

# MACH Mini Film

**MOBILE.  
MODULAR.  
MINIATURE.  
AFFORDABLE.**



## PRODUCTION MICROFILM SCANNER

Small in stature and strong in scanning power, the [MACH Mini Film](#) 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 Film 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 Film** 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 Film uses the acclaimed Mekel Quantum software suite for precise, accurate front-end capture and extensive editing/output options.

### External PC

An included external PC drives the scanner for 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 Film allows operators to command multiple scanners at once for increased throughput and greater return on investment.

### Resolution

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

### Portable

The economically sized MACH Mini Film 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.

# QuantumM 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

## 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



## QuantumM Process Revolutionary Processing Software

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

## TECHNICAL SPECIFICATIONS

<b>Line Array Camera/Optics</b>	<ul style="list-style-type: none"> <li>• Up to 12-bit dynamic range with gamma correction grayscale output. Full depth of pixels processed.</li> <li>• Real-time or post-scan image processing up to 5x the typical processing speed</li> <li>• Full 8,192 pixel CCD array for highest true optical dpi in the industry</li> <li>• Automatic Gain Control (AGC) to optimize image quality while scanning</li> <li>• Meikel's condenser lens light source provides balanced lighting across the entire scan area; no hot spots or shadowing</li> </ul>
<b>Resolution</b>	100-600 true optical dpi; 4x-96x reduction ratio
<b>Film Types</b>	16/35 mm microfilm; 100' and 215' roll standard (open spool or optional 3M cartridge); simplex/duplex; positive/negative; silver, diazo and vesicular formats
<b>Scan Speed</b>	Up to 500 IPM; 4 minutes per 100' roll (16 mm film at 200 dpi, 24x reduction)
<b>Hardware Image Enhancement</b>	Real-time image sharpen and enhancement done in hardware; no reduction in throughput
<b>Film Control</b>	Electronically controlled film format selection for precise positioning of the CCD line array camera and lens; high-speed rewind
<b>Image Processing</b>	<ul style="list-style-type: none"> <li>• Task set-up by job or save in set-up file</li> <li>• Single-, double- or triple-level blip code detection</li> <li>• Full frame image detection</li> <li>• Simultaneous output of grayscale and bitonal files</li> </ul>
<b>IMAGEhost Option</b>	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 <a href="http://hostedarchives.info">hostedarchives.info</a> for details.
<b>File Formats</b>	<ul style="list-style-type: none"> <li>• Output to single or multi-page TIFF and PDF</li> <li>• Output to TIFF (G4/LZW/uncompressed), JPEG, PDF, PDF/A, bitonal CALS type 1 and others</li> <li>• OCR output to single/multi-page .PDF, .TXT and HOCR formats</li> </ul>
<b>Hardware Notables</b>	<ul style="list-style-type: none"> <li>• Industry-leading reliability</li> <li>• Includes compatible external PC with monitor</li> <li>• Additional storage options</li> <li>• 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)</li> </ul>
<b>Operating System</b>	Windows 10 and 11 Pro. Visit <a href="http://www.thecrowleycompany.com">www.thecrowleycompany.com</a> for full PC specs. Includes external Dell high-end multi-processor, multi-core workstation for maximum uptime and performance
<b>Dimensions (LxWxH)</b>	17 x 16.5 x 7.5 in. (431.8 x 419.1 x 190.5 mm)
<b>Weight</b>	30 lbs/13.6 kg



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