



Television Broadcast Engineering
HD, SD Ingest Master File Format
Revision: 0.1.3 2016-08-22
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Approved By:

HD - XDCAM MXF

General:

Format: MXF
Commercial name: XDCAM HD422
Format version: 1.2
Format profile: OP-1a
Format settings: Closed / Complete
Index Table: Yes
Random Index Pack: Present
Writing application:
Telestream Flip Technology 1.0.0.0.0

Video:

Format: MPEG Video
Commercial name: XDCAM HD422
Format profile: 4:2:2@High
BVOP: Yes
Format settings, GOP: M=3, N=15
Width: 1920
Height: 1080
Aspect Ratio: 16:9
Bitrate: 50.0 Mbps
Frame Rate: 29.970 (30000/1001) fps
Color Space: YUV
Chroma Subsampling: 4:2:2
Bit Depth: 8 Bits
Scan Type: Interlaced
Scan Order: Top Field First
GOP, Open/Closed: Closed
Color Primaries: BT.709

Audio:

Format: PCM
Endianness: Little
Wrapping Mode: Frame (BWF)
Channels per Track: 2 Channels
Sample Rate: 48.0 KHz
Bit Depth: 24 Bit

Audio Layouts:

Stereo:

Stereo Pair:	Content:
1	Full Mix (L&R)
2	Full Mix <u>or</u> Full Mix w/ DV (L&R)

Stereo with D&E or M&E:

Stereo Pair:	Content:
1	Full Mix (L&R)
2	Full Mix <u>or</u> Full Mix w/ DV (L&R)
3	Mute
4	Mute
5	Mute
6	Dialog (L) & Effects (R) <u>or</u> M&E (L&R)

Surround (5.1) Content:

Stereo Pair:	Content:
1	Full Mix (L&R)
2	Full Mix <u>or</u> Full Mix w/ DV (L&R)
3	Left & Right
4	Center & LFE
5	Left Surr. & Right Surr.

Surround (5.1) Content with D&E or M&E:

Stereo Pair:	Content:
1	Full Mix (L&R)
2	Full Mix <u>or</u> Full Mix w/ DV (L&R)
3	Left & Right
4	Center & LFE
5	Left Surr. & Right Surr.
6	Dialog (L) & Effects (R) <u>or</u> M&E (L&R)

Timecode:

MXF Timecode in both Source and Material Package.

Timecode track start times must match.

Closed Captioning:

Closed Captioning should be provided as an SCC (Scenarist Closed Captions) file. SCC timecode must match source MXF file.

SD – IMX MXF

General:

Format: MXF

Commercial name: IMX 30

Format version: 1.2

Format profile: OP-1a

Format settings: Closed / Complete

Index Table: Yes

Random Index Pack: Present

Writing application:

Telestream Flip Technology 1.0.0.0.0

Video:

Format: MPEG Video

Commercial name: IMX 30

Format profile: 4:2:2@Main

Format settings, GOP: N=1

Width: 720

Height: 480 or 486 or 512 (480 Preferred)

Aspect Ratio: 4:3

Frame Rate: 29.970 (30000/1001) fps

Standard: NTSC

Color Space: YUV

Chroma Subsampling: 4:2:2

Bit Depth: 8 Bits

Scan Type: Interlaced

Scan Order: Top Field First

GOP, Open/Closed: Closed

Audio:

Format: PCM

Endianness: Little

Wrapping Mode: Frame (BWF)

Channels per Track: 2 Channels

Sample Rate: 48.0 KHz

Bit Depth: 24 Bit

Audio Layouts:

Stereo Content:

Stereo Pair:	Content:
1	Full Mix (L&R)
2	Full Mix <u>or</u> Full Mix w/ DV (L&R)

Note: There is no SD Surround, D&E, or M&E content

Timecode:

MXF Timecode in both Source and Material Package.

Timecode track start times must match.

Closed Captioning:

Closed Captioning should be provided as an SCC (Scenarist Closed Captions) file. SCC timecode must match source MXF file.