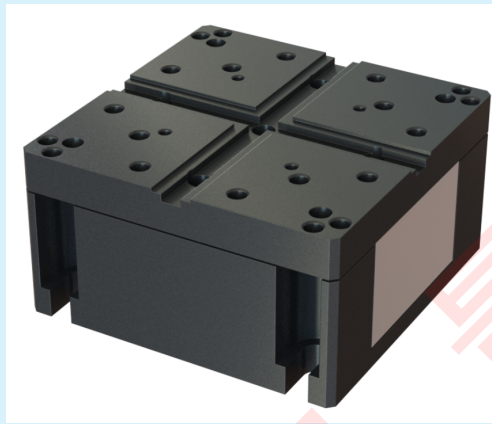


CZ NANOPositionER

The CZ is a 1-axis compact Z nanopositioner, offering 100 μm or 200 μm motion along Z. Its compact design makes it the ideal tool for applications such as 3D imaging, Z-stack, autofocus and laser writing application.

It is also available with a X-Y axis if needed (see the 3-axis model C3).



CZ Nanopositioner

Features

- Compact design
- 100 μm or 200 μm Z motion
- Closed loop control
- Silicon sensor technology
- Less than 10pm noise floor

Applications

- Alignment
- Laser writing
- 2 photons polymerisation
- Confocal microscopy
- 3D printer

Specifications

| | CZ.100 | CZ.200 | Unit |
|----------------------------|--------------------|--------|------------------------|
| Range of motion Z | 100 | 200 | μm |
| Resolution Z | 0.1 | 0.2 | nm |
| Typical noise floor Z | 0.01 | 0.02 | nm |
| Full range repeatability Z | 0.2 | 0.4 | nm |
| Linearization Z (typical) | 0.02% | 0.02% | |
| Resonant frequency Z | 500 | 400 | Hz |
| Stiffness X / Y / Z | 0.6 | 0.4 | $\text{N}/\mu\text{m}$ |
| Maximum Load* : | | | |
| - horizontal use | | 0.5 | kg |
| - vertical use | | 0.1 | kg |
| Sensor | Silicon HR sensor | | |
| Size W x L x H | 48.5 x 48.5 x 25.7 | | mm |
| Material | Al | | |
| Cable length** | 2 | | m |
| Controller | Standard | | |

*Higher load on request

**Higher length on request

Drawing

