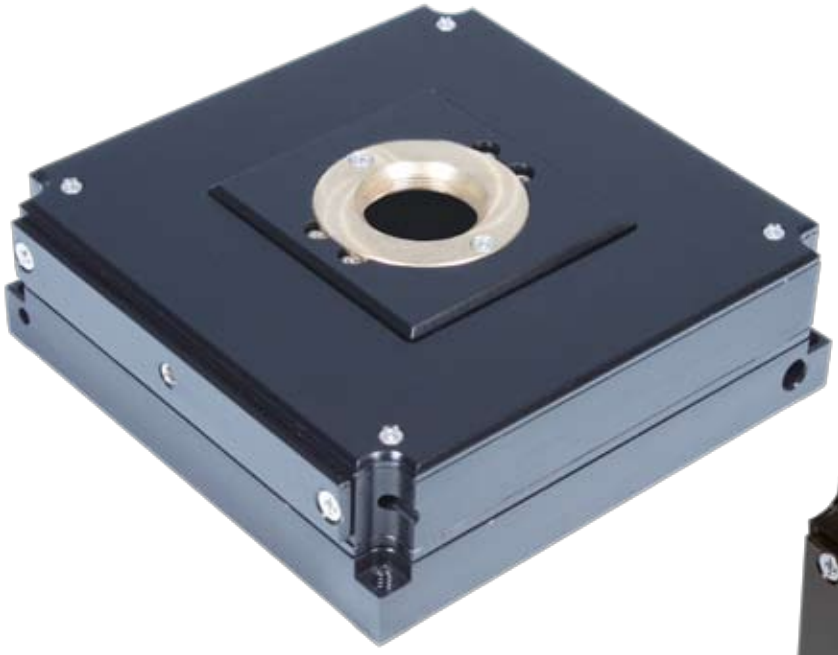
USB motion control

MetaMorph®

USB and analog motion control

SLIDEBOOK 6.0

Analog motion control, 1 or 2 axes.



Nano-F3D with M25 objective lens threaded adapter. Adapters for RMS and M26 lens threads are also available.

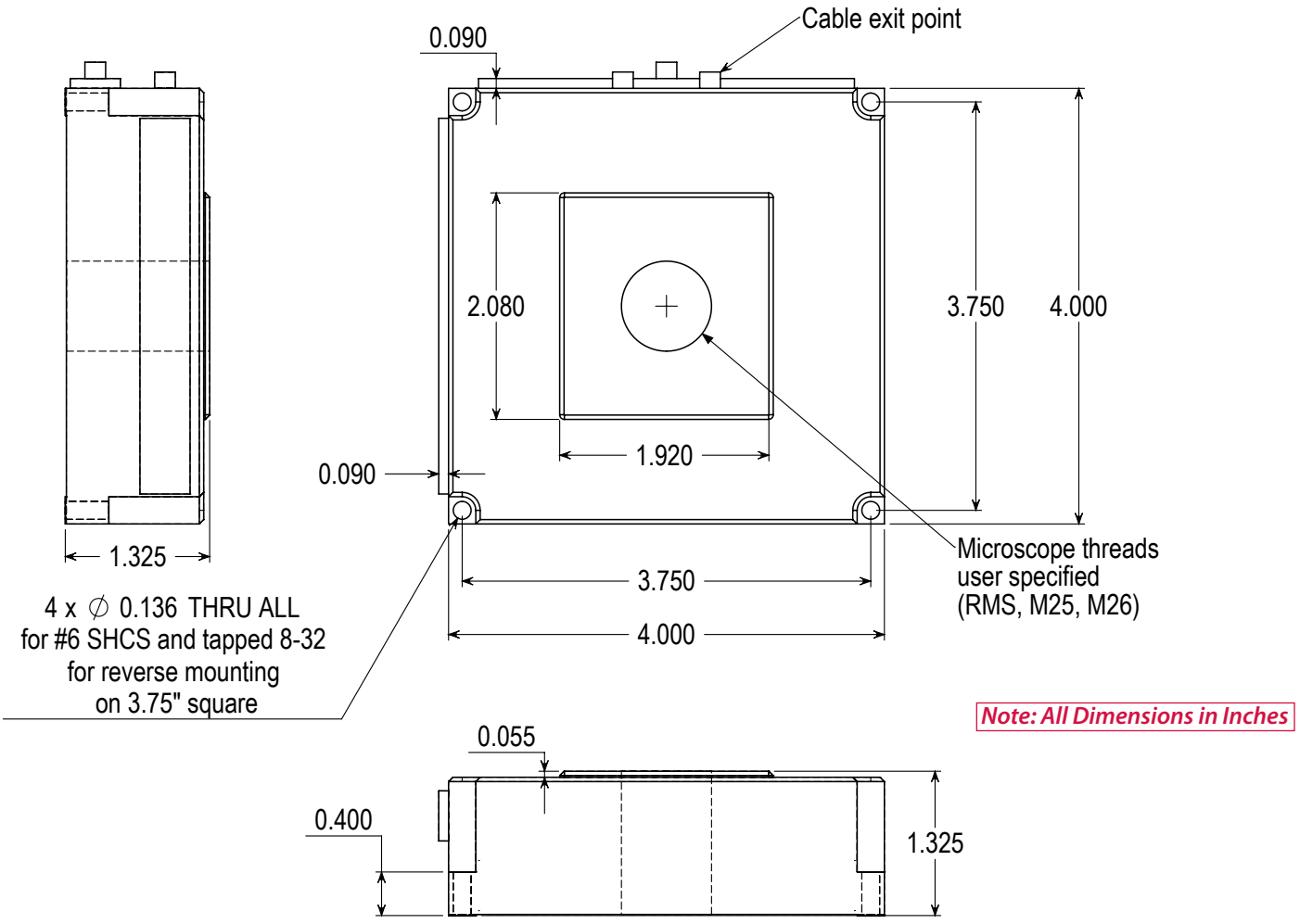
Product Description

The Nano-F3D is an objective lens nanopositioner designed to provide the unique capability of moving a lens in all three axes (XYZ). Simultaneous, three axis motions of up to 100 microns can be accomplished with sub-nanometer positioning resolution. As with all Mad City Labs nanopositioning systems, the Nano-F3D uses proprietary pico® position sensors on each axis to provide feedback for closed loop control. Compatible with RMS, M25, M26, and M27 lens threads, the Nano-F3D can be used with most commercially available objective lenses. Threaded adapters are specified for each system when it is ordered. Extra adapters can be ordered separately.

Technical Specifications

Ranges of motion (X,Y,Z) ..... 100 µm
Resolution ..... 0.2 nm
Resonant Frequencies (X/Y/Z) ...300/200/400 Hz ±20%
Stiffness ..... 1.0 N/µm
Recommended max. load* ..... 0.5 kg
Body Material ..... Al and Brass
Threaded Adapters ..... RMS, M25, M26
Controller ..... Nano-Drive®

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



Note: All Dimensions in Inches