Features

- ▶ 500 μm or 100 μm Z-axis motion
- ▶ Multiwell plate sized aperture (4.3" x 6.3")
- Closed loop control
- Low profile, easy to retrofit
- > pico sensor technology

Typical Applications

- ▶ High speed confocal microscopy
- High throughput fluorescence microscopy
- ► Super resolution microscopy



Product Description

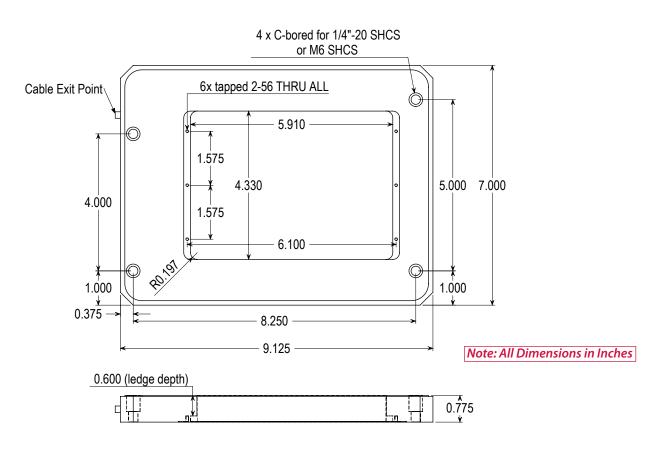
The Nano-ZL Series are long range, Z-axis nanopositioners specifically designed to hold multiwell plates used in biomedical research. High-throughput single cell fluorescence microscopy and high speed, high resolution confocal imaging can be accomplished while simultaneously adjusting the Z-axis position to remove the effects of multiwell plate irregularities. The Nano-ZL Series has true flexure guided motion and contains internal position sensing. Utilizing proprietary PicoQ[®] technology, the position sensors provide absolute, repeatable position measurement for closed loop control with a resolution of better than 1 nm over the full 500 micron travel range and sub-nanometer for the shorter 100 micron travel range. In addition to high resolution spatial imaging, the Nano-ZL step response allows entire Z-section acquisitions with minimal photo bleaching.



Technical Specifications

Range of motion (ZL100)	100 μm
Resolution	0.2 nm
Range of motion (ZL500)	500 μm
Resolution	1 nm
Resonant Frequency	250 Hz
Recommended max. load (horizontal)*	0.5 kg
Body Material	Aluminum
Controller	Nano-Drive®
*	

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



M