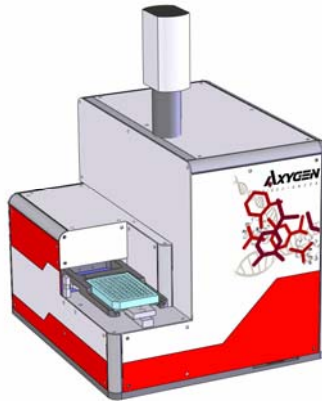


# AxyGEN

B I O S C I E N C E S



The AxyScanner<sup>TM</sup> is a complete system for automated high-resolution, high-speed protein crystal imaging. The AxyScanner system consists of a compact scanner that produces high quality, high contrast images *with* proprietary software for critical analysis of sitting, hanging, or microbatch experiments. AxyScanner's accurate and user friendly technology is designed to be an affordable solution to meet low- to high-throughput academic or industrial crystallography imaging needs.

## **Features and Benefits of the AxyScanner<sup>TM</sup>**

### **FEATURES**

- Footprint: 18" W x 16.5" D x 16" H, 40 pounds
- Micrometer precision stage
- Long-life cool lighting
- Motorized IRIS
- Plate holder with clamping system ensuring highly reproducible plate scanning
- Enclosure prevents sun light from reflecting on the seal and creating glare on the picture. It also provides safety by protecting user from moving parts.
- Easily accessible camera
- Accepts 100-220V, 50-60hz. For Europe a plug adapter is required.
- SBS Standard Plate/lids can be accessed by either portrait or landscape robotic grippers.

## **Zoom Lens**

- Zoom 16:1 with 2X or 10X objective, zoom range 1x– 20x or 5.7x-92x
- Fully apochromatic zoom system and apochromatic objectives for superlative contrast and detail richness
- Highest image fidelity for precise measurements, analysis and documentation
- Smooth, distortion-free images

## **Camera**

- High-Resolution, (choice of ) 2 or 4.19-Million-Pixel Sensor produces highly detailed, sharp images
- Large Pixels (7.4µm x 7.4µm) allows for high sensitivity, high dynamic range, large well capacity
- Low-Noise Electronics enhances quantitation & imaging of low light levels
- 12-Bit Digitization
- 4096 grey levels for precise light-intensity discrimination
- IEEE 1394 FireWire for easy installation

## **PC**

- Processor: Intel Core Duo (or equivalent)
- Graphic card: GeForce 8800 GTS with 640MB GDDR3 memory (or equivalent)
- Operating system: Windows XP Professional (option: Windows Vista when available)
- Screen: 19’’ ultra sharp digital flat panel

## **Purchase Price includes:**

- The AxyScanner
- Computer and monitor
- 1 year of maintenance (see below)

## **Maintenance**

Yearly maintenance includes

- Parts
- Labor
- All software upgrades for Crystalline released in that year.

Maintenance after the first year can be purchased

### **Additional features (not included in the base price) include:**

- Color camera
- Storage system with temperature control
- Extended warranty and/or maintenance
- Barcode reader
- 1 day of installation and training

### **BENEFITS**

- (1) **Focus Merging:** The camera takes image “slices” at each of several levels within the depth of the sample drop. The software then merges these images together to give a “Total” image that is extremely high resolution and extremely high contrast. The 4.0 megapixel camera on its own gives great images...combine this unique feature with focus merging and AxyScanner’s image quality is better than any scanner on the market currently. The number of slices can be adjusted to accommodate any size sample drop. The larger the drop, the more slices, and vice versa. The more slices, the better image resolution.
- (2) **Graphic Processing speed:** AxyScanner processes its images on the Graphic Processing Unit (GPU) of the PC, as opposed to the Central Processing Unit (CPU). No other scanner has adopted this feature. Since the GPU is engineered specifically to process image data, and does nothing but process image data, it can do so at a much faster speed and with greater accuracy than the CPU. Consequently, the AxyScanner operates with an average image processing speed of 4 seconds. For example, for extremely high resolution images, one could set the unit to run at 20 “slices”; image processing speed would be roughly 8-10 seconds.
- (3) **Optics:** AxyScanner features optics from one of the top manufactures of microscopes.
- (4) **Proprietary illumination system:** AxyScanner’s illumination is unique in the industry. It gives unmatched brightness (the brighter the light source, the better contrast and resolution) and an extremely long life (lower maintenance cost and less work). Greater brightness also reduces exposure time, reducing scan times, and protecting the sample.
- (5) **PC and monitor:** All included with purchase of the AxyScanner. A choice of monitors is offered; larger monitors will incur a higher cost.
- (6) **Plate orientation:** Will be user-selectable as either landscape or portrait.
- (7) **Consumables:** The AxyScanner is completely flexible in use of all manufacturers’ SBS standard crystallography plates.

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