APOLLO-HS

Rollfilm

Microfiche

Aperture Card

Base

· 3-in-1 Modular Design – highly reliable

· LED light – Uniform light, Low power, no noise

· Optical scaling – TRUE DPI · 1,4,8,12 bit pixel depths

· Windows 7 Ultimate, Quad core, USB3, SSD Drives

· 4 Gbyte memory, 1 Gb/s LAN, dual monitors

SunRise Imaging Inc. leading the industry with

the latest production microfilm scanners the Apollo and

Apollo HS. GREEN hardware technology and Scanflo software.

Fully compatible with prior Sunrise hardware and software. The Apollo

Series Production Microfilm scanner *with* Reelscan and Rowscan technologies!

See your authorized Sunrise Imaging Inc. reseller for details.

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Tel +1 949 252-3003
www.sunriseimaging.com

The SunRise 3-in-1 scanner consists of a Base Unit: computer, software, scanner controls, camera & light source. A Rollfim, Ultrafiche, or an Aperture Card module completes the system for any type of microfilm to be scanned.

FEATURES OF Sunrise *3-IN-1 scanner*	Apollo	Apollo HS
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
Ultra-stable chassis	Yes	Yes

SOFTWARE

Windows 7 Ultimate	Yes	Yes
Applications		
ScanFlo Professional	Included	Included
ScanFlo Premier	Included	Included
Remote access diagnostics	Yes	Yes

COMPUTING SYSTEM

Processor 4th gen Intel	i7	i7
Memory	4 GB	4 GB
Hard Drive: Internal Solid State	128GB	256GB
DVD Optical drive	Yes	Yes
Removable 2.5″ Drives (1 of 2 bays loaded)	500GB	1,000GB
External drive expansion via USB 3.0	Yes	Yes

I/O

USB 2.0: Front -2, Rear -6 (2 are USB 3.0)	Yes	Yes
Monitor output: VGA / DVI / HDMI	Dual	Dual
Max Output Resolution	UHD	UHD (4k)
Mouse & Keyboard	Yes	Yes
LAN: Gigabit Ethernet	Yes	Yes

IMAGING

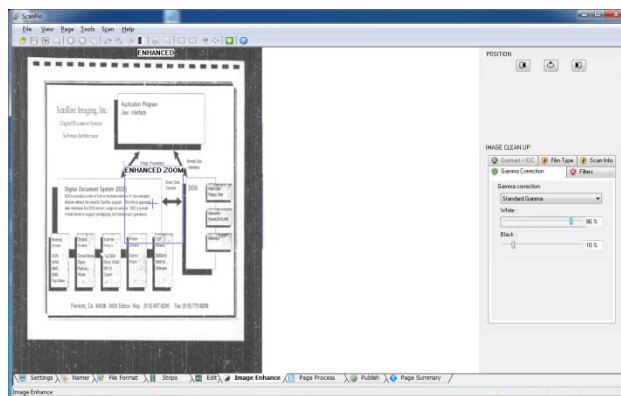|		
Linear CCD 4k & 8k pixel array	Yes	Yes
Camera: Sunrise Apollo	Std.	High Speed
Lens: Nikon 60mm f/2.8	Yes	Yes
Light Source: Sunrise LED	Yes	Yes

PERFORMANCE

Rollfilm: 16mm, 200dpi, 24X reduction	200	375 / 750* images per minute
Jacketed Fiche: 5 rows x 14 images, 200dpi, 24X reduction	100	150 / 200* images per minute
COM fiche: 15 rows x 18 images, 48 X reduction	120	210 / 280* images per minute
Aperture Card, 200dpi, 8--bit grayscale, 24X reduction	600	700 images per hour

Important Note: Performance is highly dependent upon film characteristics and quality.
The above data is based on SRI production test films and is provided for reference only.
- *When using enhanced Sunrise Mode*

ELECTRICAL

Input power	110 / 220 VAC, 47 -63 Hz, 2 / 1 Amp
Temperature	OPERATING 10 to 35°C (50 - 95°F), NON--OPERATING 0 -70°C (0 -158°F)
Relative Humidity	[NON CONDENSING] 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 I

ScanFlo application makes it easy and fast for you to setup and operate your 3-in-1 scanner

Specifications as of 04/01/2014 and subject to change without notice.

Software Specifications

The SunRise 3-in-1 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 modes: wizard & classic,
Tabbed dialogs, logically grouped, for fast parameter setting

Real-Time Scan time image processing writes image files during the scan – immediate results

Archive Scan Raw Scan is fast and simple, post scan image processing allows QA

Scan settings Scan job parameters are automatically saved.

Digitized data stream Simultaneous bi-tonal and 8 bit grayscale scanning

File formats TIFF, TIFF LZW, JPEG, GIF, PDF, PDF-LZW for bi-tonal and grayscale

Grayscale scanning Up to 12 bit pixel depths

Image processing Bi-tonal & 4, 8, 12 -bit grayscale. Edge Sharpen, Crop, Deskew, 90/180/270 Rotation,
Blip detection, Mirror Flip, Invert

Gamma Enhance contrast by stretching grayscale linear and custom tables

Special features Rollfilm – fast rewind,
Ultrafiche – apply five different image processing options on same fiche

Crop & deskew Crop & save with or without deskewing

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

MICRO FILM SUPPORT

Film polarities Negative/Positive

Reduction 7x – 72x
 [Scan dpi: Half CCD reduction (4K mode) 2,500 - 11,000]
 [Scan dpi: Full CCD reduction (8K mode) 4,900 - 23,000]
 Note: The minimum range can be lower by use of the optional extension tubes

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

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 + ApertureCard	H 29" (74 cm) x L 30" (76 cm) x W 36" (92 cm)
Shipping container - Base Unit	Box 1: 35" (89cm) x19" (48cm) x 9" (48cm) 40lbs Box 2: 35" (89cm) x19" (48cm) x14" (36cm) 45lbs
Shipping container – RF Module	H 13" (33 cm) x L 28" (86 cm) x W 18" (46 cm) 27 lbs
Shipping container – MF Module	H 13" (33 cm) x L 34" (86 cm) x W 18" (46 cm) 47 lbs
Shipping container – AC Module	H 13" (33 cm) x L 34" (86 cm) x W 18" (46 cm) 37lbs

Modules

Rollfilm

Film types:
16mm, 35mm
auto detection variable size pages
Portrait/Landscape orientation
Simplex/Duplex/Multiplex, COM
Oil Well Logs (Continuous forms)
Blipped

Options: 1000 foot reel attachment;
16mm 3M cartridge adapter

Microfiche

Film types:
Standard and jumbo fiche,
Jacketed and COM fiche
Oil Well Logs, AB Dick,
Microx, Step & repeat fiche

Options: Reflective title bar,
AB Dick locator pins and filter

Aperture Card

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

Standard:
Hollerith code reader