

## SD Files IMX50 D-10 (MXF)

### General

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

### Video essence

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

### Audio essence

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

### Audio channel configuration

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

### Dolby E channel configuration

<b>1</b>	Front left
<b>2</b>	Front right
<b>3</b>	Center
<b>4</b>	LFE
<b>5</b>	Surround left
<b>6</b>	Surround right

## 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) <b>or</b> 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 <b>or</b> M&E <b>or</b> muted
5-6	Dolby E (5.1 or 5.1+2) primary language <b>or</b> muted
7-8	Dolby E (5.1 or 5.1+2) secondary language <b>or</b> 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 <b>or</b> muted
8	Right total mix <b>or</b> muted