Features

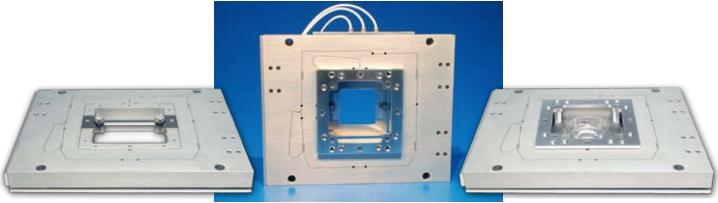
- ▶ Lowest profile 3-axis nanopositioner available
- Large aperture
- $100 \mu m$, $200 \mu m$, and $300 \mu m$ ranges of motion (XYZ)
- **pico** sensor technology
- Closed loop control
- High stability

Typical Applications

- Optical microscopy, easy to retrofit
- Optical trapping experiments
- Fluorescence imaging
- Alignment
- Single molecule spectroscopy
- Super resolution microscopy



Low profile (0.8") of the Nano-LP Series.



Nano-LP100 with top surface slide holder (left), re-entrant slide holder (center), and petri dish holder (right).

Product Description

The Nano-LP Series are ultra-low profile, three axis nanopositioning systems with 100, 200, and 300 micron ranges of motion in all three axes. The low height of the Nano-LP Series allows it to be easily integrated into existing inverted optical microscopes. With its extended ranges of motion, the Nano-LP Series is ideal for demanding microscopy applications which require long range

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travel, fast scan rates, and three axes of motion. The Nano-LP Series' internal position sensors utilize proprietary technology to provide absolute, repeatable position measurement with picometer accuracy under closed loop control. Another stage to consider, the Nano-LPS, has similar positioning performance and a rectangular aperture sized for 3 inch slides.

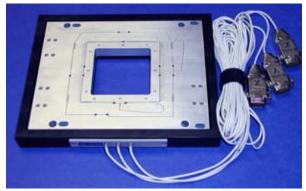


Technical Specifications

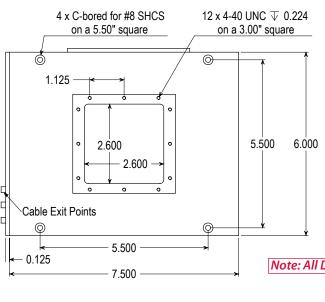
θ_{roll} , θ_{pitch} (typical) $\leq 1 \mu$	ırad
θ_{yaw} (typical) $\leq 3 \mu$	ırad
Recommended max. load (horizontal)*0.	5 kg
Recommended max. load (vertical)*0.2	2 kg
Body Material**Al, Invar or Titan	ium
Controller	rive®

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

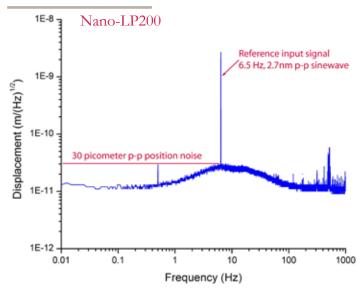
Custom Nano-LP Series



Nano-LP100 with custom frame for vertical mounting.



Low Position Noise



Note: All Dimensions in Inches



0.800

^{**} Material is aluminum for Nano-LP300.