

SunRise Microfilm Scanners Apollo HS

"Scanning the World's microfilm"

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



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

	Apollo	ApolloHS
3-in-1 Modular Design	Yes	Yes
Variable Optical zoom – not digital zoom	Yes	Yes
High resolution scan mode (8k)	Yes	Yes
High Speed scan mode (4k)	Yes	Yes

SOFTWARE

	Apollo	ApolloHS
Windows 7	Yes	Yes
Applications		
ScanFlo Professional	Std	Std
ScanFlo Premier	Std	Std
ScanFlo Virtual Scan (VS)	Std	Std
Remote access diagnostics	Yes	Yes

COMPUTING SYSTEM

	Apollo	ApolloHS
Processor 6 th gen Intel	i7	i7
Memory	4 GB	4 GB
Hard Drive: Internal Solid State	128GB	500GB
DVD Optical drive	Yes	Yes
Removable 2.5" SSD Drives 2 bays	500GB	1000GB
External drive expansion via USB 3.0	Yes	Yes

I/O

	Apollo	ApolloHS
USB 3.0/2.0: Front -2, Rear -4 plus USB-C	Yes	Yes
Monitor output: VGA / DVI / HDMI	Dual	Dual
Display Resolution Max	UHD	UHD
Mouse & Keyboard	Yes	Yes
LAN: Gigabit Ethernet	Yes	Yes

IMAGING

	Apollo	ApolloHS
Linear CCD 4k & 8k pixel array	Yes	Yes
Camera: SunRise Apollo	Std	Hi-Speed
Lens: Nikon 60mm f/2.8	Yes	Yes
Light Source: SunRise LED	Yes	Yes

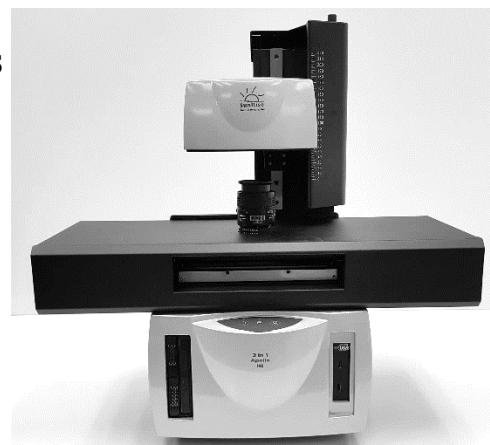
PERFORMANCE (200 DPI)

	Apollo	ApolloHS
Rollfilm: 16mm, 24X	200	375 / 750 simplex/duplex images per minute
Jacketed Fiche: 5 rows x 14 images, 24X	40	60 Fiche/hour
COM fiche: 15 rows x 18 images, 48X	60	120 Fiche/hour
Aperture Card: 8-bit grayscale, 24X	600	700 cards per hour

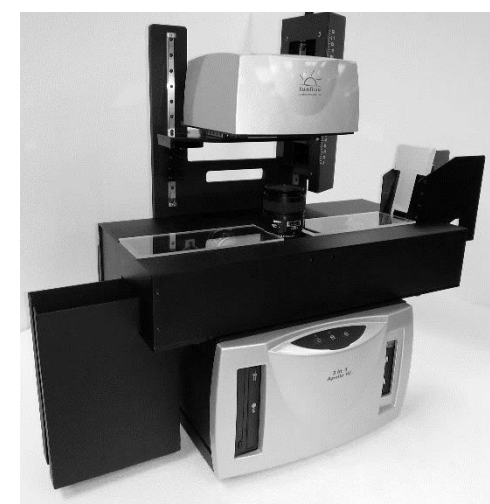
Important Note: Performance is highly dependent upon film characteristics and quality. The above data is based on SunRise production test films and is provided for reference only.

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

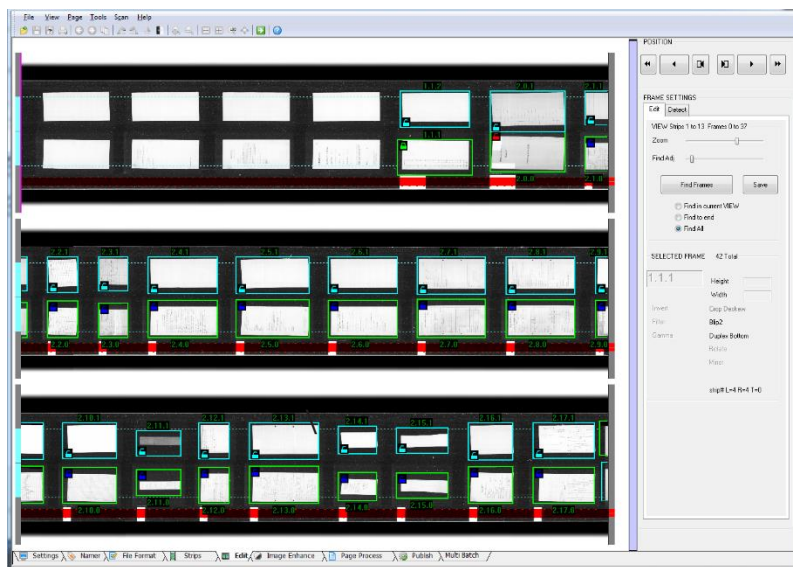


Software Specifications

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 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 scanner Base Unit all SunRise film Modules are built to the highest standards, 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 4"x7"

Formats

Oil Well Logs
AB Dick
Microx
Step & repeat fiche

Options

AB Dick locator pins and filter

Aperture Card



Film Pocket

Size 50mm x 35m
Cine/Comic
Multiple T-Card
(1,2,3... images per card)

Standard

Hollerith code reader

SunRise Imaging, Inc.
1813 E Dyer Road # 410
Santa Ana CA 92705
Tel +1 949 252-3003
sales@sunriseimaging.com
www.sunriseimaging.com

SunRise Imaging (EMEA) Ltd.
SBC House, Restmor Way
Wallington, Surrey
United Kingdom SM6 7AH
Tel +44 208 255 2011
sales@sunriseimaging.co.uk

