Nano-LPMW

Features

- *Low profile XYZ nanopositioning*
- *Unique design for multiwell plates and incubators*
- *200 µm range of motion (XYZ)*
- *PicoQ® 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*

Nano-LPMW designed to accomodate multiwell plates and environmental chambers

Compatible Software Packages

NIS-Elements
USB motion control

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

Image-Pro AMS
USB and analog motion control

Re-entrant slide or petri dish holder

Nano-LPMW with re-entrant slide holder.

Product Description

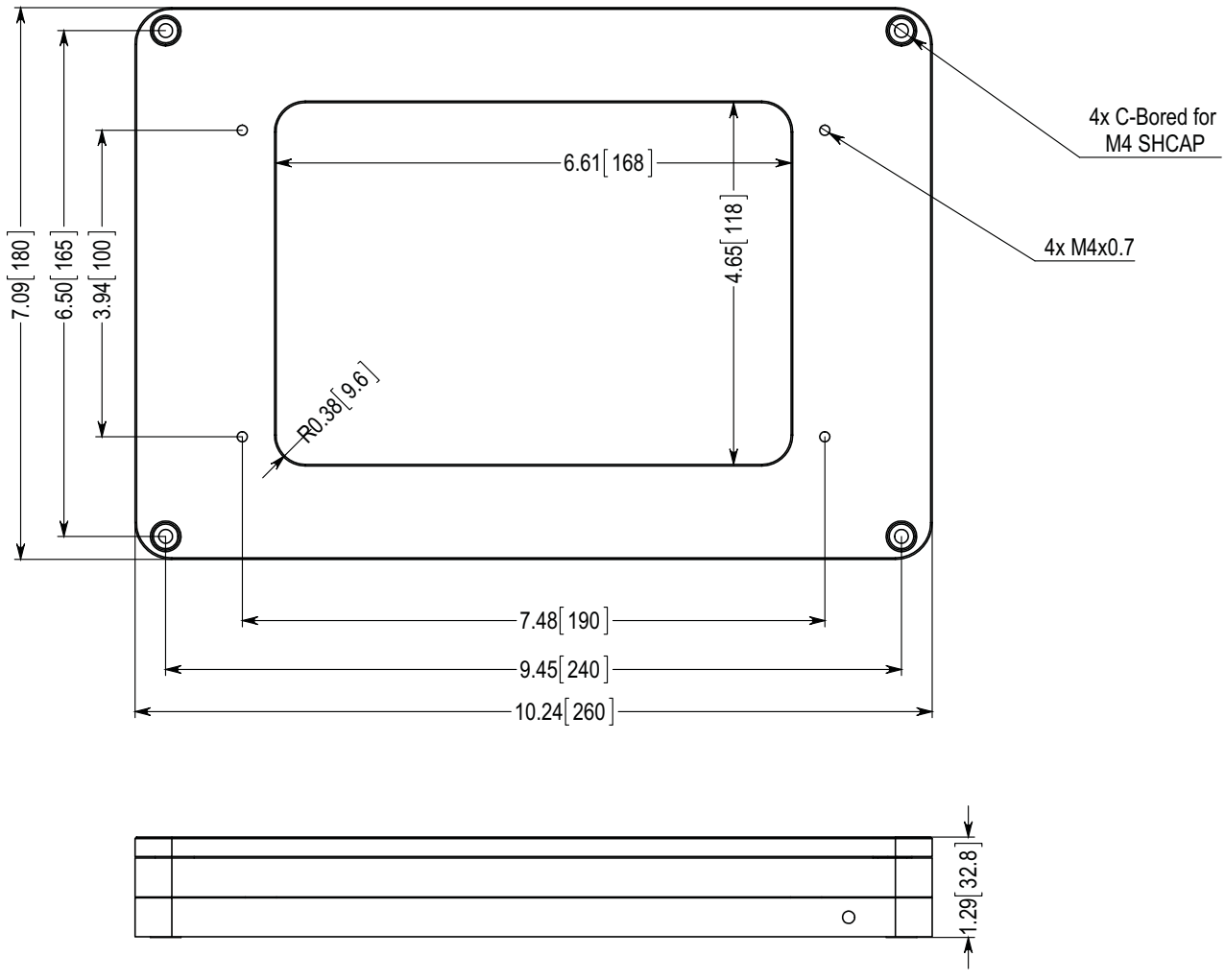
The Nano-LPMW is a unique 3 axis nanopositioning system designed to hold multiwell plates, slides, dishes and environmental chambers. The Nano-LPMW has a low profile and extra-large center aperture with 200 micron range of motion in all three axes. The low height of the Nano-LPMW Series allows it to be easily integrated into existing inverted optical microscopes and is compatible with a range of microscope stages. Like the related Nano-LPS Series, the Nano-LPMW is ideal for demanding microscopy applications which require long range travel, high stability, and three axes of motion. The Nano-LPMW is the only 3 axis nanopositioning system which can hold multiwell plates and incubators. Precise and repeatable motion is made possible through closed loop control combined with Mad City Labs proprietary PicoQ® position sensors.

Technical Specifications

Range of motion .....200 x 200 x 200 µm
Resolution.....0.4 nm
Resonant Frequencies
X axis .....105 Hz ±20%
Y axis .....90 Hz ±20%
Z axis .....195 Hz ±20%
θ_x , θ_y(typical).....≤40 µrad
θ_z (typical).....≤20 µrad

Recommended max. load (horizontal)* .....0.5 kg
Recommended max. load (vertical)*.....0.2 kg
Body Material .....Aluminum
Controller .....Nano-Drive®
Accessories.....Adapter plate to Ti-S-E/ER
Sample holders
Incubators

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



Note: All Dimensions in Inches [mm]