

# Bring Your Microscope to the Next Level!



- Sub-nanometer resolution
- Focus range up to 600  $\mu\text{m}$
- Settling time as low as 40 ms
- High resonant frequency up to 890 Hz
- 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

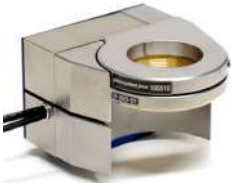
» **higher resolution** | » **faster scanning speed** | » **automized solution**

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 and Leica.

The MIPOS 250 series was critical for the successful research of Professor Stefan W. Hell and his team for their research on membrane lipids in nanoscale. Based on the outstanding contribution in superresolution microscopy, Stefan W. Hell was awarded **Nobel Prize in Chemistry**. For more information:

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



| MIPOS Series & Piezo Controller                                                     |                                                                                     | Features                                                                                                                                                                                                                                                                                                                        | Price      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>MIPOS 100</b>                                                                    | <b>12V40 Controller</b>                                                             | <ul style="list-style-type: none"> <li>▪ Analog open loop system</li> <li>▪ Travel range up to 100 <math>\mu\text{m}</math></li> <li>▪ 40 mA current with rise time of 27 ms</li> <li>▪ Ideal for dynamic operation</li> </ul>                                                                                                  | 10000,00 € |
|    |    |                                                                                                                                                                                                                                                                                                                                 |            |
| <b>MIPOS 100 SG</b>                                                                 | <b>NV 100D Controller</b>                                                           | <ul style="list-style-type: none"> <li>▪ Digital closed loop system</li> <li>▪ Travel range up to 100 <math>\mu\text{m}</math></li> <li>▪ 2 nm strain gage resolution</li> <li>▪ PC modulation via USB</li> <li>▪ 100 mA current with rise time of 20 ms</li> <li>▪ Ideal for static &amp; dynamic operation</li> </ul>         | 10000,00 € |
|    |    |                                                                                                                                                                                                                                                                                                                                 |            |
| <b>MIPOS 250 SG</b>                                                                 | <b>NV 100D Controller</b>                                                           | <ul style="list-style-type: none"> <li>▪ Digital closed loop system</li> <li>▪ Travel range up to 250 <math>\mu\text{m}</math></li> <li>▪ 5 nm strain gage resolution</li> <li>▪ PC modulation via USB</li> <li>▪ 100 mA current with rise time of 30 ms</li> <li>▪ Ideal for static &amp; dynamic operation</li> </ul>         | 10000,00 € |
|   |   |                                                                                                                                                                                                                                                                                                                                 |            |
| <b>MIPOS 250 CAP</b>                                                                | <b>NV 100D Controller</b>                                                           | <ul style="list-style-type: none"> <li>▪ Digital closed loop system</li> <li>▪ Travel range up to 250 <math>\mu\text{m}</math></li> <li>▪ 1 nm capacitive sensor resolution</li> <li>▪ PC modulation via USB</li> <li>▪ 100 mA current with rise time of 30 ms</li> <li>▪ Ideal for static &amp; dynamic operation</li> </ul>   | 10000,00 € |
|  |  |                                                                                                                                                                                                                                                                                                                                 |            |
| <b>MIPOS 600 SG</b>                                                                 | <b>NV 100D Controller</b>                                                           | <ul style="list-style-type: none"> <li>▪ Digital closed loop system</li> <li>▪ Long travel range up to 600 <math>\mu\text{m}</math></li> <li>▪ 12 nm strain gage resolution</li> <li>▪ PC modulation via USB</li> <li>▪ 100 mA current with rise time of 60 ms</li> <li>▪ Perfect for static &amp; dynamic operation</li> </ul> | 10000,00 € |
|  |  |                                                                                                                                                                                                                                                                                                                                 |            |

#### Options

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

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

\*prices valid until Oct 31<sup>st</sup> 2020. Place your order now!

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

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