## SunRise Microfilm Scanners Apollo HS

## "Scanning the World's microfilm

Apollo

SunRise

- · Durable Proven design
- LED backlight
- · Dual monitor support
- · Optical and Digital Zoom
- · Built-in i7 PC Windows 7
- · USB3, SATA3, ultra-fast SSD
- · Live Scan and Virtual Scan included
- · 760 duplex Rollfilm pages / minute
- · Nikon Lens for ultra-sharp focus
- · Upgrade your older scanner to Apollo

# Hardware Specifications

A SunRise scanner system consists of the Apollo Base Unit and at least one module. The base unit contains the embedded computer, LED light, camera. Specify the type module(s) you need when ordering: Rollfilm, Ultrafiche, or Aperture Card.

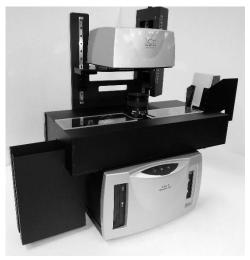
FEATURES 3-in-1 Modular Design Variable Optical zoom – not digital zoom High resolution scan mode (8k) High Speed scan mode (4k)	<b>Apollo</b> Yes Yes Yes Yes	<b>Apollo HS</b> Yes Yes Yes Yes
SOFTWARE Windows 7 Applications ScanFlo Professional ScanFlo Premier ScanFlo Virtual Scan (VS) Remote access diagnostics	Yes Std Std Std Yes	Yes Std Std Std Yes
<b>COMPUTING SYSTEM</b> Processor 6 <sup>th</sup> gen Intel Memory Hard Drive: Internal Solid State DVD Optical drive Removable 2.5" SSD Drives 2 bays External drive expansion via USB 3.0	i7 4 GB 128GB Yes 500GB Yes	Yes
<b>I/O</b> USB 3.0/2.0: Front -2, Rear -4 plus USB-C Monitor output: VGA / DVI / HDMI Display Resolution Max Mouse & Keyboard LAN: Gigabit Ethernet	Yes Dual UHD Yes Yes	Yes Dual UHD Yes Yes
<b>IMAGING</b> Linear CCD 4k & 8k pixel array Camera: SunRise Apollo Lens: Nikon 60mm f/2.8 Light Source: SunRise LED	Yes Std Yes Yes	Yes Hi-Speed Yes Yes
<b>PERFORMANCE (200 DPI)</b> Rollfilm: 16mm, 24X	200	375 / 750 simp

Rollfilm: 16mm, 24X Jacketed Fiche: 5 rows x 14 images, 24X COM fiche: 15 rows x 18 images, 48X Aperture Card: 8-bit grayscale, 24X



FICHE SCANNER SYTEM

APCARD SCANNER SYSTEM



00 375 / 750 simplex/duplex images per minute

- 40 60 / hour
- 60 120 / hour
- 600 700 cards per hour

*Important Note: Performance is highly dependent upon film characteristics and quality. The above data is based on SunRise production test films and is provided for reference only.* 

### ELECTRICAL

Input power Temperature Relative Humidity Altitude Safety

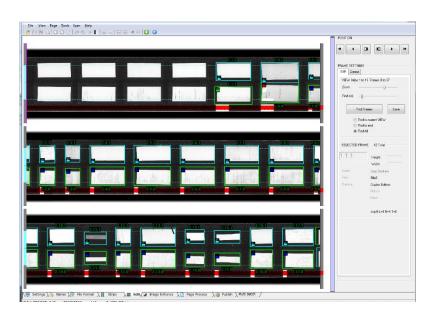
110 / 220 VAC, 47 - 63 Hz, 1. / 0.5 Amp Operating 10 to 35°C, Non-Operating 0 -70°C Operating 10% to 90%, Non-operating 5% to 95% 0 -3,048 meters (0 -10,000 feet) FCC Class A, CE ITE Class



# Software Specifications

The SunRise microfilm scanners include the entire image processing capabilities you will need to output pages that duplicate the appearance of the original page scanned.

Capabilities of Scanflo		
User interface	Scanflo Professional, Scanflo Premier and Virtual Scan applications use tabbed dialogs, logically grouped, and scan presets for fast parameter setting	
Live Scan	Scan time image processing, create image files during the scan – immediate results	
Archive Scan	Digital archive Strip Scan is fast and simple, post scan image processing allows QA	
Scan presets	Scan job parameters are automatically saved making it easy to setup.	
Dual stream	Simultaneous bi-tonal and 8 bit grayscale scanning	
File formats	PDF, TIFF, JPEG, GIF, compressed and uncompressed, bi-tonal and grayscale	
Grayscale	Up to 12 bit pixel depths	
Image processing	Adaptive threshold Bi-tonal, Edge Sharpen, Crop, De-skew, 90°,180°,270° Rotation,	
	Blip detection, Mirror Flip, Invert, Scale	
Contrast	Enhance contrast to fix dark or too bright images	
Special features	Rollfilm – fast rewind, Ultrafiche – apply five different image processing options on	
	same fiche	
Straighten	Automatic Crop & De-skew	
Ease of use	Tool Icons, tabbed dialogs, drop down mouse menus, mouse wheel parameter change	
Help	Context sensitive help, how to use the software including step by step instructions	
Film polarities	Negative/Positive	
Reduction Ratio	Enlarge film image $7x - 72x$ to compensate for size of image on film	
Document size	A0 – A4 (A – E)	
Compression		



VS Edit Tab showing Blipped Duplex film with on screen blip counts



## **Modules**

The SunRise modular scanner provides a low-cost way to handle several microfilm types without duplicating the base scanner hardware. In line with the Base the SunRise Module are rugged and designed for 24/7 continuous use.

## Rollfilm



**Roll types** 16mm - 100 and 200 ft reels 35mm – 100 and 200 ft reels Cartridge film - option Pancake Rolls – 1000ft – option

#### Detection

Fixed and variable size pages Portrait and Landscape orientation Simplex/Duplex COM Oil Well Logs (Continuous forms) Blipped

#### Film Transport

Fast Rewind Short leader Handles film splices

## **Microfiche**



Fiche Standard (Jacketed) Computer Output Microfiche Titlebar scanning Continuous row scan mode

## Size

Standard 4"x6" iumbo fiche 5"x8"

## Formats

Oil Well Logs AB Dick Microx

Step & repeat fiche

#### Options AB Dick locator pins and

filter

## **Aperture Card**



**Hollerith cards** Card size - 7.4" x 3.75" 80 column Hollerth

Film Pocket Size 50mm x 35m

Cine/Comic Multiple T-Card (1,2,3... images per card)

Standard Hollerith code reader

### Mechanical Dimensions (max.)

Base Unit Base Unit + Rollfilm Base Unit + Ultrafiche Base Unit + ApCard

#### H 29" (74 cm) x L 30" (76 cm) x W 14" (36 cm) H 29" (74 cm) x L 30" (76 cm) x W 24" (61 cm) H 29" (74 cm) x L 30" (76 cm) x W 28" (71 cm) H 29" (74 cm) x L 30" (76 cm) x W 36" (92 cm)

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