CROWLEY

Harness the power of the Mekel MACH-Series technology

MACH *Mini*

Production Microfilm Scanner

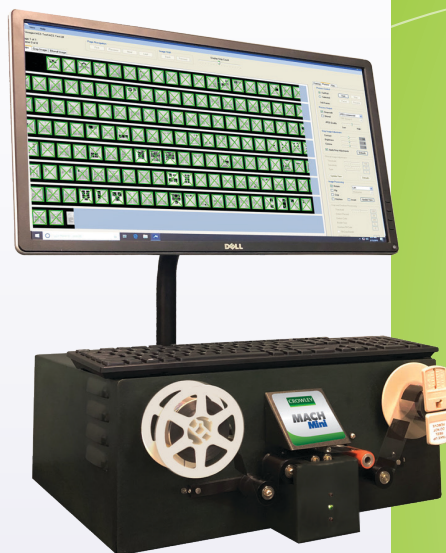## Mobile. Modular. Miniature. Affordable.

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 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 requirements.

- **Upgradeable.** As your volume needs increase, field upgrades can transform a 230 IPM model to a 350 IPM model with no loss of productivity.

- **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.

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.

FREE 30 DAY TRIAL INCLUDED WITH THE MACH MINI

Quantu**M** Software

| Load the roll | → | Select a local or network directory | → | Start production scanning | → |

Quantu**M** 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

Quantu**M** Process

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

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

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

TWO SCANNER MODELS
- 230 IPM: Scans at speeds of 10 minutes per 100' roll (upgradable to 350 IPM)
- 350 IPM: Scans at speeds of 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
- Hosts roll film for virtual storage, and image retrieval and output (30 day trial included)

QUANTUM OUTPUT
- File types: single/multi-page; bitonal TIFF (G3, G4); JPEG; TIFF uncompressed; PDF compressed (single/multi); JPEG2000; PDF/A and others

HARDWARE NOTABLES
- Industry-leading production-level reliability
- Includes compatible external PC with monitor and 10TB 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 10 Professional (64 bit only)
- Dimensions (LxWxH): 14.5 x 16 x 7.75 in. (30lbs.) / 26.9 x 40.7 x 19.7 cm (13.6 kg)

"The Quantum processing software is incredible…This is a tremendous competitive advantage for our company."

Ryan Candela, Project Manager, Mountain States Imaging

MADE IN AMERICA

CROWLEY

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