



STABLE SUPPORT AND SOLID DESIGN

ACCOMMODATES A VARIETY OF STAGE INSERTS

COMPATIBLE WITH UPRIGHT AND INVERTED MICROSCOPES

SUITABLE FOR MULTI-SITE, TWO-PHOTON, ELECTROPHYSIOLOGY



(Shown: MPC-78)

MPC-78/MP-78 LARGE MOVING STAGE PLATFORM

The **MPC-78/MP-78** Moving Stage platform is available for patch slice or in vivo experiments where the microscope body cannot be moved to view different fields of view. This is most common in two-photon experiments where the excitation beam path must enter a fixed microscope. In order to visit wide-spaced fields of view, and potentially position pipettes at wide-spaced locations, the preparation and any associated manipulators must move together on a large stage.

The **MPC-78/MP-78** was introduced at the 2007 Imaging Structure and Function in the Nervous System at Cold Spring Harbor Labs. The stage was very well received and is appropriate for use with inverted microscopes or other scopes that are large and not easily translated.

The **MPC-78** version uses our **MPC-200** multi-manipulator controller. Connecting the stage to one port leaves the second port open for a Sutter **MP-285**, **MP-265**, or **MP-225** manipulator. A simple switch on the ROE200 allows you to easily control the stage or manipulator. A second **MPC-200** controller can be daisy-chained to allow operation of a more complex system from one ROE200.

The **MP-78** version is operated by the **MP-285** controller, providing onboard programming capability along with control via a serial interface.

The cast aluminum top plate used in the platform has an attractive shape with an extensive 1/4-20 threaded hole pattern on 1-inch centers. This hole pattern is appropriate for mounting Sutter **MP-285** or **MP-225** manipulator mechanicals using the mounting adapter plates that come with these devices. Optional rotating bases (285RBI) are also compatible and add flexibility. Finally, the new **MP-265/M** mechanical can be mounted on its narrow linear slide.

The large-stage platforms provide solid, stable support and ample space to attach manipulators and other instruments as needed. The rigid aluminum top plate sits firmly on two of our well-known **MT-75** gantry-style stands. These stands provide height adjustment and sturdy attachment to the user's vibration table. Multiple degrees of freedom accommodate a variety of microscope and instrument arrangements.

In the center of the **MPC-78/MP-78** top plate is a 4X6 inch milled pocket that will accommodate a variety of aluminum stage inserts, designed to secure various commercial tissue chambers or slide holders. Custom aluminum inserts can also be provided. An available magnetic stainless steel insert carries commercial chambers or can be provided with a simple large, through hole for mounting a custom chamber. The magnetic insert allows small magnetic devices (perfusion lines, ground electrodes, small manipulators) to be mounted easily near the dish.

INDIVIDUAL COMPONENTS

MPC-78¹

Moving platform stage plate with motorized gantry supports and imperial/standard holes, MPC-200 controller (USB interface) and ROE, chamber inserts, cables and manual

MPC-78/M6¹

Same as MPC-78 except M6 tapped holes

MP-78¹

Moving platform stage plate with motorized gantry supports and imperial/standard holes, MPC-285 controller (serial interface) and ROE, chamber inserts, cables and manual

MP-78/M6¹

Same as MP-78 except M6 tapped holes

WITH FOCUS DRIVE

MPC-78/Y51/FD²

MPC-78 with focus drive for the Olympus BX51WI

MP-78/Y51/FD²

MP-78 with focus drive for the Olympus BX51WI

¹ Please specify chamber type when ordering.

² Other microscope makes and models may be available. Order with M6 or standard tapped holes.

SUTTER INSTRUMENT

One Digital Drive • Novato • CA 94949 • Phone 415.883.0128
Fax 415.883.0572 • Web www.sutter.com • Email info@sutter.com