

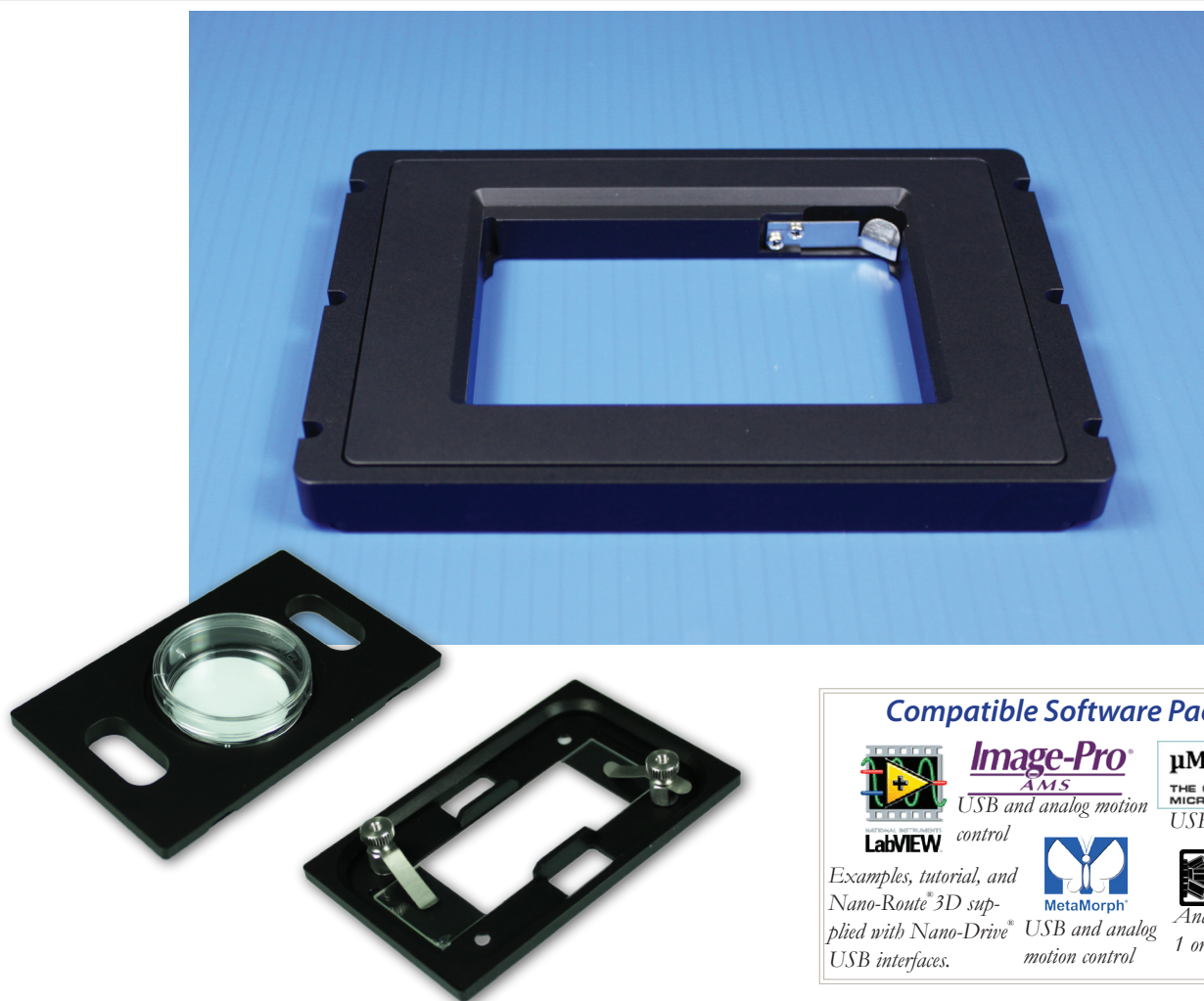
Nano-Z Series

Features

- ▶ Ultra-low profile
- ▶ Closed loop control
- ▶ Easy sample holder exchange
- ▶ Compatible with many microscope stages
- ▶ **pico** sensor technology

Typical Applications

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



Compatible Software Packages



Examples, tutorial, and
Nano-Route 3D sup-
plied with Nano-Drive*
USB interfaces.

Image-Pro
AMS
USB and analog motion
control



MetaMorph*
USB and analog
motion control

µManager
THE OPEN SOURCE
MICROSCOPY SOFTWARE
USB motion control



SLIDEBOOK 5.0
Analog motion control,
1 or 2 axes.

Product Description

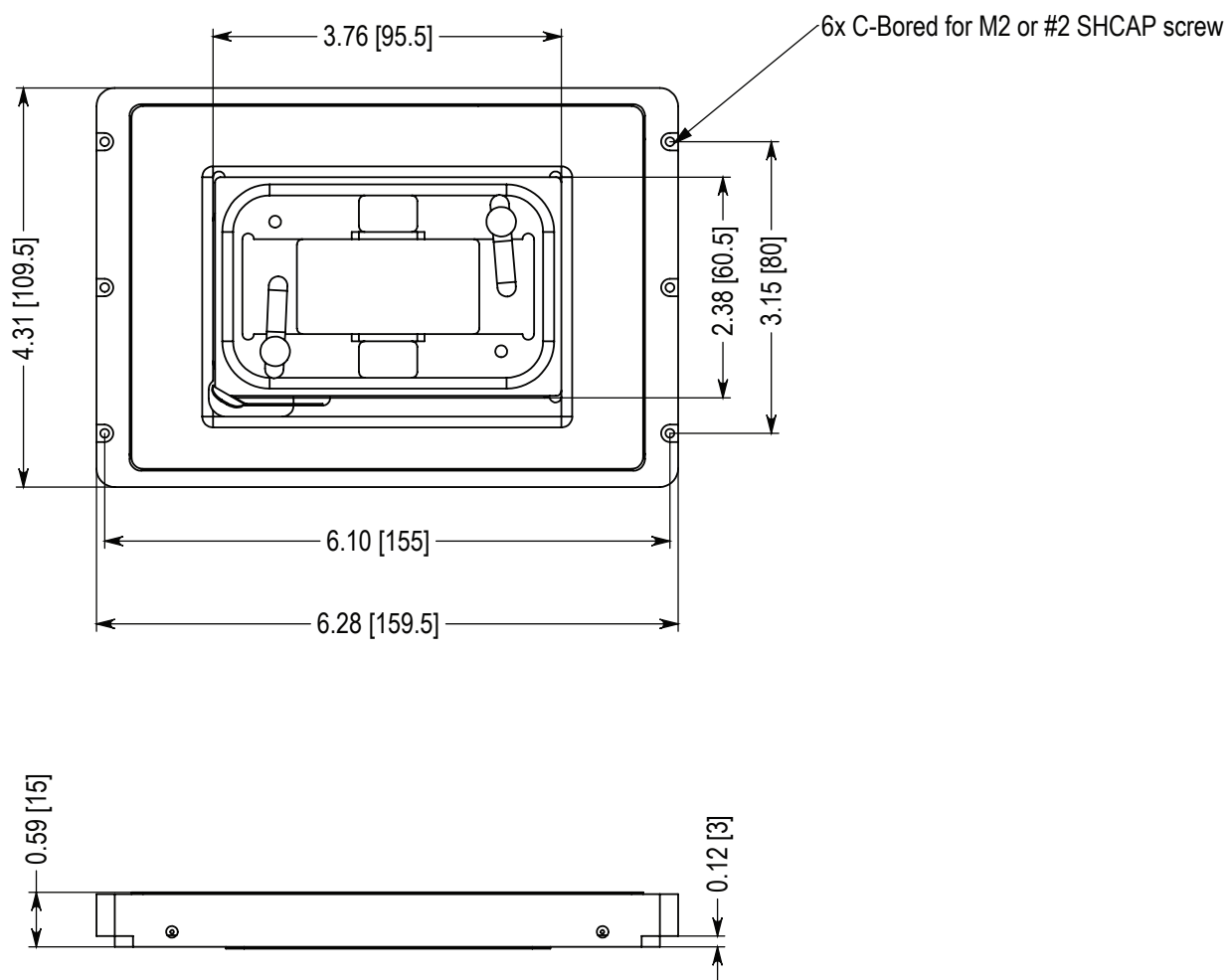
The Nano-Z Series are high precision Z-axis nanopositioners specifically designed to hold slides, chambered slides, cover slips and 35mm petri dishes. The Nano-Z series nanopositioning systems are ideal for single cell fluorescence microscopy, super resolution microscopy and high resolution confocal imaging. The nanopositioning stages have true flexure guided motion and contains internal position sensing. Utilizing proprietary

pico technology, the position sensors provide absolute, repeatable position measurement for closed loop control with sub-nanometer resolution. The Nano-Z series offers smooth, continuous travel with superior resolution and stability for advanced microscopy techniques.

Technical Specifications

Range of motion (Z100)	100 μ m
Resonant Frequency	380 Hz \pm 20%
Range of motion (Z200)	200 μ m
Resonant Frequency	250 Hz \pm 20%
Resolution (100/200)	0.2/0.4nm
Recommended max. load (horizontal)*	0.5 kg
Body Material	Aluminum
Controller	Nano-Drive®
75mm slide sample holder	PN 158027
35mm Petri dish holder	PN 158037

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



All Dimensions in Inches [mm]