



NEW!

HIGHLY STABLE FOR EXPERIMENTS
INTOLERANT OF DRIFT

SUBMICRON REPEATABILITY

SUBMICRON (50NM) MINIMAL
RESOLUTION FOR FINE MOVEMENT

THUMBWHEEL SELECTS SPEED
OF MOVEMENT

120MM OF MOTORIZED TRAVEL ON
THE X AXIS, 85MM ON Y AXIS



SMS-120 MOTORIZED MICROSCOPE STAGE

The **SMS-120** is a flat-top microscope stage designed for rapid, repeatable positioning of slides, chambered slides, multi-well plates, and other specimen holders. The stage is constructed from machined aluminum plates to minimize distortion. Precision crossroller bearings, high-accuracy lead screws, and stepper-motor based drives, assure smooth, responsive movement over the 120mm travel in the X axis and 85mm travel in the Y axis.

The **SMS-120** has a robust and innovative design that minimizes maintenance. Great care was made in choosing the right components for maximum lifetime and repeatability. The X and Y drive systems are fixed in a single position and remain fixed over the entire travel of the stage. (patent pending)

A controller, capable of rack mounting, provides the USB interface between the **SMS-120** stage and the computer. USB and Virtual Com Port (VCP) drivers are available for 3rd party software integration. The SMS controller also contains TTL in and out for device synchronization.

Joystick control is provided via a multi-functional inverted joystick. The joystick is height adjustable to optimize comfort during operation. The joystick contains a 6-position speed adjustment knob and function keys. The function keys are positioned on the joystick base and can be located by touch, eliminating the need to look away from the microscope. A centering function moves the stage to the center of travel, the "Home" position advances the stage to end of travel, and a "Work" command returns the stage to a position defined by the user anywhere in the range of travel.

The total travel of the **SMS-120** can be limited with adjustable end of travel magnets; a useful tool when working exclusively with specimen holders smaller than a multi-well plate. For user convenience, manual knobs have been provided for fine positioning so that simple manipulations can be made without powering the system.

SMS-120 SYSTEM¹

Includes the SMS-120 motorized stage, controller, joystick user-interface, connecting cable, manual, and one insert of your choice

SMS120/N27 SMS-120 system for Nikon TE2000

SMS120/N29 SMS-120 system for Nikon Ti

SMS120/Y71 SMS-120 system for Olympus IX71/81

ACCESSORIES

- 120-10²** Single slide insert with spring clips
- 120-20²** Multiwell plate insert 5in x 3.33in
- 120-30²** Single 35mm dish insert
- 120-40²** LabTek® chambered slide insert
- 120-50³** Universal stage insert

¹ Microscope models available at time of printing. Please contact Sutter to discuss the availability of other makes and models.

² No charge when ordered with SMS-120

³ Uses two adjustable sliders to secure either a single slide or a single dish of varying diameter (25 to 65 mm)



RoHS Compliant

SUTTER INSTRUMENT

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