HEARST NETWORKS EMEA

TECHNICAL SPECIFICATIONS

FOR SHORTFORM

REVISED – January 2025

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5.0 CONTACT DETAILS – updated

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1.0 SHORTFORM / PROMO SPECIFICATIONS FOR UK, CEE, AFRICA AND MIDDLE EAST

The following section details an overview for shortform delivery requirements only.

Please refer for further details about the general delivery process to the latest full 'Hearst Networks EMEA UK Full Technical Specifications' document.

1.1 File Format Overview

Description	HD	
Format	XDCAM HD	
Broadcast Standard	PAL	
File Wrapper	MXF	
Resolution	1920 x 1080	
MPEG Profile	Profile : 4:2:2 / Level : High	
GOP structure	IBBP / GOP length 12	
Video Bit Rate	50 Mbps CBR	
Video Frame Rate	25 fps	
Picture Type	Interlaced	
Field Dominance / Order	Upper / Top Field First	
Video Signal	Each primary component should lie between 0 and 100% of the narrow video range between black level and the nominal peak level (R and G and B).	
SOM Timecode	TC 10:00:00:00	
Aspect Ratio	16:9	
Audio Format	PCM	
Audio Bit Depth / Rate	16 bit / 24 bit	
Audio Sample Rate	48 kHz AES / EBU standard	
Max Audio Tracks	4 Tracks	
Audio Track Layout	Channel 1 : Stereo Full English Mix - Left	Channel 3 : Stereo Music & Effects & Dialogue Left
	Channel 2 : Stereo Full English Mix - Right	Channel 4 : Stereo Music & Effects & Dialogue Right
Audio Stems Formats	Please see section below for further details	

NOTE: Material will need to be delivered with correct Group Of Pictures (GOP) structure. Details are given on the table above. Due to the high failure rate of this aspect for HD content, please see the specification in detail:

GOP structure for HD content needs to be fixed with the following configuration M=3, N=12 (IBBPBBPBBPBBI).

Material will need to be delivered with valid video signal levels defined by EBU standard 'R 103
VIDEO SIGNAL TOLERANCE IN DIGITAL TELEVISION SYSTEMS VERSION 3.0'. Details are given on the table above.

Any material that exceed the defined parameters will be clipped. Such clipping can cause harmonic distortion and alias artefacts in the video. Additionally, When television signals are manipulated in YUV form, it is possible to produce "illegal" combinations that, when de-matrixed, would produce R, G or B signals outside the range 0% - 100%.

If the video / audio files are sent in anything but the above formats it may result in the rejection of the material with replacements being requested at the distributor / suppliers cost. Delivery of content in alternate specifications must be agreed prior to delivery with Technical Operations.

1.2 Sound Levels and Quality

Audio line-up level must be recorded at -18dBFS. Line-up at -20dBFS (US standard) is not acceptable.

Audio levels for stereo tracks should conform to **EBU R128 loudness specification** with an integrated level of **-23 LUFS +/- 1 LU** and a maximum **True Peak level of -1 dBFS**.

In addition, we require the audio content for the FULL MIX on tracks 1&2 as follows: (these levels relate to the line-up levels noted above):

- Maximum program Loudness Range (LRA) should not exceed 16 LU
- General conversation levels should range between +/- 8 dB
- The first 6 frames of the audio must be mute

Theatrical releases that have too wide a dynamic range may not suitable for television distribution. These levels must be to our requirements (as above). Great care must be taken not to over-compress the levels / dynamic range, which could result in a rejection.

Sound must be recorded with appropriately placed microphones, giving minimum background noise and without peak distortion. The audio must be free of spurious signals such as clicks, noise, hum, drop out and any analogue distortion.

The audio must be reasonably continuous and smoothly mixed and edited. Audio levels must be appropriate to the scene portrayed and dynamic range must not be excessive. They must be suitable for the whole range of domestic listening situations.

Stereo audio must be appropriately balanced and free from phase differences, which cause audible cancellation in mono. The audio must not show dynamic and/or frequency response artefacts as a result of the action of noise reduction, pitch correction or low bit rate coding systems

1.3 Externally Produced Shortform

If externally produced, the supplier need to deliver additionally the following audio stems as wav files:

Full Mix (stereo left & right)	Music (stereo left & right)
DME - Dialogue, Music & Effects (stereo left & right)	SFX (stereo left & right)
Dialogue (mono)	VO/Narrator (mono)

For the master stems, the generic VO tag with promo title and channel name only must be used.

The Full Mix stem must conform to **EBU R128 loudness specification** with an integrated level of **-23 LUFS +/- 1 LU** and a maximum **True Peak level of -1 dBFS** and the Dialogue, Music, SFX and VO/Narrator stems must sum to **-23 LUFS +/- 1 LU**.

Bit Depth: 16/24 bit
Sample Rate: 48kHz

1.4 TX Ready Shortform

Content that is intended to air without any further internal mastering from Hearst Networks EMEA needs to be delivered with a start timecode of TC 10:00:00:00.

The end timecode needs to be exact e.g if the running time is 60 seconds the out TC must be 10:00:59:24 and content always needs to be rounded up to the nearest second, no spare frames e.g. if the duration of a clip is 10:00:59:17, frames of black would need to be added to create a valid end timecode.

Furthermore, the asset must be delivered to Hearst Networks EMEA completely finished and ready for traffic to air, and as such content cannot include:

- Colour bars / tone
- Clock
- Freezes

Content needs to be supplied 'ready for TX'.

In addition to the final video TX files, we will require the below submaster deliveries.

1.5 Submasters

It is mandatory to deliver all the following elements for any external production to the same specifications as above.

- A TEXTLESS submaster copy of the shortform; free from any graphics/captions and branding/mastering elements (Bug, lower thirds, endboards etc.) keeping clean background images where appropriate.
- A TEXTED submaster copy of the shortform; free from any branding/mastering elements but keeping any graphics/captions.
- Fully mixed and levelled audio stems provided as individual .wav files (Music & Effects, Music, Dialogue, SFX, & Full Stereo Mix).
- Fully transcribed visual/audio script with completed music cue sheet information. Please request template if not already provided.

1.6 Editorial standards / Creative quality

Besides the technical specifications regarding required file format and file layout (see above), please be aware that all deliveries need to meet Hearst Networks EMEA editorial standards and creative quality.

If in doubt please always contact our Creative Production team for further information prior to delivery.

2.0 RUSHES DELIVERY SPECIFICATIONS

Please coordinate the delivery of Rushes with Post Production at least two weeks prior to delivery to discuss all necessary requirements including:

- The delivery method (via hard drive / file transfer / camera cards)
- The file format
- And the delivery size (estimate) in GBs

Currently, we can support the following camera formats in our postproduction workflow:

- **Panasonic P2 (DV, AVC-Intra, Ultra)**
- **Sony (IMX, XDCAM, HD/EX, XAVC)**
- **Canon 5/C/XF series (MOV and MXF)**
- **GoPro (H.264 codec/ .MP4 file format)**
- **RED Digial Cinema Redcode RAW (ProRes)**

Please contact Producers sophie.almklev@hearstnetworks.com and christine.russell@hearstnetworks.com for any further assistance.

3.0 GERMANY PROMO SPECIFICATIONS

German promo deliveries are required to follow the specifications in the table below:

Description	**HD**	
Format	XDCAM HD	
Broadcast Standard	PAL	
File Wrapper	MXF	
Resolution	1920 x 1080	
MPEG Profile	Profile : 4:2:2 / Level : High	
GOP structure	IBBP / GOP length 12	
Video Bit Rate	50 Mbps CBR	
Video Frame Rate	25 fps	
Picture Type	Interlaced	
Field Dominance / Order	Upper / Top Field First	
Video Signal	Each primary component should lie between 0 and 100% of the narrow video range between black level and the nominal peak level (R and G and B).	
SOM Timecode	10:00:00:00 (no bars and tone / slate prior to content start)	
Aspect Ratio	16:9	
Audio Format	PCM	
Audio Bit Depth / Rate	16 bit / 24 bit	
Audio Sample Rate	48 kHz AES / EBU standard	
Max Audio Tracks	8 Tracks	
Audio Track Layout	Channel 1 : German Stereo Full Mix - Left	Channel 5 : Mute
	Channel 2 : German Stereo Full Mix - Right	Channel 6 : Mute
	Channel 3 : German Stereo Full Mix Left	Channel 7 : Mute
	Channel 4 : German Stereo Full Mix Right	Channel 8 : Mute

NOTE: Material will need to be delivered with correct Group Of Pictures (GOP) structure. Details are given on the table above. Due to the high failure rate of this aspect for HD content, please see the specification in detail:

GOP structure for HD content needs to be fixed with the following configuration M=3, N=12 (IBBPBBPBBPBBI).

Material will need to be delivered with valid video signal levels defined by EBU standard ‘R 103
VIDEO SIGNAL TOLERANCE IN DIGITAL TELEVISION SYSTEMS VERSION 3.0’. Details are given on the table above.

Any material that exceed the defined parameters will be clipped. Such clipping can cause harmonic distortion and alias artefacts in the video. Additionally, when television signals are manipulated in YUV form, it is possible to produce "illegal" combinations that, when de-matrixed, would produce R, G or B signals outside the range 0% - 100%.

If the video / audio files are sent in anything but the above formats it may result in the rejection of the material with replacements being requested at the distributor / suppliers cost. Delivery of content in alternate specifications must be agreed prior to delivery with Technical Operations.

4.0 ITALY PROMO SPECIFICATIONS

Italian promo deliveries are required to follow the specifications in the table below:

Description	HD	
Format	XDCAM HD	
Broadcast Standard	PAL	
File Wrapper	MXF	
Resolution	1920 x 1080	
Bitrate	50mbps CBR	
MPEG Profile	Profile : 4:2:2 / Level : High	
GOP Structure	IBBP / GOP length 12	
Video Frame Rate	25 fps	
Picture Type	Interlaced	
Field Dominance / Order	Upper / Top Field First	
Aspect Ratio	16:9	
TC Start	10:00:00:00 (no bars and tone / slate prior to content start)	
Audio Format	PCM	
Audio Bit Depth / Rate	24 bit	
Audio Sample Rate	48 kHz AES / EBU standard	
Max Audio Tracks	8 Tracks	
Audio Track Layout / Configuration	Channel 1 : Italian Stereo Full Mix - Left	Channel 5 : Italian Stereo Full Mix - Left
	Channel 2 : Italian Stereo Full Mix - Right	Channel 6 : Italian Stereo Full Mix - Right
	Channel 3 : English Stereo Full Mix - Left	Channel 7 : English Stereo Full Mix - Left
	Channel 4 : English Stereo Full Mix - Right	Channel 8 : English Stereo Full Mix - Right
	or	
	Channel 1 : Italian Stereo Full Mix - Left	Channel 5 : Italian Stereo Full Mix - Left
	Channel 2 : Italian Stereo Full Mix - Right	Channel 6 : Italian Stereo Full Mix - Right
	Channel 3 : Italian Stereo Full Mix - Left	Channel 7 : Italian Stereo Full Mix - Left
	Channel 4 : Italian Stereo Full Mix - Right	Channel 8 : Italian Stereo Full Mix - Right

NOTE: Material will need to be delivered with correct Group Of Pictures (GOP) structure. Details are given on the table above. Due to the high failure rate of this aspect for HD content, please see the specification in detail:

GOP structure for HD content needs to be fixed with the following configuration M=3, N=12 (IBBPBBPBBPBBI).

Material will need to be delivered with valid video signal levels defined by EBU standard ‘R 103
VIDEO SIGNAL TOLERANCE IN DIGITAL TELEVISION SYSTEMS VERSION 3.0’. Details are given on the table above.

Any material that exceed the defined parameters will be clipped. Such clipping can cause harmonic distortion and alias artefacts in the video. Additionally, when television signals are manipulated in YUV form, it is possible to produce "illegal" combinations that, when de-matrixed, would produce R, G or B signals outside the range 0% - 100%.

If the video / audio files are sent in anything but the above formats it may result in the rejection of the material with replacements being requested at the distributor / suppliers cost. Delivery of content in alternate specifications must be agreed prior to delivery with Technical Operations

5.0 CONTACTS

For any questions please contact our Creative Production and Technical Operations team under:

Creative Production production@hearstnetworks.com

UKJV Technical Operations TechnicalOperations@hearstnetworks.com

If in doubt about the spec or delivery method, please arrange a test file delivery at least 2 weeks ahead of the delivery date.