

Nano-Z Series

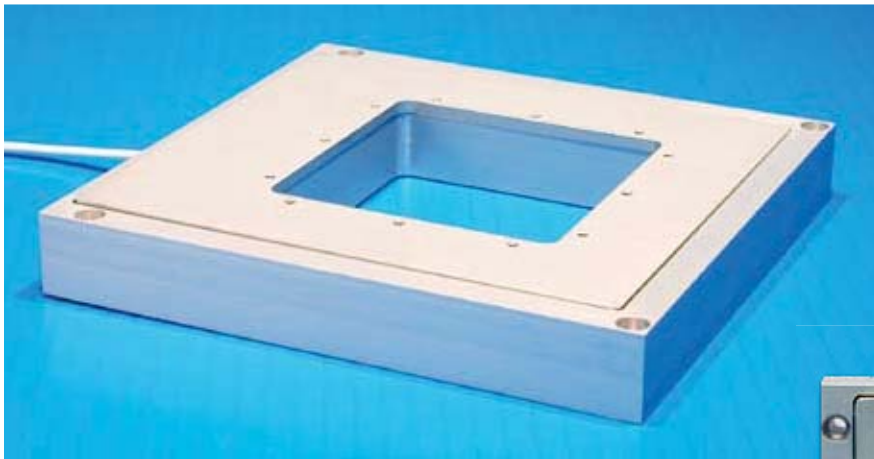
Features

- ▶ Engineered to retrofit to most microscopes
- ▶ Low profile: 0.8"
- ▶ Large aperture: 2.6" x 2.6"
- ▶ Long range motion: 100 μm or 200 μm
- ▶ Closed loop control
- ▶ **pico**™ sensor technology

Typical Applications

- ▶ Optical microscopy
- ▶ High speed confocal imaging
- ▶ High speed auto focus

02.583.2511 פז"מ-טק (1991) בע"מ
<Michael.Storch@pazam-tech.co.il>



Nano-Z100 (1-axis) constructed from aluminum.



Nano-Z100 with top surface slide holder.



Nano-Z100 with re-entrant slide holder. Re-entrant slide holders are often used with an oil immersed objective lens.

Compatible Software Packages



Image-Pro
AMS

Analog motion control



MetaMorph™
USB and analog motion control

Examples, tutorial, and Nano-Route™ 3D supplied with Nano-Drive™ USB interfaces.

µManager
THE OPEN SOURCE MICROSCOPY SOFTWARE
USB motion control

Product Description

The Nano-Z Series are single axis (Z-axis) nanopositioning systems with a low profile design, allowing it to be easily retrofit into existing instrumentation where space is restricted. With a large center aperture, the Nano-Z Series is ideal for confocal imaging and microscopy applications which require long range travel and fast, repeatable positioning. Combined with the high output power

Nano-Drive™85, the Nano-Z Series is capable of a 3-4 ms step response - ideal for high speed, high precision applications. Internal position sensors utilizing proprietary **pico**™ technology provide absolute, repeatable position measurement with picometer accuracy under closed loop control.

02.583.2511 פז"מ-טק (1991) בע"מ
<Michael.Storch@pazam-tech.co.il>

MCL

phone: 608-298-0855

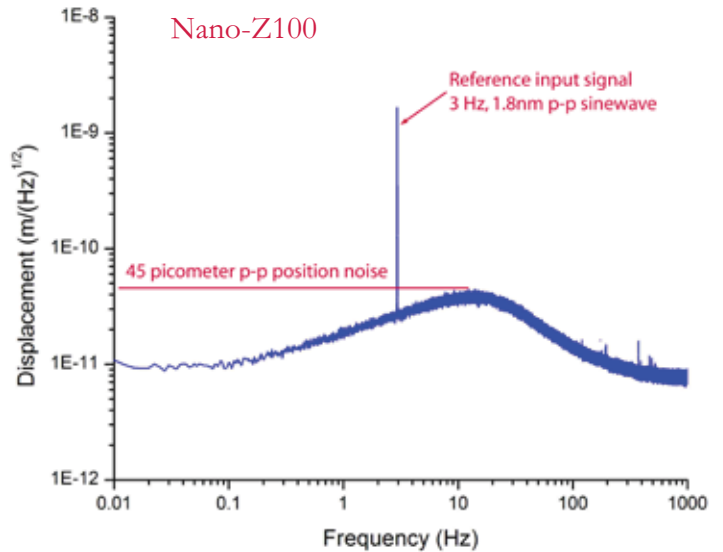
fax: 608-298-9525

Technical Specifications

Range of motion (Nano-Z100)	100 μm
Range of motion (Nano-Z200)	200 μm
Resolution (100/200 μm).....	0.2/0.4 nm
Resonant Frequency (100 μm)	600 Hz $\pm 20\%$
Resonant Frequency (200 μm)	450 Hz $\pm 20\%$
Stiffness.....	1.0 N/ μm
Recommended max. load (horizontal)*	0.5 kg
Body Material	Aluminum or invar
Controller	Nano-Drive™/Nano-Drive™85

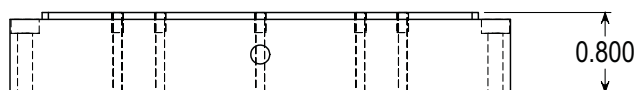
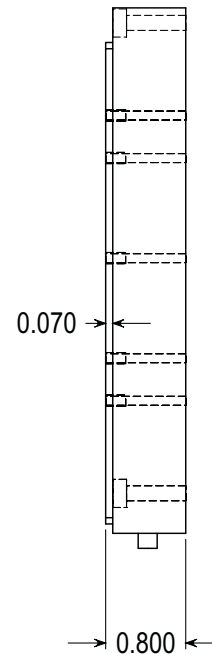
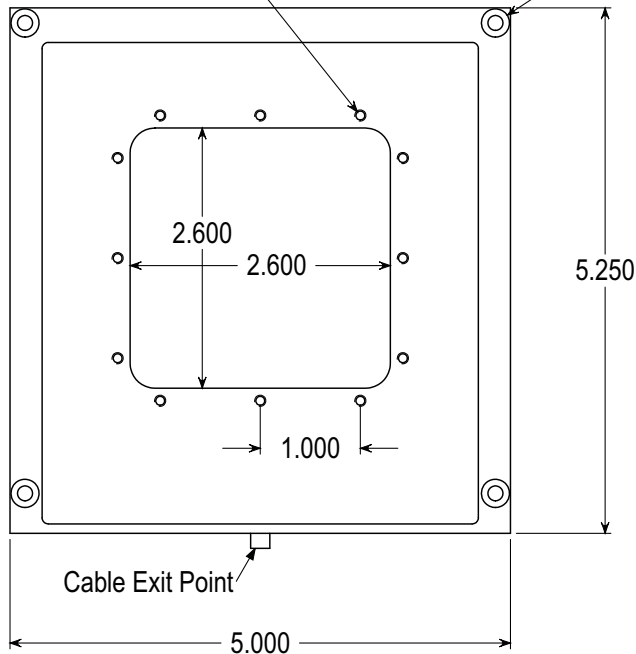
* Larger load requirements should be discussed with our engineering staff.

Low Position Noise



12 x 4-40 UNC ∇ 0.200
on a 2.85" square

4 x C-bored for #6 SHCS
on a 4.70" square



Note: All Dimensions in Inches