

Features

- ▶ Single axis (Z) motion
- ▶ Long range motion - 200 μ m
- ▶ Compact size
- ▶ Closed loop control
- ▶ **pico** sensor technology

Typical Applications

- ▶ Precision optical alignment and mirror positioning
- ▶ High resolution probe positioning
- ▶ Metrology



Nano-CZ200 constructed from aluminum.

LabVIEW Compatible USB Interfaces



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

Product Description

The Nano-CZ200 is a compact, long range, single axis (Z-axis) precision nanostage. Internal position sensors utilizing proprietary **pico** technology provide absolute, repeatable position measurement with sub-nanometer resolution under closed loop control. The Nano-CZ200 can be operated in any orientation

and is ideally suited for precision alignment of optical elements or other components with limited size and weight.

Technical Specifications

Range of motion (Z)	200 μm
Resolution	0.4 nm
Resonant Frequency	500 Hz $\pm 20\%$
Stiffness	1.0 N/ μm
Recommended max. load (horizontal)*	0.5 kg
Recommended max. load (vertical)*	0.1 kg
Body Material	Aluminum
Controller	Nano-Drive [®]

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

