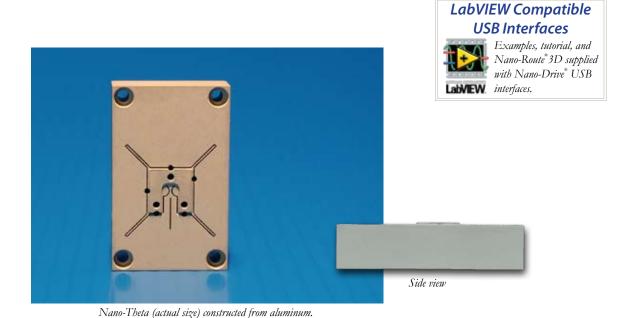
Features

- ▶ 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



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 pictor technology provide absolute, repeatable position measurement with nanoradian accuracy under closed loop control.

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Technical Specifications

Range of motion	2.0 mradians
Resolution	4 nradians
Resonant Frequency (unloaded)	2 kHz ±20%
Body Material	Al or Invar
Controller	Nano-Drive®

