



Supreme Stability

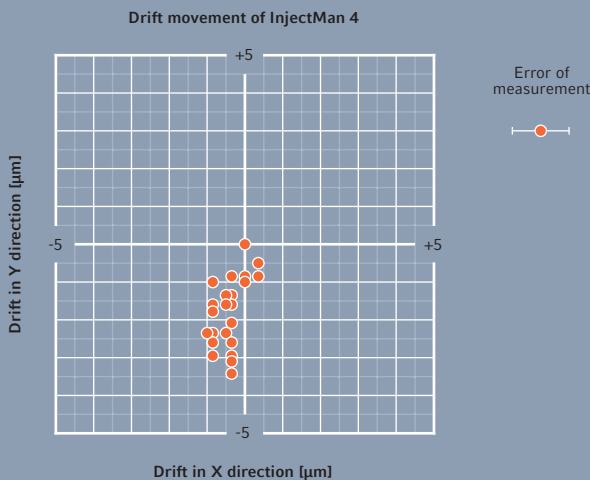
The Eppendorf InjectMan® 4 for patch clamp and electrophysiology

A Solid Foundation

Precision and reliability are essential for optimal results. This is particularly true, when exact positioning and stability are key to successful experimentation. Patch clamp has been an indispensable method in electrophysiology since the 1980s. Its versatility and precision allow neuroscientists to tackle one of the most fascinating challenges in the life sciences: understanding the human brain.

Eppendorf has a long-standing tradition in cell manipulation and single cell experimentation. We have served as expert partner to cell biology and neuroscience labs for more than 30 years.

The InjectMan 4 is an ideal tool for demanding applications, such as micromanipulation or patch clamp. It combines state-of-the-art technology with exceptional ease of use. The many smart features of the InjectMan 4 facilitate your work and effectively help protecting your precious samples. In this manner the InjectMan 4 can make a valuable contribution to the quality of your research and experimental results.



Superior stability

The motor modules of the InjectMan 4 allow for virtually drift-free work over hours. They can be switched off during measurement depending on the user's preferences.

The diagram illustrates position stability during a 20 h measurement at 22 °C.



Highest flexibility

The InjectMan 4 can be adapted to all common microscopes. Its easily adjustable angle head allows for angle settings from 0° to 90°.

The available headstage holder is compatible with most frequently used pre-amplifier models. This way, you can optimally set up your workstation according to your individual needs.

The InjectMan® 4

Product features

- > Maximum stability for drift-free work
- > Extra-fine movement for highly precise positioning (< 20 nm motor step size)
- > Intuitive movement control with a single joystick
- > Advanced functions (e.g., axial movement, position memory, Z-limit)
- > Home function and swivel-out movement for easy access to sample and electrode
- > No electrical noise for optimal measurements
- > Adaptable to all conventional microscopes
- > PC interface for remote control



Other Eppendorf solutions for your lab:



Antivibration Pads

Eppendorf antivibration pads effectively protect your precious samples from vibrations and mechanical disturbances. Pads for different weight ranges provide an ideal customized solution for your workstation.



Cell Culture Consumables

Experience a new dimension in cell culture with Eppendorf Cell Culture Consumables. We put a special focus on excellent growth characteristics, supreme handling and on advanced protection against contamination.



CO₂ Incubators

Eppendorf CO₂ incubators maintain a constant presence in cell culture labs all over the world with their exceptional temperature and CO₂ control. They feature a seamless inner chamber, optional high-temperature disinfection and variable oxygen control.

Ordering information

| Description | International Order no. | North America Order no. |
|--|-------------------------|-------------------------|
| InjectMan® 4, micromanipulator with dynamic movement control | 5192 000.019 | 5192000027 |
| Accessories and Microscope Adapters for InjectMan® 4 | | |
| Headstage holder, for pre-amplifier, for InjectMan® 4 | 5192 073.008 | 5192073008 |
| Spare parts kit | 5192 071.005 | 5192071005 |
| Leica® 1, for Leica® DMI3000 B, 3000 M, 4000 B, 5000 B, 5000 M, 6000 B, DM IRB E, HC, DMi8 and DM IRE 2 microscopes | 5192 301.000 | 5192301000 |
| Leica® 2, for Leica® DM IL LED and HC microscopes | 5192 302.007 | 5192302007 |
| Nikon® 1, for Nikon Eclipse® Diaphot 200, 300 and Eclipse® Ti-E, Ti-U, Ti-S, TE200, TE300, TE2000 microscopes | 5192 316.008 | 5192316008 |
| Olympus® 1, for Olympus® IX50, IX51, IX70, IX80, and IX81 microscopes | 5192 306.002 | 5192306002 |
| Olympus® 2, for Olympus® IX53, IX73, IX83 microscopes | 5192 307.009 | 5192307009 |
| Olympus® 3, for Olympus® IX53 with illumination IX2-ILL30 | 5192 308.005 | 5192308005 |
| Zeiss® 1, for Zeiss® Axiovert® 200 and AxioObserver A1, D1, and Z1 microscopes | 5192 311.006 | 5192311006 |
| Zeiss® 2, for Zeiss® Axio Vert.A1 microscope | 5192 312.002 | 5192312002 |
| Universal stand, for mounting TransferMan® 4r and InjectMan® 4 micromanipulators on upright microscopes and stereo microscopes independent of the microscope tripod used | 5192 325.007 | 5192325007 |
| Adapter bridge, for mounting TransferMan® 4r and InjectMan® 4 micromanipulators on microscope adapters for TransferMan® NK 2, InjectMan® NI 2 and PatchMan NP 2 | 5192 321.001 | 5192321001 |
| Antivibration Pads | | |
| Antivibration Pad XS, weight range 4.5–6.0 kg | 5181 301.009 | 920007945 |
| Antivibration Pad S, weight range 6.0–8.0 kg | 5181 303.001 | 920007953 |
| Antivibration Pad M, weight range 8.0–10.0 kg | 5181 305.004 | 920007961 |
| Antivibration Pad L, weight range 10.0–12.5 kg | 5181 307.007 | 920007970 |
| Antivibration Pad XL, weight range 12.5–16.5 kg | 5181 309.000 | 920007988 |
| Cell Culture Consumables | | |
| Different CCC Dish and Multi-Well Plate formats available. For more information visit: http://ccc.eppendorf.com | | |
| CO₂ incubators | | |
| Galaxy® 170 R with high-temperature disinfection | CO17311001 | CO17211005 |
| Galaxy® 170 R with high-temperature disinfection, 1–19 % O ₂ control and 4-split inner door | CO17334001 | CO17234005 |
| Galaxy® 48 R with high-temperature disinfection | CO48310001 | CO48210005 |
| Galaxy® 170 R with high-temperature disinfection, 1–19 % O ₂ control and 2-split inner door | CO48332001 | CO48232005 |

Your local distributor: www.eppendorf.com/contact
 Eppendorf AG · 22331 Hamburg · Germany
eppendorf@eppendorf.com · www.eppendorf.com

www.eppendorf.com/cellmanipulation

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