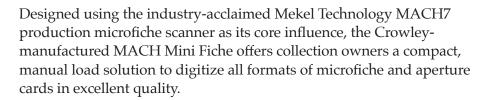


# MACH Minifiche

# PORTABLE MICROFICHE SCANNER



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 Mekel 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 singlepass\*, 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 Mekel 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









#### 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	24x/200 dpi: Up to 130 ppm	
(Fully Processed)	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)	23.75 x 12.25 x 13 in (603.25 x 311.15 x 330.2 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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