

New in 2019!

CROWLEY

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 Meikel 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 Meikel Technology's acclaimed Quantum software suite for image capture and processing. QuantumScan offers precise framing technology for accurate front-end 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.

*Exact levels of compliance dependent on microfilm condition and output requirements.

Harness the power of the Meikel MACH-Series technology

MACH Mini

Production Microfilm Scanner

IMAGEhost
Image Retrieval System

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



MADE IN AMERICA



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

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

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

FILM TYPES

- 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

FILM CONTROL

- 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*



MACH Mini