

## 3-in-1 TurboScan Hardware Specifications

### TurboScan

#### About TurboScan

SunRise Imaging continues to lead the microfilm scanner industry by incorporating the latest in technologies that include computing, imaging and software applications to provide the best digital image quality. The new family of 3-in-1 TurboScan scanners use a special camera developed by SunRise specifically for microfilm application.

The new generation of SunRise Imaging microfilm scanners, the 3-in-1 TurboScan, together with the latest ScanFlo scanning and image processing application, provides unparalleled performance in terms of speed, functions and features.

TurboScan is the all encompassing scanning Base Unit of SunRise Imaging. It allows users to scan and digitize any kind of film with the appropriate module (rollfilm, aperture card, or ultrafiche). The Base Unit consists of a computer, camera and light source. The integrated computer uses Microsoft® Windows® XP Professional operating system. The graphic display interface allows the use of standard analog or digital displays. A 17", or larger display, with a minimum 1280 x 1024 resolution is recommended.



TurboScan Base Unit

#### TurboScan Special Edition

SunRise Imaging Inc. offers Special Edition (SE) of the TurboScan Base Unit. Customers can customize their computing system with choices of processor, memory, storage and display interface options.

#### Features

Features	3-in-1 TurboScan
3 in 1	✓
Dual stream	✓
True output resolution	✓
Selectable camera resolution	✓
Upgradeable	✓
Module interchangeability	✓
Remote access diagnostics	✓

#### Software

Operating System: Windows XP Pro	✓
Applications	
ScanFlo professional	Included
RowScan	Optional
ReelScan	Optional

#### Computing System

Processor	Intel Core 2 Quad Processor
DRAM	2 GB
Hard drive	Dual SATA 320 GB
Optical drive: Dual layer DVD writer	✓
Flash drive	✓

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<b>I/O</b>	
USB 2.0: Front panel-2, Rear panel--6	✓
Display interface (user supplied)	Analog
Mouse & Keyboard	✓
LAN: Gigabit Ethernet	✓
<b>Imaging</b>	
Linear CCD 8160 pixel array	✓
Camera	SRI - TurboScan
Lens: Nikon 60mm f/2.8	✓
<b>Performance</b>	
Rollfilm using ScanFlo	*375 ppm =(pages per minute)
Ultrafiche using ScanFlo	*90 ipm = (images per minute)
Aperture Card using ScanFlo	*700 cph = (cards per hour)

**\*Note:** Performance data is based on using SRI production test film and is provided for reference only. Performance is highly dependent upon film characteristics and quality. SRI test film specifications are;

- **Rollfilm:** 16mm, A size image, 200dpi, 24x reduction
- **Ultrafiche:** 5 rows x14 images, A size image, 200dpi, 24x reduction
- **Aperture Card:** A size image, 200dpi, 8-bit grayscale, 24x reduction

Dimension (max)	Weight (max)
<b>Base Unit:</b> H 29" x L 30" x W 14" (cm:74x76x36)	<b>Base Unit: 80 lbs</b> (150 lbs with shipping container)
<b>Shipping container</b>	
- <b>Base Unit:</b> H 32" x L 34" x W 20" (cm: 82x86x50)	
<b>Base Unit+Ultrafiche:</b> H 29" x L 30" x W 28" (cm: 74x76x71)	<b>Module - Ultrafiche: 37 lbs</b> (47 lbs with shipping container)
<b>Base Unit+Rollfilm:</b> H 29" x L 30" x W 24" (cm: 74x76x61)	<b>Module - Rollfilm: 18 lbs</b> (27 lbs with shipping container)
<b>Base Unit</b>	<b>Module - Aperture Card 27 lbs</b>
+ <b>Aperture Card:</b> H 29" x L 30" x W 36" ( cm: 74x76x92)	(37 lbs with shipping container)
<b>Shipping container</b>	
- <b>Module:</b> H 13" x L 34" x W 18"( cm: 33x86x46)	

(Note: The base unit and modules are shipped in separate containers)