

# EclipsePlus with nextStar

Enhanced with LuminTec  
and Ribbon Scanning technology



## Eclipse Plus High Production Rollfilm Scanner

The Eclipse Plus Rollfilm Scanner with NextStar incorporates nextScan's new, exclusive LuminTec™ light line illumination system for even sharper images and delivers the highest scan speeds for production scanning environments. These latest technological developments by nextScan enable optimization of the Eclipse Plus scanner and the many valuable features contained in nextScan's revolutionary software that accompanies the Eclipse Plus, called NextStar.

The Eclipse Plus with NextStar scans 16 and 35mm microfilm, and is available in two models – the Eclipse 300 Plus and the Eclipse 500 Plus. The Eclipse Plus will comfortably scan 400 pages per minute or 590 pages per minute, depending on the user's needs and Eclipse Plus model.

All Eclipse Plus models feature a unique, advanced light line illumination system developed exclusively by nextScan called LuminTec™. LuminTec effectively increases overall image quality, even at very high conversion speeds, without requiring scanning at a higher dpi – so no increase in image file size. This new lighting technology yields sharper images using only 1/10 of the power of current incandescent illumination systems, thus diminishing heat generation while improving Mean Time Between Failure (MTBF) of the scanner as whole.

The NextStar software that comes exclusively with all Eclipse Plus models incorporates an innovative processing methodology called "Ribbon Scanning". The Ribbon Scanning feature allows the user to verify that all images are properly captured, and identifies any image detection or density problems. NextStar then allows the operator to correct those issues in a post-scan audit environment. NextStar eliminates the need for rescans, maximizing the Eclipse Plus scanner utilization and productivity. With NextStar's superior image quality control features, handling any density and filming related issues commonly faced in conversion processes is easy, outputting images that actually match your database.

The Eclipse Plus, featuring the innovative LuminTec light line illumination system, makes images sharper with better edge definition, enabling optimization of the many valuable NextStar software features - contributing to the fastest throughput and highest OCR accuracy after the scanning process.

Benefit from the best scan speeds and highest image quality in the Eclipse Plus, while moving your film conversion projects into the 21st Century with nextScan's latest revolutionary technology, NextStar and LuminTec.

**nextscan**

The Next Generation in Film and Fiche Scanning Technology

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## NextStar Software Functionality

Eclipse Plus combined with the latest NextStar software introduces an innovative processing methodology called Ribbon Scanning. An entire roll of film is digitized from top-to-bottom and end-to-end in grayscale and stored as a single ribbon file.

Ribbon Scanning solves many of the challenges encountered today in the conversion process from microfilm to digital images. The latest NextStar software, with its innovative Ribbon Scanning, combined with the unique LuminTec light line illumination systems was designed to reduce conversion costs while boosting productivity. NextStar allows the user to verify that all images were properly captured, and enhance image quality as needed. NextStar then allows the operator to correct those issues in a post-scan audit environment. NextStar eliminates the need for rescans resulting from density or frame detection problems, maximizing scanner utilization and productivity. With NextStar's superior image quality, handling any density and filming related issues commonly faced in conversion processes is easy, outputting images that actually match your database.

NextStar enables the user to manage the end-to-end conversion process. It is modular and expandable. From basic set-ups where all components run on the Eclipse Plus scanner, to large distributed production systems, the software components communicate between multiple platforms and work is scheduled and shared between many operators.

### NextStar's unique features are:

- Reliability, no images are lost during scanning
- Automatic film classification and frame detection
- Post-scan frame detection allowing correction by audit operator of any errors before output
- Re-audit / QA capability
- Individual frame-by-frame image processing options if needed
- Insert/Delete frames or images while maintaining file naming conventions
- Automatic lamp & gamma adjustment during setup and scanning

## Eclipse Plus w/NextStar Specifications

### SPEED – 590 & \*400

4:02 Minutes per roll at 200DPI  
and 24x reduction

\*9:07 Minutes per roll at 200DPI  
and 24x reduction

\*\*Output speed after scan up to  
1700 images/minute

High speed rewind

Pre-scan film cleaning (both sides)

Patented transport carriage to secure  
linearity (eliminates distortion)

### OPTIONAL – Preconfigured Ribbon Storage Device (RSD) for simultaneous capture and output

Maximize throughput speed and  
productivity

Available in 4, 8 and 16TB  
configurations

### SOFTWARE – NextStar

#### (Scan, Detect, Audit, Output)

Automatic lamp & gamma adjustment  
during setup and operation

Rotate, mirror, crop, deskew, despeckle  
and edge enhancement filters

Industry leading auto thresholding for  
bimodal images

Independent image processing filters for  
each output image

Multi image output in different formats

Original optical resolution or  
interpolated (thumb-nails)

Tri level blip detection and naming

Flexible file naming and index file  
generation

Standalone or domain workflow  
end-to-end management and reporting

### OPTICS/CAMERA

LuminTec light line illumination system (patent pending)

10 bit antiblooming CCD array to protect against over exposure

True gamma correction & auto focus

High quality lens

8192 Pixel CCD

### Operating Systems:

Windows XP Professional

Latest Intel CPU Speeds

Large SATA II hard drive

1GB Network Interface

**Film Polarities:** positive, negative and mixed

**Reduction Ratio:** 7x to 72x

**Resolution:** 100 – 600 dpi

**Document Sizes:** to E-size drawings at 200 dpi and oversize  
documents like oil well logs and EKGs (Image must fit in  
memory, 2GB max image size)

**Film Size:** 16 and 35 mm

**Film Formats:** Duplex, Duo, Blipped/Unblipped

**Film Orientation:** Comic, Cine

**Film Types:** Vesicular, Blue and Black Diazo, Silver

**File Formats:** TIFF monochrome, TIFF uncompressed, Multi  
Page TIFF, JPEG, CALS, PDF and JPEG 2000

**Physical Characteristics:** Height – 28", Width – 19",  
Depth – 22", Weight – 75 lbs

\* Eclipse Plus 300

\*\* speed varies depending on image enhancement option

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