# Nano-Theta

#### **Features**

- Precision rotation: 2 mradians range
- Accessible and well defined axis of rotation
- Mount in any orientation
- High resolution: 4 nanoradians
- ▶ **pico** sensor technology
- ► Closed loop control

#### Typical Applications

- Laser beam scanning
- Lithography
- ▶ FBG writing
- Interferometry



Nano-Theta (actual size) constructed from aluminum.

### **Product Description**

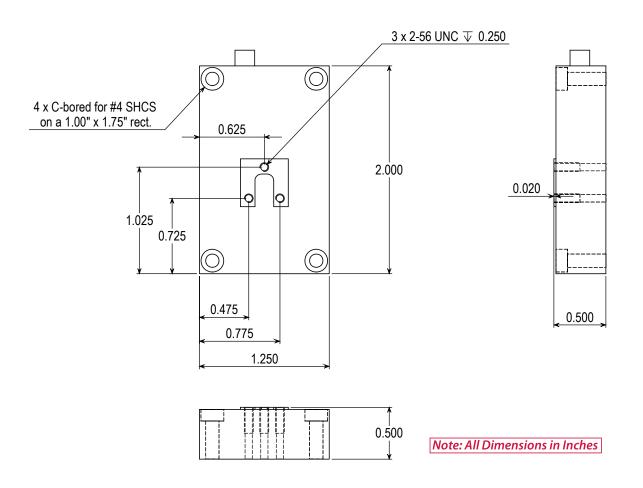
The Nano-Theta is a unique piezo-actuated rotational stage having 2 milliradians of total motion. With nanoradian resolution, the Nano-Theta is designed for applications in lithography, optical disk manufacturing, and laser beam tracking or scanning. The innovative design of the Nano-Theta incorporates a readily accessible and

well-defined axis of rotation which allows a mirror to be mounted so that it is co-planar with the axis of rotation. Internal position sensors utilizing proprietary **pico** technology provide absolute, repeatable position measurement with nanoradian accuracy under closed loop control.



## **Technical Specifications**

Range of motion	2.0 mradians
Resolution	4 nradians
Resonant Frequency (unloaded)	
Body Material	Al or Invar
Controller	Nano-Drive®



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