

# CLEARCAST

# Clearcast Library

## Delivery Specs

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# 1

## Introduction

## **Clearcast Library Ingest Spec**

This document outlines the required audio, video and structural specifications of materials submitted to the Clearcast Library. It contains a breakdown of all the elements required for a material to pass QC and documents what specifications are tested at each QC step. There are various help guides and FAQs all available at <https://help.clearcast.co.uk/hc/en-us> and if you have any questions you can email [help@clearcast.co.uk](mailto:help@clearcast.co.uk).

# 2

## Timeline of a Commercial or Sponsorship

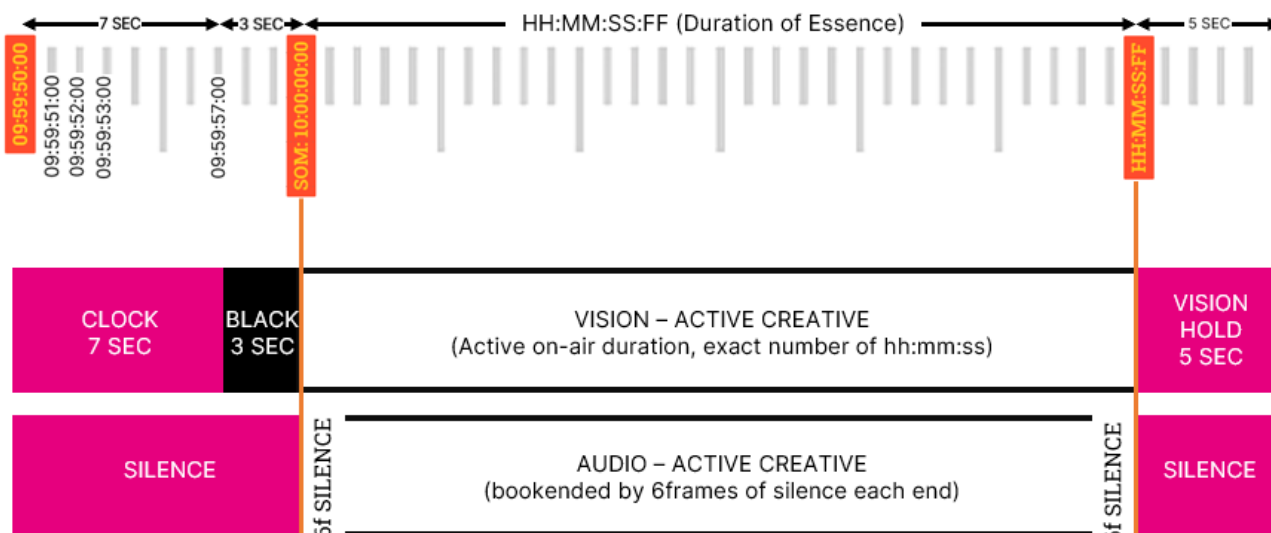
## Timeline of a commercial or sponsorship

We require either a 5 second or a 0 second freeze at the end of your material.

### FORMAT WITH 5 SECOND FREEZE

All Commercial or Sponsorship material delivered on file must be laid out so that the start of message (SOM) is at timecode 10:00:00:00 as specified in the MXF Material Package timecode track. The SOM at 10:00:00:00 is defined as the first frame of vision that will go to air. Please note that it is usual for sound and vision to be automatically cut to air on transmission, so early vision or sound is not normally required. Vision may fade up from black starting at 10:00:00:00 if desired.

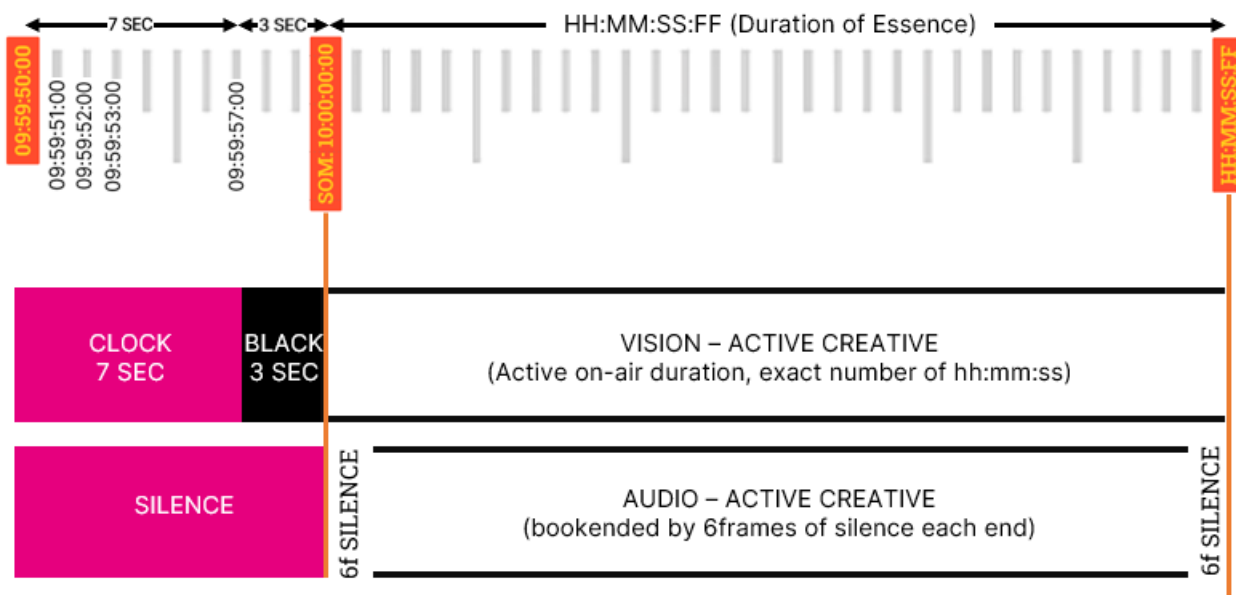
There should be 6 frames of audio silence at the start and end of the item and the duration should not exceed the stated length. At the end of the item there should be a 5 second hold on vision, completely still (No 'Living Freezes' or animations). A single commercial or Sponsorship asset will always be played out from the start of message (SOM) to the end point without interruption. The IN-point (SOM) and DURATION for the continuous playback section must be included with the delivery metadata. As per the diagram below, "DURATION OF ESSENCE" does not include the five second hold.



## FORMAT WITH 0 SECOND FREEZE

All Commercial or Sponsorship material delivered on file must be laid out so that the start of message (SOM) is at timecode 10:00:00:00 as specified in the MXF Material Package timecode track. The SOM at 10:00:00:00 is defined as the first frame of vision that will go to air. Please note that it is usual for sound and vision to be automatically cut to air on transmission, so early vision or sound is not normally required. Vision may fade up from black starting at 10:00:00:00 if desired.

There should be 6 frames of audio silence at the start and end of the item and the duration should not exceed the stated length. At the end of the item there should be no end freeze frame. A single commercial or Sponsorship asset will always be played out from the start of message (SOM) to the end point without interruption. The IN-point (SOM) and DURATION for the continuous playback section must be included with the delivery metadata.



# 3

## QC Steps

**A breakdown of the QC steps that take place**



## QC Steps

All materials submitted to the Clearcast Library are subjected to a chronological QC process.

### Upload Format QC

Once a material has been uploaded to Clearcast Library it undergoes checks on the video and audio codec specification (See Codec Specification). If any attribute does not match the expected ingest specification for each codec then it will fail QC at this stage and a new material must be uploaded.

### Video Duration QC

This stage checks the file uploaded is the specified duration. We require a 10 second clock slate and either a 0 second freeze or a 5 second freeze at the end. This means the total file will be either +10 seconds or +15 seconds longer than the duration inputted. For example, if you have a 20 second commercial, the file will be either 10+20 or 10+20+5 seconds long.

### Audio QC

This stage checks the audio channels are stereo (where audio is playing over channels 1 and 2).

### Subtitle QC

This checks you have not ordered subtitles if your video already contains subtitles.

### Slate QC

This checks the clock number on your slate exactly matches the clock number inputted into the submission data/material page.

### Vidchecker QC

After the ingest format QC has been completed the material will then be passed on to an in-depth process where the audio and video will be decoded and the following will be checked:

#### Video QC requirements

Colour space - ITU-R BT.709

RGB Gamut - EBU R103

PSE Check - ITU-R BT1702

#### Audio QC requirements

Integrated Loudness - EBU R128 -23dbLUFS

Peak Level - -1dbTP

Phase Coherence - Mean Phase must not be below -0.95

# 4

## Accepted file formats

## AVC Intra Class 100

### Container

- Format: MXF
- Format Profile: OP-1a

### Video

- Format: AVC
- Format Profile: High 4:2:2 Intra
- Bit Rate: 114 Mbit/s
- Frame Size: 1920 x 1080
- Aspect Ratio: 16:9
- Frame Rate: 25 FPS
- Colour Bit Depth: 10 Bit
- Scan Type: Interlaced

### Audio

- Format: PCM
- Sampling Rate: 48Khz
- Bit Depth: 16 Bit (Minimum)

An **Adobe Media Encoder** pre-set for this can be downloaded here:

<https://help.clearcast.co.uk/hc/en-us/articles/4667914672657-The-Library-AVC-INTRA-Class-100>

## XDCAM50

### Container

- Format: MXF
- Format Profile: OP-1a

### Video

- Format: MPEG Video
- Format Profile: 4:2:2
- Bit Rate: 50 Mbit/s
- Frame Size: 1920 x 1080
- Aspect Ratio: 16:9
- Frame Rate: 25 FPS
- Colour Bit Depth: 8 Bit
- Scan Type: Interlaced

### Audio

- Format: PCM
- Sampling Rate: 48Khz
- Bit Depth: 24 Bit (Minimum)

An **Adobe Media Encoder** pre-set for this can be downloaded here:

<https://help.clearcast.co.uk/hc/en-us/articles/4668478828817-The-Library-XDCAM50>

## Pro-Res 422

### Container

- Format: MXF or MOV
- Format Profile: OP-1a or QuickTime

### Video

- Format: AVC
- Format Profile: High 4:2:2 Intra or 4:2:2 HD
- Bit Rate: 114 Mbit/s
- Frame Size: 1920 x 1080
- Aspect Ratio: 16:9 Frame Rate: 25 FPS
- Colour Bit Depth: 10 Bit
- Scan Type: Interlaced

### Audio

- Format: PCM
- Sampling Rate: 48Khz
- Bit Depth: 16 Bit (Minimum)

An **Adobe Media Encoder** pre-set for this can be downloaded here:

<https://help.clearcast.co.uk/hc/en-us/articles/4668661548049-The-Library-PRO-RES>

## DN-X-HD

### Container

- Format: MXF
- Format Profile: OP-1a

### Video

- Format: VC-3
- Format Profile: HD
- Frame Size: 1920 x 1080
- Aspect Ratio: 16:9
- Frame Rate: 25 FPS
- Colour Bit Depth: 8 Bit
- Scan Type: Interlaced

### Audio

- Format: PCM
- Sampling Rate: 48Khz
- Bit Depth: 16 Bit (Minimum)

An **Adobe Media Encoder** pre-set for this can be downloaded here:

<https://help.clearcast.co.uk/hc/en-us/articles/4668729730065-The-Library-DN-X-HD>