



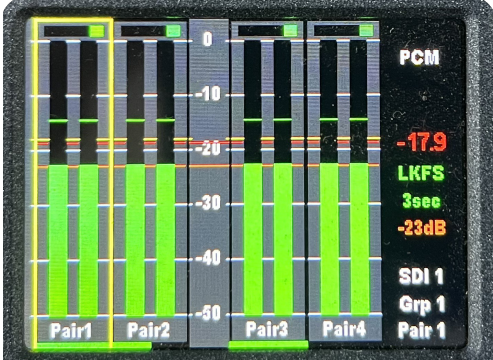

CONTENT DELIVERY FORMAT

COMMERCIAL & PROMO TECHNICAL SPECIFICATIONS

Version: 2.1
Dated: April 2022

FILE DELIVERY FORMAT

VIDEO CODEC - FILE FORMAT	XD CAM HD	
FILE CONTAINER	.mxf op1a	
VIDEO BIT RATE	50 Mbit/s	
VIDEO CHROMA SAMPLING	4:2:2	
FRAME RATE	25 frames per second	
FRAME SIZE	1920 x 1080	
VIDEO ASPECT RATION	16:9	
AUDIO TRACKS	8	
AUDIO CODEC	PCM	
BITS PER SAMPLE	24 bits	
AUDIO SAMPLING RATE	48 kHz	
AUDIO LOUDNESS (NLE - Adobe Premiere)	-9 dB maximum peak -12 dB minimum peak	
AUDIO LOUDNESS (Audio Monitoring Unit)	-16 dB maximum peak -20 dB minimum peak	
AUDIO TRACK ALLOCATION	STEREO	
	AUDIO TRACK 1	STEREO MIX
	AUDIO TRACK 2	STEREO MIX
	AUDIO TRACK 3	SILENCE
	AUDIO TRACK 4	SILENCE
	AUDIO TRACK 5	SILENCE
	AUDIO TRACK 6	SILENCE
	AUDIO TRACK 7	SILENCE
	AUDIO TRACK 8	SILENCE

	
<p>AUDIO MONITORING UNIT</p>	<p>ADOBE PREMIERE (Audio VU Panel)</p>

CONTENT TECHNICAL SPECIFICATIONS

VIDEO QUALITY

1. Video need to be free of Noise, Burning Picture, High Video Level, Black & White Steaks, Excessive high and low Black Level, Hum cross talk and other Spurious Signals will not be apparent in the video signal.
2. Colour rendition, especially skin tones, must be consistent throughout, and a realistic representation of the scene portrayed unless it is altered as an editorially essential visual effect.
3. Use of any video equipment such as digital video effects DVE must not introduce changes to luminance and chrominance levels nor cause perceptible timing shifts on entry and exits level.
4. The maximum video level will not be more than 1 p-p with 0.7 volt of video and 0.3 volt of sync pulse and max chrominance saturation 100% (with 75% colour bar standard.)
5. Overall Chroma Level and colour tone will be maintained.
6. Movement must appear reasonably smooth and continuous, and must not give rise to distortions or break-up to moving objects, or cause large changes in resolution.
7. The picture must be free of excessive black crushing and highlight compression. Hard clipping of highlights must not cause visible artifacts on screen.
8. There must be no noticeable horizontal or vertical aliasing, i.e. jagged lines, field or frame rate fluctuations in fine detail.
9. The picture must be stable and continuous - i.e. no jumps, movements, shifts in level or position.

AUDIO QUALITY

1. Sound must be recorded with appropriately placed microphones, giving minimum background noise and without peak distortion.
2. The audio must be free of spurious signals such as clicks, noise, hum, cross talk and any analogue distortion.
3. The audio must be reasonably continuous and smoothly mixed and edited. Dialogue, music and effects must be properly mixed and without distortion.
4. Audio shall be synchronous with the vision such that the audio will not lead the video more than one (1) field or lag more than one (1) frame
5. Audio levels must be appropriate to the scene portrayed and dynamic range must not be excessive. They must be suitable for the whole range of domestic listening situations.
6. Stereo audio must be appropriately balanced and free from phase differences which cause audible cancellation in mono.
7. The audio must not show dynamic and/or frequency response artifacts as a result of the action of noise reduction or low bit rate coding systems.

8. The sound levels on the recording will be in correct proportion to the line-up signals and maximum levels will not exceed -16dB.
9. Provision will be made for “soft spots during content. (These are spots where the audio levels are too low compared to the line-up signal. To improve audio quality, audio levels will be correctly adjusted during editing referenced on a dB meter.)

TECHNICAL CLEARANCE:

Content to be telecasted must pass both the Quality and Technical inspections to be accepted. If the content is QC rejected, the respective user / producer / production house will be notified and a new copy of the content will be requested that addresses the error(s). Once the new copy of the content is received, the original copy will be purged. The newly received content will then undergo the full quality and technical inspection process.

The Audio & Video Faults leading to a programme content rejection include:

VIDEO TECHNICAL CHECK

1. Jitter / Glitches / Dropouts / Black frames / Frame slippage / Visual jerks / Picture jerks / Black streaks / White streaks / Low resolution video
2. Grainy / Noisy picture quality / Film scratches/Grain and dirt
3. Incorrect gamma (Black Level) / Black & white crushing / Compression artifacts
4. Vertical or horizontal instability / Unnatural flesh tones / Low or excessive contrast range / Gamut errors

AUDIO TECHNICAL CHECK

1. Muffled / Metallic / Distorted audio
2. Hiss / Bad ambience sound
3. Flange / Audio – imbalance in channels
4. Inconsistent levels, phase errors, noise, humming etc.
5. Audio out of sync
6. Reverse audio/Phase
7. Crackle / Clicks / Hum / Hiss / Incorrect dynamic range / Poor tonal balance / Poor acoustics
8. Modulation, cross modulation, dynamic range errors



PLEASE NOTE: NOT ACCEPTABLE

- The above Technical Guidelines are to be followed **STRICTLY**
- Transmission content having dropouts, scratches, glitches incorrect aspect ratio & video resolution, video flicker, jitters, audio out sync, hiss, jerks & drop outs will be **TOTALLY REJECTED**.