

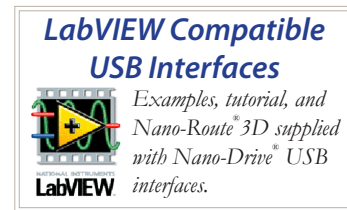
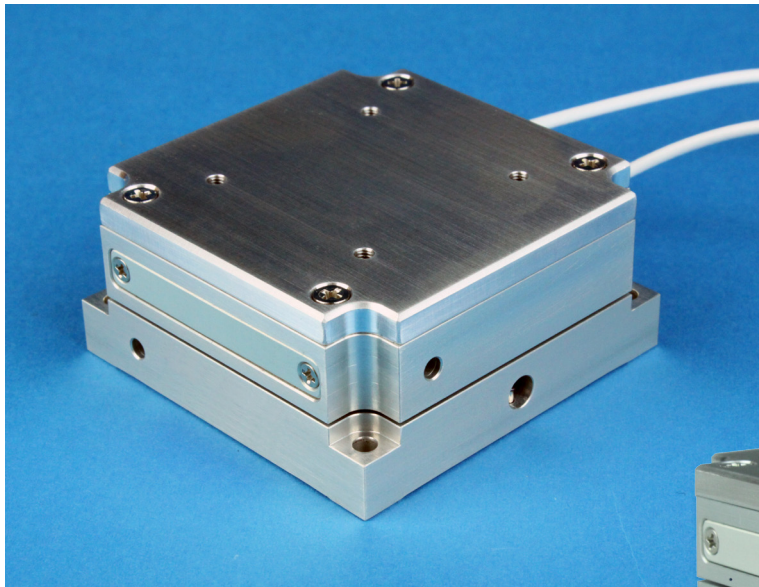
Nano-M250

Features

- ▶ Compact size
- ▶ Two axis motion
- ▶ $50\ \mu\text{m} \times 50\ \mu\text{m}$ ranges of motion
- ▶ Closed loop control
- ▶ **pico** sensor technology

Typical Applications

- ▶ Alignment
- ▶ Nanolithography
- ▶ Scanning microscopy



Product Description

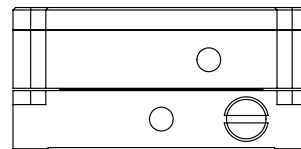
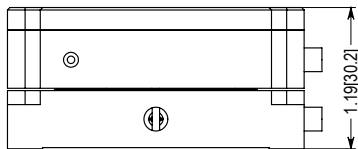
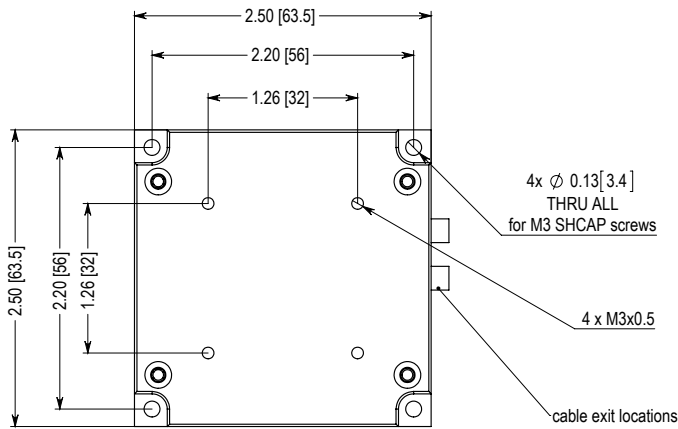
The Nano-M250 is a compact, two axis nanopositioning system constructed from aluminum. The small dimensions of the Nano-M250 allow it to be easily integrated into existing instrumentation for applications such as nanolithography and SEM. Internal position sensors utilizing proprietary **pico** technology provide absolute, repeatable position measurement with picometer accu-

racy under closed loop control. The Nano-M250 is also available in high vacuum and ultra high vacuum compatible models. Custom modifications, including range of motion, are available. Contact your local sales office for more information.

Technical Specifications

Range of motion (XY)	50 μm x 50 μm
Resolution	0.1 nm
Resonant Frequency (X)	370 Hz \pm 20%
Resonant Frequency (Y)	300 Hz \pm 20%
Stiffness	1.0 N/ μm
θ_{roll} , θ_{pitch} (typical)	≤ 1 μrad
θ_{yaw} (typical)	≤ 3 μrad
Recommended max. load (horizontal)*	0.5 kg
Recommended max. load (vertical)*	0.2 kg
Body Material	Aluminum
Controller	Nano-Drive [®]

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



Note: All Dimensions in Inches [mm]