New in 2019!



Mobile. Modular. Miniature. Affordable.

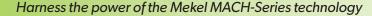
Small in stature and strong in scanning power, the MACH Mini offers the best in production-level microfilm scanning technology.
Fast and accurate capture. Excellent image quality. Durable hardware.

Money-saving efficiency...in one compact, stackable design.

The MACH Mini uses the industry favorite Mekel Technology Quantum software suite to provide high-quality digital images of archives and records from 16mm and 35mm microfilm in 100'/215' open spools or 3M cartridges.

KEY FEATURES

- Load and go operation. An easy film transport path and intuitive software makes loading, scanning and rewinding a simple process.
- Quantum software. The MACH Mini uses Mekel Technology's acclaimed Quantum software suite for image capture and processing. QuantumScan offers precise framing technology for accurate frontend capture. QuantumProcess offers extensive editing options to meet the exact image and file specifications needed for output.
- **External PC.** An included external PC ensures maximum flexibility, efficiency and minimized downtime. For added portability and space economy, the MACH Mini is also available with a laptop option.
- Stackable. Boasting the smallest footprint of any production scanner on the market, the space-saving design of the MACH Mini allows operators to command multiple scanners at once for increased throughput and greater return on investment without an increase in physical requirement.
- Resolution. Using a line array camera, the MACH Mini can capture images in 100-600 dpi true optical resolution. Compliant* with FADGI, Metamorfoze and ISO standards.
- Portable. The MACH Mini is ideal for end-users with multiple branches or with projects in different locations. Economically-sized, it can be safely transported commercially or personally in a protective carrying case.





Production Microfilm Scanner



EASY DIGITAL HOSTING AND FILE SHARING

Pairing the MACH Mini with Crowley's IMAGEhost platform offers end-users a unique full-cycle solution, allowing for collection scanning, hosting and sharing almost simultaneously.

IMAGEhost BENEFITS

- Cost-savings. IMAGEhost saves the cost of creating an expensive IT hosting infrastructure and lowers the man-hour requirements for search and research.
- Searchable text (OCR). IMAGEhost offers advanced OCR to make finding the images in their original format quick and efficient.
- Ease of use. With IMAGEhost, operating, editing and saving commands work at the touch of a screen, the stroke of a keyboard or the click of a mouse.



ASK ABOUT AN IMAGEhost FREE TRIAL WITH ANY MACH MINI PURCHASE







Increased operator production

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

Reduce microform scanning costs

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

Guaranteed 100% image capture

Optimum image quality

Quantum Scan

Automatic Frame Detection 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

Quantum Process

Optical Character Recognition (OCR) Batch Processing Strip Zoom Capability **Editing Toolkit** 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

TECHNICAL SPECIFICATIONS

LINE ARRAY CAMERA/OPTICS

- Up to 12-bit dynamic range with gamma correction grayscale output. Full depth of pixels processed.
- Real-time or post-scan image processing up to 5x the typical processing speed
- 80 megapixel/second camera; 160 megapixel/second output
- Full 8,192 pixel CCD array for highest true optical dpi in the industry
- Automatic Gain Control (AGC) to optimize image quality while scanning
- Mekel "smoothlight" fiber optic bundle balances lighting across entire scan area; no hot spots or shadowing

RESOLUTION

100-600 true optical dpi; 4x-96x reduction ratio

- 100' and 215' roll standard: open spool or 3M cartridge (optional)
- 16mm/35mm; simplex/duplex; positive/negative
- Silver, Diazo and Vesicular formats

SCAN SPEED

Up to 350 IPM: 7 minutes per 100' roll**

HARDWARE IMAGE ENHANCEMENT

Real-time image sharpen and enhancement done in hardware; no reduction in throughput

 Electronically-controlled film format selection for precise positioning of the CCD line array camera and lens; high-speed rewind

IMAGE PROCESSING

- Task set-up by job or saved in set-up file
- Single, double or triple level blip code detection
- Full frame image detection
- Simultaneous output of grayscale and bitonal files

IMAGEhost OPTION

Easy IMAGEhost integration for online hosting, storage, retrieval, editing and output

FILE FORMATS

- Output to single or multi-page TIFF and PDF
- Output to TIFF (G4/LZW/uncompressed), JPEG, PDF, PDF/A, bitonal CALS type 1 and others
- OCR output to single/multi-page .pdf, .txt and HOCR formats

HARDWARE NOTABLES

- Industry-leading reliability
- Includes compatible external PC with monitor and 10 TB storage (laptop option available)
- Well-balanced tension system and precisely placed comfort rollers for gentle film transport (avoid the dislodging or separating of brittle film caused by pinch rollers)

TECHNICAL SPECIFICATIONS

- Operating System: Windows 7, 8 and 10 Professional; 64-bit only
- Dimensions (LxWxH): 17 x 16.5 x 7.5 in. (30lbs.) / 43.18 x 41.91 x 19.05 cm (13.6 kg)
- Includes external Dell high-end multi-processor, multi-core workstation for maximum uptime and performance **16mm film at 200 dpi, 24x reduction

"The Quantum processing software is incredible...This is a tremendous competitive

advantage for our company."

Ryan Candela, Project Manager, Mountain States Imaging















