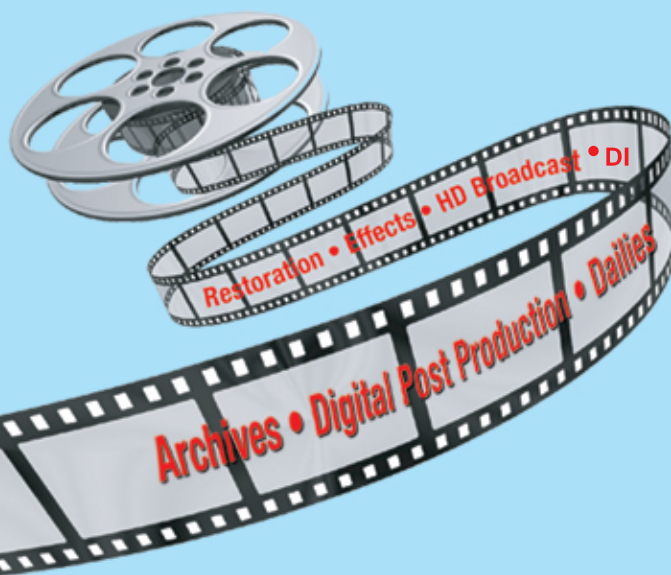


FilmStar UHD - *Ultra*safe *High*speed *Definition*_{4K}

The Most Affordable, Precision "4K UHD" Scanner for Motion Archives Restoration



- **SCAN -**

35mm Academy/Super 2/3/4 Perf
35mm Negative/Positive/Reversal
16mm Reg/Super, S8/8mm

- **IMAGE -**

| | |
|--------------|---------------|
| 35mm | 16mm |
| 4K @ 5.5 fps | 2K @ 30 fps |
| 2K @ 25 fps | 1K @ 60 fps |
| 1K @ 50 fps | .5K @ 120 fps |

- **OUTPUT -**

Tiff 16/8 bit, Custom/Raw
DPX 10/12/16 bit log/linear
Cineon 10 bit log, ProRes, AVI
Dust/Scratch Free Images

FilmStar.

Preserving the Human Experience.



Walde, Inc.

Professional, Reliable High Volume Film Conversion Systems
8333 Clairemont Mesa Blvd. Suite 210, San Diego CA 92111 USA • +1.703.898.7810
www.walde.com • sales@walde.com



FilmStar 4K UHD Specifications

Film Transport

Constant Velocity Capstan Driven
Sprocket Or Sprocketless Pin Registration
Optional PTR Cleaning Roller Path
35/16/8mm Gate/Reel Plate SWAP in < 5 min.
2000 ft. Reel Capacity
Safely Adapts for Shrunk Archives (~5%)

Imaging Sensors

12-bit 4-CCD 4K Line Scan Camera Enables 4K & 2K scanning w/o moving the optics or camera while the 4th IR channel allows for optional dust/scratch removal

10-bit GrayScale 1K Prescan Camera enables the full width of the film to be captured for optical audio, keycode and pinless sprocket hole imaging for frame sync

Light Source & Optics

300W Stable Xenon Light Source for Main Camera
150W Stable Halogen Light Source for Prescan Camera
Fiber Optic Light Lines Keep Heat Away from Film
High Precision Lenses optimize MTF Curves & Sharpness

Form Factor

Most Compact and Cost-Effective 4K Unit Available
Table Top Chassis Size at 24" x 22" x 36", ~160 lbs.
Full Color Touch Screen Control From Scanner
Includes One Windows 7 PC w/3.0 TB Local RAID 0/5
Internal Fiber NIC Enables > 600 MB/Sec TX to SAN
120V AC, 5 Amps Scanner / 120V AC, 3 Amps PC

Input Formats

35mm Academy/Super 2/3/4 Perf
35mm Negative/Positive/Reversal
16mm Regular/Super, S8/8mm
Audio: 35/16mm COMOPT, 16mm COMMAG

Frame Rates (October, 2013)

| 35mm | 16mm |
|--------------------|-------------------|
| 4K @ 5.5 fps | 2K @ 14/30* fps |
| 2K @ 11/25* fps | 1K @ 28/60* fps |
| 1K @ 22/50* fps | .5K @ 56/120* fps |
| .5K @ 44/100* fps | S8/8mm |
| .25K @ 88/120* fps | 1K @ 25/28 fps |
| | .5K @ 50/56 fps |

Fwd/Rwd @ 120 fps

*Faster Frames Rates with 2K Camera Upgrade

Output Formats

Tiff 16/8 bit, Cineon 10 bit log
DPX 10/12/16 bit log/linear
QuickTime ProRes 422/4444, AVI, WAV
Custom File Formats/Raw

Company

Walde, Inc. manufactures professional, reliable film preservation systems for the motion picture, university and government archive industries. Our carefully crafted FilmStar 4K UHD motion picture film scanner is a precision, archive quality system capable of scanning all formats of 35mm and 16mm cine and still film. With a 2K resolution speed up to 30 fps and a 4K resolution speed of 5.5 fps, the FilmStar UHD (pricing starts at \$130K) is absolutely the most cost-effective system on the market today.



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