

GM RECORDS AUTHORIZING STUDIO SPECIFICATION

(Technical specification for materials necessary for the process of Blu-ray, DVD-Video, VCD projects production)

FILM MATERIAL

- Betacam tape (analogue, digital, IMX) in PAUNTSC format.
- HDCAM tape in PAUNTSC format
- HDV tape in PAUNTSC format

- Minimum 30 seconds preroll
- Minimum 30 seconds postroll

In the case of material that cannot be contained on one tape it may be divided into two tapes. The division should be done on splice, at a place with as low intensity of sound as possible.

Within the scope of the whole material continuity of TimeCode and conformity of LTC and VITC are required.

Time Code of the whole tape including preroll and postroll should be contained within 24 hours (it cannot go through 00:00:00 :00).

In the case of audio materials delivered separately (on a different medium), there should be at least one audio track (so called pilot track) on the tape.

In the case of materials with target format 16:9, material on the tape should be recorded in 16:9 format (not Letterbox).

The tape should contain the title in accordance with the order, description of the content, input and output TimeCodes and information about the contained audio tracks.

Delivery of film material on any other type of media, e.g. prepared DVD discs, encoded files (M2V), requires separate agreement with the studio (with the exception of prepared Blu-ray discs which we do not accept). In the case of files encoded into a format characteristic for DVD/Blu-ray the studio bears no responsibility for the visual and technical quality of the material.

All materials delivered by the ordering party are treated as satisfactory in terms of quality as well as technical aspect. In the case of materials of unknown quality or content, arrangements with the studio are necessary.

Film material is not subject to editing.

AUDIO MATERIAL

Betacam tape (analogue, digital, IMX), HDCAM tape, HDV tape containing stereo material.

In the case of the so -called splitting stereo to 5. 1, additionally international tone.

In the case of audio recording with more than two tracks, material on digital Beta or IMX (in the case of analogue Beta additional arrangements with the studio are necessary).

DAT taps and DTRS.

Sound material can not be divided into chapters.

Audio materials delivered on media containing time code should be prepared in 25FPS format. Time code should comply with the film material on Betacam/HDCAM tape.

Delivery of film material on any other types of media, e.g. prepared DVD discs, encoded files (AC3, DTS), requires separate agreement with the studio.

The media should contain the title in accordance with the order, description of the content, input and output TimeCodes and information about the contained audio tracks.

All materials delivered by the ordering party are treated as satisfactory in terms of quality as well as technical aspect. In the case of materials of unknown quality or content, separate arrangements with the studio are necessary.

GRAPHIC MATERIALS

Ready design

For DVD-Video discs:

- Graphic files in BMP formats (and other common PC graphic formats).
- RGB colour format.

Graphics sizes:

- for 4:3 format -768 x 576 pixels
- for 16:9 format -1024 x 576 pixels

Masks for buttons in analogous sizes in grayscale:

- Colour of mask for the light areas - black
- Colour of mask for the transparent areas -white

Other levels of gray are not allowed (black and white only).

Animations in the form of AVI files without compression or QuickTime without compression or with component coding.

Component coding:

- All materials should be prepared in a form which will allow editing.
- All materials delivered by the ordering party are treated as satisfactory in terms of quality as well as technical aspect. In the case of materials of unknown quality or content, separate arrangements with the studio are necessary.

For Blu-ray discs:

With regard to the specification for preparation of a master, detail arrangement with the studio and constant contact during preparation of the order are necessary.

Graphic size: 1920x1080

The size of additional elements (i.e. buttons) is established for every project.

Animations in the form of AVI files without compression or QuickTime without compression or with Component coding.

All materials should be prepared in a form which will allow editing.

All materials delivered by the ordering party are treated as satisfactory in terms of quality as well as technical aspect. In the case of materials of unknown quality or content, separate arrangements with the studio are necessary.

Source materials for preparation of graphics by GM Records

Graphic files in TIFF, TGA, BMP, PSD, JPG formats with minimum compression. To keep cohesion with print on the disc, cover and other graphic materials connected with the given title, open files used for production of these materials are necessary.

All materials should be prepared in a form which allows editing.

All materials delivered by the ordering party are treated as satisfactory in terms of quality as well as technical aspect. In the case of materials of unknown quality or content, separate arrangements with the studio are necessary.

SUBTITLES

- in Sub Station Alpha (SSA) or Sonic Scenarist (SST) formats
- in graphic format according to the following pattern:

SP_NUMBER	START	END	FILE_NAME
1>>	00:00:22:14>	00:00:26:08>	file_name.1.bmp
2>>	00:00:26:14>	00:00:30:06>	file_name.2.bmp
3>>	00:00:33:14>	00:00:36:03>	file_name.3.bmp
4>>	00:00:36:08>	00:00:40:19>	file_name.4.bmp
5>>	00:00:58:17>	00:01:01:01>	file_name.5.bmp
6>>	00:01:03:00>	00:01:07:03>	file_name.6.bmp

Sign „>” indicates tabulator.

For DVD-Video discs subtitled files in BMP index format with the following colour range:

white (255/255/255) as background only – ultimately mapped as transparent
black (0/0/0) main symbols’ outline – ultimately mapped as black
blue (0/0/255) colour of the fill of the symbol – ultimately mapped as white
red (255/0/0) auxiliary text colour, finishing colour – ultimately mapped as white

A single image should not contain more than 2 lines of text, no more than 38 characters each.

In text format according to the following pattern:

1>>	00:00:22:14>	00:00:26:08>	First line of text/Second line of text
2>>	00:00:26:14>	00:00:30:06>	First line of text
3>>	00:00:33:14>	00:00:36:03>	First line of text/Second line of text
4>>	00:00:36:08>	00:00:40:19>	First line of text
5>>	00:00:58:17>	00:01:01:01>	First line of text/Second line of text
6>>	00:01:03:00>	00:01:07:03>	First line of text

Symbol „>” indicates tabulator

Sign „|” indicates line division point

Maximum two lines of text, 38 characters each.

- Subtitles should be synchronized with the time code contained in the film material
- Subtitles are treated as a self-contained whole which is not to be edited
- Any other formats require separate arrangement with the studio

DISC CAPACITY

On a DVD disc we can place:

- on DVD5- up to 120 minutes of material
- on DVD9 - up to 200 minutes of material

With very good quality Video material containing one audio stereo track and one subtitle track with static menu system (main menu, scene selection, subtitles on and off options).

The amount of material possible to be placed on a disc may be smaller in the case of:

- poor quality of the film material
- high dynamism of the film material (eg music video)
- higher format of audio track (5.1, PCM)
- more additional material (advertisements, audio tracks, subtitle tracks, animated menu, etc)
- adding computer data to the disc

On Blu-ray we can place:

Because of a very wide range of possible resolutions, image and sound codes, please contact the studio to determine the number and type of media.

NOTE: In the case of delivery of materials on a medium or in a format not mentioned in this specification we reserve the right to change the time of completion and/or the price of the services.



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