



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. Say goodbye to blurry scans and hello to crisp, clear images every time.



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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

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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

16mm and 35mm microfilm capabilities. 1000' 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.

Quantum SOFTWARE

Increased Operator Production

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

Reduce Microform Canning Costs

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

Guranteed 100% Image Capture

Optium Image Quality

Windows 11 Support

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

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*

HARDWARE	
Camera/Optics	<ul style="list-style-type: none">- CCD linear array: Full 8,192 pixel- Dynamic Range: 8- or 12- bit with gamma correction grayscale output. Full depth of pixels processed.- Imaging Path: Direct imaging path (camera, film and light source are in-line for optimum image quality)- Automatic Gain Control (AGC): optimises image quality while scanning.- Lighting: Mekel smoothlight fiber optic bundle balances lighting across entire scan area (no hot spots or shadowing)
Resolution	<ul style="list-style-type: none">- 100-600 true optical dpi- Reduction Ratio: 4x- 96x
Film Types (100', 215' and roll standard)	16mm and 13mm microfilm; ANSI; M-types, Kodak Ekamate and open spools; simplex/duplex; positive/negative; silver, diazo and vesicular formats.
Hardware Image Enhancement	Real-time image sharpen and enhancement done in hardware with no reduction in throughout.
Film Control	<ul style="list-style-type: none">- Film Format Selection: Electronically-controlled for precise positioning of the CCD camera and lens- High-speed rewind
Hardware Notables	<ul style="list-style-type: none">- Film cleaning rollers: custom technology cleans film as it scans if desired.- Speed Mode: Completes rolls in half the time (8-bit mode only)- No adaptive speed control necessary

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	Task set-up by job or saved in set-up file 1600 images or more per minute Single-, double- or triple-level blip code detection Full frame, leading and trail edge image detection
File Formats	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 HOGR formats.
IMAGEhost Option	Crowley software platform for online image hosting, storage, easy retrieval, editing and output

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	- Windows 11 Pro - External Dell high-end multi-processor, multi-core workstation - Visit www.thecrowleycompany.com for full PC specs
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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