

HD Files

XDCAM HD 422 (MXF)

General

Essence container	MXF OP1a (SMPTE 378M)
File name	Not longer than 32 characters, no special characters, no spaces
File suffix	mxf (case sensitive - no capital letters)
Programme start	First frame (no clocks, no bars, ...)
Start timecode	00:00:00:00

Video essence

Video signal compliance	ITU-R BT.709
Chroma format	4:2:2
Video coding	MPEG-2 422P@HL
Video data rate	50 Mbit/s
Stored resolution	1920x1088
Displayed resolution	1920x1080
Frame rate	25 fps (50i)
Interlacing	Top field first
GOP	IBBP (Length: 12) - sequence header on each GOP - first GOP closed
Aspect ratio	16:9

Audio essence

Essence format	AES-3 (SMPTE 382M)
Total audio essences	8
Channels per essence	1 (mono)
Audio coding	PCM (Channel 1-4) or Dolby E (Channel 5-8)
Sampling rate	48 kHz
Channel configuration	8 channels @ 24 bit

Audio channel configuration

1-2	Stereo total mix primary language
3-4	Stereo total mix secondary language or M&E or muted
5-6	Dolby E (5.1 or 5.1+2) primary language or muted
7-8	Dolby E (5.1 or 5.1+2) secondary language or muted

Dolby E channel configuration

1	Front left
2	Front right
3	Center
4	LFE
5	Surround left
6	Surround right
7	Left total mix or muted
8	Right total mix or muted

SD Files IMX50 D-10 (MXF)

General

Essence container	MXF OP1a (SMPTE 378M) – Mapping: D-10 (SMPTE 386M)
File name	Not longer than 32 characters, no special characters, no spaces
File suffix	mxf (case sensitive - no capital letters)
Programme start	First frame (no clocks, no bars, no backgrounds ...)
Start timecode	00:00:00:00

Video essence

Video signal compliance	ITU-R BT.601
Chroma format	4:2:2
Video coding	MPEG-2 422P@ML (SMPTE 356M)
Video data rate	50 Mbit/s (Constrained bytes per GOP: 250000 bytes per frame)
Stored resolution	720x608
Displayed resolution	720x576
Frame rate	25 fps (50i)
Interlacing	Top field first
GOP	I-frame only
Aspect ratio	Aspect ratio flag of container and video essence matching content aspect ratio

Audio essence

Essence format	AES-3 (SMPTE 331M)
Audio coding	PCM (Channel 1-4) or Dolby E (Channel 5-8)
Sampling rate	48 kHz
Channel configuration	4 or 8 channels @ 24 bit or 8 channels @ 16 bit

Audio channel configuration

1-2	Stereo total mix primary language
3-4	Stereo total mix secondary language or M&E or muted
5-6	Dolby E (5.1) primary language or muted
7-8	Dolby E (5.1) secondary language or muted

Dolby E channel configuration

1	Front left
2	Front right
3	Center
4	LFE
5	Surround left
6	Surround right