

Guidelines for Digital Cinema Source Material Delivery

Supported File-Based Image Formats:

****IMPORTANT NOTE****

All Images **MUST** be provided with 100% accurate Color-Space, Gamma, and Code Value Range Information (head vs full). Failure to provide accurate data may result in additional charges and delay agreed upon project completion time(s).

TIFF

- 3-Channel, Interleaved RGB, 16 bit files.
- Uncompressed, or LZW compressed (LZW Compression recommended for test patterns only).
- Big Endian
- Single Strip/One tile per image

DPX

- 3-Channel, Interleaved RGB, 10-bit files
- Uncompressed
- Big Endian

CINEON

Other Formats

QuickTime[®], Apple ProRes 422 (4444, HQ, LT; *Proxy*)

Avid DNxHD[®]

Panasonic DVCPRO-HD and AVC-Intra

Sony XDCAM[®]-HD

General Image File Requirements:

Frame-Rates:

- 23.98 PsF
- 24 fps

IMAGE SIZE - 2K:

- (1.85/FLAT) = 1998x1080, (1.85/SCOPE) = 1998x836 (padded to 1998x1080)
- (2.39/SCOPE) = 2048x858, (2.39/FLAT) = 1588x858 (padded to 2048x858)

IMAGE SIZE - 4K:

- (1.85/FLAT) = 3996x2160, (1.85/SCOPE) = 3996x1672 (padded to 3996x2160)
- (2.39/SCOPE) = 4096x1716, (2.39/FLAT) = 3176x1716 (padded to 4096x1716)

IMAGE – Tape Based:

- Tape Format - 1080/24p D5 or HDCAM-SRW, HDCAM, DVCPRO HD
- Image must be provided with 8 second Academy leader, with 2pop **AND** tail pop matching the audio

General Image File Requirements (Cont):

IMAGE FORMAT:

- 1920 X 804 (2.39/SCOPE), 1488 X 804 (2.39/FLAT)
- 1920 X 1038 (1.85/FLAT)
- Color-Space (must be specified on media label) : DCI-P3, REC-709 (RGB or YUV), or P7v2
- Tape-based content will not be resized from HD to 2K unless requested
- Reminder: Failure to provide accurate Color Space information may result in additional charges and/or improper color reproduction.

AUDIO:

- Files **MUST** be provided in reels matching the image (including 2pop and Tail pop). Stereo interleaved WAV files - channel config: (1) Left/Right, (2) Center/Sub, (3) Left surround/Right surround, OR single channel (monaural) WAV files. Ch 1: Left, Ch 2: Right, Ch 3: Center, Ch 4: LFE, Ch 5: Left Surround, Ch 6: Right Surround
- 24 bit 48Khz @ 24 FPS (2000 samples per frame), Ref level = -20dBFS, Output level = 85dBc.
- Reels **MUST** be delivered with 8 seconds of pre-roll. 1st Modulation of 2 pop must land at exactly 6 seconds (288000 Samples). 2 pop must be exactly 1 frame (2000 Samples) in duration, and must be exactly 2 seconds (96000 samples) from the start of program.
- If providing Audio on tape, Channel assignments must be clearly labeled.

MEDIA:

- All media **MUST** be labeled, or be accompanied by a shipping list that clearly identifies the content, project
- Files may be delivered on (in order of preference):
- HDD - XFS, NTFS, NTFS (FW800, FW400, USB2.0, SATA), EXT2, EXT3 (FW400, USB2.0, SATA)
- CD/DVD
- Excessive transfer times due to low speed media may result in an inability to make agreed upon deadlines and additional data charges.