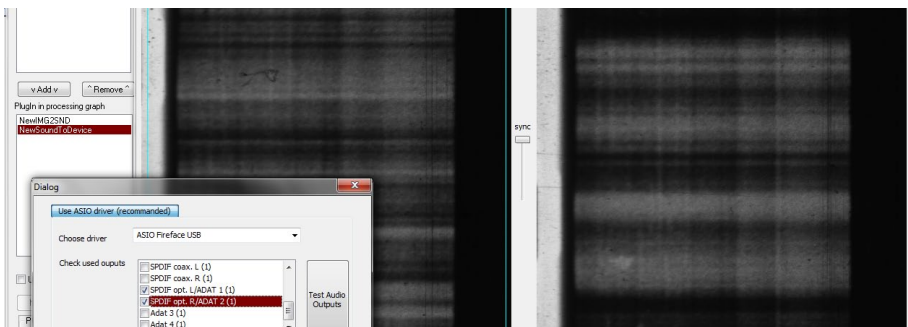
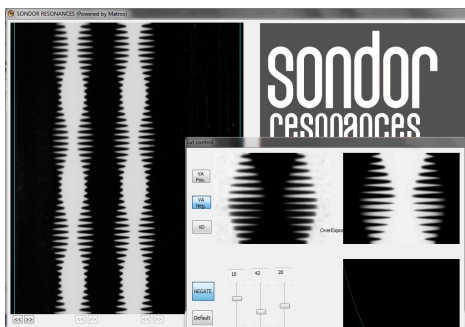
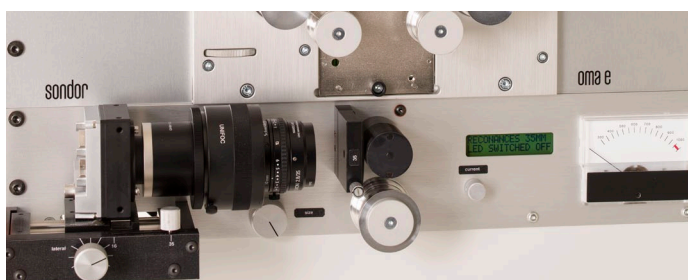
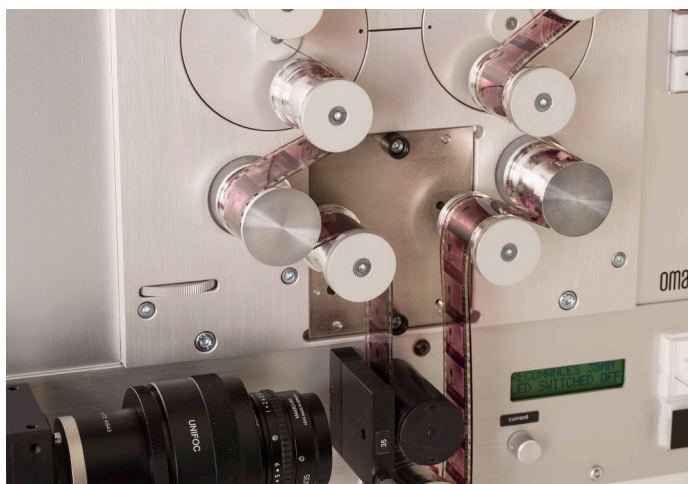
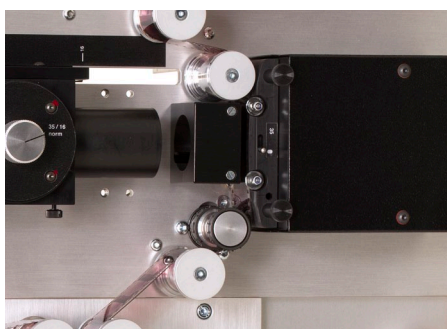
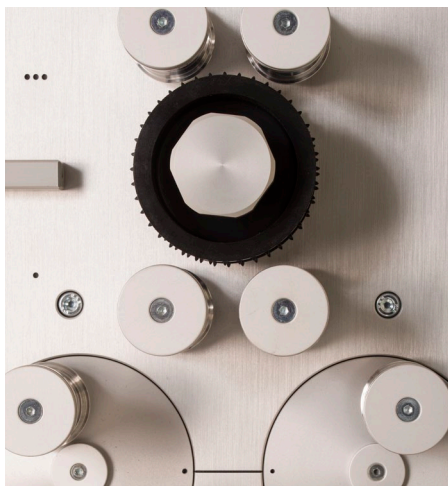
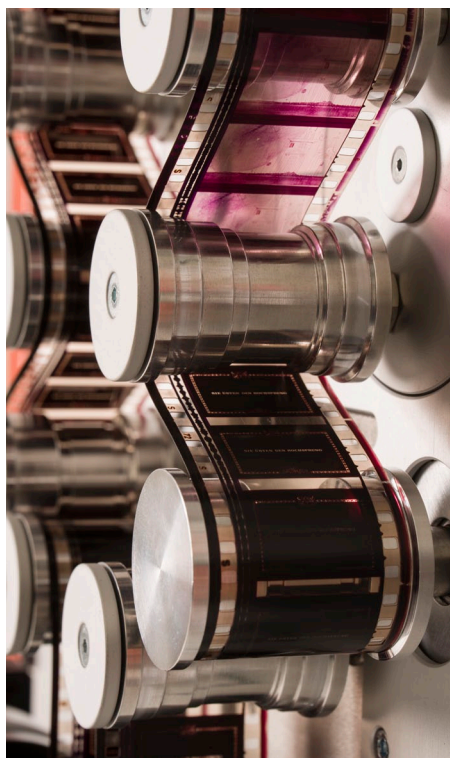


digital film technology

# Sondor versa





Sondor

# Versa >>>



## High quality. Real time. Future proof

Versa is a modular and scalable framework for archival digitization of moving image and sound. At its core is a precision film transport - the essential base to any high quality film digitization.

Scalable options for image and sound transfer can be grouped around this core.

All modules can be added easily at any later time. This machine adapts to your needs and grows with you!

## Highlights

- Highly tolerant precision film-transport. Unmatched stability and tolerance for warped and shrunk film through sondor “closed-loop” concept.
- Image scan: fully-featured 2.3K (4K available in Q4/2016), real-time scanner, 4:3 5.5um sensor, potent adjustable RGB light source, stepless optics for all 16 and 35mm formats, completed by an efficient and easy-to-use software.
- Magnetic sound scan: headstacks for all 16 and 35mm formats available.
- Conventional optical sound scan: for VA and VD soundtrack positives.
- sondor RESONANCES optical soundtrack scan:
  - advanced scanning system for all optical soundtracks, including soundtrack negatives.
  - Real-time restoration features.





## Image Modules

Our image modules are characterized by precision mechanical and optical controls, which scan any image format in full resolution.

- Full optical control over aspect ratio, zoom or cropping maintaining full image resolution
- Extremely high image steadiness even with damaged and shrunk stock
- Minimal shake at splices
- Archival gate keeps all parts of a warped frame in perfect focus
- Quick conversion between

16mm and 35mm use

- Works with minimal film tension to protect weak splices
- User presets for film tension and acceleration control
- Software assisted focusing and base correction
- Powerful flashing RGB LED light-source providing a diffuse illumination to mask scratches

## 4K Scanning Module

- 4080 x 3070 pixels resolution, real-time 4K and 2K DPX file generation
- ProRes proxy generation

- HDSDI video output optional
- WAV file output of soundtrack

## 2.3K Scanning Module

- 2048 x 1536 or 2330 x 1750 file generation
- DPX 10-bit format or DNG (digital negative)
- uncompressed transfer and data storage in real-time
- simple and intuitive image setup controls for color and B/W print and negative stock
- integrated waveform monitor, histogram and color analyser
- soundtrack capture into wave file, synchronised to timeline
- SDI output available



## Conventional audio playback options

### Magnetic:

Exchangeable head-blocks covering all formats of Sepmag and Commag.

Standard and archival type heads available.

### Optical:

- Versa uses red LED head-blocks for mono and stereo optical soundtracks. Proper film-to-head contact enforced by spring-loaded film guides and pressure roller for archival type head-blocks.

- Plug & Play conversion between 16mm and 35mm

head-blocks with automatic recall of the audio set-up of each head-block

- Head-blocks available for any known track standard  
- Analogue or AES/EBU digital output signal.

## RESONANCES optical soundtrack scanning system

Best possible transfer for variable area and variable density optical tracks from print and negatives, no other product solution comes close.

RESONANCES is based on a CCD line-scan camera combined with digital image processing enabling the

operator to remove optical defects of the soundtrack at the time of transfer before it is converted into audio.

These defects include:

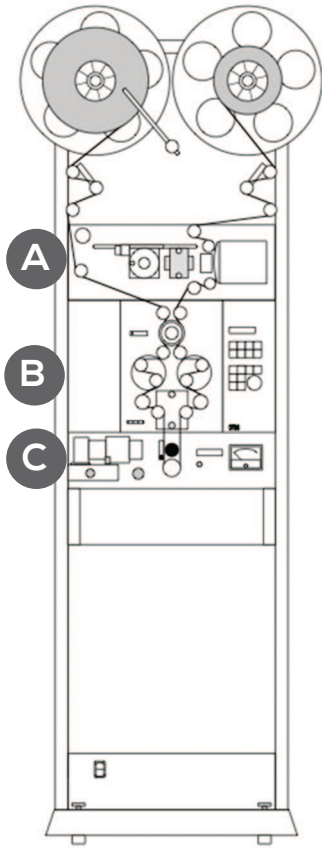
- lateral and azimuth off-sets
- under- / overexposure
- dust
- scratches
- image-spread distortion (negatives)



General specifications

Film Format	16 mm, 35 mm 4-perf/3-perf/2-perf (35mm)
Capacity	2100ft / 640m on cores
Speed	24/25 fps transfer speed for image  0-250 fps forward/reverse shuttle speed (400 fps in 16mm)
Locking time	< 3 sec.
Sync. modes	Wordclock internal/external Biphase out (1, 2, 10 pulse per frame)
Machine Control	Serial 9-pin (Sony) RS-422
Dimensions	1880x570x630mm
Weight	140kg
Mains	110V-240VAC, 50/60Hz 70VA idle, 300VA max

## Typical VERSA Configurations

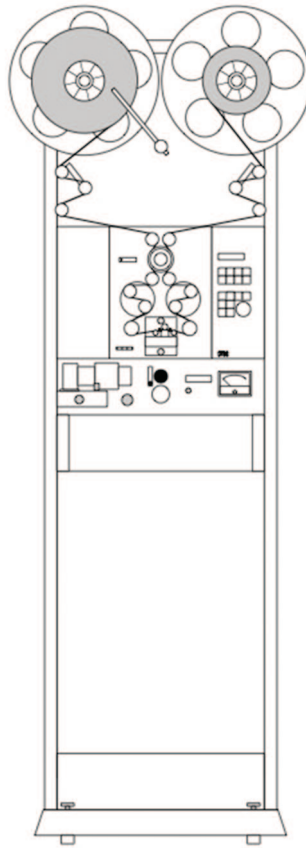


*Image and sound  
transfer*

*A. Image Scan Module*

*B. Film Drive*

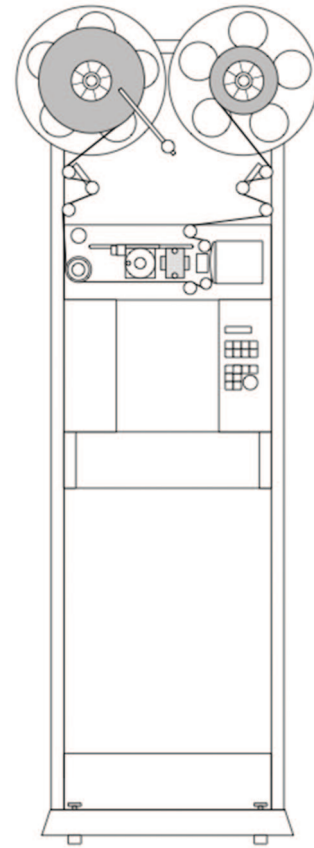
*C. RESONANCES optical  
soundtrack Scan Module*



*Sound transfer only,  
Conventional optical  
heads*

*Magnetic sound heads*

*RESONANCES optical  
soundtrack scanning*



*Image transfer only,  
HD, 2.3K or 4K module*



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