



eclipse[®] 2000
by nextScan[®]

HIGH SPEED MICROFILM CONVERSION SCANNER



"The Eclipse 2000 scanner will lead the way for digital transformation of microfilm assets for the top institutions and service bureaus, helping to get more analog documents to be shared digitally."

Rich Chaney, VP and General Manager of nextScan



LuminTec® Lighting Technology

by nextScan

Combining a "Line Scan" CMOS imaging array with a modern high powered strobing LED, the LuminTec Lighting Technology produces the clearest images at the highest speeds available from microfilm scanners on the market today. The strobing LED at sub-microsecond intervals freezes each scan line allowing the CMOS to capture one line of pixel data at a time.

Powerful Microfilm Conversion Scanning from nextScan

Fine-tuned mechanics and improved data bandwidth gives the Eclipse 2000 scanner more than a 60 percent increase in speed over the previous fastest microfilm conversion scanners on the market.

Delivering the Fastest Scan Speeds

The Eclipse 2000 microfilm scanner has the capability to scan one roll of microfilm in just over one minute.

Employed by industry leading service bureaus, the Eclipse 2000 scanner is designed for the ultimate power user, scanning microfilm at dazzling speed. Capable of scanning a 100 foot roll of microfilm in a little over one minute. Now, create a unique digital archive of microfilm faster than ever before.

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Producing the Sharpest Image Quality

The Eclipse 2000 microfilm scanner increases real resolution by nearly 2x during high-speed capture

The Eclipse 2000 scanner does not sacrifice image quality to achieve higher scan speeds. Using **LuminTec Lighting Technology** with a powerful CMOS line scan camera, the entire roll of microfilm is captured in continuous succession at 8,192 pixels per line, or 16,192 pixels per line.

Fastest Scanning Capabilities and Image Capture in the Industry

Confident Image Capture. Produce high-resolution scans at up to 2,000 images per minute with one-of-a-kind line scan capture technology. Media is captured top-to-bottom, end-to-end, producing a true archival digital reproduction, while ensuring all data is secured.

Unmatched High-Resolution Images

Confident Image Quality. Eclipse 2000 scanner creates superior digital images from even the most challenging source film. Proprietary lighting, LuminTec Technology, nearly doubles native image resolution while high-precision optics capture raw detailed images, expanding the ability to see fine details from the original record.

Optimal Project Workflow Software

Confident Project Management. Streamline your conversion process with NextStar®Plus Software, designed to optimize workflow and minimize operator setup and QA. Unique NextStarPlus software features allow for simultaneous capture, index, audit, and output enabling optimal film processing performance. Operators can index and audit one roll of film while scanning the next.

Gentle on Delicate Film

Confident Film Handling. Patented anti-tension film transport ensures perfect linearity while scanning and minimizes image distortion caused by external elements. This technology gently regulates film between the intake and outtake motors, maintaining integrity of delicate film.



Unique Scanner Features:

- Pre-Scan Film Cleaning Rollers (Both Sides)
- Auto-Focus
- Patented Transport Carriage to Prevent Stretched Images or Damage to Delicate Film.
- Handles 1000' Reels and Blipped Film
- Designed to Minimize Impact on Your Internal Networks - Scans Directly to RSD via 10 GB Ethernet



The System can Handle Unique Properties of Film, Scanning:

- Variable Size Documents and Image Positions
- Multiple Film File Formats
- Variable Indexing to Digital Files
- Captures up to 3 Levels of Blips
- Enhancement of Signatures and Handwritten Data on Filmed Images

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Technical Specifications

OS and Hardware	Windows 11 64-bit OS Computing platform capability suitable for 100% throughput of the scanner
Optics/Camera	LuminTec Stroboscopic Illumination System 8k CMOS Line Scan Image Sensor High Quality Diffraction Limited Lens 8 or 12 Bit Output True Gamma Correction, Flat Field Correction, and Auto-Focus
Ribbon Storage Device (RSD)	48TB or 96TB Rack Mount Larger Sizes Available Upon Request
Reduction Ratio	The Eclipse 2000 scanner 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: <ul style="list-style-type: none">• Scanner Resolution on Film: Up to 25,400 DPI (with 16k camera)• At 24X Reduction Ratio: Up to 640 DPI• At 48X Reduction Ratio: Up to 320 DPI <i>*Higher resolutions available with optional 16k Camera</i>

Physical Characteristics

Base	Height - 28", Width - 19", Depth - 22", Weight - 75 lbs.
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Scanning Throughput Speeds

Benchmarks based on 200 DPI Scan Resolution, at 24x Reduction Ratio.

Eclipse 2000 PPM

RSD Required

Rollfilm: 16.6 inches per second
For example, scan a 95ft. roll of 16mm microfilm in 75 seconds

**Scanning speeds presented are estimates of raw scan time only, and do not include load time. Exact scanning results are dependent on client's conversion parameters, the condition of the microforms, and network capabilities.*

Scannable Media Types

Film Sizes, Formats, Polarities	16 and 35 mm Film Simplex, Duplex, Duo, Blipped/Unblipped, & Mixed formats Positive, Negative, Mixed
Film Types	Vesicular, Blue and Black Diazo, Silver, and Mixed Formats
Film Orientation	Comic, Cine, Mixed
Document Sizes	E-Size drawings at 200 DPI (optional 300 DPI) and oversized documents like oil well logs and EKGs (image must fit in memory and file format)

Output File Formats

TIFF Bitonal G3/G4, TIFF Uncompressed, Multi-page TIFF, JPEG, CALS, PDF/A, Multi-page PDF, JPEG 2000, JPEG XR (Others Available Upon Request)

The Eclipse Scanning Solution Includes:

- Scanner and Internal PC
- High Resolution Lens with LuminTec Lighting Technology
- NextStar PLUS Workflow Software Platform
- External Ribbon Storage Device (RSD) - Stores RAW Uncompressed Images Until Ready for Output

Contact us today to arrange a personalized demo.

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