

# MACH Mini Film

## PRODUCTION MICROFILM SCANNER

The MACH Mini Film delivers powerful, production-level microfilm scanning in a compact, stackable design. Built with durable hardware and powered by the trusted Mekel Technology's Quantum Software Suite, it offers efficient, high-quality digital conversion for archives and records. Ideal for small-to-mid size service bureaus, archives, government agencies, and others with microfilm archives.

### KEY FEATURES

#### Load and Go Operation

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

#### Quantum Software Suite

Compatible with Mekel Technology's QuantumScan for advanced image capture and QuantumProcess for automated enhancements and precise manual fine-tuning. Use QuantumOCR to deliver optical character recognition capabilities.

#### Versatile Film Handling

Handles 16 mm and 35 mm microfilm, in 100 ft/215 ft open spools or 3M cartridges.

#### 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, this space-saving design allows operators to control multiple scanners at once for increased throughput and greater return on investment.



#### Seamless System Integration

Fully compatible with IMAGEhost for streamlined digital access, storage, and sharing.

#### 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.

“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



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

## TECHNICAL SPECIFICATIONS

### Performance

Scan Speeds	Up to 500 ipm or 4 minutes per 100 ft roll (16 mm film at 200 dpi, 24x reduction)
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Resolution	100-600 true optical dpi
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Reduction Ratio	4x-96x
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### Image Quality

Camera	Full 8,192 pixel CCD array
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Bit Depth	Up to 12-bit
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Lighting	Condenser lens light source
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Image Enhancement	Real-time sharpening and enhancements, no reduction in throughput, Automatic Gain Control
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### Film Handling

Film Compatibility	16 mm/35 mm microfilm, 100 ft/215 ft/1,000 ft ANSI clips, M-type cartridges, Kodak Ekamate and open spools
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Film Formats	Simplex/Duplex, Positive/Negative, Silver/Diazo/Vesicular formats
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Film Handling	Balanced tension system Comfort rollers for gentle film transport (no pinch rollers) Electronically controlled film format selection High-speed rewind
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### Power and Safety

Voltage	90-240 V
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Frequency	50/60 Hz
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Max. Consumption	500 W
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Agency Approvals	FCC, UKCA, 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	QuantumScan (multi-language UI), QuantumProcess (multi-language UI), QuantumOCR, and IMAGEhost
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### Dimensions and Weight

Dimensions (LxWxH)	17 x 16.5 x 7.5 in (431.8 x 419.1 x 190.5 mm)
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Weight	30 lbs/13.6 kg
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