



## Product Specifications for M200 ViewScan

**Type:** Compact desktop system for enhanced live-image view and immediate high resolution scan of microform images

**Microform Types:** Virtually all formats with standard configuration: fiche; jackets; micro-books; micro-opaques; aperture cards; 16mm and 35mm roll film; and cartridge (3M) roll film. Ultra fiche requires optional higher resolution fiche/ultra fiche lens.

**Application:** Professionally designed for film image viewing and research, not just for image capture. This includes intuitive software and rugged hardware designed for public use and heavy gauge metal throughout for smooth, sturdy performance. On-screen controls are provided and the M200 ViewScan is the only all-digital product compatible with standard motorized roll film carriers. This adds time-tested and user-pleasing ease of use, cost savings and improved film movement control versus inexpensive screen-only controls.

**Screen Size:** Any size Windows compatible video display (CRT or LCD). Larger screens such as 24" wide screen monitors can provide an enhanced viewing experience.

**Viewing:** Real-time viewing of high resolution microfilm image at all magnifications

**Magnifications:** Single integrated optical zoom lens 7X to 54X with digital zoom to 96X or 24X to 125X on more demanding ultra-fiche

**Image Rotation:** Digital 360° image rotation

**Focus Control:** Full automatic and manual (selectable)

**Scanning Speed (all magnifications):** Fast high-resolution captures. Initial 300 dpi<sup>1</sup> scan in one 1/6<sup>th</sup> second; dramatic image enhancements and much higher resolution output available in a wide range of popular formats in about one second.

**Scanning Resolutions (dpi)** <sup>1</sup>:(selectable) 150, 200, 300, 400 and 600, plus losses auto-scaling for higher resolutions using enhanced state-of-the-art image capture technologies<sup>2</sup>

**File Formats:** JPEG, PDF, TIFF, PNG, PDF multi-page, TIFF multi-page (all TIFF formats). All formats selectable from pull-down menu without having to prearrange multi-page PDF file folder, clutter the screen with icons or allow admin-level access to select various formats.

**Scan Mode:** **Monochrome** grayscale (256 levels), auto-enhanced for various output requirements

**Film Loading and Movement:** Your choice of various standard motorized roll film carriers for time-tested and user-pleasing ease of use, cost savings and much better control of film movement versus inexpensive screen-only controls. Offers easier film loading, larger glass platen, ability to see eye-readable portion of microfiche and ability to raise camera assembly to access and clean all glass surfaces and mirror. Film platen and take-up reels on same plane will not allow film to drag the carrier with it ahead of the camera so that images do not sway back and forth after fast-forwarding.

### M200 ViewScan SOFTWARE (standard)

- **Windows™ Application Look and Feel:** Utilizing the talents of graphic artists and sophisticated application programmers with Microsoft programmer experience, the result is a powerful and easy to use application that has the look and feel of a Windows™ business application that avoids a dizzying clutter of function icons on the screen.
- **Region of Interest Magnification:** One-click to magnify multiple levels without having to create or move a box around on the screen and view the magnification in another window that obscures the original image
- **Customizable Toolbar with Save and Recall Settings:** One-click recall of settings for any microform application
- **Real-Time View™:** Live image editing. See all image adjustments right on the viewing screen and see exactly what you will get when you scan, save or print - also called **What You See Is What You Get** editing.
- **On-Screen Thumbnails of Captured Images:** Keep track of which pages you have scanned without having to close down the application to open folders and individual scanned files to see what you have or have not yet captured for a better work process
- **Immediate Captured Image Review™:** This unique feature allows you to pull up a full-screen view of the actual saved image to verify that the cropping and capture quality are good; auto-scale to higher resolution without having to rescan
- **Automatic and Manual Edit:** Wide range of live image viewing with manual edit and auto enhance features
- **Multiple Output Capability:** Laser print, e-mail or save to USB thumb drive or CD. Easy-to-use print and export image management to avoid confusing icons that clutter the screen and reduce image viewing area.
- **Automatic Controls for Microforms:** Focus; brightness; contrast; straighten; cropping; one-click image adjustment

(software, continued)

- **Enhanced Cropping including Scissor Cut™ and Masking:** Features are fun and easy-to-use (like scissors) - cut out any shape column, text and pictures – automatically combined into a single saved image. Can also mask any area that you do not want to capture.
- **Kiosk Mode (administrator selectable):** Limits access to the desktop
- **Administrative Control:** Admin can select features such as output and printing options
- **On-Screen Help Menu (operator selectable):** Detailed on-screen explanation tutorial for all control buttons
- **Shortcut Keys:** Keyboard short cuts for many common tasks
- **Automated Scanning:** Future option that will overcome problems that plague other inexpensive software-based auto-scanning products. It will not be hampered by slow film movement, will not be susceptible to edge detection errors and will not require constant monitoring to insure accurate capture when image size or content vary.

**Film Carriers (optional):**

Combination fiche/aperture card carrier

Combination fiche and manual 16mm/35mm roll film carrier

Combination fiche/aperture card/ and Motorized 16mm/35mm roll film carrier

Combination fiche/aperture card and motorized 16mm/35mm roll film and cartridge film (3M) carrier

**Compatible Operating Systems:** all versions of 32-bit and 64-bit Windows XP, Windows Vista and Windows 7

**Scanner-to-PC Connection:** High-speed FireWire connection to computer (FireWire card included with purchase). USB connection for additional features.

**Dimensions:** 12"W x 12"D base x 6 5/8"H (305mm x 305mm x 165mm). Camera extends 5" off the back of the platform. Carrier widths vary; most are approximately 24" W and fit on the 12" square base.

**Weight:** 10 lbs. (4.1 kg). Most motorized carriers are 11 lbs. (5 kg) Total with carrier: 21lbs. (9.1 kg)

**Power:** 100-240VAC; 50/60HZ.

**Illumination Lamps:** Warranted for life of product

**Opaque Material Illumination:** Illumination of microfiche and micro-opaque media included; no additional cost for illumination of micro-cards

**ViewScan® Software Updates:** No charge for software updates for the life of the product

**File Management:** Temporary files are deleted from hard drives at the end of each session

**Power Consumption:** Less than 20 watts normal operation via single low-voltage power adapter that is UL, CS, CSA, CE, FCC approved.

**Remote Access (standard):** Operate the M200 ViewScan with Remote Film Access™ patent pending process from any remote location using a computer with internet access

**Security:** Security slot accepts standard security cable lock (lock not included)

**CE and RoHS Compliant:** Compliant with standards to meet international certifications and avoid substances identified as harmful to the environment.

<sup>1</sup> The M200 ViewScan optical resolution of 300 dpi is specified using the industry standard "at document" measurement; the maximum lossless image selectable image output exceeds 7,500 dpi x 10,000 dpi.

<sup>2</sup> The M200 ViewScan is the only microform scanner with the newest state-of-the-art image processing that includes Electronic Rolling Shutter (ERS), Global Reset Release shutter (GRR) and other image pre-processing features such as: auto-controlled gain; exposure; white balance (separate reference AOI); single-shot, multi-shot and free-run Region Of Interest image processing.

**NMS**

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