# Nano-Bio Series

#### **Features**

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

### **Typical Applications**

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



Low profile (0.6") of the Nano-Bio200.

### **Product Description**

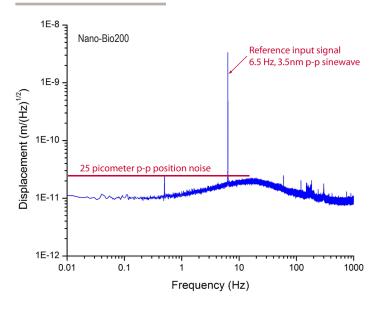
The Nano-Bio Series are ultra low profile, two axis piezo nanopositioning systems. The low profile design allows the Nano-Bio Series to be easily integrated into existing inverted microscopes, AFM's and other instrumentation where space is limited. The large center aperture allows the Nano-Bio to accommodate the lenses of all major microscope manufacturers. The Nano-Bio Series includes internal position sensors with proprietary PicoQ<sup>®</sup> technology to provide absolute, repeatable position measurement and picometer accuracy under closed loop feedback control. The Nano-Bio100, Nano-Bio200, and Nano-Bio300 are constructed from aluminum and are ideal for optical microscopy. A related product, the Nano-Bio2M has increased thermal stability, reduced overall size, and is an easily implemented closed-loop scanner upgrade for commercial AFM instruments.

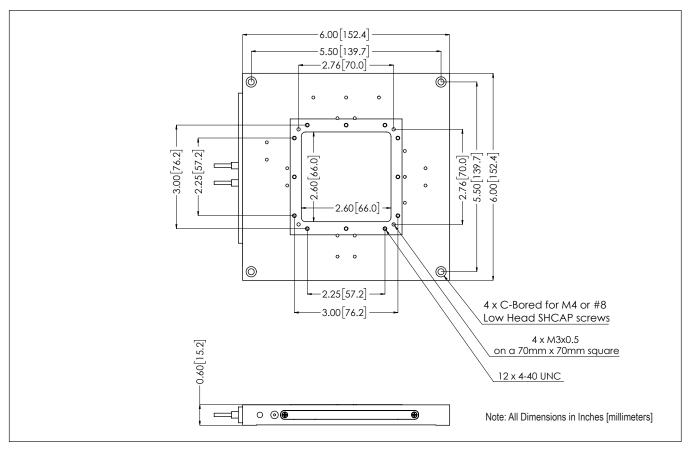


## **Technical Specifications**

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

### **Low Position Noise**





<sup>\*\*</sup> Material is aluminum for Nano-Bio300.