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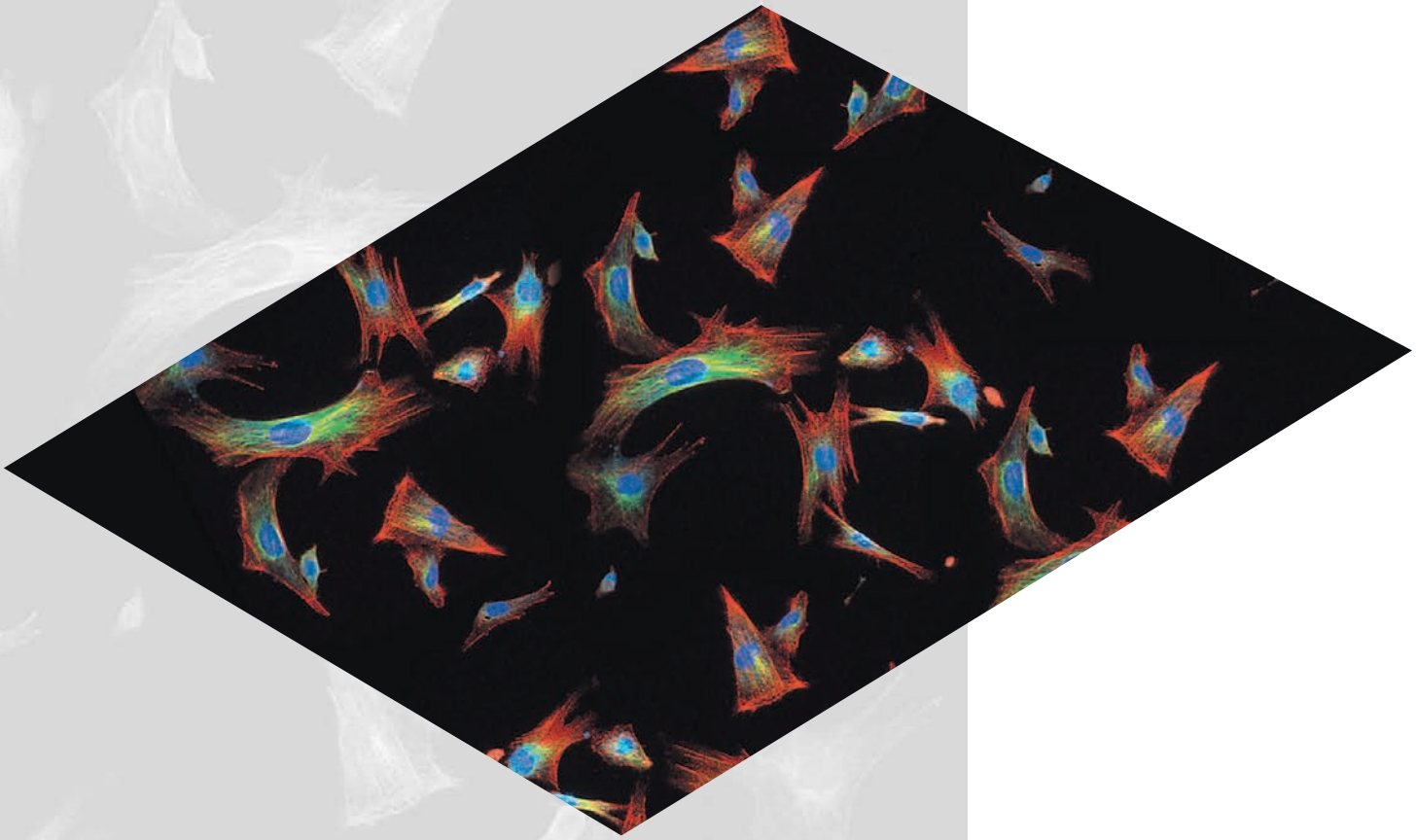
Find the *Prior ES9* at our website: ***Click HERE***

OptiScan™II

PRIOR Scientific

Motorized Stage Systems





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OptiScan™II: *Affordable Microscope Automation*

OptiScan™II is the latest in a long line of automated microscopy systems designed and manufactured by Prior Scientific. OptiScan™II is ideally suited to routine applications requiring an affordable combination of quality and reliability. Motorized stages, focusing mechanisms, filter wheels and shutters can be combined to match your specific needs, providing unmatched flexibility and a simple path to future upgrades.

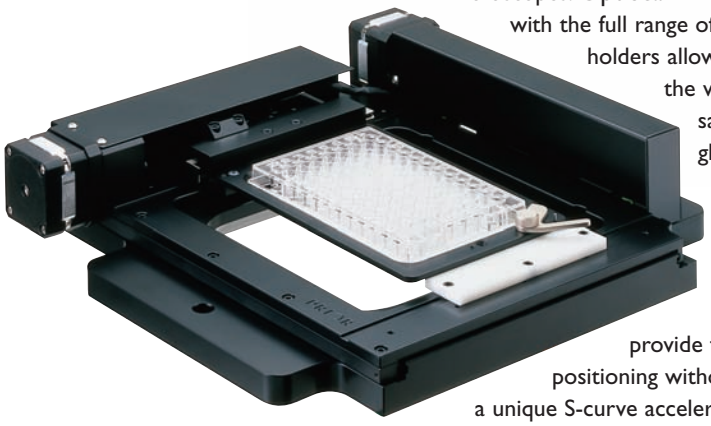
OptiScan™IIAdvanced Controller

At the heart of the OptiScan™II system is the more compact and more powerful ES10 controller. OptiScan™II is compatible with many of the world's leading image analysis packages ensuring simple and seamless integration between software and hardware. OptiScan™II controllers are supplied with a software development toolkit that includes comprehensive DLL, VB demo program and a full complement of ASCII commands. The software developer can utilize either the USB or the RS232 serial port for software communications. Uniquely, the OptiScan™II controller can be used to drive a motorized stage, a focus motor, up to two filter wheels and three shutters while new motor drive technology ensures significantly quieter and smoother motion. The 'plug & play' facility provides automatic configuration of system components making system set up very easy. The onboard flash memory enables simple firmware upgrades from your own PC.



Motorized Stage Systems

OptiScan™II stages are ideally suited to routine imaging applications. Using anti-backlash precision lead screws and accurate stepper motors, OptiScan™II combines reliability with the highest performance in its class. Semi-Adjustable limit switches are provided as standard and stages are available to fit most upright and inverted microscopes. OptiScan™II stages are compatible with the full range of Prior specimen holders allowing examination of the widest variety of sample types such as glass slides, multiwell plates, petri dishes and mounted metallurgical specimens. OptiScan™II stages provide fast, smooth positioning without vibration thanks to a unique S-curve acceleration algorithm.



Motorized Focus Control

OptiScan™II is ideal for applications where motorized focus control is needed. Step sizes as small as 0.1µm give excellent resolution for precise focusing and repeatable positioning in the Z-axis. For large movements when speed is required, the OptiScan™II focus motor can be driven at speeds of up to 16 revs/s. An optional encoder feedback system provides the highest accuracy and repeatability available.

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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 two filter wheels and three 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 three 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 two filter wheels and three 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.

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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.



3 Axis system for both upright and inverted microscopes



1 Axis system



2 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)	1µm
		Linear Slides	3mm ball bearings
Communications Protocol	RS232C at 9600, 19200 or 38400 baud, 8 bit word, 1 stop bit, no parity, no handshake OR USB 1.0	Drive Mechanism	Anti-backlash precision lead screw
		Limit Switches	X and Y standard, semi-adjustable
Travel Range	Upright; 125mm x 75mm Inverted; 115mm x 77mm	Filter Wheels	10 position, 25mm filters 8 position, 32mm filters
Repeatability	±5µm	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

PRIOR SCIENTIFIC INSTRUMENTS LIMITED
3-4 FIELDING INDUSTRIAL ESTATE
WILBRAHAM ROAD FULBOURN CAMBRIDGE CB1 5ET
TELEPHONE 01223 881711 FAX 01223 881710

PRIOR SCIENTIFIC INC.
80 RESERVOIR PARK DRIVE
ROCKLAND MA 02370-1062
TELEPHONE 781-878-8442 FAX 781-878-8736

VISIT PRIOR ON THE WEB AT www.prior.com

Specifications subject to change without notice.

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