

Apex by nextScan

Aerial Film, Wide-Format, Conversion Scanner

nextScan



10 Feet of 10 Inch Wide Film in 1 Minute

Incredible Rate of Speed. The Apex by nextScan is designed to scan 10 feet of 10 inch wide film in one minute at archival quality. What took hours to scan and splice will now take mere minutes.

Archival-Grade Image Capture

Precision Cameras Synced by Experts. Experienced nextScan electrical and software engineers designed the Apex by nextScan aerial film scanner. This combined knowledge made it possible to design a one-of-a-kind scanner to digitize the world's aerial film at archival quality.

Up to 10.23 Inch Scan Width.

Wide variety of scan width options. Apex by nextScan employs four line-scanning cameras to capture the full width required to capture the full width of wide-format film. This wide range allows for aerial film of all sizes to be digitized.

Customized to the Customer.

Complete customization for your film. With the years of experience comes the understanding that each conversion project is unique. The entire nextScan team is dedicated to delivering a customized solution for your particular project.

Features

- True archival-grade image capture
- Heavy duty construction supports large rolls of film
- High-Resolution digital images
- Film elevators assist with loading
- High scanning speed
- 120 Terabyte server
- Customized for your archive
- Output to lower resolution formats

The Apex scanner was a project born from a challenge by a federal government agency. Their problem, the process for digitizing aerial film was too slow. With their list of requirements, nextScan's team of engineers set out to build the Apex using all of their knowledge from decades of working with microfilm images.

Apex by nextScan - Aerial Film Conversion Scanner



Contact us today to arrange a personalized demo.

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The Apex scanning solution includes:

- Scanner and Internal PC
- Multiple cameras with LuminTec™ Lighting Technology
- NextStar PLUS Workflow Software Platform
- 120 Terabyte Server
- Installation
- Training

The System can Handle Unique Properties of Film, Scanning:

- Variable Size Documents from 70mm to 10.23 in.
- Multiple Film File Formats
- Variable Indexing to Digital Files

Unqie Scanner Features:

- Auto-Focus
- Auto-loading film elevator for loading heavy reels
- Handles rolls up to 500 feet
- Patented pending transport carriage
- Designed to minimize impact on your internal networks by scanning direct to RSD via 25 Gb/s Ethernet

Scanning Throughput Speeds	
•	Four camera design handles film widths from 70mm to 10.23 inches, including common aerial film formats of 5", 9", and 10"
•	4 micron spot size resolution
•	10 feet/min = 2 inches/second
•	65k pixels maximum scan width
•	Captures 819 million pixels/second

Technical Specifications	
OS and Hardware	Windows 10 64-bit OS Computing platform capability suitable for 100% throughput of the scanner.
Optics/Camera	LuminTec™ Strobocropic Illumination System Four Preconfigured 16K CMOS Line Scan Image Sensors (16,384 Pixel CMOS Array) High Quality Defraction Limited Lens 8 or 12 Bit Output True Gamma Correction, Flat Field Correction, and Auto-Focus
Ribbon Storage Device (RSD)	Preconfigured with 120TB RSD for simultaneous output and capture. <ul style="list-style-type: none"> • Maximizes through put speed and productivity
Resolution	Variable resolution down to 4 µm

Physical Characteristics	
Base	Height - 50.6", Width 72.4", Depth 40.8", Weight - 1362 lbs.

Optional	
Dual camera design with a 5" maximum film size	

Scannable Media Types	
Document Size Limit	64 GB single image output
Film Sizes, Formats, Polarities	70mm to 10.23 inch roll film
Film Orientation	No restriction on orientation of images on film

Output File Formats	
Tif Greyscale (BigTIFF) or Tif Group IV (BigTiff). Other formats dependent on film image size and output image scaling.	

