

# MACH7

## PRODUCTION MICROFICHE SCANNER

The MACH7 is a high-speed, high-volume microfiche scanner built for exceptional image quality and reliable performance. Compatible with various fiche and aperture card formats, it's trusted for its automation, ease of use, and production power. Features like a precision pick-up arm, pre-scan, and batch scanning ensure fast, accurate first-pass image capture—making it the standard for professional microfiche digitization.



## KEY FEATURES

### Dual Camera System with Smart Pre-Scan

A unique dual-camera setup makes scanning faster and smarter. The first camera locates images in a single pass, while the second captures them—reducing scan and labor time. Built-in pre-scan tools let users define title bars, layout, naming, and indexing before scanning begins.

### High-Speed Automated Batch Scanning

The MACH7 powers through microfiche at 200+ images per minute. With a 75-sheet hopper and a removable loading arm it's built for fast, automated full microfiche, multi-row, and serpentine scanning.

### Precision Lighting

A fiber optic system ensures smooth balanced illumination no hot spots, no shadows, just clean, clear images from edge to edge.

### Superior Image Quality

Capture crisp, accurate images every time with built-in tools for cropping, rotation, deskewing, mirroring, inversion, and focus.

### Integrated Auto-Loading

An onboard auto-loader handles microfiche with ease, while an optional arm is available for aperture card scanning.

### Dual Output Efficiency

Capture grayscale and bitonal images at the same time—doubling your output, not your effort.

### External PC Workstation

Each MACH7 system comes with a dedicated external PC powered by a high-performance, multi-core processor—built for uptime, speed, and reliability.

### FastFiche and Quantum Software Suite

The MACH7 runs on intuitive FastFiche software for quick, on-the-fly scanning. For advanced needs, it integrates with Mekel Technology's Quantum Software Suite and QuantumOCR for optical character recognition, title bar naming, and full-text search capabilities.

“ Having used the Mekel scanners for more than a decade, I can say that the quality and capabilities of the scanners keep advancing. The MACH7 scanner has built on the success of past models to become the quality standard in capture mechanics and electronics.

~ Luc Bodson, Technical Engineer, iGuana ”

# TECHNICAL SPECIFICATIONS

## Performance

Scan Speeds	Up to 200 ppm (24x, 200 dpi) Up to 200 ppm (42x, 200 dpi) Up to 260 ppm (48x, 200 dpi)
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Resolution	100-600 true optical dpi
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Reduction Ratio	4x-96x
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Scan Modes	Microfiche: Batch mode, row-by-row, serpentine, single microfiche Aperture card: Film image, full card capture, Hollerith Code (optional)
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## Image Quality

Camera	Two-camera system Main Camera: High-resolution scan sensor, Full 8,192 pixels PreScan Camera: Frame mapping sensor, 2,000 pixels
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Bit Depth	Up to 12-bit
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Lighting	Fiber optic LED lighting system
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Image Enhancement	Real-time image sharpening and enhancement
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## Microfiche Handling

Microfiche Compatibility	Step and Repeat, Long jackets, Combination (16 mm/35 mm combo), COM, AB Dick, Ultra microfiche and Microx
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Microfiche Formats	Simplex/Duplex, Positive/Negative, Silver/Diazo/Vesicular formats, Duplicates, Cine/Comic mode
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Microfiche Handling	Manual/Automatic
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Input Hopper Capacity	Up to 100 microfiche or 75 aperture cards
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## Power and Safety

Voltage	100-240 V
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Frequency	50/60 Hz
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Max. Consumption	800 W
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Agency Approvals	FCC, CE and RoHs certification
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## Software

Operating System	Non-integrated scan controller PC - Windows 11 Pro
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Compatible Software	FastFiche (multi-language UI), QuantumProcess (multi-language), QuantumOCR, and IMAGEhost
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## Dimensions and Weight

Dimensions (LxWxH)	33 x 18 x 19 in (838 x 457 x 483 mm)
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Weight	130 lbs/56 kg
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