



Video and Audio Standards for Contents Submitted to the SBC

This document provides a concise summary of the requirements and standards for the submission of content for broadcast on the SBC's channels.

(Content refers to any video or audio programmes, of any length, format or genre (including music, adverts and spots))

1.0 VIDEO Requirements

1.1 All Video content should be **HD or SD** quality

1.2 The aspect ratio must be 16:9

1.3 High Definition

- a) 1920 x 1080 pixels in an aspect ratio of 16:9
- b) 25 frames per second

The HD format is fully specified in ITU-R BT.709.

1.4 Standard Definition

- a) 720 x 576 pixels in an aspect ratio of 16:9;
- b) 25 frames per second

The SD format is fully specified in ITU-R BT.601.

2.0 AUDIO Requirements

2.1 **Audio loudness must be normalised at the -12dBFS nominal/average level.**

2.2 The audio compression rate shall be:

- a) **HD:** 1152 Kbps, 48KHz, 24 bits PCM
- b) **SD:** 768 Kbps, 48KHz, 16 bits PCM

3.0 Delivery & File Format Requirements

3.1 All content must be fully editorially and technically checked and ready for transmission prior to delivery to SBC

3.2 The preferred delivery method is via USB memory sticks or downloadable links (e.g wetransfer, dropbox)

3.3 The preferred file format is **.mxf**

3.4 SBC will nonetheless accept the following formats:

- a) .mp4
- b) .avi
- c) .mpg | .m2p
- d) . H.264 (MPEG-4 AVC)

4.0 Summary of Technical Requirements

| | <u>Full High Definition (FHD) Content specification</u> | <u>Standard Definition (SD) Content Specification</u> |
|----------------------|---|---|
| Format : | MXF OP1a (container) <u>Or:</u> <ul style="list-style-type: none">• <u>mp4</u>• .avi• .mpg .m2p• H.264 (MPEG-4 AVC) | MXF OP1a (container) <u>Or:</u> <ul style="list-style-type: none">• <u>mp4</u>• .avi• .mpg .m2p• H.264 (MPEG-4 AVC) |
| Codec: | XDCAM HD422 | DV DVC Pro |
| Video bitrate | 50.0 Mbps | 25.0 Mbps |
| Resolution: | 1920 x 1080 | 720 x 576 |
| Aspect Ratio: | 16:9 | 16:9 |
| Frame rate: | 25 fps | 25 fps |
| System: | PAL | PAL |
| Audio: | 1152 Kbps, 48KHz, 24 bits PCM | 768 Kbps, 48KHz, 16 bits PCM |