

## TELEFILM TRANSFERS, LLC

# HOME MOVIE and PROFESSIONAL FILM TRANSFERS DATA SHEET

## R8mm, Super 8mm, 16/35mm, Super 16/35, Pathe 9.5, Double System 16 & 35

### MOVIES CAN BE TRANSFERRED TO THESE BASIC SUPPORTED FORMATS:

- DVD-R Type 5 (single layer) at 4.44 megabits (Standard 2 hour quality) or 8.1 megabits (Archive 1 hour quality). Recommended for instant viewing, no editing. A master disc can be made on an M-Disc (long term storage disc used by the US government) that plays like a regular DVD on any DVD player.
- Windows DV file (.avi), MAC DV File (.MOV), both at 25 megabits with a 5 to 1 compression. Recommended for EDITING, mastering, and archiving. A Hard Drive can be supplied (may require reformatting). Drives must be virgin! Formatting: NTFS PC formatted or MAC Extended Journaled.

### INCLUDED IN ALL STANDARD SERVICE R8mm, S8mm, and 16mm FILM TRANSFERS:

- SDI (Serial Digital) transfers from the Quadra or Spirit scanners to all requested media (DVD, Blu-ray, Hard Drive, etc...)
- Scratch-Free (a professional "liquid gate" technique that temporarily fills in most base line film scratches)
- Spooling (mandatory) of Standard 8 & Super 8 films (50' spools) onto 7 inch reels (reel, box, and splicing included);
- General black/gamma/white balance color correction (real time adaption)
- All movies played back at 16, 18, 20, or 24 fps (frames per second) as needed (8 & 12 fps optionally available)
- True Super 8 SOUND conversion **main AND balance stripe** at 18fps/24 fps; Regular 8mm sound available thru editing only (separate film/sound transfers);
- 16mm home movies with optical, magnetic, or double system sound (for college projects) transferred at 18 or 24 fps (frames per second).
- General Liquid Gate cleaning of all films just prior to scanning;

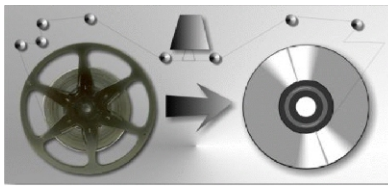
**ABOUT THE DIGITAL SCANNING TECHNOLOGY:** We utilizes DFT Quadra (SD) and Spirit(HD) digital film scanners to convert all films to hard drive and other formats. These are the same systems used by national television sports organizations, major archiving organizations, and professional Hollywood feature DVD/Blu-ray production firms. The system utilizes SDI (serial digital interface) to keep the signal completely pure during the transfer process to the target format. Film sharpness is retained down to the film grain and color rendition is superb. Projectors are NOT used. The scanner pulls film through like a tape recorder (no claws or sprockets) which is SAFE for all films.

**ARCHIVING: STANDARD DEF VS. HI-DEF:** Regular 8 and Super 8 can delivery superb standard definition images. However, they do not offer nearly enough picture information to produce an HD image. 16mm can approach Hi-Def but usually falls short. In essence, therefore, a transfer to Blu-ray, for example, still only plays back standard def resolution. If High Definition is requested films (only 35mm film offers true HD) can be "up-resed" (converted). Hard drive recording is recommended for the best archive quality. Consumer formats like VHS DO NOT offer HD quality. However, specific consumer formats do such as HDV and various hard drive recorded camera formats.

### PREPARATION:

- NUMBER all reels CLEARLY. Tag all reels with your ID. Remove any stickers covering reel hubs.
- CHECK to make sure all film boxes or containers have films inside and that they were all lab processed. Watch for boxes with TWO films inside.
- GROUP all 16mm films together first followed by Regular 8mm, then Super 8 (or other order); do not mix and match unless absolutely necessary (there is a "Changing Gauges" charge for bouncing back and forth between formats after the initial NATURAL changes).
- SPECIFY IF LONGER WHITE LEADERS (2 seconds is the norm) are desired between reels.
- If TITLES (Individual On-Screen Reel Titles or Menu Titles) are requested, please include a detailed description of the title (please use the TITLE FORM).

**ABOUT HOME MOVIE FILM, TRANSFER QUALITY, and CORRECTION:** 16mm (introduced in 1923) and Standard 8mm (in 1932) are the oldest film stocks. Super 8 is more recent (introduced in 1965). Image sharpness can look terrific with all three film types but is dependent on a number of attributes: film stock, lighting, lens quality, photographer experience, film condition, film age, and more will all affect the final transfer quality. For example, low light stocks (high speed films like Ektachrome 160) will look grainy. Alternately, Kodachrome 40 stock - if well lit and filmed with a good sharp lens - produces superb results. As for sound, 16mm magnetic offers the best quality. Super 8 sound (2 tracks on the film) can offer adequate quality if a good mic was used to record the audio. (R8mm sound is not available) scratched. Scratch-Free is not permanent as the film reverts to its original condition once the transfer is complete. Our scanners offer significant color correction capabilities. Accidental use of blue filters indoors or yellow filters outdoors on film originals are easily corrected with our adaptive color correction system in real time (about a two to five second adjustment period). Prints that are faded RED can many times be corrected (difficult red prints may require an additional fee to correct). In addition, our scanners can handle a variety of damaged and severely warped films that projectors cannot even begin to run: torn sprockets, moldy film, and in certain cases badly warped/curled/shrunk film, and more.



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**DVDs, Blu-rays, and MENU's:** We record MOST film transfers initially to the system hard drive ( Blu-ray *Direct* transfers is the exception). The Disc Fee includes the disc (DVD/Blu-ray), basic menu creation, and finalizing the disc for playback. Our film transfers offer the following basic MENU options:

1] **No Menu:** this is for those who simply want the video to play back immediately and end without returning to a menu. "Looping" is available.

2] **The Default Menu:** a menu is created with a "title" navigation button for spooled 3 inch Regular/Super 8/16mm reels (buttons are labeled "Reels 1-8", "REELS 9-16"etc) or larger individual 4, 5,6, 7, inch or larger reels ("Reel 8", "Reel 9", etc.). Each "title" has jump points (no thumbnails) every 5 minutes; this menu runs in the background; click MENU on your remote to view the disc menu.

3] **The Chapter Menu:** (additional cost); The layout is the same as the Default Menu but offers individual THUMBNAIL Images for each Film Group or Reel Title, and THUMBNAIL images for all the 5 minute jump points under each Film Group Title. Film Group Titles can be replaced by CHAPTER THUMBNAILS ONLY.

4] **The Custom Menu:** Film Group Titles and Chapters can be customized (both can have custom text AND thumbnails, if desired, or a combination); thumbnails for the FILM GROUP TITLES and CHAPTERS can be customized or automated. It is recommended to keep any TEXT brief as it may not fit in the Title/Chapter window.

**SPEED CORRECT & FRAME RATES:** Most Regular 8 films were photographed at 16 or 18fps (frames per second) but can vary due to windup cameras slowing down. Super 8 is normally 18fps (and 24fps for semi pro and commercial films). 16mm yields a variety of speeds due to early wind-up cameras but generally transfer well at 16fps. Films with speeds below 16fps (12/8 fps) are charged according to TOTAL JOB time per minute AND number of changes (edits), not by reel size.

**SCRATCH-FREE, COLOR CORRECTION AND FILM HANDLING:** Scratch-Free is our Quadra **liquid gate process** that both CLEANS film and renders scratches about 95 percent invisible during the transfer process. Our Spirit does not utilize wet gate but offers "Light Scatter" to hide many scratched. Scratch-Free is not permanent as the film reverts to its original condition once the transfer is complete. Our scanners offer significant color correction capabilities. Accidental use of blue filters indoors or yellow filters outdoors on film originals are easily corrected with our adaptive color correction system in real time (about a two to five second adjustment period). Prints that are faded RED can many times be corrected (difficult red prints may require an additional fee to correct). In addition, our scanners can handle a variety of damaged and severely warped films that projectors cannot even begin to run: torn sprockets, moldy film, and in certain cases badly warped/curled/shrunk film, and more.

**ABOUT TRANSFERS TO VIDEO TAPE:** Tape and Menuless DVDs: since transfers to tape (certain formats are still available) and menuless DVDs do not require a menu there is no "prep" fee.

