

MACH V

STRIP SCANNER WITH *QuantuM* SOFTWARE

The Crowley Company is pleased to introduce MACH V, the newest member of the Mekel MACH series. In combination with our *QuantuM Scan* and *QuantuM Process* software, the MACH V is the most advanced roll film scanning system on the market today, raising the industry standard with **100% image capture** and setting the bar higher than ever before.



HIGH PERFORMANCE ROLL FILM STRIP SCANNING

Designed for service bureaus, institutions, agencies and other large volume end-users, the MACH V handles **16mm** and **35mm** film formats up to **1,000 feet in length**, creating superior image quality at high speeds from even the most difficult film. The latest in camera, lens and Mekel's "smoothlight" fiber optic technology combine to deliver the most sophisticated system in the market.

NO RELOADING. NO RE-SCANNING.

Using *QuantuM Scan* and *QuantuM Process* software, the need to reload and re-scan film has been completely eliminated. The MACH V scans an entire roll of film in minutes and simultaneously detects all images, flagging those that need review. Whether reviewing an entire roll or just suspect frames, the operator has an array of manual and automatic features to ensure 100% accurate image detection. A sophisticated toolkit of image processing features promises the highest image quality possible.

MEKEL AN INDUSTRY ICON

The first to introduce microfilm and microfiche scanners to the market two decades ago, Mekel manufacturing continues to lead the industry in both product quality and innovation. Customers benefit greatly from the expanded wealth of expertise and combined knowledge generated by Mekel's place in The Crowley Company family of products and services.

See for yourself why Mekel is the time-tested leader in scanning. Try the new MACH V roll film scanning system today.

EQUIPMENT FEATURES

Full Roll Strip Scanning	<ul style="list-style-type: none">■ 1,000' roll standard■ 16mm/35mm■ Grayscale■ Bi-tonal (black & white)■ Image verification
Resolution	<ul style="list-style-type: none">■ 100-600 true optical dpi
Strip Scan Speed (fully processed)	<ul style="list-style-type: none">■ 200 dpi grayscale/6 minutes per roll■ 300 dpi grayscale/12 minutes per roll
Roll Film Speed (fully processed)	<ul style="list-style-type: none">■ Up to 350 images/700 files per minute at 200 dpi using FastFIM
Camera/Optics	<ul style="list-style-type: none">■ 80 megapixel/second camera, 160 megapixel/second output■ Full 8,192 pixel CCD array for highest true optical dpi in the industry■ Real-time or post-scan image processing up to 5x the typical processing speed■ QuantuScan (strip scanning) and FastFIM (traditional dual lead/trail edge detection) software both included■ 12-bit dynamic range with gamma correction grayscale output. Full depth of pixels processed■ Mekel "smoothlight" fiber optic bundle offers balanced lighting across the entire scan area with no hot spots or shadowing■ Direct path imaging: camera, film and light source are in-line to ensure optimum image quality■ Automatic Gain Control (AGC) to optimize image quality while scanning
Hardware Image Enhancement	<ul style="list-style-type: none">■ Real-time image sharpen and enhancement done in hardware; no reduction in throughput
Hardware Notables	<ul style="list-style-type: none">■ Superior transport stability■ Film-cleaning rollers; custom technology cleans film as it scans
Film Types	<ul style="list-style-type: none">■ Accepts ANSI, M-types and open spools in Silver, Diazo and Vesicular formats
Film Control	<ul style="list-style-type: none">■ Electronically-controlled film format selection for precise positioning of the CCD camera and lens■ High-speed rewind

SOFTWARE FEATURES

Image Processing	<ul style="list-style-type: none">■ Task set-up by job or saved in set-up file
Post-scan Image Processing	<ul style="list-style-type: none">■ Up to 1,600 images per minute
Frame Detection	<ul style="list-style-type: none">■ Single, double or triple level blip code detection■ Leading and trail edge detection

Quantu SOFTWARE HIGHLIGHTS

Standard with the new **MACH V** scanner, the **Quantu** scanning and processing software takes entire roll (strip) scanning to the next level.

- 100% image capture
- Full-roll scanning with automatic image detection on the fly
- Automatic image exposure, density and contrast controls
- No film re-scanning necessary. Entire roll is captured and images are quality-controlled, edited and re-formatted without reloading the film
- Wide variety of image output options: TIFF, JPEG, PDF, BMP and more
- Grayscale and/or B&W scanning without impacting speed
- Unique Mekel flag-image feature for suspect images
- "Go to" frame function for specialized quality control
- Advanced menus for detailed image enhancement features
- Dual-view capability to view bi-tonal and grayscale images simultaneously without impacting speed
- Image quality control and re-scan window that allows for real-time image enhancement
- Flexible and user-friendly Mekel file-naming and indexing capabilities