

Technical requirements

for the inclusion of advertising spots and programmes shorter than 30 seconds into the broadcasting of TV JOJ Group efficient as of 7.2.2019.

TV specifies the following initial requirements for the reception of all TV programmes in high definition (HD) in XDCAM HD422 format. Preferred file transfer is with File Transfer Protocol (FTP). In exceptional cases, when the client is unable to provide the material in the form of a file, the material can be also supplied in standard definition (SD) on Digital Betacam tape. All the supplied materials regardless of their format and medium must comply with the EBU R 128 standard. The technical requirements apply to all the footages of advertising spots.

Warning for spots broadcast in the Slovak Republic territory:

The TV channel logos (JOJ, PLUS, WAU, RIK) are displayed on the screen also during advertising and teleshopping breaks.

Logo coordinates are:

left – top: 145px x 90px

right - bottom: 236px x 178px

Coordinates apply to HD picture 1920x1080

A. Technical requirements for the supplying of spots on Digital Betacam tape

Materials supplied in SD must comply with the criteria and norms of PAL 625/50 system. Preferred format is 16:9 FHA, exceptionally 4:3/ LetterBox 4:3.

1. Materials supplied in HD must be recorded in 1080i50 format.
2. Modulation in A1 and A2 audio tracks must not be in mutual phase opposition.
3. In case of monophonic record the backing track must be identical in both channels A1 and A2.
4. In case of stereophonic record, the sequence of sound tracks must be as follows:
A1 = L (left channel)

A2 = R (right channel)

5. The following applies to dual channel stereo sound record:
A1 = L - left channel (Slovak version)
A2 = P - right channel (Slovak version)
A3 = L - left channel (original version)
A4 = P - right channel (original version)

6. The following applies to sound record for the visually impaired AD:
A1 = L - left channel (Slovak version)
A2 = P - right channel (Slovak version)
A3 = L - left channel with AD mix
A4 = P - right channel with AD mix

7. The following applies to a record on the digital Betacam: Reference tone of frequency 1 kHz, 0dB must be recorded in compliance with the recommendations of the manufacturer of the recording device with saturation of 125nW/m.

Reference value will relate to the level of -18 LUFS ShortTerm in compliance with the recommendations of EBU R128.

8. **Audio signal of supplied programmes must comply with all the points of the recommendations of EBU R128/decreed of the Ministry of Culture.**

The audio signal is measured in full extent, without any emphasis on specific elements such as voice, music, effects.

Integrated Loudness is normalised to -23LUFS. Max True Peak Level must not exceed -1dBTP.

Loudness Range (LRA) must not exceed 15 LU

In case of advertising and programmes shorter than 30 second Momentary Loudness (400ms) must not exceed -15LUFS and at the same time Short Term Loudness (3s) must not exceed -20LUFS.

The level of loudness according to EBU R-128 must be normalised and always measured separately for two tracks (track 1 and 2 and separately for track 3 and 4, never 4 tracks together!).

9. Time code must be recorded in LTC track with a simultaneous use of VITC.
10. Signals of the recording must be distributed as follows:
 - a.) setting section - from time code 0':00" until 1 ':29":24 image:
Test — colour bars PAL EBU 75% sound: reference tone 1 kHz,
-18 LUFS
 - b.) lead-in section - from time code 1 ':30" until 1 ':59":2 image:
black PAL

sound: without modulation
 - c.) programme section — programme recording itself from time
code 2': 00", beginning and end of programme in LTC must
correspond with the data on cassette label
 - d.) run-out section — from the end of programme recording in the
length of 30" image: black PAL sound: without modulation
11. A continuous video signal must be in section black - programme - black [b.) — c.) — d.)].
12. The offset (time shift) between the picture and sound must be subjectively imperceptible and according to the recommendation of CCIR it must not exceed 60 ms in case of sound ahead picture and 100 ms if the sound is delayed after picture.
13. All the synchronisation impulses, especially H and burst and chrominance signal must remain in mutually fixed time and phase relationship. Any pulling out of lines or even their absence and visibly disturbing drop-outs in modulation are unacceptable. The shifting of picture against synchronising pulses is in vertical direction by 2 TV lines and in horizontal direction by max. 400 ns against blanking pulse.
14. The level of complete video signal must never exceed the value of 107% black - white, i.e. 750 mV and the value of -25% black - white, i.e. - 175mV against the level of black. The level of 700mV is considered as 100 % of video signal black - white.

15. The image sharpness and gradation as well as the technical quality of audio recording must comply with the professional "Broadcast" TV signal and it shall be evaluated subjectively, in comparison with another high-quality recording.
16. Both cassette and its case must be labelled with identification labels. The minimum scope of the data on the labels includes:
 - name of programme producer
 - name of programme (inclusive number, subtitle)
 - beginning and end of programme in LTC
 - sound: mono, stereo
 - date of production

Furthermore, it is necessary to submit covering documentation together with the programme which must contain the footage of setting signals and their level (data in LTC).

B. Technical requirements for the supplying of spots via FTP:

All the files must be supplied in XDCAM MXF OPIa (.MXF). Without track with time code, or with time code beginning at 00:00:00:00.

File format:

MXF OPIa with .mxf extension with 1x video track, 2-8 audio tracks (preferred format)

Audio track

Audio codec:	PCM
Sampling frequency:	48kHz
Bit depth:	24bit

Sequence of audio tracks of undubbed programmes:

2 audio tracks: A1, A2 SK Stereo

4 audio tracks: A1, A2 SK Stereo; A3, A4 SK Audio Description

Sequence of audio tracks of dubbed programmes:

8 audio tracks:

A1, A2 SK Stereo; A3, A4 original Stereo; A7, A8 M&E, or

A1, A2 SK Stereo; A3, A4 Audio Description; A5, A6, original stereo; A7, A8 M&E

Video track

Encoding settings in HD

Profile:	XDCAM HD422
Data flow:	50 Mbps CBR
Interlacing mode:	Interlaced, Upper first
Aspect ratio:	16:9
Resolution:	1920x1080

Account for sending offiles to ftp is as follows:

server: [ftp.joj.sk](ftp:joj.sk)

login: advert

password: rEklama112#

Please kindly send the information about spot upload to FTP and registration sheets for spots to the following e-mail address: spoty@joj.sk

C. Warnings and Specifications

1. Advertising spots for medicinal products shall contain the following information:

"Please read carefully the patient information leaflet or consult your doctor or pharmacist before taking this medicine." („Pred užitím lieku si pozorne prečítajte príbalovú informáciu alebo sa porad'te s lekárom alebo lekárnikom. ")

This warning and recommendation contained in the advertising of medicinal products must be displayed in the TV spot for at least six (6) seconds.

This warning and recommendation contained in the advertising of medicinal products must be displayed in the TV spot in the ARIAL Regular font, 24pt. The full text of the warning must be displayed on a sufficiently contrasting background. If the mandatory information is included in the following text, it must always be displayed as first.

1. Deadlines for delivery of spots:

Deadlines for delivery of spots for broadcasting of media commercial communications on the JOJ, Plus, Wau and Prima Plus stations:	
Monday	do 15.00 for Thursday
Tuesday	do 15.00 for Friday
Wednesday	do 15.00 for Saturday and Sunday
Thursday	do 15.00 for Monday and Tuesday
Friday	do 15.00 for Wednesday
Deadlines for delivery of spots for broadcasting of media commercial communications placed at another program service falling within or representing the JOJ Group	
Monday	to 15:00 for Saturday
Tuesday	to 15:00 for Sunday and Monday
Wednesday	to 15:00 for Tuesday
Thursday	to 15:00 for Wednesday
Friday	to 15:00 for Thursday and Friday

The change of the spot on the ongoing media commercial communications of another program service belonging to or representing the JOJ Group can only be made after four (4) calendar days from the date of notification of such change.

Please, deliver cartridges to the following address:

Slovenská produkčná, a.s.

Sales Department of JOJ GROUP

Brečtanova 1

831 01 Bratislava

Contact person:

Rastislav Kušnier, Phone: 02/59 88 8636

Babeta Dmitrieva, Phone: 02/59 88 86 35

D. Conditions for the Delivery of Sponsor Links

Form:

1. A sponsor link can not be of a nature of an advertising spot, which means that the animation or text can not indicate the way of use nor incite to consumption. No edited advertising spot can be used for the production of the sponsor link.
2. The sponsor link can be animated and sound/sponsorship of programs, live broadcast and weather forecast /
3. The sponsor link may last to 10".

Contents:

1. The sponsor's logo, business name, service mark or the trademark of the product, if registered. This registration must be proven.
2. A slogan may be used only if it is part of the registered trademark. In addition to the possibility referred to in paragraph 1, the product may be mentioned only in the general characteristics of the sponsor's activity (e.g.: Sponsored by the car manufacturer).
3. If the trademark of the product forms part of the sponsor link, no other information about the product can be indicated (e.g. information about its quality or price). If the product is part of the trademark, it may be presented only in the form in which it is registered.
4. The sponsor link must identify the sponsor and reflect the sponsor's connection with the sponsored program.

Sponsor:

1. The sponsor may be a legal and natural person. The sponsor may not be a person whose principal business is the production, sale or lease of products, the advertising of which is not allowed.
2. The sponsor may not be a person whose principal activity is the manufacture of tobacco products; manufacturers of medicinal products may be sponsors only if they meet the terms and conditions of advertising.
3. When choosing a sponsor, it is necessary to take account of his suitability with respect to content or focus of the sponsored program. The sponsor shall not affect the content or the time of placement of the sponsored program into the broadcast.
4. Sponsors of programs for children and youth can not be manufacturers or vendors of alcoholic beverages.

The proposal (storyboard) as well as the finished sponsor link shall be subject to final approval by Slovenská produkčná, a.s.

Proposals (storyboards) must be sent to the following address for approval:

Lubica Kostercová02/59 888 623

kostercova@joj.sk

The account for sending files to the ftp site:

server: [ftp.joj.sk](ftp://ftp.joj.sk)

login: advert

password: rEklama112#

The information about uploading of the spot to FTP and registration cards of spots must be sent to the following email address: spoty@joj.sk

E. Technical conditions for receiving injections into the broadcast of the JOJ GROUP

Slovenská produkčná, a.s., has determined the following conditions for receiving injections:

1. The sequence of images must be in the Traga .tga format.
2. Bit resolution - 32 bit (24-bit RGB + 8-bit alpha channel).
3. Resolution 720 x 576.
4. Photography - 25 progressive frames per second (without half-frames).

5. Aspect ratio 16:9 Full Height Anamorph.
6. The alpha channel must be premultiplied.
7. The animation must be located in the lower right corner and can occupy up to 1/16 of the image. The remaining area of the image must be 100% transparent.
8. The length of the animation can be a maximum of 10 seconds, while the roll out and download of the sponsor's logo across the animation shall be counted in this time. The actual display of the logo of the sponsor (the injection) shall have the length of five (5) seconds.
9. Delivering media via standard ftp:
 - [ftp.joj.sk](ftp:joj.sk)
 - Login: inject
 - Pass: Elkama14e
10. The injection must be sent to the ftp server at least four (4) working days prior to the first broadcast of the injection.
11. The information about sending the injection to the ftp server must be reported to the e-mail address spoty@joj.sk.

In Bratislava, February 7th 2019



Slovenská produkčná a.s.
Brečtanová 1, 831 01 Bratislava
IČO: 35 843 624
IČ-DPH: SK2020239023
E-mail: spoty@joj.sk
E-mail: beda@joj.sk (1x)

Ing. Martin Heržo
JOJ GROUP Sales Director