

SunRise Microfilm Scanners Apollo HS

"Scanning the World's microfilm"

- Durable Proven design
- LED backlight
- Dual monitor support
- Optical and Digital Zoom
- Built-in i7 PC - Windows 10
- 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)

	Apollo	Apollo HS
	Yes	Yes
	Yes	Yes
	Yes	Yes
	Yes	Yes

SOFTWARE

Windows 7
 Applications
 ScanFlo Professional
 ScanFlo Premier
 ScanFlo Virtual Scan (VS)
 Remote access diagnostics

	Apollo	Apollo HS
	Yes	Yes
	Std	Std
	Std	Std
	Std	Std
	Yes	Yes

COMPUTING SYSTEM

Processor 6th 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

	Apollo	Apollo HS
	i7	i7
	4 GB	4 GB
	128GB	500GB
	Yes	Yes
	500GB	1000GB
	Yes	Yes

I/O

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

	Apollo	Apollo HS
	Yes	Yes
	Dual	Dual
	UHD	UHD
	Yes	Yes
	Yes	Yes

IMAGING

Linear CCD 4k & 8k pixel array
 Camera: SunRise Apollo
 Lens: Nikon 60mm f/2.8
 Light Source: SunRise LED

	Apollo	Apollo HS
	Yes	Yes
	Std	Hi-Speed
	Yes	Yes
	Yes	Yes

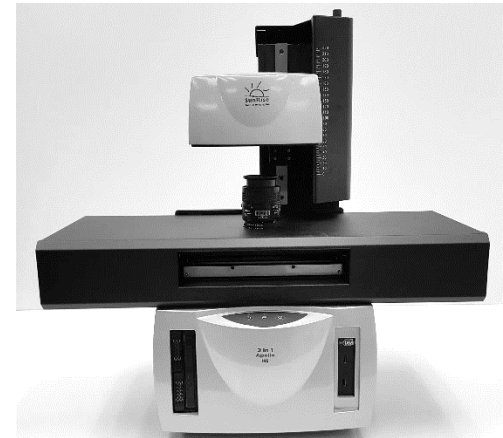
PERFORMANCE (200 DPI)

	Apollo	Apollo HS
Rollfilm: 16mm, 24X	200	375 / 750 simplex/duplex images per minute
Jacketed Fiche: 5 rows x 14 images, 24X	40	60 / hour
COM fiche: 15 rows x 18 images, 48X	60	120 / hour
Aperture Card: 8-bit grayscale, 24X	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 110 / 220 VAC, 47 - 63 Hz, 1. / 0.5 Amp
 Temperature Operating 10 to 35°C, Non-Operating 0 -70°C
 Relative Humidity Operating 10% to 90%, Non-operating 5% to 95%
 Altitude 0 -3,048 meters (0 -10,000 feet)
 Safety FCC Class A, CE ITE Class



FICHE SCANNER SYSTEM



APCARD SCANNER SYSTEM

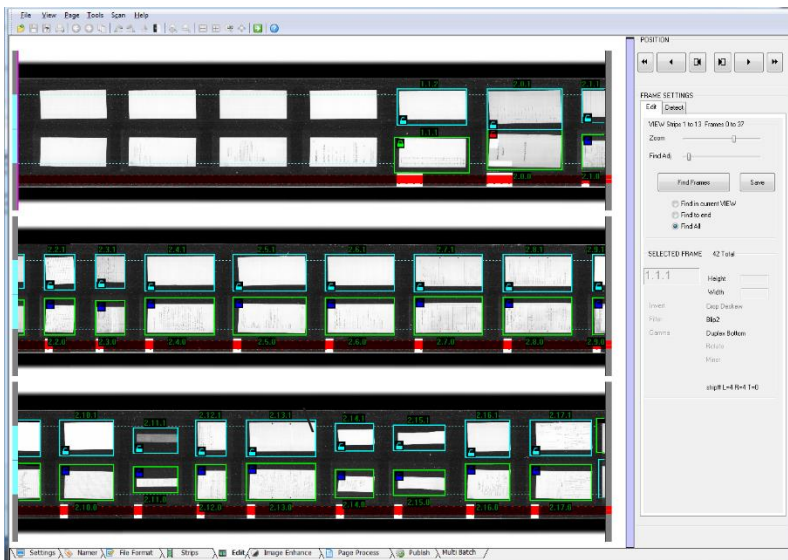


Software Specifications

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	Bi-tonal: TIFF uncompressed, TIFF CCITT G4, Multi page TIFF, PDF, PDF LZW Grayscale: TIFF uncompressed, TIFF LZW, JPEG (8-bit), GIF (8-Bit), PDF, PDF LZW



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

Mechanical Dimensions (max.)

Base Unit	H 29" (74 cm) x L 30" (76 cm) x W 14" (36 cm)
Base Unit + Rollfilm	H 29" (74 cm) x L 30" (76 cm) x W 24" (61 cm)
Base Unit + Ultrafiche	H 29" (74 cm) x L 30" (76 cm) x W 28" (71 cm)
Base Unit + ApCard	H 29" (74 cm) x L 30" (76 cm) x W 36" (92 cm)

Microfiche



Fiche

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

Size

Standard 4"x6"
jumbo 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 Hollerith

Film Pocket

Size 50mm x 35m

Cine/Comic

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

Standard

Hollerith code reader

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