

Bring Your Microscope to the Next Level!



- Sub-nanometer resolution
- Focus range up to 600 μm
- High resonant frequency up to 890 Hz
- Settling time in ms
- Open loop mode for dynamic operation
- Closed loop SG and CAP mode for positioning
- Compact design, easy to intergrade
- Long lifetime
- Versions available for inverted and upright microscopes

» higher resolution | » faster scanning speed | » automatized solution

The piezo focus lens positioner series “MIPOS” is a z-axis actuating system for objective positioning for high resolution microscopy. The piezo principle allows immediate reaction, high dynamic performance, high repeatability and extreme resolutions. The system can be easily integrated with any standard thread size and is compatible with Zeiss, Nikon, Olympus, Leica and others.

The MIPOS series was critical for the success of Professor Stefan W. Hell and his team’s research on membrane lipids in nanoscale. Based on the outstanding contribution in super-resolution microscopy, Stefan W. Hell was awarded the Nobel Prize in Chemistry. For more information:

<https://www.nature.com/articles/nature07596/>

MIPOS users include:



MIPOS Series & Piezo Controller

Features

MIPOS 100

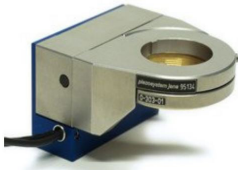


12V40 Controller



- Analog open loop system
- Travel range up to 100 μm
- 40 mA current with rise time of 27 ms
- Ideal for dynamic operation

MIPOS 100 SG

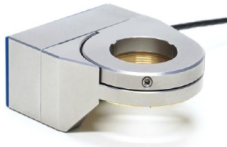


NV 100D Controller



- Digital closed loop system
- Travel range up to 140 μm
- 2 nm strain gage resolution
- PC modulation via USB
- 100 mA current with rise time of 20 ms
- Ideal for static & dynamic operation

MIPOS 250 SG

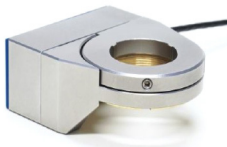


NV 100D Controller



- Digital closed loop system
- Travel range up to 250 μm
- 5 nm strain gage resolution
- PC modulation via USB
- 100 mA current with rise time of 30 ms
- Ideal for static & dynamic operation

MIPOS 250 CAP

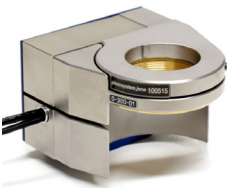


NV 100D Controller



- Digital closed loop system
- Travel range up to 250 μm
- 1 nm capacitive sensor resolution
- PC modulation via USB
- 100 mA current with rise time of 30 ms
- Ideal for static & dynamic operation

MIPOS 600 SG



NV 100D Controller



- Digital closed loop system
- Long travel range up to 600 μm
- 12 nm strain gage resolution
- PC modulation via USB
- 100 mA current with rise time of 60 ms
- Ideal for static & dynamic operation

Options

- High load
- Inverted microscope
- Upright microscope
- Vacuum version

*NV 100D amplifier: limited availability, exclusive for researchers and labs

*prices valid until Oct 31st 2020. Place your order now!

Get in touch with us
and we will help you configure
the best solution.

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