

BioPoint2

Precision Stage System

Precision Positioning

The BioPoint2 is the second generation value priced automation solution from Ludl Electronic Products. Specifically designed for productivity enhancement, the stage system is carefully designed to provide high performance for routine applications with lower cost.

Unique design features are specifically optimized for the BioPoint2 stage improve the repeatability, resolution and ease of use. The BioPoint2 stage features a Teflon coated leadscrew driven by a dampened stepper motor for reduced hysteresis and higher repeatability.

The hard-anodized finish resists wear from daily use and is resistant to discoloration from chemicals or harsh environments.

The BioPoint2 systems are based on the popular MAC 6000 controller system. The MAC 6000 controller provides enhanced modularity and flexibility for the addition of accessories such as programmable focus drives and filter wheels.

The ease of use, integration and expansion make the BioPoint 2 system a high value automation system and an intelligent choice for microscope automation.



Inverted Microscopes

Designed to be compact while still providing full features. BioPoint2 stages for inverted microscopes are designed with microscope specific mounting and allowances to eliminate interference with normal microscope operation. The BioPoint2 inverted stages are compatible with standard LEP K-frame specimen holders.

Upright Microscopes

The BioPoint2 upright stage provides smooth, reliable positioning without interfering with conventional microscope operation. The design of the stage allows full access for specimen placement. Routine microscope controls and adjustments are also easily accessible.

The universal mounting system mounts the stage to nearly any commonly available microscope. The exchangeable mounting ring provides the correct mounting and clearance to ensure that the condenser can be properly focused and adjusted.

Features

- Low profile design
- Ergonomic - less repetitive motion strain
- High resolution
- Upright/inverted designs
- Compatible with most microscopes



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Performance Characteristics

	Upright Stage	Inverted Stage
Travel Range	75mm x 50mm	120mm x 100mm
Step Resolution	0.025µm	
Position Repeatability	2µm	
Motor Type	0.9 degree stepper	
Maximum Speed	30mm/second	
Weight	1.96 kg	2.10 kg

**when used with LEP MAC 6000 controller system*

System Configuration

A BioPoint2 system consists of a stage and controller package. The MAC 6000 controller features stackable modules for easy expansion and configuration.

996054	MAC 6000 BioPoint stage controller. Includes system power supply, RS232/USB interface, XY motor driver module, XY digipot joystick
96S201	BioPoint2 stage for upright microscopes. Includes XY stage, specimen holder for 1"x2" and 2"x3" slides, connection cable and microscope specific mounting ring.
96S209	BioPoint2 stage for inverted microscopes. Includes XY stage, connection cable and microscope specific mounting kit. Requires specimen holder.

Specimen Holders for Inverted Stages

The BioPoint2 inverted stage is compatible with standard K-frame inserts. LEP offers a wide array of inserts for common and uncommon specimens. Check with LEP for a detailed listing.

99A061	Single slide holder for 1"x3" glass slides - inverted stages
99A062	Single slide holder for 2"x3" glass slides - inverted stages
99A063	Multi-well plate holder for inverted stages
99A064-n	Fixed Petri dish holders, available for 36,39,51,54,60,65,88, 90 diam.
99A074	Adjustable petri dish/slide holder for inverted stage

Please call for additional accessory information

Options

Focus Control

High resolution focus control is an important accessory for an automated system. With the addition of a high resolution stepper motor to the microscope focus, the system has the ability for integrating positioning in XY and Z axes. Applications include autofocus, image deconvolution, stereology and tele-imaging.



Piezo Z-Stage

The BioPrecision2 Piezo focus insert features all of the expected performance of a Piezo focus: high speed, accuracy and high resolution. Fully integrated with the MAC 6000 controller, the Piezo Z-Stage features software compatibility with standard LEP focus controls. The Piezo Z-stage also features intuitive interactive user control for manual positioning.



Filter Wheels and Shutters

Programmable filter wheels and shutters are an essential component for an automated imaging system. LEP offers several different filter wheels with and without electronic shutters and ability to accept both 25 and 32mm diameter filter sets.



The MAC 6000 system is compliant with EU Directive 2002/95/EC for removal of hazardous substances (Pb, Hg, Cd, Cr(VI), PBB and PBDE). Ludl Electronic Products is committed to producing products that are environmentally friendly. We will continue to make it our responsibility to take an active role in conservation and protection of resources.