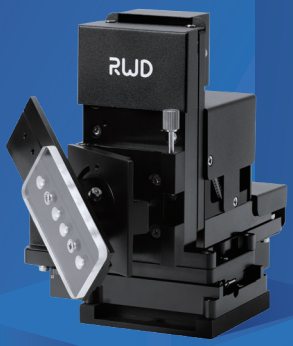
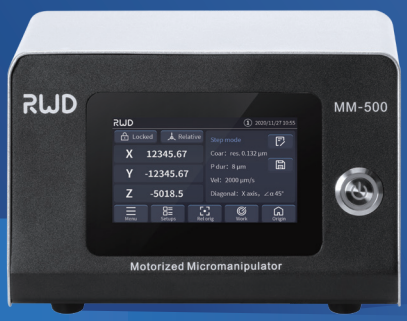
Aniphy

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.



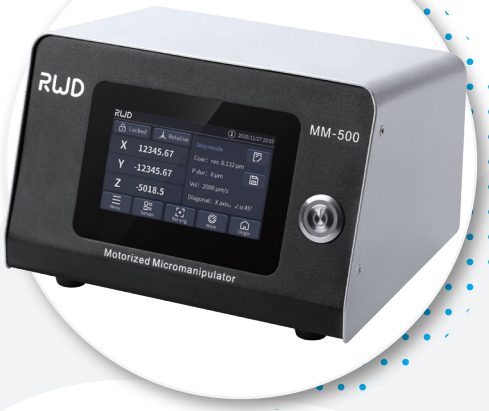


Features

- 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 »»



MM-500 controller
(20.4cmx17cm x 14cm)

XY-Axis Moving Platform

Manipulator
(14cmx14.8cmx14.8cm)

Supporting Columns

Rotary Optical Encoder
(15.3cmx12.3cm x 8.7cm)

Technical parameters

Travel	25 mm on all four axes
Maximum Speed	2.9mm/s
Resolution	0.132μm/0.033μm
Long Term Stability	10nm /h at 24°C.
Repeated positioning accuracy	Single axis ⩽1μm, three axis ⩽2μm

Order Information

MM-500-2	Motorized micromanipulators(Double-handed setup)
MM-500-L	Motorized micromanipulators(Left-handed setup)
MM-500-R	Motorized micromanipulators(Right-handed setup)
MM-500L	Left-handed mechanical manipulator
MM-500R	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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