

# Titan™ with NextStar

Enhanced with LuminTec  
and Ribbon Scanning Technology



## High Production Microfiche Scanner with Automatic Feeder

The Titan scanner with NextStar High Performance Workflow Software delivers the highest speeds for microfiche scanning in a production environment, and brings the cost of microfiche scanning to an affordable price point for many users. Titan features a large automatic fiche feeder, and incorporates nextScan's exclusive LuminTec™ light line illumination system, next generation high quality lens, specially designed Ribbon Storage Device (RSD) and revolutionary NextStar software.

Titan with NextStar has a production throughput speed of 270 images per minute for jacketed fiche, 230 images per minute for COM fiche, and can accommodate many other types of fiche. Titan's raw scan speed is 500 images per minute. Titan's automatic feeder holds up to 1000 fiche depending on thickness, enabling optimized throughput with minimal operator intervention. Additionally, the fiche load and unload time for Titan is half of other products offered today.

Titan features a unique, advanced light line illumination system developed exclusively by nextScan called LuminTec. LuminTec effectively increases overall image resolution, even at very high conversion speeds, without increasing file size. Environmentally friendly LuminTec uses 1/10 the power of conventional incandescent light systems.

The NextStar high performance workflow software that comes with Titan incorporates an innovative processing methodology called "Ribbon Scanning". Ribbon Scanning allows the user to verify that all images are properly captured and automatically identifies any image detection or density problems. Ribbon Scanning captures all images in raw, uncompressed form using true optical dpi. NextStar eliminates the need for rescans, maximizing the Titan scanner utilization and productivity.

Titan comes with a specially designed Ribbon Storage Device (RSD) to enable simultaneous capture and output, maximizing scanner throughput and allowing for QA/Audit during or after the scan, even from multiple workstations.

Titan, featuring LuminTec, NextStar, a next generation high quality lens and the largest feeder on the market today, provides fast processing of sharp images with better edge definition, contributes to higher OCR accuracy after the scan process, and promotes cost savings through its automated features.

**Titan — Delivering Simplicity While Bringing the Cost  
of Fiche Scanning to An Affordable Price Point**

**nextscan**

**The Next Generation in Film and Fiche Scanning Technology**

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Scanner with Automatic Feeder

## NextStar Software Functionality

Titan combined with the latest NextStar software introduces an innovative processing methodology called Ribbon Scanning. An entire fiche 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 microfiche to digital images. NextStar allows the user to verify that all images were properly captured, and enhance image quality as needed. NextStar's Audit module offers a set of tools at your fingertips to allow the operator to QC, correct and enhance all images in a post-scan environment. NextStar eliminates the need for rescans resulting from density or frame detection problems, maximizing scanner utilization and productivity - allowing you to output 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 Titan scanner, to large distributed production systems, the software components communicate between multiple platforms and work is scheduled and shared between many operators.

For applications with the very highest image quality for archival requirements such as the scanning of degraded historical documents or newspapers, NextStar High Definition (HD) is an option. The HD version of NextStar includes all of the features of the regular NextStar software, plus can provide up to 12 bit uncompressed output images, which enables even higher OCR accuracy for projects where this is a must.

## NextStar Unique Features:

- Reliability, no images are lost
- Automatic frame detection
- Scans title bars
- Allows simultaneous scan and audit
- Re-audit / QA capability
- Post-scan frame detection allowing correction by audit operator before output
- 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

## Titan w/ NextStar Specifications

### AUTOMATIC FEEDER

500 – 1000 fiche\*

\*depends on thickness

Feeder can accommodate 5" of stacked fiche

### SPEED

Raw scan speed: 500 ppm

Production (load, scan, process, unload):

COM fiche: 230 ppm

Jacketed fiche: 270 ppm

Fiche is stacked in eject hopper in correct order after scan

### INCLUDED – Preconfigured 12TB internal Ribbon Storage Device (RSD) for simultaneous capture and output

- Latest Quad core AMD CPU
- RAID5 storage array
- Dual 1GB network interface
- Maximize throughput speed and productivity
- 16TB configuration optional

### 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 bitonal images
- Independent image processing filters for each output image
- Multi image output in different formats
- Original optical resolution or interpolated (thumbnails)
- Flexible file naming and index file generation
- End-to-end management and reporting
- End-to-end workflow process as standalone machine or on multiple workstations

### OPTICS/CAMERA

- LuminTec light line illumination system (patent pending)
- 12 bit CCD array for HD option
- True gamma correction & auto focus
- Next generation high quality lens
- 8192 pixel CCD

### Operating Systems:

Windows XP Pro, Windows 7

**Fiche Polarities:** Positive, negative and mixed

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

**Resolution:** True resolution, automatic focus, 100-600 dpi

**Document Sizes:** to E-sized drawings at 200 dpi and oversize documents like oil well logs and EKGs (image must fit memory, 4GB max image size)

**Fiche Size:** Standard and Jumbo

**Fiche Orientation:** Comic, Cine

**Fiche Formats:** Step & Repeat, Film Jackets, AB Dick, Microx, COM, Mini and Aperture cards

**Fiche Types:** Vesicular, Blue and Black Diazo, Silver, Duplex, Duo, Blipped/Unblipped

**File Formats:** TIFF monochrome, TIFF uncompressed, Multi page TIFF, TIFF Group IV, JPEG, CALS, PDF/A multi page PDF and JPEG 2000

### Physical Characteristics:

Base - Height - 43", Width - 32", Depth - 29", Weight - 270 lbs  
Loader - Height 26", Width - 40", Depth - 19", Weight - 160 lbs  
RSD - Height 12", Width - 34", Depth - 26", Weight - 80 lbs

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Currently available in US and Canada only

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