

Launching
in 2023

MACH MiniFiche

PORTABLE MICROFICHE SCANNER



Designed using the industry-acclaimed Meikel Technology MACH7 production microfiche scanner as its core influence, the Crowley-manufactured MACH Mini Fiche offers collection owners a compact, manual load solution to digitize all formats of microfiche and aperture cards in excellent quality.

Durable and affordable, the MACH Mini Fiche is ideal for institutions requiring a robust scanner that fits easily into crowded workstations or can be transported between departments. Using industry-favorite Quantum software, the MACH Mini Fiche provides high-quality images, comprehensive editing features and efficient workflows.

**SMALL SIZE.
BIG SCANNING POWER.**

“Having used the Meikel scanners for more than a decade, I can say that the quality and capabilities of the scanners keep advancing.”

~ Luc Bodson, Technical Engineer, iGuana

KEY FEATURES

Dual-Camera System

The MACH Mini Fiche uses a single-pass*, pre-scan camera that locates images before a second camera captures the frames as high-quality images. This ensures that only images and not blank film are scanned, saving time/digital storage space and eliminating rescans.

Versatility

Step and Repeat. COM. Jackets and more. Using a CCD camera, condenser lens and smooth lighting, the MACH Mini Fiche expertly converts any microfiche format to a digital file. Both bitonal and grayscale images can be captured simultaneously without impacting speed.

Superior Image Quality

The MACH Mini Fiche delivers clear and consistent image quality while offering a variety of automatic image adjustment features including: cropping; rotation; deskew; mirroring; inverting and more.

Portable

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

External PC

An external PC drives the MACH Mini Fiche for maximum uptime and easy technology updates.

Advanced Software Features

The MACH Mini Fiche uses acclaimed Meikel Quantum software suite for precise, accurate front-end capture and post-capture editing. Features which increase efficiency for microfiche scanning include:

- ▶ **Serpentine scan** option to increase throughput and life of hardware
- ▶ **OCR Title Naming** to recognize header or title text for accurate, convenient file naming
- ▶ **Windows 11** support
- ▶ **Optical Character Recognition** to create text searchable files

*Double pass for AB Dick and Jumbo formats

SIMPLE AND POWERFUL SOFTWARE

The MACH Mini Fiche is powered by FastFiche - an easy and intuitive software - and offers the ability to use the advanced Quantum software suite, all of which are operable within minutes of installation.

For those with multi-media collections, the QuantumScan and QuantumProcess softwares can be used on both microfiche and microfilm images scanned using MACH-series scanners.

FastFiche

On-the-fly Scanning and Processing Software

- ▶ Easy-access tabs for quick job set-up
- ▶ Advanced menus for detailed image enhancement
- ▶ Dual-scan capability to capture and view both bitonal and grayscale images simultaneously** without impacting speed
- ▶ Image quality controls and previews for real-time image enhancement
- ▶ Flexible file-naming capabilities

Quantum Scan

Advanced Capture Software

- ▶ Optimum resolution
- ▶ Project presets
- ▶ Image quality settings
- ▶ Pre-scan testing
- ▶ Multiple ribbon output options
- ▶ Easy workflow integration

Quantum Process

Revolutionary Processing Software

- ▶ Optical Character Recognition (OCR) for keyword search
- ▶ Automatic frame or fixed-grid image detection
- ▶ Batch processing
- ▶ Editing toolkit
- ▶ Fixed-grid frame replication
- ▶ Irregular frame flag
- ▶ Blackout framing
- ▶ Image enhancement
- ▶ Dual output option
- ▶ Document separation tagging

**Using direct output scanning

HARDWARE	
Camera/Optics	Up to 12-bit dynamic range with gamma correction grayscale output. Full depth of pixels processed. Advanced adaptive Automatic Gain Control (AGC) handles varying film density in real-time across the fiche Dual-camera system locates frames before capture Full 8,192 pixel CCD array for highest true optical dpi in the industry 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
Speed (Fully Processed)	24x/200 dpi: Up to 130 ppm 42x/200 dpi: Up to 75 ppm 48x/200 dpi: Up to 65 ppm
Film Types	Supports all standard aperture card and fiche types including: standard or long jackets; COM; AB Dick; Ultra Fiche and Microx; 16 mm or 35 mm; combo 16/35 mm; simplex or duplex; positive or negative; diazo; silver; vesicular; duplicates; cine/comic mode formats

GENERAL TECHNICAL INFORMATION	
Agency Approvals	FCC, CE and RoHs certification
Power Requirement	50Hz or 60Hz/100v to 240v AC/800 watt single-phase, autosensing for domestic or international use
Operating System	Windows 10 and 11 Pro Includes external Dell high-end multi-processor, multi-core workstation for maximum uptime and performance Visit www.thecrowleycompany.com for full PC specs
Dimensions (LxWxH)	12.25 x 13 x 23.75 in (311.15 x 330.2 x 603.25 mm)
Weight	38 lbs/17 kg

CAPTURE FEATURES		
Scan Options	Microfiche	Aperture Card
	Scan modes: row-by-row; serpentine; single	Film image
	User-defined title bar/header (translucent/opaque) pre-scans for layout, naming and indexing references Simultaneous grayscale and bitonal capture and output for increased efficiency (FastFiche and QuantumProcess)	
Frame Detection	Single-pass intelligent pre-scan automatically detects all images regardless of size or location "Presence Pre-scan" feature allows for faster throughput on COM by automatically detecting and scanning only those frames that contain data	
Image Digitization and Processing	Real-time image sharpen and enhancement done in hardware with no reduction in throughput Interactive selection of individual images or automatic capture of entire fiche row as an individual image Real-time automatic and manual control of rotation, cropping, deskew and automatic compression of film background density Real-time image processing provides 5x the typical processing speed Task set-up by job or saved in set up file Optical Character Recognition (OCR) of selected title bar text Optical Character Recognition (OCR) of final output images (QuantumProcess only)	
Viewing/Browsing	View full or partial screen in real-time or by thumbnail, emulating fiche layout Real-time dual view of bitonal and grayscale images (FastFiche and QuantumProcess)	

OUTPUT	
File Formats	Simultaneous output to grayscale and bitonal formats (FastFiche and QuantumProcess) Output to single or multi-page TIFF and PDF (FastFiche and QuantumProcess) Output to TIFF (G4/LZW/uncompressed), JPEG, PDF, PDF/A, JPEG2000, bitonal CALS type 1 and others (QuantumProcess only) OCR output to single/multi-page .PDF, .TXT and HOCR formats (QuantumProcess only)



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