CROWLEY
DIGITIZATION PRODUCTS

MACH
Mini

MOBILE.
MODULAR.
MINIATURE.
AFFORDABLE.

PRODUCTION MICROFILM SCANNER

Small in stature and strong in scanning power, the MACH Mini offers the best in production-level microfilm scanning technology in one compact, stackable design. Fast and accurate capture. Excellent image quality. Durable hardware. Money-saving efficiency.

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

Ask about an IMAGEhost **FREE TRIAL with any MACH Mini purchase**

> The minimal learning curve and ability to process remotely through Quantum software gave our operator the ability to continue scanning and outputting images even through a pandemic.
>
> ~ Chuck Henry, Northern New York Library Network

KEY FEATURES

Load and Go Operation

Simple film loading, scanning and rewinding using an easy transport path and intuitive software.

Quantum Software

The MACH Mini uses acclaimed Mekel Quantum software suite for precise, accurate front-end capture and extensive editing/output options.

External PC

An included external PC or optional laptop features maximum flexibility, efficiency and minimized downtime.

Stackable

Boasting the smallest footprint of any production microfilm 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.

Resolution

The MACH Mini uses a line-array camera to capture images in up to 600 dpi true optical resolution. Compliant with FADGI, Metamorfoze and ISO standards.*

MADE IN AMERICA

Portable

The economically-sized MACH Mini can be safely transported in a protective carrying case and is ideal for end-users with multiple branches or projects in different locations.

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

Quantum SOFTWARE

Increased operator production

- Scan at full-rated speeds without operator intervention
- Drive multiple MACH Mini 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

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 - 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	16/35 mm microfilm; 100' and 215' roll standard (open spool or optional 3M cartridge); simplex/duplex; positive/negative; silver, diazo and vesicular formats
Scan Speed	Up to 350 IPM; 7 minutes per 100' roll (16 mm film at 200 dpi, 24x reduction)
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 save 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	Easily integrate images into Crowley's IMAGEhost platform for online hosting, storage, retrieval, editing and output. The unique full-cycle solution saves collection owners the cost of creating an expensive IT hosting infrastructure by offering a user-friendly platform to text search or browse for images in their original format via any internet-enabled device. **Visit** *hostedarchives.info* **for details.**
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 (laptop option available) - Additional storage options - 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)
Operating System	Windows 10 Pro (64-bit only). Visit www.thecrowleycompany.com for full PC specs. Includes external Dell high-end multi-processor, multi-core workstation for maximum uptime and performance
Dimensions (LxWxH)	17 x 16.5 x 7.5 in. (431.8 x 419.1 x 190.5 mm)
Weight	30 lbs/13.6 kg

CROWLEY
DIGITAL PRESERVATION SOLUTIONS

DIGITIZATION PRODUCTS   DIGITIZATION SERVICES   SUPPORT SERVICES

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