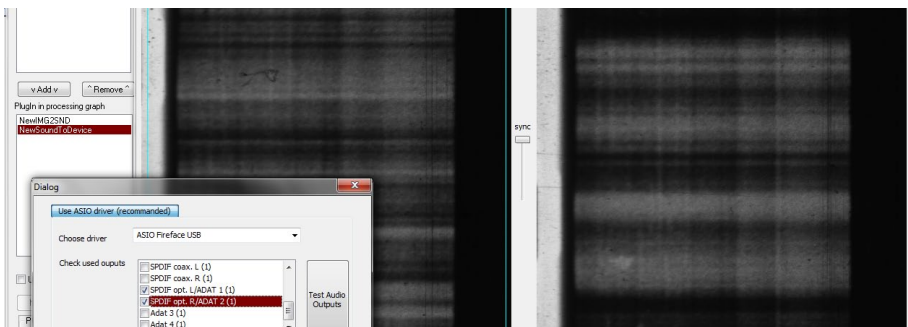
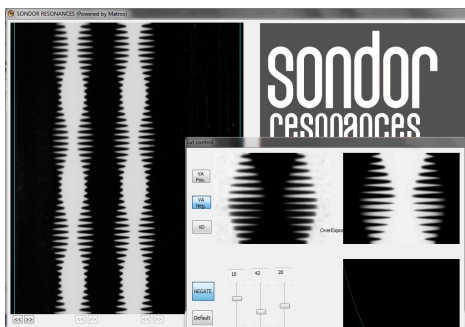
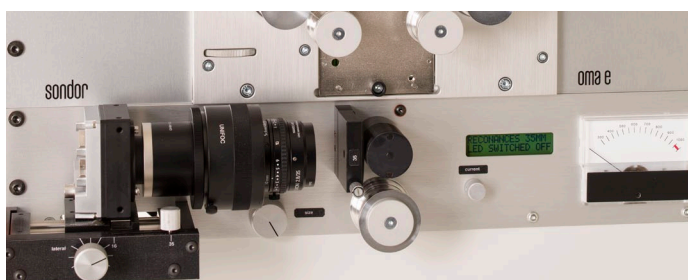
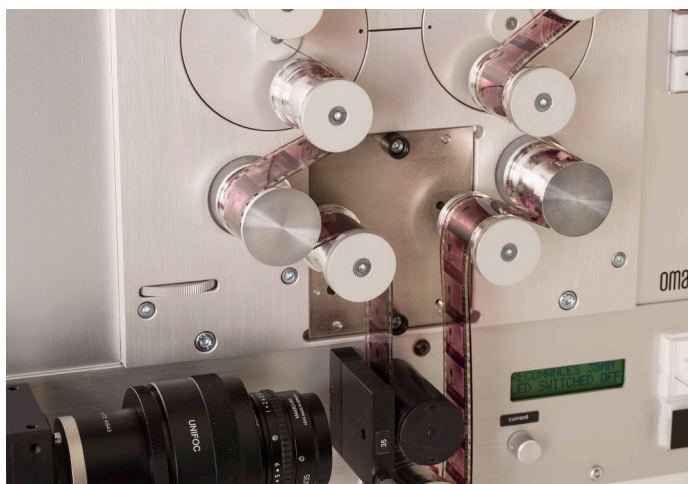
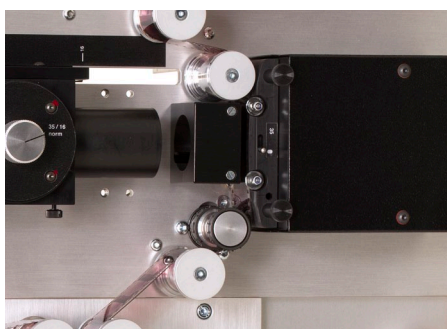
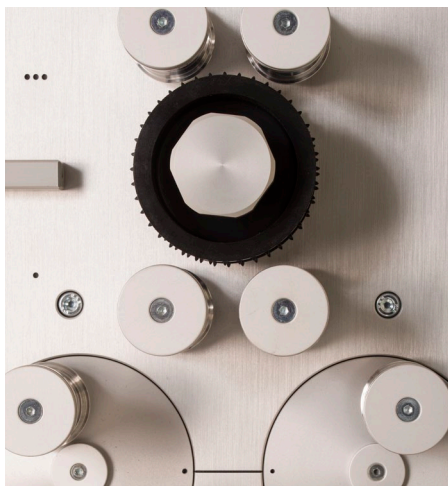
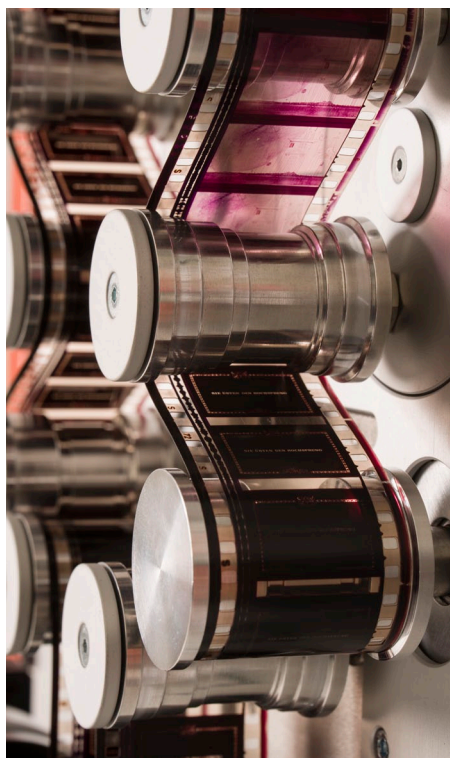


digital film technology

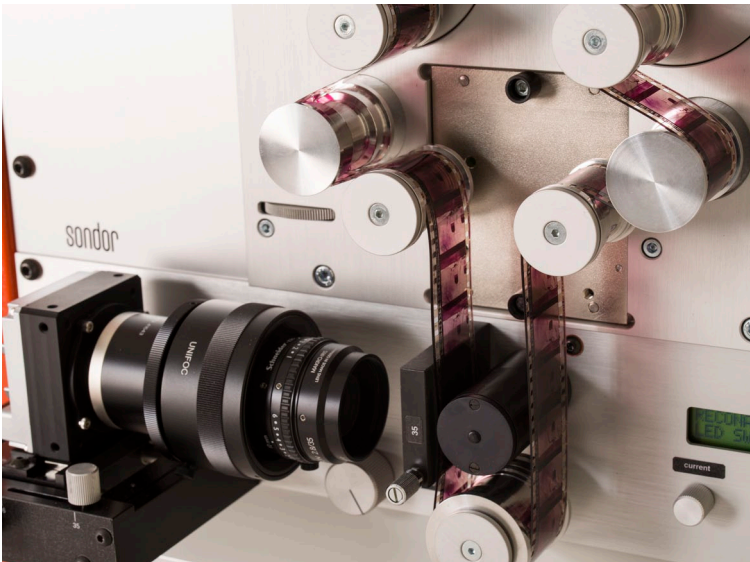
# Sondor resonances





The solution for scanning negative

# optical soundtracks >>>



The sondor RESONANCES optical soundtrack scanner system reads all types of 16mm and 35mm optical tracks and eliminates image-spread distortion from soundtrack negatives.

Sondor RESONANCES is a joint-venture product by the MIA Lab at University of La Rochelle / France and Sondor.

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## Key features

- for variable area and variable density soundtracks
- for silver halide, high-magenta and cyan dye tracks
- for prints and negatives
- output as WAV file, digital or analogue audio

## resonances for oma e and oma s includes

- adjustable diffuse LED light-source, safe to use with nitrate stock
- camera assembly holding linescan camera and macro lens system, with calibrated 16mm and 35mm positions
- PC system including required boards, keyboard/mouse and processing software
- Audio Interface providing balanced/unbalanced analogue, AES/EBU, S/PDIF coax/optical and ADAT format for main-output and monitoring; from 16bit/48kHz up to 32bit/96kHz resolution

- 1 year hardware warranty and software support/updates

## software tools

- real-time display of the tracks, before and after processing
- adjusting track size, position and contrast
- LUTs for negative/positive conversion
- mono/stereo rendering
- noise reduction by image processing
- plug-in interface allows to add further tools
- remote control of film transport
- control of camera and audio interface

## What is image spread distortion ?

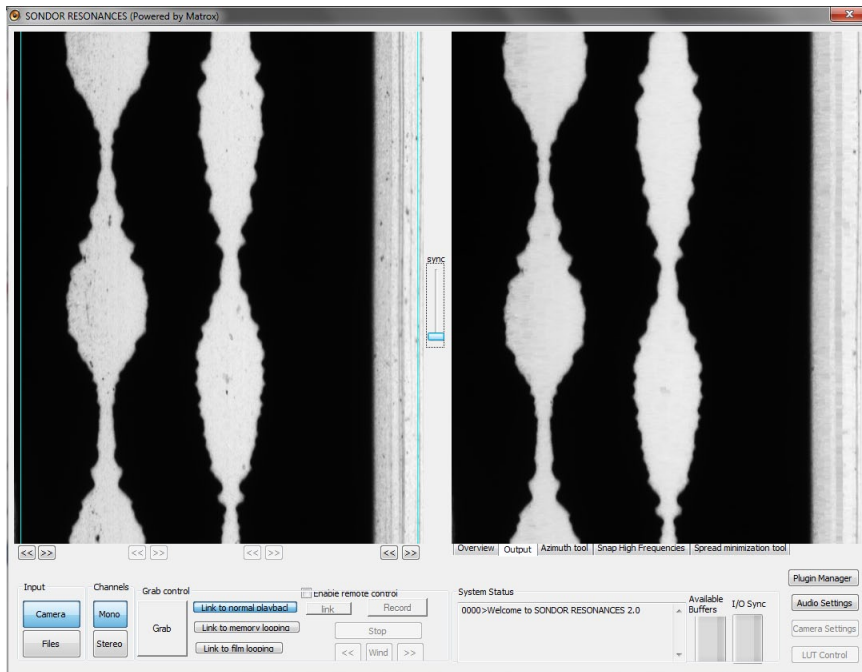
Image spread induces distortion (linear and nonlinear) of the analog-recorded signals and blur on the digital-recorded patches.

This drawback is overcome in the sound transfer house by cancellation of the effect of image spread in the printed film by adjusting the exposure

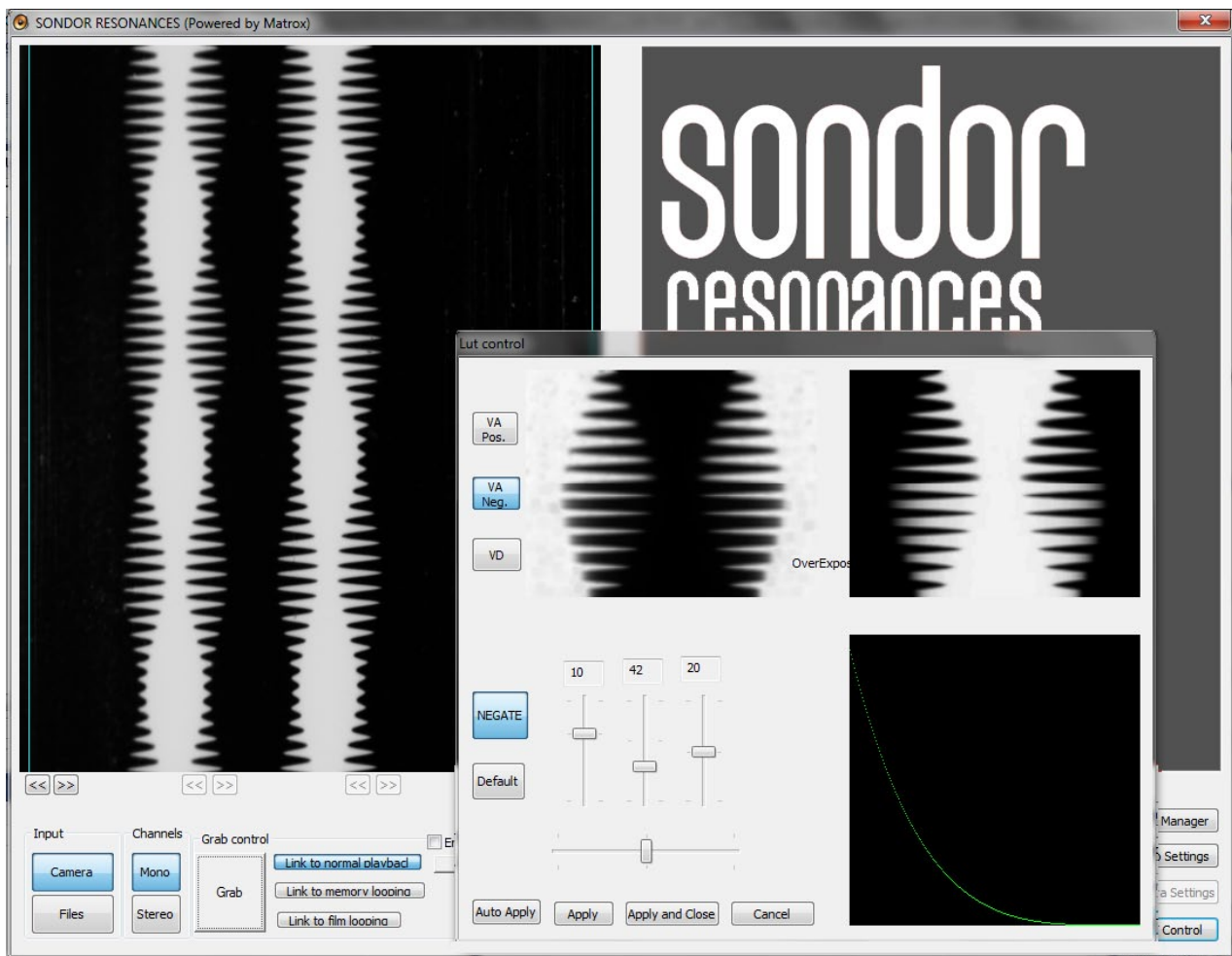
(thus the density) of the negative.

For soundtrack restoration directly based on optical negatives, this intentional overexposure has to be corrected either by drawing a print cancelling out the distortion (demand time, money, chemicals and waste water) or by applying software based correction with an adequate tool.





*Dust busting - before and after*



*Converting negative tracks to positive - eliminating image spread distortion*



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