

TECHNICAL SPECIFICATIONS TELEVISION COMMERCIALS HD & SD

Version 1.1 - 10/07/2018

STAR India Pvt. Ltd.

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1. TVC - HIGH DEFINATION (HD) FILE MASTER:

1.1 HD SPECIFICATION :

Container	MXF	
GOP	Long GOP	
Bit rate type	CBR	
Video Codec	Sony XD CAM HD 422	
Video bit rate	50 Mbit/s	
Width	1920	
Height	1080	
Frames per second	25	
Interlaced	50i	
Audio Codec	PCM and/or Dolby E	
Bits per sample	24 bits; Dolby E always 20	
# of Audio channels	4 tracks as per section 1.2	
Audio sample rate	48 kHz	

1.2 AUDIO TRACK DETAILS :

AUDIO TRACK 1	STEREO MIX	
AUDIO TRACK 2	STEREO MIX	
AUDIO TRACK 3	DOLBY E MIX	
AUDIO TRACK 4	DOLBY E MIX	

Dolby E track allocation shall be:

- Audio track 1 Left
- Audio track 2 Right
- Audio track 3 Centre
- Audio track 4 Low Frequency Effect
 - Audio track 5 Left Surround
- Audio track 6 Right surround

Star TV Dolby E encoding specifications please refer to the Annexture 1.

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2. TVC - STANDARD DEFINATION (SD) FILE MASTER:

2.1 SD SPECIFICATION :

Container		
Container	MXF OP1A	
Frame Structure	I Frames	
Bit rate type	CBR	
Video Codec	IMX	
Video bit rate	50 Mbit/s	
Width	720	
Height	576	
Frames per second	25	
Aspect Ratio	4:3	
Audio Codec	PCM, Uncompressed	
Bits per sample	24 bits	
# of Audio channels	4 tracks as per section 2.2	
Audio sample rate	48 kHz	

2.2 AUDIO TRACK DETAILS

AUDIO TRACK 1	STEREO MIX	
AUDIO TRACK 2	STEREO MIX	
AUDIO TRACK 3	STEREO MIX	
AUDIO TRACK 4	STEREO MIX	

3. Mastering Format

- No Colour Bar or Black at the start
- TVC to start at 10.00.00.00
- Duration has to be accurate to the frame
- Seperate master file to be submitted for HD & SD

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4. Faults Parameters Audio & Video:

Vision	Audio	
Film scratches	Distortion	
Blemishes	Crackle	
Grain and dirt	Clicks	
Smear	Hum and other noise	
Video noise	Hiss	
Incorrect gamma	Sibilance	
Black and white crushing	Incorrect dynamic range	
Flare	Poor tonal balance	
Color fringing	Poor acoustics	
Color cast	Phase errors	
Poor resolution	Lip sync errors	
Gamut errors	In-appropriate Dolby encoding	
Compression artifacts	Invalid Dolby track assignments	
Bearding	Incorrect application of Noise Reduction	
Low or excessive contrast range	incorrect or missing metadata for Dolby E	
Unnatural flesh tones	incorrect critical metadata settings	
	(Dialnorm, Dynamic range setting,	
	downmixing & Channel configuration)	
Excessive video drop-out		
Vertical or horizontal instability		

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Annexure 1

Star TV Dolby E Metadata Settings

Metadata parameter name:	Star TV requirement:	Remarks
Prog Description	Location of Encoder (E.g: STAR 1 Main)	User defined
Prog Config	5.1	
Dialogue Level ¹	- 23LUFS	As per EBU-R128
Channel Mode	3/2	
LFE Channel	Enabled	
Bitstream Mode	Main Complete	
Line Mode Pro	Film: Standard	
RF Mode Pro	Film: Standard	
RF Overmod Protect	Disabled	Keep this Off
Centre Downmix Level	0.707 (-3 dB)	
Surround Downmix Level	0.707 (-3 dB)	
Dolby Surround Mode	Dolby Surround	
Audio Prod Info	No	
Mixing Level	82 dB	
Room Type	Not Indicated	
Copyright	Yes	
Original Bitstream	Yes	
Preferred Stereo Downmix	Lt/Rt	
Lt/Rt Centre Mix Level	0.707 (-3 dB)	
Lt/Rt Surround Mix Level	0.707 (-3 dB)	
Lo/Ro Centre Mix Level	0.707 (-3 dB)	
Lo/Ro Surround Mix Level	0.707 (-3 dB)	
Dolby Surround EX Mode	Not Dolby Surround EX	
A/D Converter Type	Standard	
DC Filter	Enabled	
Lowpass Filter	Enabled	
LFE Lowpass Filter	Enabled	
Srnd 3 dB Atten	Disabled	
Surround Phase Shift	Enabled	

NOTE: Actual programme loudness (measured to EBU R128) must match the Dialnorm setting used.

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