

flexScan with nextStar



THE Scanning solution for production conversion of microfiche, aperture cards and roll film

The FlexScan scanning solution provides a complete package of hardware, software, training and support to give you the best solution for the conversion of your microfiche to the highest quality digital images possible.

The FlexScan scanning solution includes the scanner, PC, high resolution lens, automatic film carrier, NextStar software, on-site training and long term support. Also offered with this solution are an optional expanded digital storage (RSD) and/or an automatic fiche loader that can provide continuous and unattended scanning.

The system can handle all of the unique properties of microfiche, rollfilm and aperture card scanning including:

- Scanning of high reduction images on COM microfiche
- Title bar information
- Variable size documents
- Variable position images
- Multiple fiche files
- User customizable indexing to digital files
- Deskewing of images on microfiche or roll film
- Multiple output formats including PDF/A

Unique scanner features:

- Scan microfiche at speeds up to 200 ppm
- Scan 16mm roll film at speeds up to 400 ppm
- Scan aperture cards and oversized fiche, including ultra and mini fiche sizes
- Patented LuminTec Stroboscopic illumination system for stop motion scanning
Produces higher resolution images based on unique LED design
- Ribbon scanning software for guaranteed image capture and detection
- Single fiche scanning or optional autoloader for unattended scanning

AutoLoader

- *Quick, silent, and accurate*
- *Customizable for all fiche formats*
- *Holds up to 200 microfiche,
150 jackets or 100 aperture cards*
- *Reduces operator intervention*

View FlexLoader video at www.nextscan.com

Specifications:

SCANNER SPEED:

Microfiche - 200ppm at 200 x 200 dpi
(actual scanning resolution) / 24x

Aperture Cards - up to 500 cards/hr

Roll Film - 400 ppm at 200 x 200 dpi
(actual scanning resolution) / 24x

NEXTSTAR SOFTWARE:

Scan > Detect > Audit > Index > QA > Output

- Reliability - no images are missed during scanning
- Modular and expandable for multiple QC workstations
- Automatic film classification and frame detection
- Post-scan frame detection allowing correction by audit operator of any errors before output
- Audit and re-audit / QA capability, along with exception routing
- Individual frame-by-frame post process image enhancement option if needed
- Insert / delete frames or images while maintaining file naming conventions
- Automatic exposure and gamma adjustment during setup and scanning
- Rotate, mirror, crop, deskew, despeckle and edge enhancement filters
- Regional Auto thresholding for bitonal images
- Independent image enhancement settings for each output image
- Multi-image output in different formats
- True optical resolution or interpolated (thumb nails)
- Capture and processing of images using uncompressed data to maximize image fidelity and OCR precision
- Tri-level blip detection and naming
- Flexible file naming and index file generation
- Standalone or domain workflow, process management, exception handling/routing and reporting

Optional - NextStar HD

- Includes all the features of NextStar software, and additionally can provide up to 12 bit output images for specialized applications, enabling even higher OCR accuracy or archival storage

RIBBON STORAGE DEVICE (RSD):

Preconfigured 8TB Ribbon Storage Device for simultaneous output and capture

- Maximizes throughput speed and productivity
- 16, 24 or 36 TB option available

nextScan

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OPTICS / CAMERA:

- Patented LuminTec Stroboscopic illumination system for stop motion scanning
- 12 bit per pixel CCD array
- Gamma correction during scan or post processing
- High quality lens
- 8192 pixel CCD / optional 12288 pixel CCD
- Easy to clean glass

OS and HARDWARE:

- Windows XP or Windows 7, 32 or 64 bit OS
- Computing Platform capability suitable for 100% throughput of the scanner

FILM and FICHE POLARITIES:

Positive, Negative, Mixed

REDUCTION RATIO:

The FlexScan can scan at any reduction ratio captured on film. Reduction Ratio is not a function of the scanner but is a function of the original Camera creating the film.

RESOLUTION:

Native optical Resolution without scaling the image:

Scanner Resolution on Film: up to 15500 DPI (optional 24200)

At 24X Reduction Ratio: up to 640 DPI (optional 1000)

At 48X Reduction Ratio: up to 320 DPI (optional 500)

DOCUMENT SIZES:

To E-size drawings at 200 DPI (optional 300 DPI) and oversize documents like oil well logs and EKGs (image must fit in memory and file format)

FILM and FICHE SIZES:

16 and 35 mm film (70mm available by special request)

Standard, Jumbo fiche, Mini Jackets, Aperture Cards

ROLL FILM FORMATS:

Simplex, Duplex, Duo, Blipped / Unblipped, COM and Mixed formats (and others)

FICHE and APERTURE CARD FORMATS

Step and Repeat fiche, Film Jackets, AB Dick, Microx, COM and Aperture Cards. Title bar scanning is available - even on Aperture Cards.

FILM ORIENTATION:

Comic, Cine, mixed

FILM and FICHE TYPES:

Vesicular, Blue and Black Diazo, Silver, Duplex, Duo, COM, Blipped/Unblipped and Mixed formats

FILE FORMATS:

TIFF bitonal G3/G4, TIFF uncompressed, Multi-page TIFF, JPEG, CALS, PDF/A, Multi-page PDF, JPEG 2000 (others available on request)

PHYSICAL CHARACTERISTICS:

Base: Height - 30", Width - 31", Depth - 21", Weight - 90 lbs

Film module: Height - 10", Width - 23", Depth - 13", Weight - 24 lbs.

Fiche module: Height - 9", Width - 29", Depth - 18", Weight - 29 lbs.

OPTIONAL:

1000' reel Adapter for film, Cartridge adapter for film and a 12288 pixel camera

Fiche/Aperture Card Autoloader:

- Up to 200 microfiche
- Up to 150 film jackets
- Up to 100 aperture cards (depending on film thickness and card damage)