Nano-BioS Series

Features

- ▶ Lowest profile 2-axis nanopositioner available
- ▶ Large rectangular aperture for slides
- 100 μ m, 200 μ m, or 300 μ m ranges of motion
- ▶ **pico** sensor technology
- ▶ Closed loop control, high stability
- ▶ Aperture sized for 3"/75mm slides

Typical Applications

- ▶ Optical microscopy, easy to retrofit
- ▶ Fluorescence imaging
- ▶ Closed-loop AFM scanner
- ▶ Nanolithography
- ▶ Optical tweezers
- ▶ Super resolution microscopy



Nano-BioS300 with re-entrant slide holder (shown with Lab-Tek chamber slide).

Product Description

The Nano-BioS Series are ultra low profile, two axis piezo nanopositioning systems designed to be easily integrated into existing inverted microscopes, AFM's and other instrumentation where space is limited. The large, rectangular center aperture allows the Nano-BioS to hold re-entrant sample holders for standard 3"/75mm slides and other similar sized biological samples such as Lab-Tek chamber slides. The Nano-BioS Series stages include internal position sensors with proprietary

PicoQ® technology to provide absolute, repeatable position measurement and picometer resolution under closed loop feedback control. The noise performance is similar to the Nano-Bio Series. The Nano-BioS stages are constructed from anodized aluminum and are offered in three ranges of motion: $100\mu m$, $200\mu m$, and $300\mu m$. If motion in all three axes is needed, the Nano-LPS Series is a similar sized microscopy stage which is also able to move in the Z-axis for focusing operations.



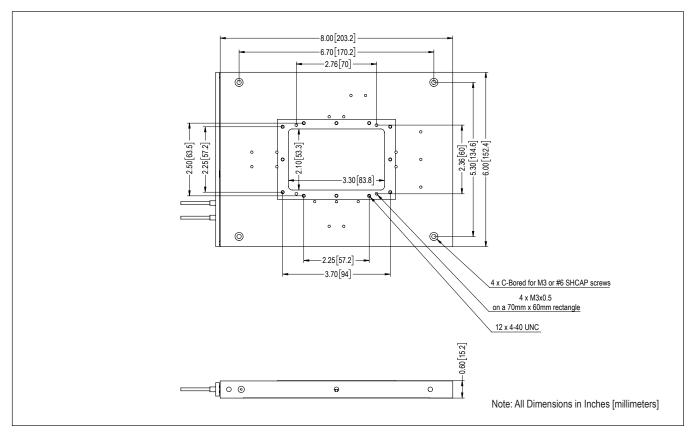
Technical Specifications

Range of motion (Nano-BioS100)..... 100 µm x 100 µm



Related products

- Nano-Bio Series
 - Nano-Bio2M
- Nano-LP Series
- Nano-LPS Series





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

^{**} Material is aluminum for Nano-BioS300.