

MACH10 PRO

PRODUCTION MICROFILM SCANNER

Discover the future of document preservation with our new state-of-the-art Mekel MACH10 Pro microfilm scanner. Engineered to bring your archives into the digital age, the MACH10 Pro delivers unparalleled image clarity with its advanced technology and unique vertical transport system. Capable of meeting FADGI, Metamorfoze and ISO standards, it ensures your digitized documents adhere to the highest preservation criteria. Say goodbye to blurry scans and hello to crisp, clear images every time.



MEKEL
Technology
A CROWLEY COMPANY

KEY FEATURES

NEW Increased Speed

2x faster than previous models at all resolutions.

NEW Precision Hardware

Highly-refined precision lenses with 8 or 12-bit capture. Calibrated and focused LED light source.

Uninterrupted Productivity

24/7 operation with minimal maintenance requirements.

Versatile Film Handling

16 mm and 35 mm microfilm capabilities. 1,000' rollfilm and 3M/ANSI/Ektamate cartridge handling as standard.

Comprehensive Digital Conversion

Digital conversion to most electronic imaging formats including text-searchable PDF varieties and archival formats.

Reliable Image Capture

Accurate image capture from microfilm in varying states of decomposition. 100% accurate image capture on first pass — no reloads necessary.

Gentle Film Transport

Vertical transport system for stable and gentle film handling. No pinch rollers to dislodge or separate brittle/old film.

Advanced Software Solutions

Mekel's one-of-a-kind QuantumScan and QuantumProcess software suites provide a sophisticated toolkit of automated and manual image processing features to guarantee the best image quality possible and eliminate the need for rescans.

Maximum Uptime

External PC system for maximum uptime and easy technology updates.

Durable Design

Sturdy case with built-in reel storage.

User-Friendly Operation

"Load and go" intuitive operation.

Seamless Integration

Compatible with IMAGEhost.

“ We would have to charge double or triple the price if we were using our former scanners. With the MACH scanners, we require less scanners, less operators and have been able to cut the cost of rescans due to the higher quality images. We are saving hundreds of dollars per day, per operator, since installing the Mekel products. ”

~ Conversion service manager, West Coast Imaging Bureau

QuantumM SOFTWARE

Increased operator production

- Scan at full-rated speeds without operator intervention
- Drive multiple MACH10 Pro microfilm scanners with a single operator
- Share quality assurance tasks with multiple operators

Reduce microform scanning costs

- Never search for lost images
- Eliminate the need for rescans

Guaranteed 100% image capture

Optimum image quality

Windows 11 support

QuantumM Scan

Advanced Capture Software

- ▶ Speed
- ▶ Optimum resolution
- ▶ Template options
- ▶ Image quality settings
- ▶ Advanced focus option
- ▶ Pre-scan testing
- ▶ Multiple ribbon output options
- ▶ Advanced frame detection
- ▶ Easy transfer
- ▶ Easy workflow integration
- ▶ IMAGEhost integration*



QuantumM Process

Revolutionary Processing Software

- ▶ Optical Character Recognition (OCR)
- ▶ Batch processing
- ▶ Strip zoom capability
- ▶ Editing tool kit
- ▶ Automatic frame detection
- ▶ Fixed-grid frame replication
- ▶ Blip removal
- ▶ Irregular frame flag
- ▶ Custom processing
- ▶ Multiple output options
- ▶ Easy workflow integration
- ▶ Image enhancement
- ▶ File-naming features
- ▶ Auto-split and Book mode
- ▶ "Go To" command
- ▶ Re-Detect frames
- ▶ Blackout framing
- ▶ Document separation tagging

HARDWARE	
Camera/Optics	<p>CCD linear array: Full 8,192 pixel</p> <p>Dynamic Range: 8- or 12-bit with gamma correction grayscale output. Full depth of pixels processed.</p> <p>Imaging Path: Direct imaging path (camera, film and light source are in-line for optimum image quality)</p> <p>Automatic Gain Control (AGC): optimizes image quality while scanning</p> <p>Lighting: Mekel smoothlight fiber optic bundle balances lighting across entire scan area (no hot spots or shadowing)</p>
Resolution	<p>100-600 true optical dpi</p> <p>Reduction Ratio: 4x - 96x</p>
Film Types (100', 215' and 1,000' roll standard)	<p>16 mm and 35 mm microfilm; ANSI, M-types, Kodak Ekamate and open spools; simplex/duplex; positive/negative; silver, diazo and vesicular formats</p>
Hardware Image Enhancement	<p>Real-time image sharpen and enhancement done in hardware with no reduction in throughput</p>
Film Control	<p>Film Format Selection: Electronically-controlled for precise positioning of the CCD camera and lens</p> <p>High-speed rewind</p>
Hardware Notables	<p>Film cleaning rollers: custom technology cleans film as it scans if desired</p> <p>Speed Mode: Completes rolls in half the time (8-bit mode only)</p> <p>No adaptive speed control necessary</p>

SCAN SPEEDS (100' ROLL)

Resolution	200 dpi 24x
Time elapsed (non-speed/speed)	2.5 minutes/ 1 minute
Number of images per minute	1400 images
Speed mode	2800 images

PROCESSING & OUTPUT

Quantum Image Processing	<p>Task set-up by job or saved in set-up file</p> <p>1600 images or more per minute</p> <p>Single-, double- or triple-level blip code detection</p> <p>Full frame, leading and trail edge image detection</p>
File Formats	<p>Simultaneous grayscale and bitonal output; single or multi-page TIFF and PDF; TIFF (G4/LZW/uncompressed), JPEG, PDF, PDF/A, JPEG2000, bitonal CALS type 1 and others; OCR output to single/multi-page .PDF, .TXT and HOCR formats</p>
IMAGEhost Option	<p>Crowley software platform for online image hosting, storage, easy retrieval, editing and output</p>

GENERAL TECHNICAL INFORMATION

Agency Approvals	FCC, UKCA and CE certification
Power Requirement	50Hz or 60Hz; 90-240v; 500w, single-phase switch for domestic or international use
Operating System	<p>Windows 11 Pro</p> <p>External Dell high-end multi-processor, multi-core workstation</p> <p>Visit www.thecrowleycompany.com for full PC specs</p>
Dimensions (LxWxH)	15.5 x 15.5 x 22 in (394 x 394 x 560 mm)
Weight	50 lbs/22.7 kg



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DIGITIZATION SERVICES

SUPPORT SERVICES

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