

Motorized Micromanipulator **MM-500**

Electric micromanipulators are mostly used to manipulate recording electrodes and stimulate the movement of electrodes in electrophysiological experiments.

The MM-500 was designed to meet a wide variety needs for the scientific community, and is suitable for patch clamp experiments, microinjection, extracellular recording, intra-cellular recording and precision robotic positioning applications.



Features

- Small and light size, humanized bilingual operation interface, flexible program debugging
- The TFT screen shows the position and moving speed of the activated manipulator as well as X, Y and Z
- High-resolution stepper motor meets four-axis drive, the maximum distance of X, Y, Z and diagonal movement is 25mm, with good stability and small drift
- A rotary photoelectric encoder can control two manipulators and switch freely. Origin function can meet the requirement of rapid return of electrode to original position and high repeatable positioning accuracy
- Compatible with mainstream micromanipulation platform, can be used with any microscope, can hold a variety of probes and microsyringes

Motorized Micromanipulator

MM-500 >>>



Manipulator



MM-500 controller



XY-Axis Moving Platform



Supporting Columns



Rotary Optical Encoder



Technical parameters

Parameter item	Specification
Travel	25 mm on all four axes
Maximum Speed	2.9mm/s
Resolution	0.132μm/0.033μm
Long Term Stability	0.3μm /20h at 24°C.
Repeated positioning accuracy	Single axis ≤1μm, three axis ≤2μm



Order Information

Model	Product Description
MM-500	Electric micromanipulators
MM-500/L	Left-handed mechanical manipulator
MM-500/R	Right-handed mechanical manipulator
MT-500	Microscope moving platform Contains 3 supporting columns, 1 XY mobile platform, 1 microscope mounting bracket, 1 XY mobile platform mounting bracket

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