### **Features**

- ▶ Lowest profile 2-axis nanopositioner available
- ▶ Large rectangular aperture for slides
- $100 \ \mu m \times 100 \ \mu m$ ,  $200 \ \mu m \times 200 \ \mu m$ , or  $300 \, \mu m \times 300 \, \mu m$  ranges of motion
- > pico sensor technology
- Closed loop control, high stability

### **Typical Applications**

- ▶ Aperture sized for 3 inch slides
- Optical microscopy, easy to retrofit
- Fluorescence imaging
- Closed-loop AFM scanner
- Nanolithography
- Optical tweezers
- Super resolution microscopy





µManager USB motion control

Examples, tutorial, and Nano-Route\*3D supplied with Nano-Drive\* USB and analog USB interfaces.

motion control

Analog motion control, 1 or 2 axes.

Nano-BioS300 (2-axis) constructed from aluminum.



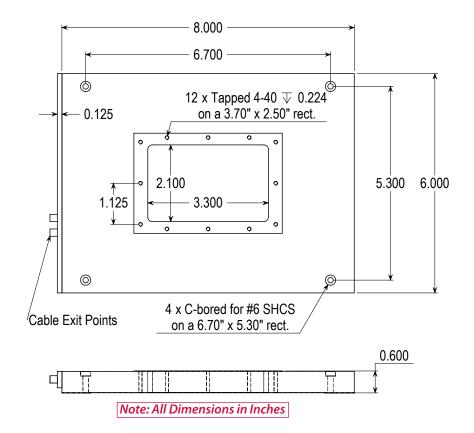
## **Product Description**

Like the popular Nano-Bio Series, the new Nano-BioS Series are ultra low profile, two axis 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 inch slides and other similar sized biological samples such as Lab-Tek chamber slides. The Nano-BioS Series stages include internal position sensors with proprietary **pico** technology to provide absolute, repeatable position measurement and picometer resolution under closed loop feedback control. The Nano-BioS stages are constructed from anodized aluminum and are offered in three ranges of motion: 100µm, 200µm, and 300µm. 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**

<sup>\*\*</sup> Material is aluminum for Nano-BioS300.



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<sup>\*</sup> Larger load requirements should be discussed with our engineering staff.