

# OptiScan III

## Motorized Stage Systems



## OptiScan III Motorized Stage System

**The OptiScan™III is the latest in a long line of high quality, precise automated systems designed and manufactured by Prior Scientific. Routine microscopy applications can be performed with much greater accuracy and speed without sacrificing either affordability or reliability. The combination of the OptiScan™III controller, motorised stages and focussing mechanisms allows great flexibility and creates a powerful system tailored to your specific needs.**

### OptiScan™III Controller

The controller is at the heart of the system and is compact, yet powerful and versatile. It is compatible with the majority of popular image analysis software, allowing seamless integration between software and hardware. The controller is supplied with a software development tool-kit that includes comprehensive DLL, a 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. The OptiScan™III Controller can be used to control both motorized stages and focussing mechanisms. The 'plug & play' facility provides automatic configuration of system components making system set up very easy. Onboard flash memory enables simple firmware upgrades from your own computer.



### Motorized Stage Systems

OptiScan™III stages are ideally suited to a wide range of imaging applications. A wide range is available to fit most inverted and upright microscopes, and are compatible with the full range of Prior specimen holders; so examination of glass slides, multiwell plates, Petri dishes and metallurgical specimens is possible. Thanks to a unique S-curve acceleration algorithm, movement and positioning is smooth and without vibration.



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### Focus Drive

By adding the PS3H122 Focus Drive into your microscope, it is possible to finely control not only the motorized stage but also the focusing of the microscope itself, via either a joystick or from a computer. Step sizes as small as 0.1µm give extra resolution for precise focussing and repeatability. If larger movements are required, the motor can be driven at speeds of up to 16 revs/s.



### Ergonomic Joystick

The joysticks offer precise and ergonomic control of the stage, and, if required, the focus drive, allowing the user to use the joystick to focus the microscope as well, offering total and precise control of the X, Y and Z axes.

**Prior Scientific manufactures a wide range of products designed for a huge range of microscopy applications; from automated systems to illuminators, sample holders, filter wheels and robotic slide loaders.**

### Specifications

Power	Universal external power supply; Input 100-240V, 50/60Hz max 1.6A
Communications Protocol	USB, RS232C at 9600, 19200 or 38400 baud, 8 bit word, 1 stop bit, no parity, no handshake
Travel Range	Upright; 125 x 75mm, Inverted; 115 x 77mm
Repeatability	±5µm
Step Size (Resolution)	1µm
Linear Slides	3mm ball bearings
Drive Mechanism	Anti backlash precision lead screw
Limit Switches	X and Y standard, semi-adjustable

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### OptiScan III Flexibility

Many different applications require or benefit from microscope automation. Designed with this in mind, OptiScan™III is flexible and its components can be configured to precisely match your requirements and budget. Furthermore, the modularity of the system means that it is simple to upgrade your system if your requirements change. Please contact a Prior representative, email us or visit our website to learn more.

#### 2 Axis System

Used solely for control of the motorized stage



#### 3 Axis System

Used for control of the motorized stage and of focusing



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#### Worldwide distribution

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