

IMD Cloud | Asia Pacific

Technical Specifications

All files uploaded to IMD Cloud are immediately run through an Auto QC process. To ensure files are not rejected please adhere to the guidelines below.

	HD (1080/50i)/(1080/60i)		SD (PAL)/(NTSC)	
Container	MXF (OP1a)	MOV (QuickTime) AUS & NZ Only	MXF (OP1a)	MOV (QuickTime)
Video				
Codec	XDCAM HD422	XDCAM HD422	IMX 30	IMX 30
Format Profile	422P@HighLevel	422P@HighLevel	422P@MainLevel	422P@MainLevel
Frame size	1920 x 1080	1920 x 1080	PAL: 720x576 (608 with VBI) NTSC: 720x486 (512 with VBI)	PAL: 720x576 (608 with VBI) NTSC: 720x486 (512 with VBI)
Display Aspect Ratio	16:9	16:9	PAL: 16:9 / 4:3 NTSC: 4:3	PAL: 16:9 / 4:3 NTSC: 4:3
Frame rate	1080/50i: 25 fps 1080/60i: 29.97 fps	1080/50i: 25 fps 1080/60i: 29.97 fps	PAL: 25 fps NTSCi: 29.97 fps	PAL: 25 fps NTSC: 29.97 fps
Interlacing	Upper Field First	Upper Field First	Upper Field First	Upper Field First
Bitrate	50 Mbps	50 Mbps	50 Mbps / 30 Mbps	50 Mbps / 30 Mbps
Chroma Subsampling	4:2:2	4:2:2	4:2:2	4:2:2
GOP Length	1080/50i: 12 (M=3, N=12) 1080/60i: 15 (M=3, N=15)	1080/50i: 12 (M=3, N=12) 1080/60i: 15 (M=3, N=15)	1 (N=1), I frame only	1 (N=1), I frame only
Audio				
Format	PCM (Little Endian)	PCM (Little Endian)	PCM (Little Endian)	PCM (Little Endian)
Channels	2 (1 channel per stream)	2 (1 channel per stream)	2 (1 stereo pair)	2 (1 stereo pair)
Sample Rate	48 kHz	48 kHz	48 kHz	48 kHz
Bit Depth	16 bits / 24 bits	16 bits / 24 bits	16 bits / 24 bits	16 bits / 24 bits

File Layout

Files must be exact duration; TVC content only. No pre-roll or post-roll such as clock/clapper, bars, black, hold, freeze or audio tone is required.

Video Levels

Levels must be in accordance with *ITU BT.601* for SD content, *ITU BT.709* for HD content, and *EBU R103-2000* recommendations:

Luma = Level 16-235 (not RGB 0-255 level), equivalent to 0% - 100% or 0mV - 700mV.

Chroma = Level 16-240, equivalent to maximum 100% RGB.

All content should be upper and first field dominant throughout and must be free of encoding artefacts, dropout, glitches, blocking, interlace issues or excessive aliasing and considered broadcast quality throughout.

Audio Levels

Unless stated otherwise, the Audio True Peak level must not exceed -1dBTP for both Loudness (-24LKFS) and Peak (-10dBFS) mixes.

It should also be free of any distortion, glitches or excessive sibilance and must be in phase and in sync with the video throughout.



Australia	<p>Video Format: HD (1080/50i), SD 16:9 (PAL) Audio Levels: OP-59 (-24 LKFS ±1 LU) max. True Peak: -2dBTP</p> <p>First 12 frames and last 12 frames of audio must be mute.</p> <p>Key Number: Must be capital letters and numbers only, not exceeding 13 characters e.g. IMDTEST00001SD</p> <p>SD Down-Conversion on IMD Cloud: Available</p>
Cambodia	<p>Video Format: HD (1080/50i), SD 4:3 (PAL) Audio Levels: -10 dBFS / 6 PPM (Type IIa)</p> <p>SD Down-Conversion on IMD Cloud: Available</p>
China	<p>Video Format: HD (1080/50i), SD 4:3 (PAL) Audio Levels: -10 dBFS / 6 PPM (Type IIa)</p> <p>SD Down-Conversion on IMD Cloud: Available</p>
Hong Kong	<p>Video Format: HD (1080/50i) Audio Levels: -10 dBFS / 6 PPM (Type IIa)</p>
India	<p>Video Format: HD (1080/50i), SD 4:3 (PAL) Audio Levels: -10 dBFS / 6 PPM (Type IIa) Permitted Loudness: -19 LKFS. Allowable variance of +/-1 LKFS.</p> <p>SD Down-Conversion on IMD Cloud: Available</p>
Indonesia	<p>Video Format: HD (1080/50i), SD 4:3 (PAL) Audio Levels: -10 dBFS / 6 PPM (Type IIa)</p> <p>SD Down-Conversion on IMD Cloud: Available</p>
Japan	<p>Video Format: HD (1080/60i) Audio Levels: -24 LKFS (recommended to upload audio loudness at -24 LKFS to -24.1 LKFS)</p> <p>Note: If you deliver something lower, your TVC will sound different to all others. If average loudness is below -28 LKFS, a written explanation must be included with the TVCM print to explicitly confirm that the low loudness is a creative intention.</p> <p>First 15 frames and last 15 frames of audio must be mute. Timecode Mode = Drop Frame (DF) Start Timecode: 01:00:00:00 Field Rate: 59.94i Field Order: Top Field First (TFF) Field Scan: Interlaced Audio Max True Peak = -1 dBTP Max (can be under) Audio Max Sample Peak = -3 dBFS Max (can be under) Audio Streams = 8 Audio Channels per Stream = 1 Audio Codec = Linear PCM Audio Sample Rate = 48khz Audio Bit Depth = 24 bit</p> <p>Audio Channel Layout</p> <p>STEREO: (L in Ch1. R in Ch2. Ch3~8 are all mute.) MONO: (MONO in Ch1 and Ch2. Ch3~8 are all mute.) 5.1+S: (L in Ch1. R in Ch2. C in Ch3. LFE in Ch4. LS in Ch5. RS in Ch6. L2 in Ch7. R2 in Ch8. Here L2 and R2 are 5.1ch downmixed to 2ch.)</p>



Loas	Video Format: HD (1080/50i) Audio Levels: -10 dBFS / 6 PPM (Type IIa)
Malaysia	Video Format: HD (1080/50i), SD 4:3 (PAL) Audio Levels: -10 dBFS / 6 PPM (Type IIa) SD Down-Conversion on IMD Cloud: Available
Myanmar	Video Format: HD (1080/60i), SD 4:3 (NTSC) Audio Levels: -10 dBFS / 6 PPM (Type IIa) SD Down-Conversion on IMD Cloud: Available
New Zealand	Video Format: HD (1080/50i), SD 16:9 (PAL) Audio Levels: OP-59 (-24 LKFS ±1 LU) max. True Peak: -2dBTP Key Number: www.commercialapprovals.co.nz/news_cab.php#key_numbers_2012 SD Down-Conversion on IMD Cloud: Available
Philippines	Local TV Video Format: HD (1080/60i), SD 4:3 (NTSC) Audio Levels: -10 dBFS / 6 PPM (Type IIa) Cable/Pay TV Video Format: HD (1080/50i), SD 16:9 (PAL), SD 4:3 (PAL) Audio Levels: -10 dBFS / 6 PPM (Type IIa) SD Down-Conversion on IMD Cloud: Available (only for PAL destinations)
Singapore	Video Format: HD (1080/50i), SD 16:9 (PAL), SD 4:3 (PAL) Audio Levels: -10 dBFS / 6 PPM (Type IIa)
South Korea	Video Format: HD (1080/60i) Audio Levels: -10 dBFS / 6 PPM (Type IIa)
Sri Lanka	Video Format: HD (1080/50i), SD 4:3 (PAL) Audio Levels: -10 dBFS / 6 PPM (Type IIa) SD Down-Conversion on IMD Cloud: Available
Taiwan	Video Format: HD (1080/60i), SD 4:3 (NTSC) Audio Levels: -10 dBFS / 6 PPM (Type IIa)
Thailand	Video Format: HD (1080/50i) Audio Levels: -10 dBFS / 6 PPM (Type IIa)
Vietnam	Video Format: HD (1080/50i), SD 4:3 (PAL) Audio Levels: -10 dBFS / 6 PPM (Type IIa) SD Down-Conversion on IMD Cloud: Available

Further countries available on request.