



Nine Entertainment Co. XD-CAM Disc Delivery Specifications:

Delivery may be acceptable on XD-CAM Disc by prior mutual agreement between the parties.

The programme shall be supplied in High Definition (HD), as the TEXTED version, with any Textless material at the tail of the programme, 1 minute after end credits.

The XD-CAM disc shall contain video in the 1080/50i Sony XD-CAM 422 50Mbit/sec codec, with 8 PCM audio tracks. 23GB single layer and 50GB dual layer discs are acceptable, but we do require longer programmes to be supplied on a 50GB disc/s rather than multiple 23GB discs.

All 8 audio tracks shall be present, even if some are un-used and contain silence.

The audio configuration shall be a Stereo Full Mix on tracks 1 & 2 (L_r R_r or L_o R_o), and a 5.1 Surround Sound Full Mix on tracks 3 to 8 inclusive.

- The track layout for this programme configuration shall be:
 1. Stereo Left
 2. Stereo Right
 3. 5.1 Front Left
 4. 5.1 Front Right
 5. 5.1 Centre
 6. 5.1 LFE
 7. 5.1 Left Surround
 8. 5.1 Right Surround
- If a 5.1 audio mix is not available, then the minimum audio track layout shall be:
 1. Stereo Left
 2. Stereo Right
 3. M+E Left (Music & Effects; or Mix Minus Narration)
 4. M+E Right (Music & Effects; or Mix Minus Narration)
 5. MOS (Mute On Sound)
 6. MOS
 7. MOS
 8. MOS

Audio Loudness on the Stereo soundtrack shall measure -24LKFS.

Audio Loudness on the 5.1 soundtrack shall measure -24LKFS.

To this aim, a suitable BS1770-3 compliant loudness meter will be used with the ITU-3 measurement method. See OP59 for more detail.

Correct audio sync is to be maintained at all times with the video.

An ID/Clapper Board should be present at the head of the disc for identification purposes, with the title of the programme/episode number, *exactly as it appears on-screen*. In addition, the Clapper Board shall include:

- Duration of Programme.
- Audio Status and Track Layout.
- The existence and format of Closed Captions (if any), and any other Programme related data.

Required Layout/Timecode:

00:58:00:00 – Start of file: [Black Video / Mute Audio]

00:58:30:00 – Colour Bars (75%) & 1 kHz Audio Tone (All relevant tracks which contain audio, -20dB)

00:59:30:00 – ID/Clapper Board

00:59:50:00 – Black (or Countdown)

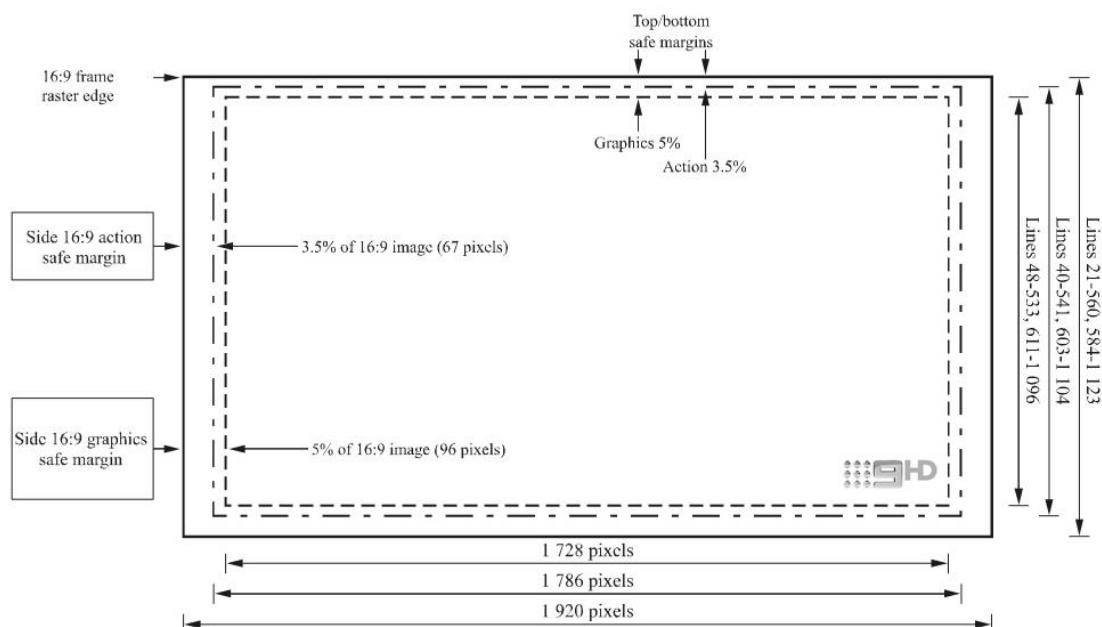
01:00:00:00 – Start Of Programme

If programme is already compiled into segments, then the head of each segment shall have a 10 second countdown. Each segment shall start on an even timecode number (ie Segment two might start at T/C 01:09:00:00). There should be a minimum 20 seconds of black between segments, not including countdown.



Safe Areas:

Programmes can be 16:9 graphic/action safe, 14:9 graphic/action safe, or 4:3 graphic/action safe. Below is the 16:9 graphic/action safe area chart.



- Please note the position of the 9 HD Watermark in the lower right corner of image, and avoid placing text supers in that position.
- If a locally produced programme is to be sold to international markets, be aware they may have different action safe/graphic safe area requirements.

Disc / Box Labelling:

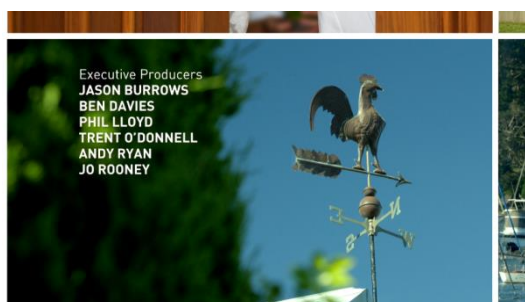
Make sure the programme title and episode name/number is clearly visible on the box spine and front face, as well as the disc itself.

Cue Sheet / Timings:

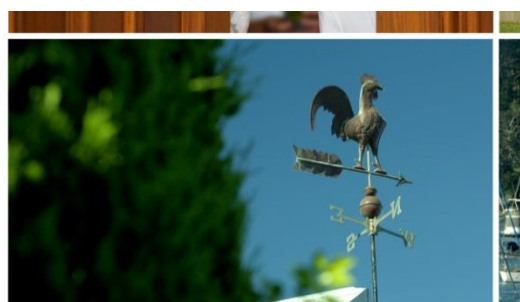
Completed cue sheet and segment times information to be included.

- Any TEXTLESS material to be on disc at end of main programme, after 1 minute of black.

Texted/Textless example frames:



TEXTED



TEXTLESS