

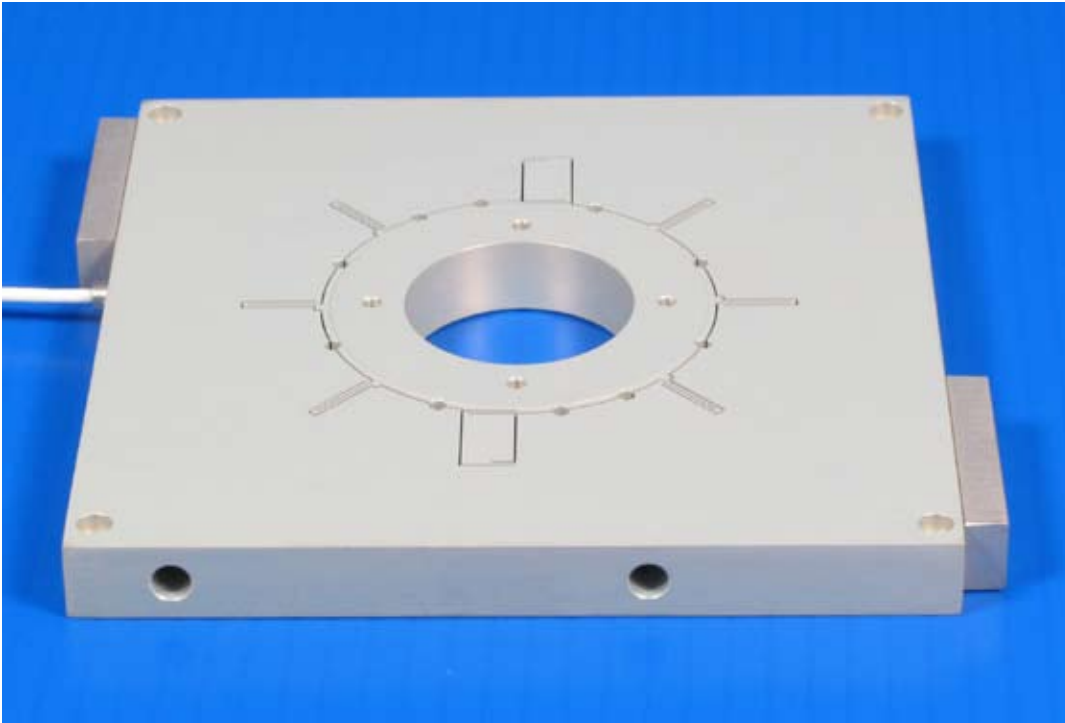
Nano-Theta/H

Features

- ▶ Precision rotation: 5 mrad range
- ▶ Large center aperture
- ▶ Mount in any orientation
- ▶ High resolution: 10 nanoradians
- ▶ **pico** sensor technology
- ▶ Closed loop control

Typical Applications

- ▶ Precision alignment
- ▶ Lithography
- ▶ FBG writing
- ▶ Polarized nanoscopy



Nano-Theta-H constructed from aluminum.

LabVIEW Compatible USB Interfaces



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

Product Description

The Nano-Theta/H is a unique, high precision rotational stage which provides 5 milliradians of total motion and a large center aperture for optical access. The innovative design of the Nano-Theta/H allows it to be combined with other multi-axis nanopositioning stages for the ultimate flexibility in sample alignment - see the Nano-

Align6 Series. Internal position sensors utilizing the proprietary **pico** technology provide absolute, repeatable position measurement with nanoradian resolution under closed loop control.

Technical Specifications

Range of motion 5.0 mradians
 Resolution 10 nradians
 Resonant Frequency (unloaded) 300Hz ±20%
 Recommended max. load (horizontal)*0.5 kg
 Recommended max. load (vertical)*0.2 kg
 Body MaterialAl, Invar or Titanium
 Controller Nano-Drive®

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

