

Channel O Tech Spec for Music Video Delivery

Codec Summary

Codec & Wrapper	Number of pixels	Video Bit Rate	Audio Bit Rate & Codec	Y/C Sampling	Frame Rate
XDCAM HD MXF (OP-1a)	1920x1080	50 mbps	24@ 48khz PCM Wave	4:2:2	50i
Prores HQ QT mov	1920x1080	120 mbps	24@ 48khz PCM Wave	4:2:2	25p, 50i
H264/AVC QT mov	1920x1080	10 mbps	16@ 44.1khz AAC	4:2:0	25p

Codec Detail

Commercial name: **XDCAM HD422**, Format: MPEG Video, Format version: Version 2

Format profile: 4:2:2@High, *Format settings* - BVOP: Yes, GOP: M=3, N=12, picture structure: Frame, wrapping mode: Frame, *Bit depth:* 8 bits, *Scan type:* Interlaced, *Scan order:* Top Field First, *Compression mode:* Lossy, Bits/(Pixel*Frame): 0.965, *Time code of first frame:* 00:00:00:00, *Time code source:* Group of pictures header, *GOP, Open/Closed:* Closed, *Colour primaries, Transfer characteristics, Matrix coefficients:* BT.709, *Bit rate:* 50.0 Mbps, *Width:* 1 920 pixels, *Height:* 1 080 pixels, *Display aspect ratio:* 16:9, *Frame rate:* 25.000 fps, *Standard:* Component, *Colour space:* YUV, *Chroma subsampling:* 4:2:2

Commercial name: **Prores HQ HD422**, Format version: Version 0 – **Codec ID:** QT

Format profile: 4:2:2 HQ, *Format settings*, Main@L4, *Bit depth:* 8 bits, *Scan type:* Interlaced, interleaved fields or *Progressive*, *Scan order:* Top Field First or *None*, *Bits/(Pixel*Frame):* 3.440, *Time code of first frame:* 00:00:00:00, *Colour primaries, Transfer characteristics, Matrix coefficients:* BT.709, *Bit rate:* 120 Mbps, *Width:* 1 920 pixels, *Height:* 1 080 pixels, *Display aspect ratio:* 16:9, *Frame rate:* 25.000 fps, *Standard:* Component, *Colour space:* YUV, *Chroma subsampling:* 4:2:2

Commercial name: **Advanced Video Codec/H.264**, **Codec ID:** QT

Format profile: 4:2:0, *Scan type:* progressive, *Scan order:* None, *Bits/(Pixel*Frame):* 0.028, *Time code of first frame:* 00:00:00:00, *Colour primaries, Transfer characteristics, Matrix coefficients:* BT.709, *Bit rate:* 10.0 Mbps, *Width:* 1 920 pixels, *Height:* 1 080 pixels, *Display aspect ratio:* 16:9, *Frame rate:* 25.000 fps, *Chroma subsampling:* 4:2:0