



QUIETEST ELECTRONICS IN THE INDUSTRY.
OPTIMIZED FOR SINGLE CHANNEL RECORDING

SINGLE CONTROLLER AND ROE WILL RUN TWO
STEPPER MOTOR DRIVE MANIPULATORS

SELF-DETECTING, DAISY-CHAIN CAPABILITY ALLOWS
CONTROL OF FOUR MANIPULATORS FROM THE ROE-200

USER-FRIENDLY INTERFACE: SINGLE BUTTON ACCESS
TO ALL MAJOR FUNCTIONS

EASILY CONFIGURABLE VIRTUAL 4TH AXIS SET WITHOUT
EXTERNAL COMPUTER

ACCELERATED MODE FOR FAST, MANUAL MANIPULATOR MOVEMENT

EASY TOGGLE SELECTION OF MODE (SPEED/RESOLUTION, PULSED
DIAGONAL, ACCELERATED MODE)



MPC-200/MPC-385/MPC-325 MULTI-MICROMANIPULATOR SYSTEMS

Neurobiological experiments are becoming more complex. Many require multiple manipulators with control units that quickly become space and/or cost prohibitive. The **MPC-200** is the solution you have been asking for. A single controller capable of running 2 manipulators! Sutter Instrument has taken the simplicity of the **MP-225** controller and expanded it to run two manipulators from a single controller/ROE. The **MPC-200** works with our world-renowned mechanicals, the **MP-285 (MPC-385)**, **MP-225 (MPC-325)** or narrow format **MP-265 (MPC-365)**.

If two manipulators aren't enough, a second controller can be daisy chained to allow the single **ROE-200** to move up to four manipulators. Thus the system can be easily expanded to control highly sophisticated experiments.

The Sutter **MPC-200** is electrically quiet. Unique to the **MPC-200** is our multi-unit controller which

employs linear output circuitry to minimize electrical noise. Sutter adds additional manipulators or motorized translators to the same controller without requiring potentially noisy chopper drives. In all our manipulators, the 4th axis can be set up and changed without the need to connect an external computer and download and configure software. A separate configuration is allowed for each output on this manipulator controller. If desired, each manipulator can approach the prep at a different angle from the horizontal. The 4th axis can be configured between the X and Z axes or the Y and Z axes (useful when manipulator is rotated 90 degrees relative to the preparation).

Faster automated pipette exchange.

The **MPC-200** has faster "Home" and "Work Position" moves for quicker pipette exchange. Automation is set up and run via the same interface used in the **MP-225** controller; however, the speeds of the automated movement are much faster.

Accelerated manual mode.

For users who prefer manual pipette exchange we have added "Accelerated Mode" to the ROE. Using Accelerated Mode, the user can make quick manual moves in and out of a setup. Accelerated Mode amplifies the speed attainable in a manual move by smoothly accelerating to the maximum speed during sustained, fast turns of the ROE. Accelerated movement ends as soon as the user stops turning the knob. This mode can be fully disabled for those who feel the need for direct control of the pipette.

To provide the ultimate in flexibility, the **MPC-200** can be purchased separately or as basic systems such as the **MPC-385**, **MPC-365** and **MPC-325**. Additional component pieces can be added at any time, allowing the user to develop a system tailored to his or her particular needs. The controller is self-detecting, so there is no need for manual configuration of the components.



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