





Smallest high precision single axis manipulator for electrophysiology, microinjections and optogenetics

High precision add-on solutions for all common stereotaxic frames

Zero drift solid-state drives with integrated closed-loop control 20 mm range with 7 nm resolution and 20 nm repeatability

Compact battery operated controller (rechargeable)

High acceleration piezo steps for tissue and cell penetration Controller display shows absolute and relative coordinates

REFERENCES











"The connections from the fulcrum of the micromanipulator to the cell should be as short, stiff and light as is feasible. Lightweight e.g. piezo-driven manipulators mounted on the stage may be the best arrangement".







Single Axis Micromanipulator

Positioning range 20 mm
Step size 7 nm
Repeatibility 20 nm
Max speed 5 mm/s
Max load 70 g

Mounting: rod mounting for 5-8 mm rods

Dimensions 28x20x55 mm

Weight 65 g

Standard accessories included to hold optic fiber or micropipette holders



Control unit

- Rotary knob controller with versatile user interface
- Shows absolute or relative positions
- Configurable high acceleration piezo steps
- Controls up to 14 single axis manipulators
- USB computer intefrace with open-source SDK

Six speeds single step - max
Batteries Li-ion (rechargeable)
AC charger 90-264 V, 50-60 Hz
Dimensions 190x210x40 mm



Cost efficient solutions available to upgrade existing stereotaxic frame with high precision single or triple axis manipulators!



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