Product Description

The Nano-3D200 is a compact three axis (XYZ) nano-positioning system constructed from aluminum. The compact design of the Nano-3D200 allows it to be easily integrated with coarse positioning stages and standard optical fixturing accessories. Internal position sensors combine with the closed loop controller to provide absolute, repeatable position measurement and long term stability. Independent flexure guided motion for each axis provides mechanical isolation and ensures that alignment adjustments can be done with minimum cross-talk between axes. A wireless 3-axis joystick controller is available as a convenience for fast, precise manual alignment without computer programming.
**Technical Specifications**

Ranges of motion (XYZ) .................................... 200 µm  
Resolution .............................................................. 1 nm  
Resonant Frequency (X) .................. 150 Hz ±20%  
Resonant Frequency (Y) .................. 150 Hz ±20%  
Resonant Frequency (Z) .................. 500 Hz ±20%  
Stiffness ........................................................... 1.0 N/µm  
Recommended max. load (horizontal)* .................0.5 kg  
Recommended max. load (vertical)* ......................0.2 kg  
Body Material ............................................... Aluminum  
Controller .................................................. Nano-Drive*  

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

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![Diagram](image-url)