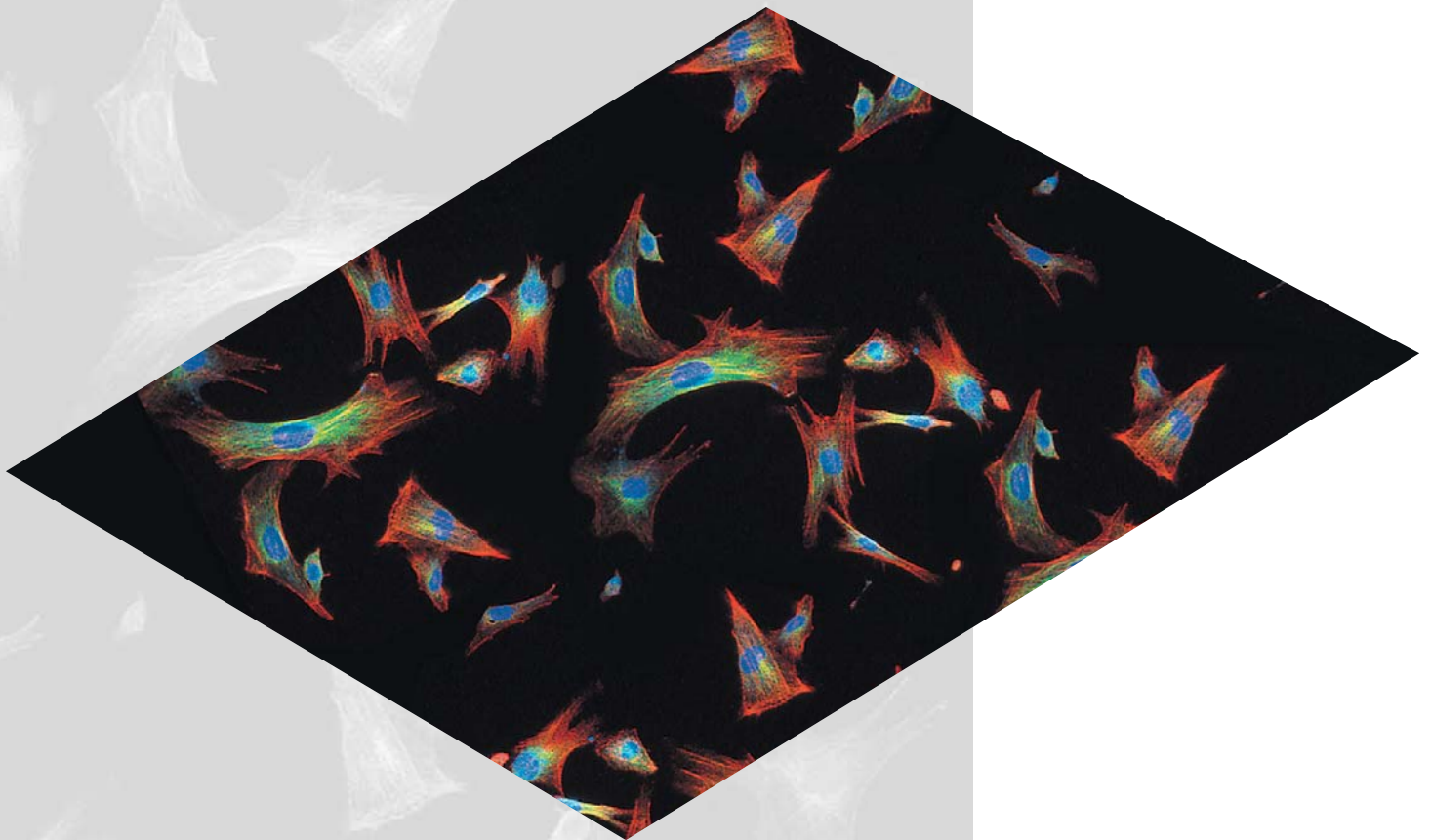


OptiScan™ II

PRIOR
Scientific

Motorized Stage Systems



Filter Wheels

The Filter Wheel system delivers smooth, high speed operation and changes filters in as little as 120ms. The system accepts ten 25mm or eight 32mm diameter filters. The filter wheel can be fitted to the excitation and emission ports of your microscope. Up to 2 filter wheels and 3 shutters can be operated from a single controller via your PC or an optional programmable touchscreen or a filter wheel keypad. The unique design of this filter wheel allows filters to be changed with ease and an optional support stand is available to reduce vibration effects. An optional sliding filter holder can be used for neutral density or infrared filters.

High Speed Shutters

Up to 3 shutters can be mounted directly to a microscope illuminator, a camera port or used in conjunction with a filter wheel. Control is via the USB/RS232 serial port or the optional programmable touchscreen or filter wheel keypad.

Ergonomic Joysticks

A 3-axis joystick is recommended with all stage systems to provide fast, responsive control of the stage. Two Hot Keys are provided to quickly change stage and focus motor speeds.

Filter Wheel Keypad

The Filter Wheel Keypad (CS100K) provides control of up to 2 filter wheels and 3 shutters, all at the simple press of a button. Shutters can be opened and closed while filter wheels can be moved to specific positions including next and previous.

Touch Screen Programmable Keypad

The Programmable Keypad (CS152KB) features touch screen technology and a comprehensive yet intuitive software package which provides complete programmability and control of the whole OptiScan II system.

A range of menus allow for programming of raster, snake and user-defined patterns which can be input, stored and recalled. Information on the current stage position is always available and points of interest can be saved for later review. Patterns and saved points can be downloaded to a PC for further analysis.

Digipot Focus Only Control

The digipot is standard on all focus only systems. It provides a tactile feel for fine focus adjustments while separate buttons offer immediate control of focus speed and fast movements up and down, for coarse focusing. The large digipot mimics the fine focus of your microscope.



OptiScan II Flexibility

Applications involving microscope automation are many and varied. OptiScan II was designed with this in mind and the result is the most flexible system commercially available. OptiScan II components can be configured in many different ways meaning that systems can be tailored to match your exact requirements. If your needs change you can rest assured that OptiScan II offers a simple path to future upgrades.



1 Axis system



2 Axis system for both upright and inverted microscopes



3 Axis system for both upright and inverted microscopes

OptiScan II Specifications

Power	Universal external power supply. Input 100-240V, 50/60Hz max 1.6A	Step Size (Resolution)	1 μ m
Communications Protocol	RS232C at 9600, 19200 or 38400 baud, 8 bit word, 1 stop bit, no parity, no handshake OR USB 1.0	Linear Slides	3mm ball bearings
Travel Range	Upright; 125mm x 75mm Inverted; 115mm x 77mm	Drive Mechanism	Anti-backlash precision lead screw
Repeatability	$\pm 5\mu$ m	Limit Switches	X and Y standard, semi-adjustable
		Filter Wheels	10 position, 25mm filters 8 position, 32mm filters
		Filter Wheel Speed	120ms between adjacent positions

OptiScan II

Affordable Microscope Automation



CERTIFICATE NO: FM 61600
STANDARD: BS EN ISO 9001:2000



ISO 9001:2000
FM 83854

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Specifications subject to change without notice.