

In 1989, Mekel Technology brought the world its first microfilm scanner.

Today, it brings the most advanced microform processing software in the market.

# Quantu



**Roll film. Ribbon scan. Strip scan. Full fiche. Complete capture.**

No matter what the technology is called, when it comes to full-fiche or full-roll ribbon scanning, Mekel Technology's *Quantum* software scanning and processing technologies offer superior image capture, quality, processing and savings benefits.

### **Increase operator production**

Scan at full-rated speeds without operator intervention

Share quality assurance tasks with multiple operators

Drive multiple **MACH-series** microfilm and microfiche scanners with a single operator

### **Reduce microform scanning costs**

Never search for lost images

Eliminate the need to re-scan

### **100% image capture guaranteed**

### **Optimum image quality**



CROWLEY

# ADVANTA

## QuantumScan

# ADVANTA

## QuantumProcess

### Easy To Use Microfilm Workflow



### Automatic Frame Detection

Regardless of size, **QuantumScan** will find any frame automatically on a scanned roll without the need for complicated set-up wizards – 100% image capture guaranteed

### Speed and Quality

Using varying resolution and reduction scenarios, the **Mekel MACH V** can operate at speeds up to 500 frames per minute. Offers the highest optical resolution on the market with an 8192 pixel DDD Array

### Template Options

Create job templates for like rolls, ensuring the continuation of quick and easy scanning

### Image Quality Settings

Utilize independent grayscale and bi-tonal settings for one-time, easy set-up to ensure optimum image quality capture

### Advanced Focus Option

Fine-tune focus within seconds for various film thicknesses to ensure optimum image quality

### Pre-Scan Testing

Provides quick confirmation that images are correctly framed and that desired image quality has been achieved before starting production scanning

### Multiple Ribbon Output Options

Various strip output formats are available including: uncompressed TIFF, JPEG and bi-tonal TIFF

### Advanced Frame Detection

**QuantumScan** detects simplex, duplex, comic and cine mode film formats on the fly

### Easy Transfer

**QuantumScan** turns raw roll footage into manageable strips, allowing for easy transfer to centralized storage and quality assurance.

### Easy Workflow Integration

**QuantumScan** enables scripting integration to launch customized functionality within the software or for third party applications

### Revolutionary Microform Processing Workflow

#### Batch Processing

Single or multiple **QuantumProcess** license availability enables digital reels and fiche jackets to be processed across a network by multiple quality assurance technicians

#### Strip Zoom Capability

Use the image zoom function to allow for a range from “quick glimpse” to “detailed review” for quality and frame accuracy

#### Editing Toolkit

A sophisticated toolkit ensures that multiple editing functions are only a mouse click away: frame creation, resize, delete, insert, overlap, undo, mirror, invert, etc.

#### Fixed Grid Frame Replication

Allows for the setting of a fixed image size and spacing to be applied to all frames or selected frames in a group

#### Blip Removal

Provides the option to remove blips from frame detection

#### Irregular Frame Flag

Save time and labor by selecting a median average of all frame sizes, flagging only those images that fall outside of the average for review

#### Custom Processing

The “all” or “selected” options give the operator the ability to process/export all images in a strip or only those pre-selected

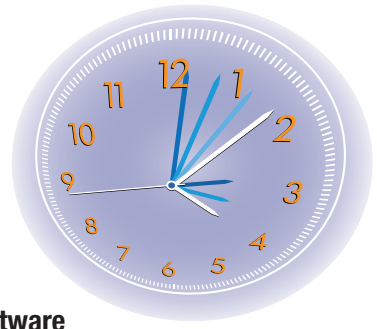
#### Multiple Output Options

Various file output options include uncompressed TIFF, JPEG and others, as well as PDF, TIFF G4 in single/multi-page

Additional output options include: grayscale files only; bi-tonal files only; or simultaneous grayscale and bi-tonal files

# G E S

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Easy and intuitive software interface enables operators to be up and running in minutes

## Easy Workflow Integration

**QuantumProcess** enables scripting integration to launch customized functionality either within **QuantumScan** or third party applications

## Image Enhancement

A full complement of enhancement features is available for image quality corrections on either an individual image, a selected group of images or an entire digital film roll

**Dual view.** Allows for quick and easy tabular-style view of both the grayscale and bi-tonal version of the image under review

**Real-time.** With a quick slide of the image enhancement toolbar, the operator receives immediate visual feedback of the selected settings within the image

**Editing tools.** Take advantage of a full complement of image processing features to include crop, deskew, invert and rotate to name a few

## File-Naming Features

**Flexibility.** **QuantumProcess** allows for user-definable file names and directories. Dual file output can be saved to the same or different/multiple file locations

**Duplex-naming.** Various options are available regarding desired duplex file-naming output

**Blip-naming.** Have the ability to output various file names and/or group files by blip/image marks within the blip channel of the film

## Auto-Split and Book Mode

Auto-detect and split oversized frames. Gutter overlap settings are also available to ensure that no data is cut off within the gutter portion of the open book image

## “Go To” Command

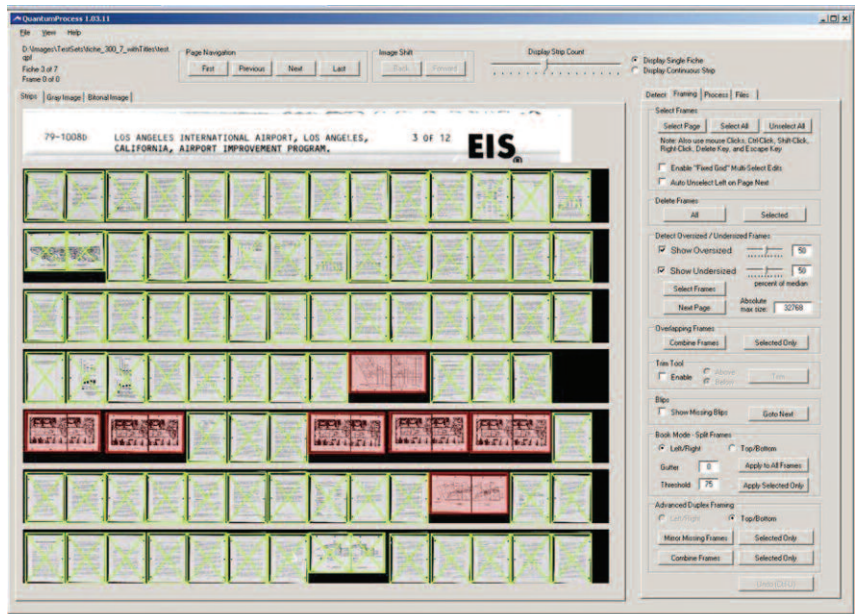
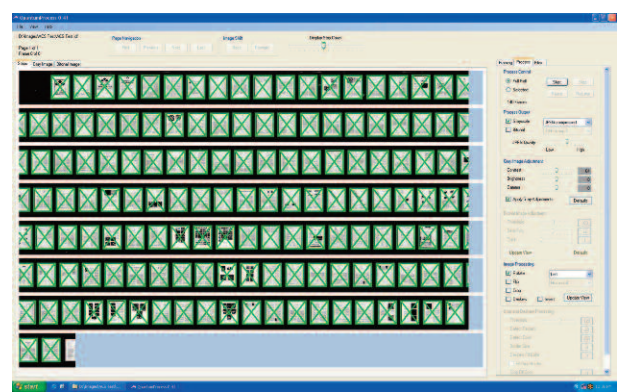
Quickly and easily go to any frame selected within a roll for additional time savings

## Re-Detect Frames

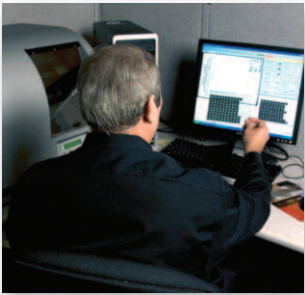
A useful option when different quality film is spliced together on a single roll or jacket, typically making it difficult for auto frame detection to find a group of images

## Quality assurance at your fingertips

View your entire fiche strip or roll of film within **QuantumProcess** for image quality and frame accuracy inspection. In this highly technical but simple-to-use quality control function, make changes after the images are saved and know that they'll hold...without compromising the original scan.



# Quantum



## Don't Reload

The need to reload has been completely eliminated. The Meke! Technology **MACH-series** microfilm and microfiche scanners scan an entire roll of film in minutes, detecting all images and flagging those that need review. Whether reviewing an entire roll or just suspect frames, the operator has an array of manual and automatic features to ensure 100% accurate image detection.

## Don't Rescan

**QuantumProcess** provides the opportunity to edit the image detection and make changes to both grayscale and bi-tonal image quality without ever having to reload a roll of film or a fiche jacket. Strips can be stored for the life of a project allowing the user to make as many changes as necessary to deliver the highest quality images in the market.

## Turn "Ugly" Into Useful

**Quantum** software has opened the world to "ugly" or poor quality film, which can now be scanned without missing images. Using **QuantumProcess**, these images can be scanned, processed and rendered as useable images. As a result of this capability, the new digital images can be used to create silver master films for long term preservation of poor quality or degraded film.



Mekel Technology has been a part of The Crowley Company since 2003 and continues to engineer cutting-edge capture products and software for the future of data preservation.