

XTV

Broadcast TV Automation Software Suite (Rev. 2.6 ENG)



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1 INTRODUCTION

XTV Suite is a professional complete set of software tools for TV stations which manages from video capture, trimming, scheduling to playout.

Completely automatic and unattended efficiency 24/7.

XTV is perfect for TV stations, Satellite Channels, Cable TV, News Room, Web TV, CCTV, Corporate TV, Presentation, hotel pay tv channels, museums info channels and video wall display, which can take advantages of its user friendly interface.

At the same time, multi-channel tv stations and tv networks can enjoy **XTV's** scalable structure and universal file compatibility.

XTV is designed to achieve a true 'universal format' compatibility and provides broadcasters a powerful tool which can virtually play all media format from any source or feed.

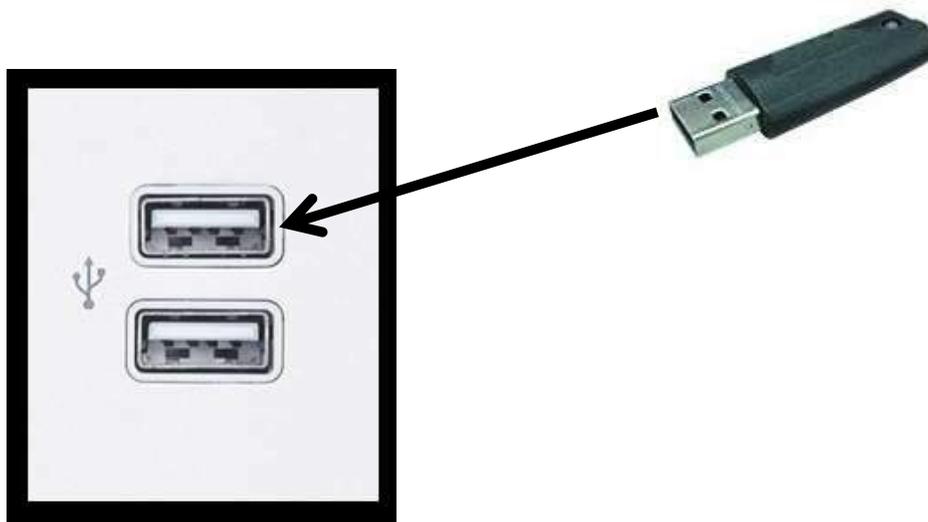
XTV ties together all production departments allowing direct playout of DV, HDV, MPEG-2, DVD, DIVX, MPEG-4, M-JPEG, MPEG-1, H.264, QuickTime, MXF, etc., in any resolution or framerate with automatic adaption.

2 INSTALLATION

- Minimum OS requirement: Windows 7 x64
- Install possible drivers of the motherboard and/or other peripherals
 - BIOS upgrading
 - Chipset drivers
 - Video card drivers
 - LAN drivers
 - RAID controller(if present)
- Reboot the PC
- We suggest you to install latest **DeckLink BlackMagic** drivers(Desktop Video) from the following link:
<https://www.blackmagicdesign.com/support/family/capture-and-playback>

2.1 XTV SUITE INSTALLATION

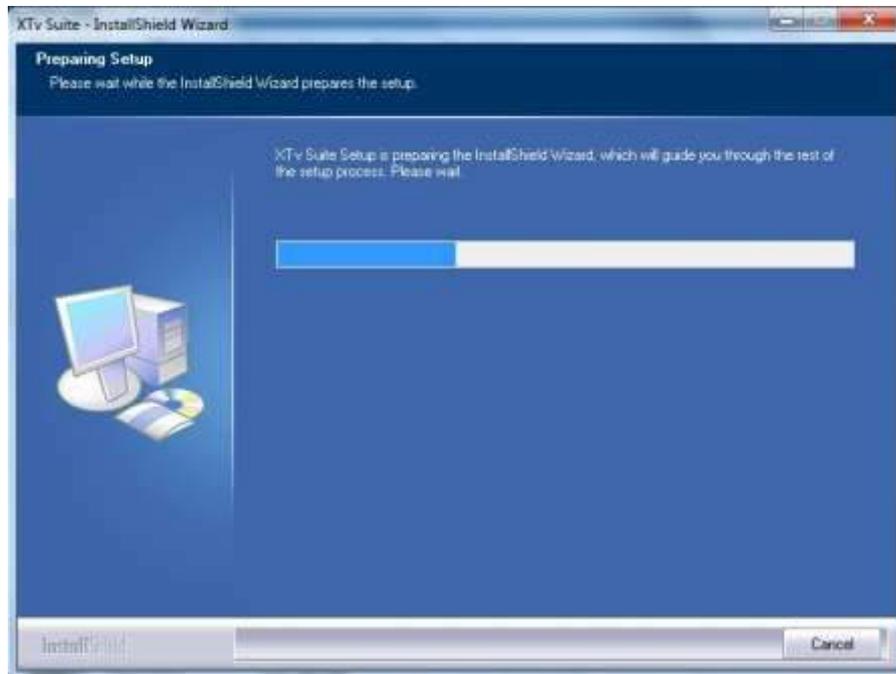
- Put the hardware key on the USB port of your pc



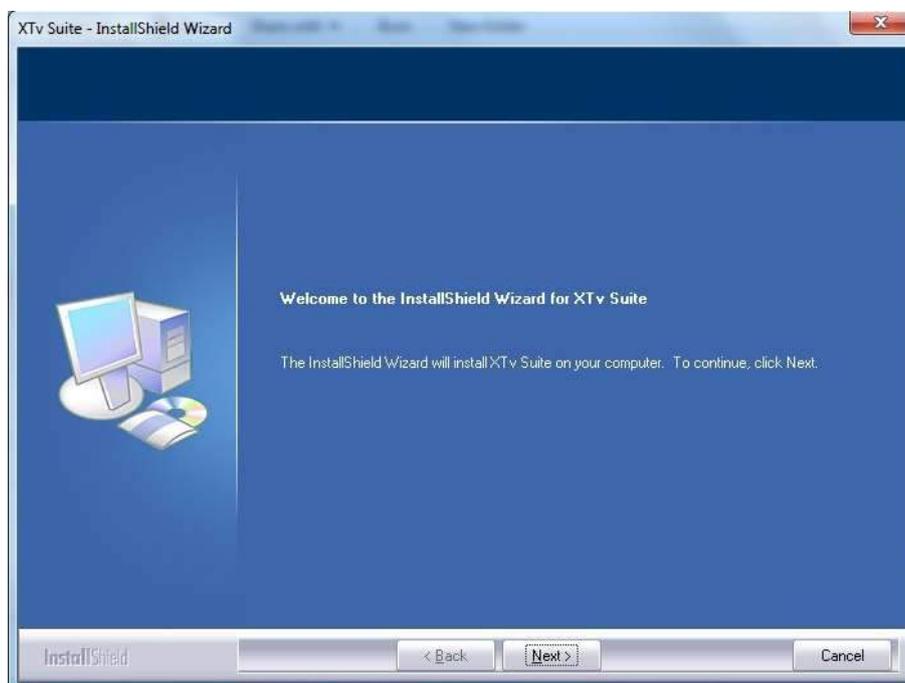
Launch XTVSetup.exe from the XTV CD.

A wizard will guide you to the right software installation

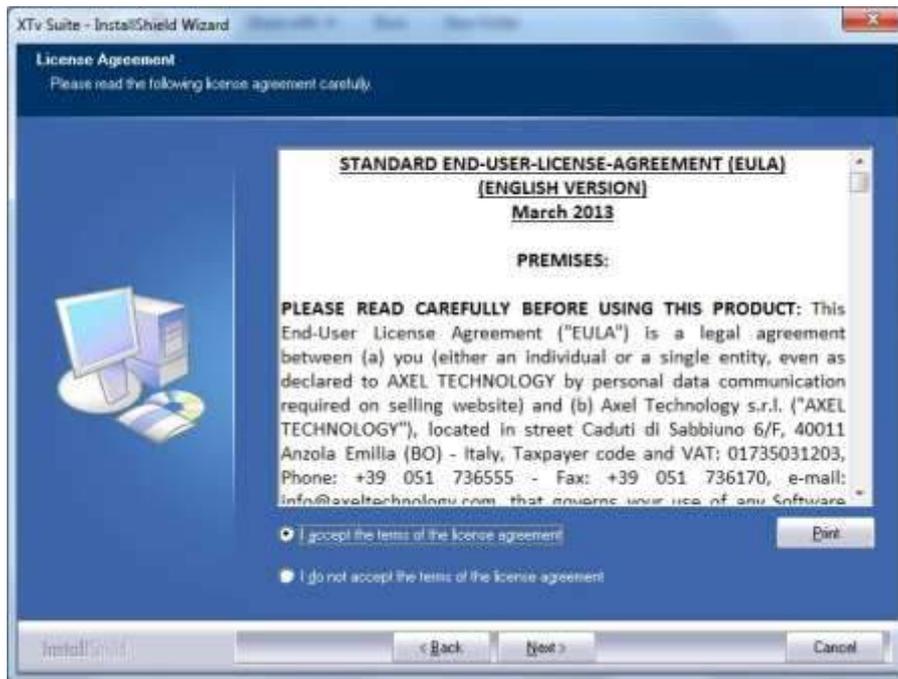
1. Wait while the InstallShield Wizard prepares the setup



2. Click Next



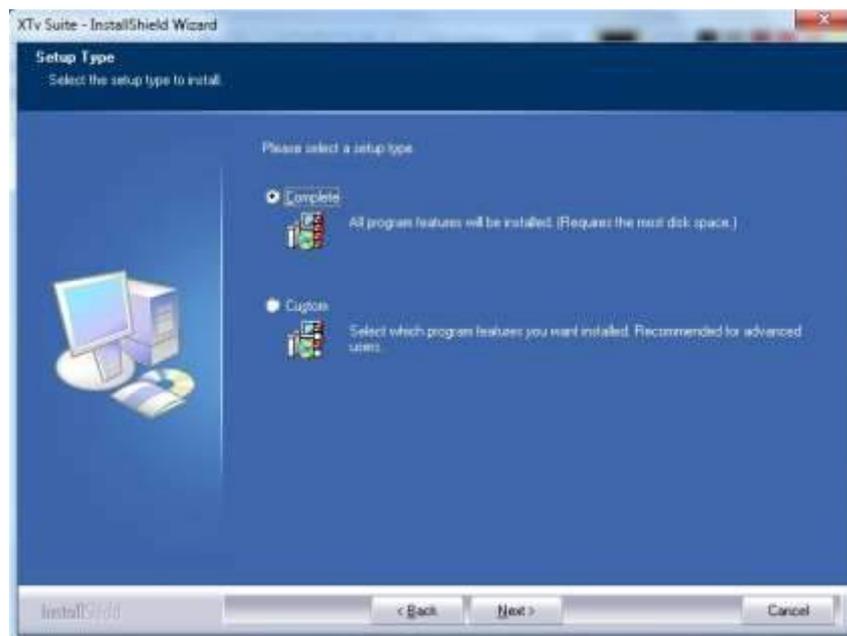
3. Click on “I accept the terms of the license agreement” and click on “Next”.



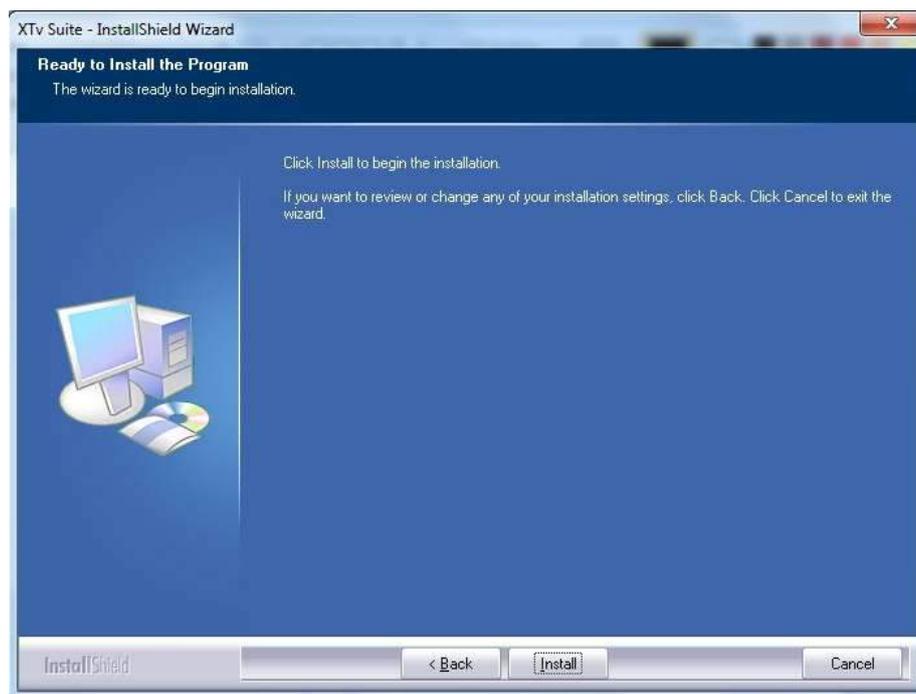
4. Click on “Yes” to agree to the list of EULA’s provisions in Exhibit A



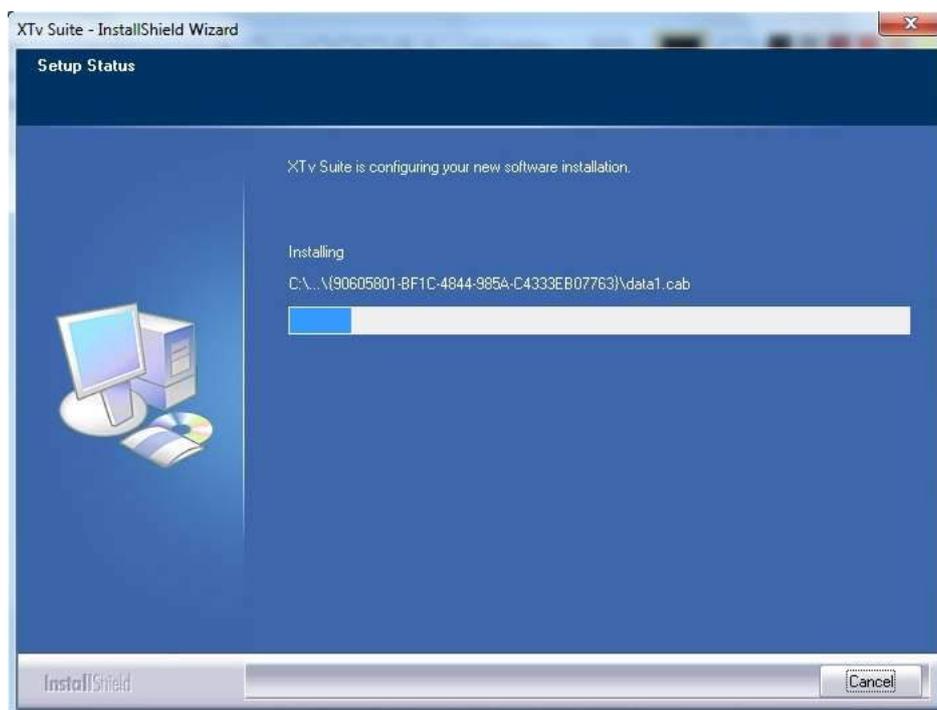
5. We suggest you to select the complete setup type and click on “Next”



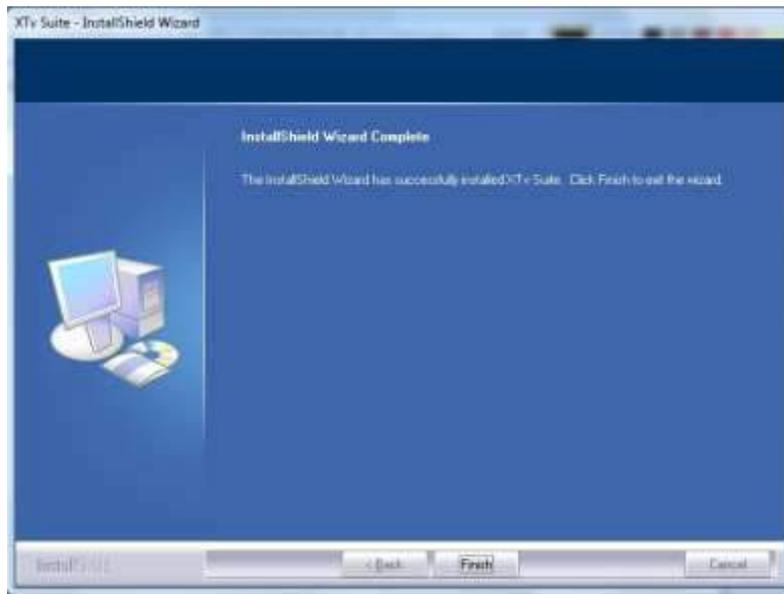
6. Click "Install" to begin the installation



7. Wait the end of the installation



8. Click on “Finish”



9. Click on “OK” to complete the Installation



2.2 GPIO PINOUT

RS232 pinout is

| | | |
|---|------------|----------------------------|
| 1 | DCD | Data Carrier Detect |
| 2 | RXD | Receive Data |
| 3 | TXD | Transmit Data |
| 4 | DTR | Data Terminal Ready |
| 5 | GND | System Ground |
| 6 | DSR | Data Set Ready |
| 7 | RTS | Request to Send |
| 8 | CTS | Clear to Send |
| 9 | RI | Ring Indicator |

GPI1 (RTS/CTS) = short on pins 7 and 8 open the first

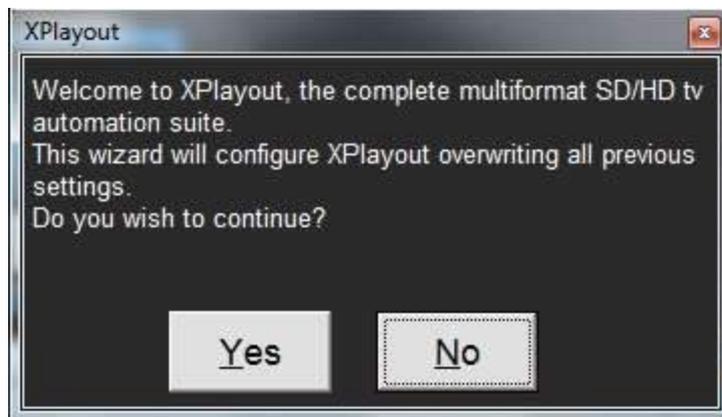
GPI2 (DTR/DSR) = short on pins 4 and 6 open the second

2.3 XPLAYOUT FIRST OPENING

The first time you open XPlayout you have to choose the television standard.

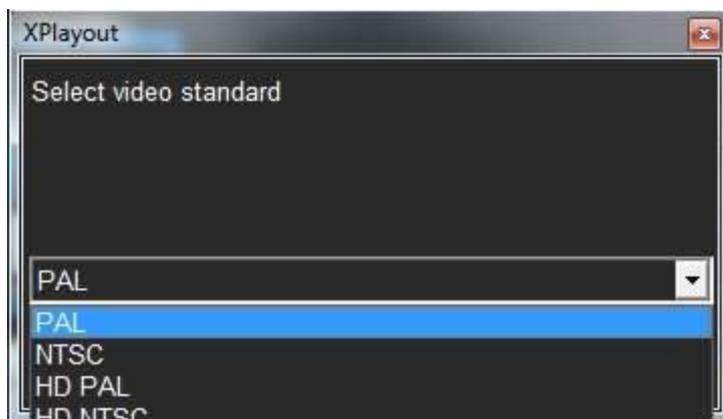
Usually a wizard starts automatically to guide you in the choice.

At the first wizard question answer "Yes"



Select your video standard from the following 4 possibilities:

PAL
NTSC
HD PAL
HD NTSC

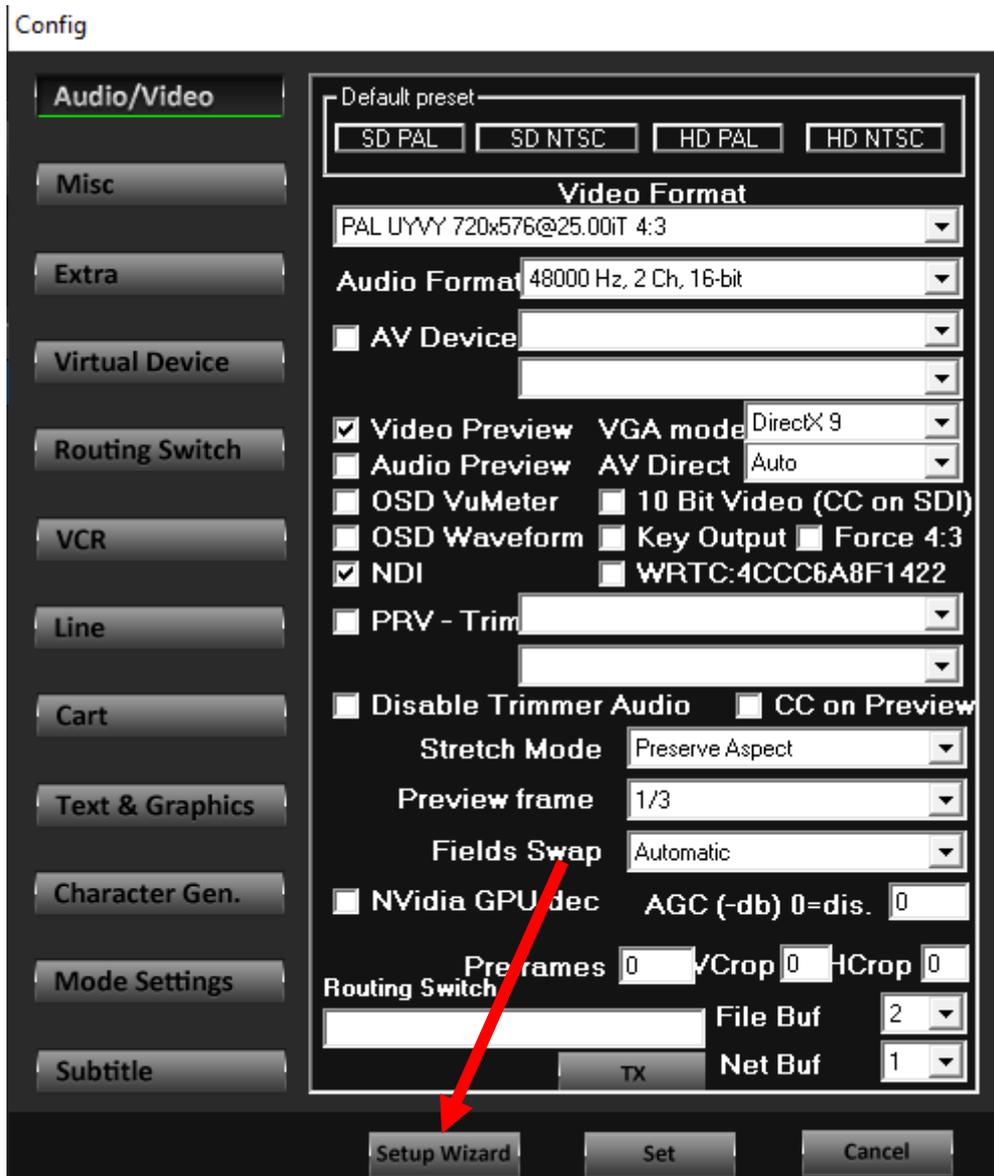


If the wizard does not start automatically

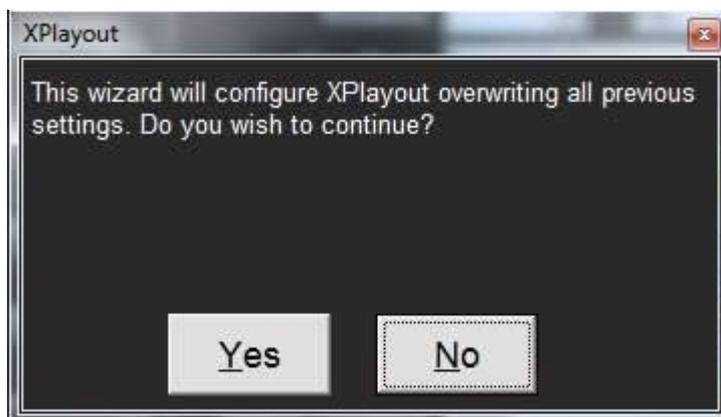
From the Functions section at the right part of the screen, select for System Settings button to open the config panel.



At the bottom of this mask click on Setup Wizard

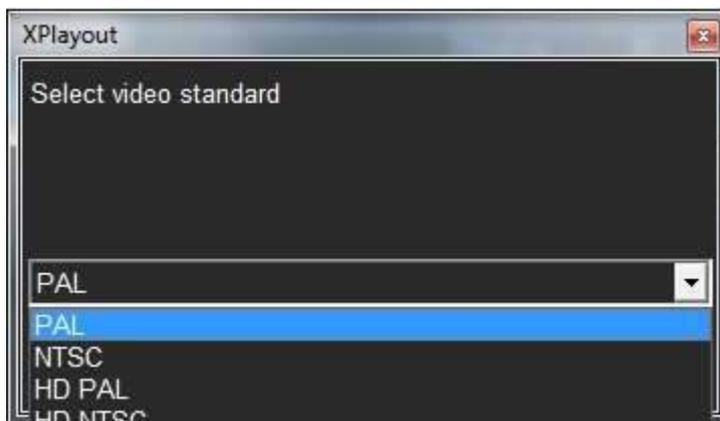


At the question "This wizard will configure XPlayout overwriting all previous settings. Do you wish to continue?" answer "Yes".

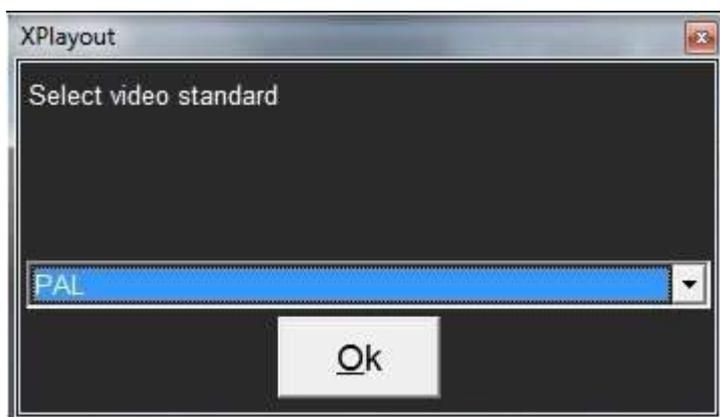


Select your video standard from the following 4 possibilities:

- PAL
- NTSC
- HD PAL
- HD NTSC



And click on OK



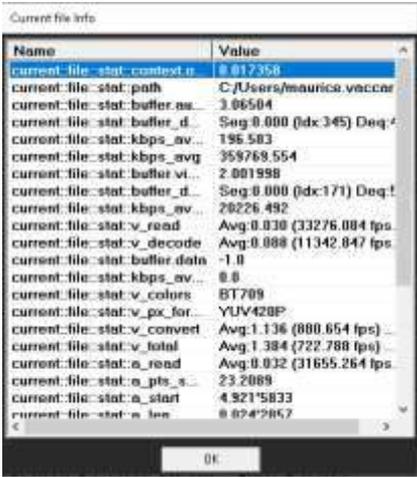
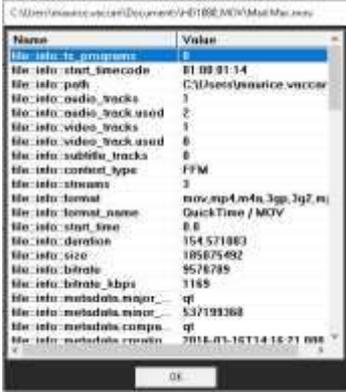
Wait for the XPlayout restart

3 XPLAYOUT

The main window is divided in three parts



| | |
|---|----------------------|
| 1 | On Air Information |
| 2 | Playlist Information |
| 3 | Menu |

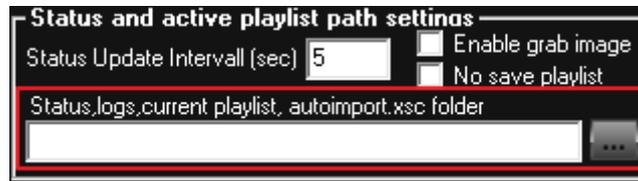
| | |
|--|---|
| <p>PLAYLIST REMAIN</p> | <p>Displays the remaining time of all the playlist</p> |
| <p>DELAY</p> | <p>Displays the Delay or the "Ahead of time" accumulated on the playlist</p> |
| <p> CURRENT FILE INFO</p> | <p>By pressing this  info button the following stats tab will be displayed:</p>  <p>Displays read status of the current file being played by XPLAYOUT</p> |
| <p> CURRENT PHISICAL FILE INFO</p> | <p>By pressing this  info button the following stats tab will be displayed:</p>  <p>Displays info of the physical file being played currently</p> <p>The same panel could be opened on each playlist file by pressing the following  button. To see the following button the playlist has to be displayed on GRAPHIC MODE as explained from the following picture:</p>  |

| | | |
|---|--|--|
| 4 | AUTOFILL | Enables/Disables autofill option it's used to fill automatically the playlist if the user doesn't upload a previous list.(The AutoFill Folder need to have media files) |
| | AUTO CG & SB | Enables / Disables the automatic logo management. |
| | SWITCHER | Enables / Disables the switcher control. It is enabled by default. |
| | PREP. NEXT | Enables/Disables Prep.Next option, it's used to prepare automatically the next clip on the playlist. |
| | EXACT TIME | Enables/Disables Exact Time option, it's used to broadcast a video in the exact time, if this one has been configured previously on XSchedule |
| | LOOP | Enables/Disables Loop Option, It's used to Loop all the clips of the playlist. |
| | AUTOMATIC | If pressed, the system plays all the playlist from the beginning to the end |
| | MANUAL | If selected, it plays one clip at a time. |
| 5 | MONITOR | Preview of the clip OnAir |
| | PROGRESS BAR | Time cursor of the clip OnAir. |
| | VOLUME METER | Displays the output audio levels of the clip |
| | VOLUME CONTROL | Adjusts the output audio levels of the clip |
| | VCROP | Adjusts the output vertical crop |
| | HCROP | Adjusts the output horizontal crop |
| |  PREVIEW INFO | By pressing this  info button the following stats tab will be displayed:  <p>Displays preview stats info</p> |
| 6 | ASPECT RATIO OPT | Choose the desired Aspect Ratio value of the output |
| | INTERLACING OPT | Choose the desired Interlacing mode of the output |
| | STRETCH MODE O | Choose the desired Stretch Mode of the output |

3.2 HOW TO ENABLE AUTOMATIC SAVE AND RELOAD OF ACTIVE PLAYLIST

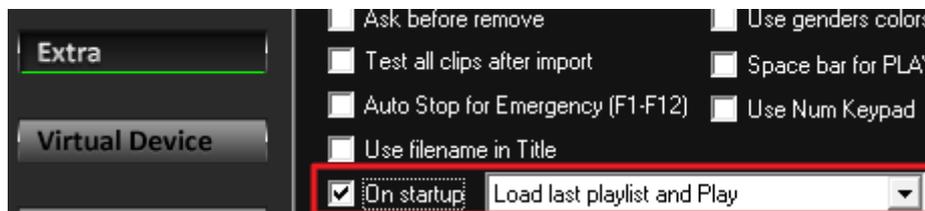
With default installation, Xpayout will not load any playlist at startup. Also, upon any settings change Xpayout will load a test video file (AXEL.MPG), to allow fast test of the new configuration.

In order to save the active playlist to disk, and also disable the automatic loading of the AXEL.MPG test file, define a folder in System Settings/Misc : "Network, status, logs".



Create a folder on local drive or network drive, and select it. Xpayout will save last active playlist and status here. Also AS RUN LOGS will be saved in this location.

In order to load last active playlist at startup, and after any restart for change of settings, enable the System Settings / Extra / On startup / Load last playlist and Play:



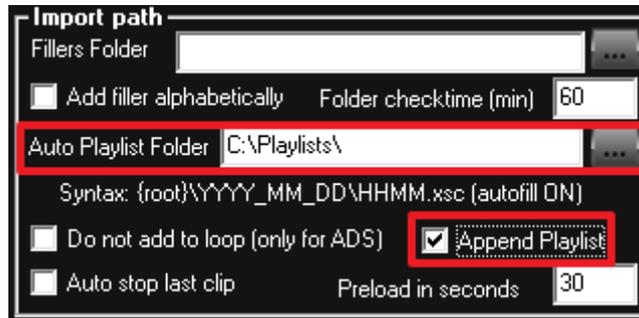
If Autofill button is enabled in main window, Xpayout will start playing last playlist from last played clip automatically.



3.3 HOW TO LOAD PLAYLISTS AUTOMATICALLY AT GIVEN DATE/TIME

Create a folder on local drive or network where playlist will be saved.

In System Settings/Misc : "Auto Playlist folder" select the folder and enable "Append Playlist" option



In the folder create another folder according to desired date with syntax yyy_mm_dd. For example:

C:\Playlists\2019_11_11\

Inside the folder save the playlist according to desired time with syntax hhmm.xsc. For example:

1218.xsc

BE SURE TO ENABLE THE AUTOFILL BUTTON



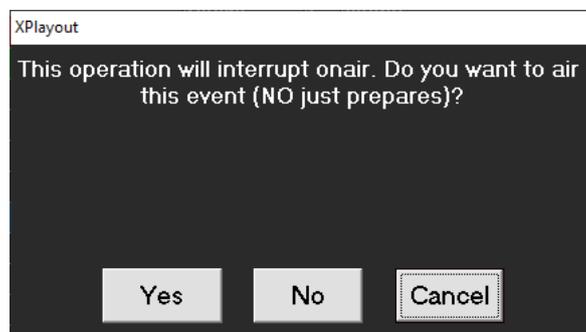
Xpayout will automatically APPEND the playlist at the end of the current playlist 30 seconds before 12:18 PM of the 11th of November 2019.

Also a CLEAR AIRED command will be issued automatically to free system memory.

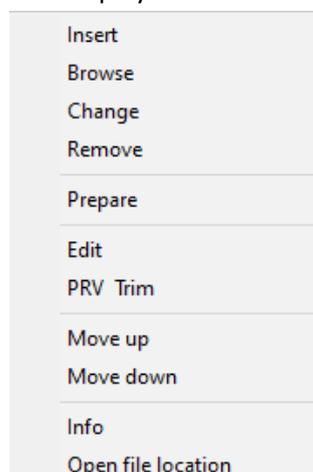
| | |
|-----------------------|---|
| | <ul style="list-style-type: none"> - VCR to directly air from a analogic Video Tape - Complete .xsc playlist file - Memo |
| BROWSE | Appears a new window to select the desired clip from the available hard drives |
| CHANGE CLIP | Allows to change/substitute a selected clip from the playlist |
| PREPARE | Allow to prepare manually the selected clip |
| PRV & TRIM | Displays a new window to preview and to trim the selected clip |
| EDIT CLIP | Displays a new window to edit the selected clip |
| MOVE UP | Moves the clip to an upper position |
| MOVE DOWN | Moves the clip to a down position |
| REMOVE | Allows to remove the selected file Allows to |
| DUPLICATE | creates a clip duplication of the selected one |
| CLEAR AIRED | It clears all the clips that has been OnAir |
| CLEAR PLAYLIST | It clears all the playlist clips |
| TEST CLIP | It tests a selected clip to check if there are errors |
| TEST ALL CLIPS | It tests all playlist clips to see if there are errors |
| AUTOSCROLL | It autoScrolls the playlist if this one it's too long |

!!!ATTENTION!!!

- By doubleclicking the desired clip of the current playlist it will be possible to air it immediately without changing the playback from **Automatic** mode to **Manual** mode. To confirm your choice click on **YES** in the following dialogue window:

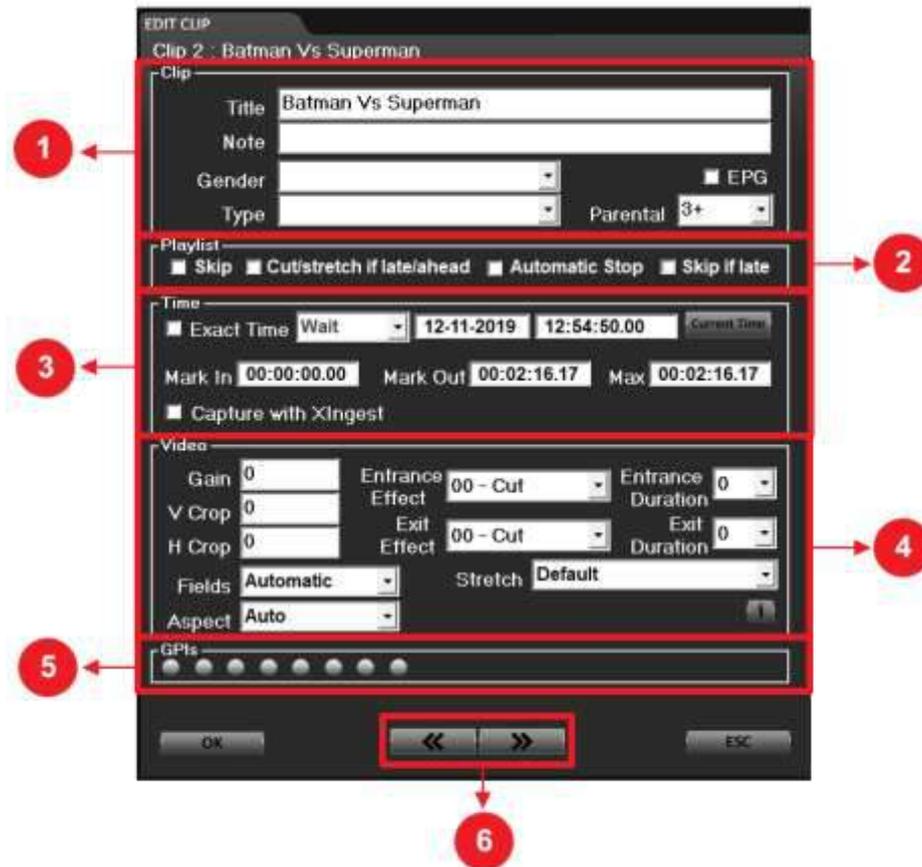


- By rightclicking the desired clip of the current playlist it will be opened the following menu:



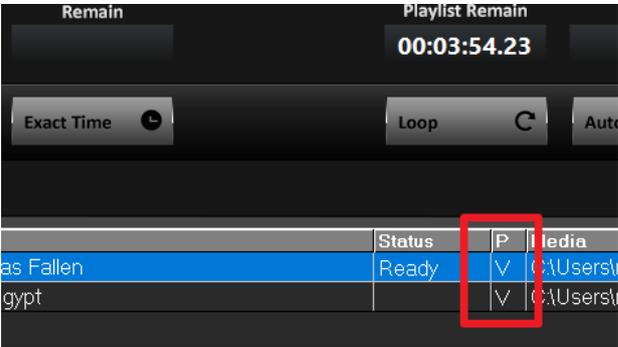
3.4.1.1 EDIT CLIP

The following window will appear by selecting the desired clip and by pressing the **EDIT CLIP** button.



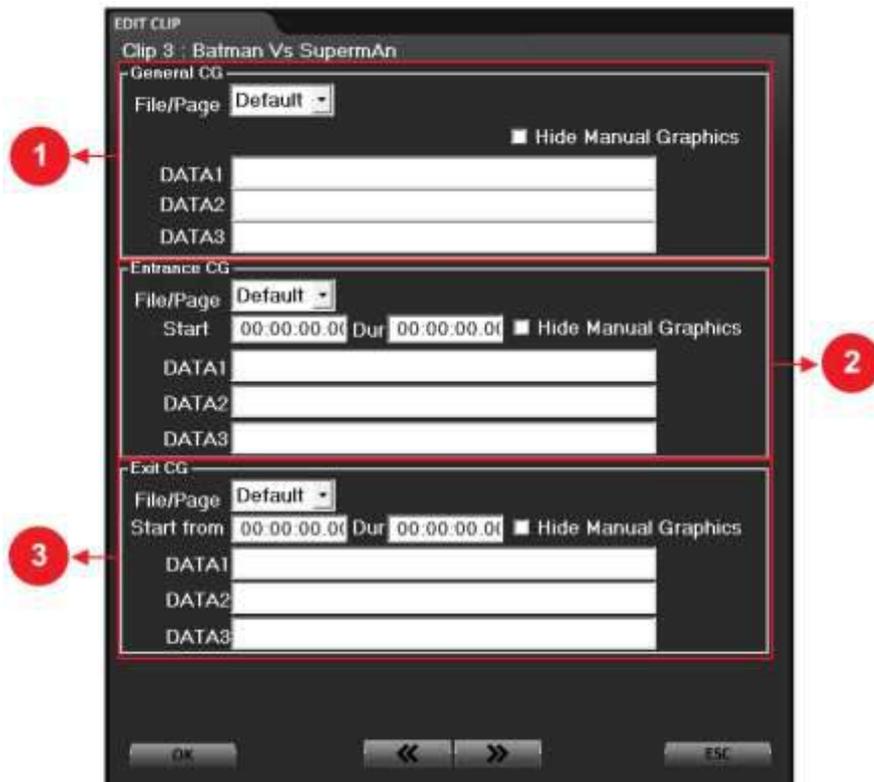
In the first line you can read for the clip name.
In this case: **CLIP 3 : BATMAN VS SUPERMAN**

| | | |
|---|-----------------------|---|
| 1 | CLIP: TITLE | If needed type here the desired clip title. This metadata change will affect only Title parameter inside XTV environment. The original file name will not be absolutely changed or lost. If EPG check will be activated, the tv program name will be displayed also by digital receiving decoders |
| | CLIP: NOTE | If needed type here a note by adding any kind of metadata info you want to share with your channel viewers. If EPG check will be activated, the NOTE descriptions will be also displayed by digital receiving decoders |
| | CLIP: GENDER | If needed by this field select a clip gender. If EPG check will be activated, the Gender will be also displayed by digital receiving decoders |
| | CLIP: EPG | By activating this check, the default metadata of the clip or those modified in this same section will be embedded and transmitted by the digital EPG protocol of the channel. For the general Channel EPG configuration, please go to SYSTEM SETTINGS> SUBTITLES> EPG |
| | CLIP: TYPE | If needed select the desired clip type. If EPG check will be activated, the Type will be also displayed by digital receiving decoders. Default Type are none or Type1 , it is also possible to add some customized types by XTRIMMER in the section: XTRIMMER > OPTION (bottom-left wheel) > Types . To apply XTRIMMER-Type changes, please restart XPLAYOUT. If EPG check will be activated, the Type will be also displayed by digital receiving decoders |
| | CLIP: PARENTAL | Parental parameter it serves as an indicator for a recommended minimum age of the viewer. The selected number recommends the program to viewers with an age equal to or greater than that number. If EPG check will be |

| | | |
|----------------------------|--|--|
| | | activated, the Parental will be also displayed by digital receiving decoders |
| 2 | PLAYLIST: SKIP | Enables/Disables the skip option for the clip |
| | PLAYLIST: CUT/STRETCH IF LATE/AHEAD | Enables/Disables the cut/stretch if late/ahead for the clip |
| | PLAYLIST: AUTOMATIC STOP | Enables/Disables the automatic stop option for the clip. each time this clip is played, it switches playback to manual mode. The edited clip will be marked with the letter V as described by the following image:  |
| | PLAYLIST: SKIP IF LATE | Enables/Disables the skip if late option for the clip |
| 3 | To make all the following TIME parameters will be applied by the current playlist press the following button. If ON it will turn to green, if OFF all the parameters will be ignored.  | |
| | TIME: EXACT TIME CHECK <input checked="" type="checkbox"/> Exact Time | Enables/Disables Exact Time option |
| | TIME: EXACT TIME ACTION  | <p>Sets the desired action on the clip. The available choices are the following:</p> <ul style="list-style-type: none"> Wait: the exact time set on the clip will be applied. In this case, however, the clip will wait the end of the previous one. The clip playback will be forced, but the exact time will not be the same set in this section. Cut: the exact time set on the clip will be applied. The clip will be aired interrupting the previous one. The clip airing time will be exactly the same set in this section. Split: the exact time set on the clip will be applied. The clip will be aired interrupting the previous one, it will be anyway followed by the remaining part of the previous interrupted clip. The airing time of the exact time-clip will be exactly the same set in this section. |
| | TIME: EXACT TIME DATE <input type="text" value="14-11-2019"/> | Sets the date on which to apply the desired exact time |
| | TIME: EXACT TIME <input type="text" value="12:16:29.00"/> | Sets the exact time to play the clip. This value will be superimposed bypassing any other scheduling options of all playlist clips. |
| | TIME: MARKIN | Sets the MarkIn of the Clip. The clip airing will start from this set point. The whole clip duration will be modified. |
| | TIME: MARKOUT | Sets the MarkOut of the Clip. The clip airing will stop at this set point. The whole clip duration will be modified |
| | TIME: MAX | Sets the Maximum duration of the clip. This parameter will be superimposed to the previous parameter MarkOut. |
| | TIME: CAPTURE WITH XINGEST | Enables/Disables XINGEST recordings on the selected clip |
| | 4 | VIDEO: GAIN |
| VIDEO: V CROP VIDEO | | Set the Vertical crop for the clip. |
| VIDEO: H CROP VIDEO | | Set the Horizontal crop for the clip. |
| ENTRANCE EFFECT | | Set the entrance effect of the clip |
| ENTRANCE DURATION | | Set the duration of the clip entrance effect |
| VIDEO: EXIT EFFECT | | Set the exit effect of the clip |
| | VIDEO: EXIT DURATION | Set the duration of the clip exit effect |

| | | |
|-----------|---|-----------------------------|
| | VIDEO: FIELDS | Set the fields of the clip |
| | VIDEO: STRETCH | Set the clip stretch option |
| | VIDEO: ASPECT | Set the aspect of the clip |
| 5 | GPIs send external commands through GPI protocol | |
| hr | Allows to navigate between the edit tabs | |

EDIT CLIP SECOND PAGE



These following 3 graphic elements will automatically replace all standard graphics of the channel manageable by **EDIT CG PAGES** and aired only if **AUTO CG & SB** is activated.

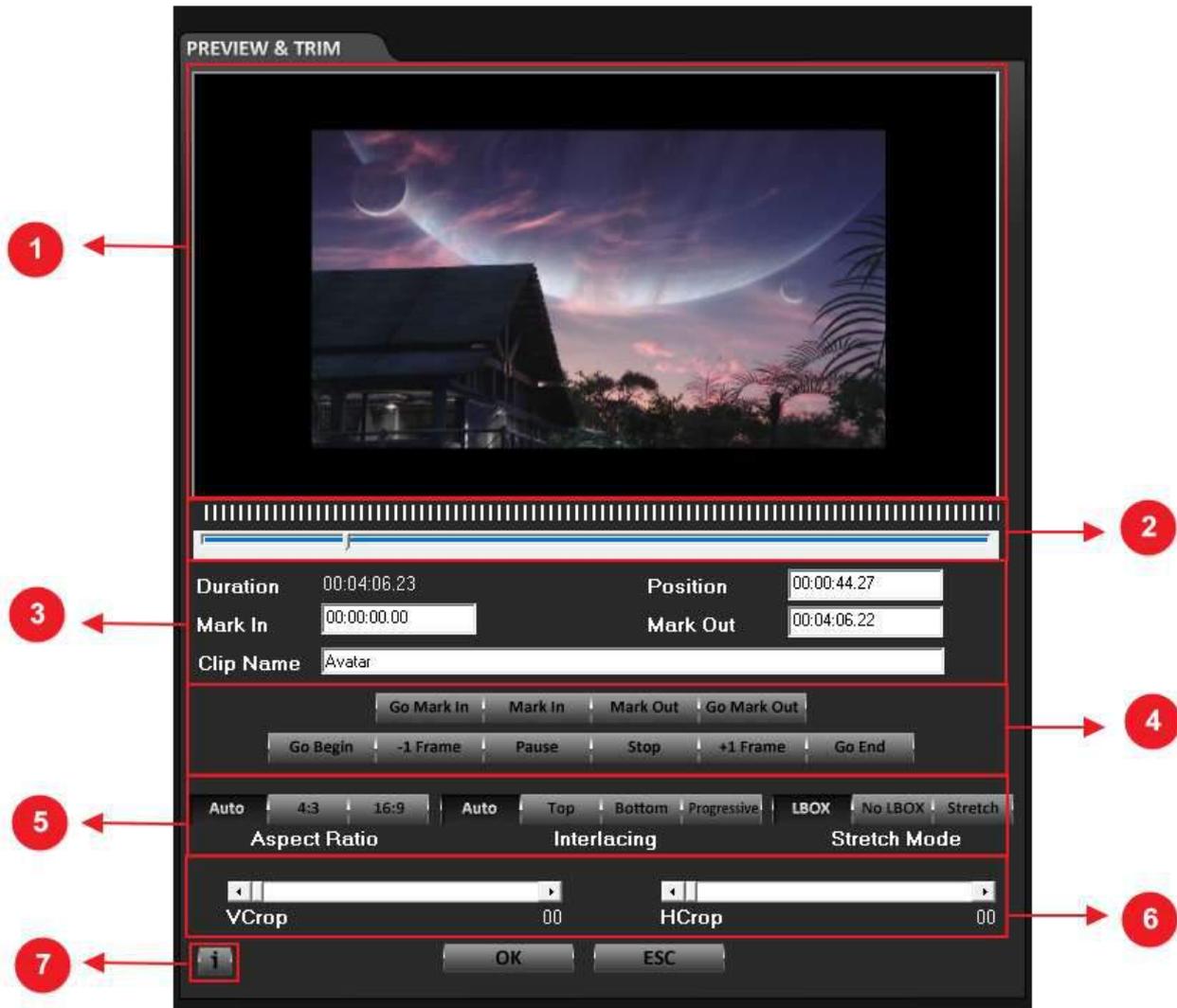
At the same time these 3 graphic elements can coexist with manual graphics: graphics manageable by **MANUAL CG**.

| | | |
|---|--|---|
| 1 | GENERAL CG: FILE/PAGE | Set the file or page of the general graphic |
| | GENERAL CG: HIDE MANUAL GRAPHICS | Enable/Disable the option of hide manual graphics |
| | GENERAL CG: DATA1, 2 & 3 | <p>These 3 fields are dynamic texts. In order for them to be applied, it is necessary to select in the File/Page parameter an .acg file source. Only in the case in which the textual elements (text, ticker, crawl, roll) present in the .acg file are renamed as DATA1, DATA2 or DATA3, they will interact with these 3 parameters.</p> <p>The text typed in DATA1 will dynamically replace the text of the item / object text saved as DATA1 of the .acg file.</p> <p>The text typed in DATA2 will dynamically replace the text item / text object saved as DATA2 of the .acg file.</p> <p>The text typed in DATA3 will dynamically replace the text of the item / object saved as DATA3 of the .acg file.</p> |
| 2 | ENTRANCE CG: FILE/PAGE | Set the file or page of the entrance/exit graphics |
| | ENTRANCE CG: START | Set the start time for the entrance/exit graphics |
| | ENTRANCE CG: DUR. | Set the duration of the entrance/exit graphics |
| | ENTRANCE CG: HIDE MANUAL GRAPHICS | Enable/Disable the option of hide the manual graphics |
| | ENTRANCE CG: DATA 1,2 & 3 | <p>These 3 fields are dynamic texts. In order for them to be applied, it is necessary to select in the File/Page parameter an .acg file source. Only in the case in which the textual elements (text, ticker, crawl, roll) present in the .acg file are renamed as DATA1, DATA2 or DATA3, they will interact with these 3 parameters.</p> |

| | | |
|----------|--------------------------------------|---|
| | | <p>The text typed in DATA1 will dynamically replace the text of the item / object text saved as DATA1 of the .acg file.</p> <p>The text typed in DATA2 will dynamically replace the text item / text object saved as DATA2 of the .acg file.</p> <p>The text typed in DATA3 will dynamically replace the text of the item / object saved as DATA3 of the .acg file.</p> |
| 3 | EXIT CG: FILE/PAGE | Set the file or page of the exit graphics |
| | EXIT CG: START | Set the start time for the exit graphics |
| | EXIT CG: DUR. | Set the duration of the exit graphics |
| | EXIT CG: HIDE MANUAL GRAPHICS | Enable/Disable the option of hide the manual graphics |
| | EXIT CG: DATA 1,2 & 3 | <p>These 3 fields are dynamic texts. In order for them to be applied, it is necessary to select in the File/Page parameter an .acg file source. Only in the case in which the textual elements (text, ticker, crawl, roll) present in the .acg file are renamed as DATA1, DATA2 or DATA3, they will interact with these 3 parameters.</p> <p>The text typed in DATA1 will dynamically replace the text of the item / object text saved as DATA1 of the .acg file.</p> <p>The text typed in DATA2 will dynamically replace the text item / text object saved as DATA2 of the .acg file.</p> <p>The text typed in DATA3 will dynamically replace the text of the item / object saved as DATA3 of the .acg file.</p> |

3.4.1.2 PRV & TRIM (PREVIEW & TRIM)

With this option the user can trim the selected clip in case of the need of a final edition, this last edition will not be saved in any external folder or file.



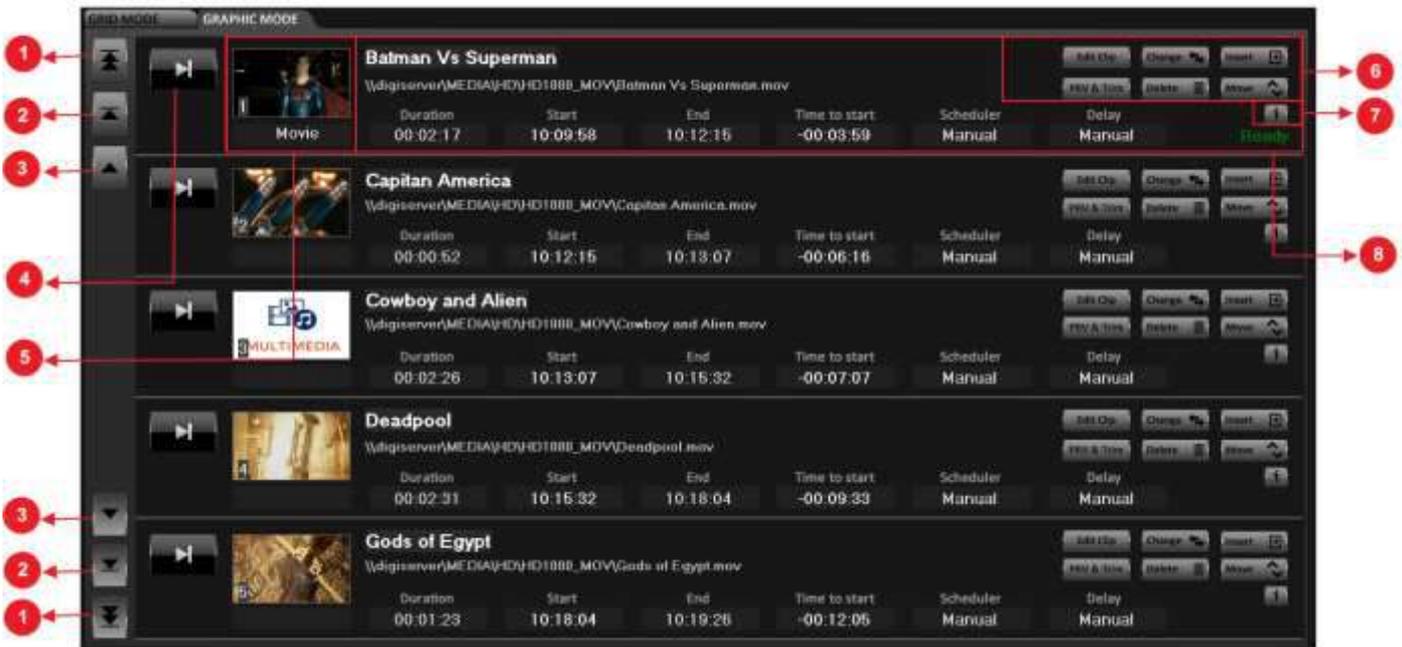
| | | |
|---|--|---|
| 1 | Displays the clip preview | |
| 2 | Clip progress bar (smooth frame-to-frame skipping) | |
| | Clip adjustable progress bar | |
| 3 | DURATION | Shows the clip duration |
| | MARK IN | Editable clip Mark In |
| | POSITION | Show the clip position |
| | MARK OUT | Editable clip Mark Out |
| | CLIP NAME | Editable clip name |
| | GO MARK IN | Moves the cursor at the beginning of the selected marker on the subclip |
| | MARK IN | Moves the cursor to the desired mark in |
| | MARK OUT | Moves the cursor to the desired mark out |
| | GO MARK OUT | Moves the cursor at the end of the selected marker on the subclip |
| | GO BEGIN | Moves the cursor at the beginning of the file |
| | -1 FRAME | Moves the cursor to the previous frame |

| | | |
|---|---------------------|--|
| 4 | PLAY | Plays the file |
| | STOP | Stops the file |
| | +1 FRAME | Moves the cursor to the next frame |
| | GO END | Moves the cursor at the end of the file |
| 5 | ASPECT RATIO | Select between the 3 available ASPECT RATIOS |
| | INTERLACING | Select between the 4 available INTERLACING options |
| | STRETCH MODE | Select between the 3 available STRETCH MODES |
| 6 | V CROP | adjustable bar for the Vertical Crop |
| | H CROP | adjustable bar for the Horizontal crop |
| 7 | INFO BUTTON | By clicking this button all original clip info will be displayed |

3.4.2 GRAPHIC MODE

This particular displaying mode differs from the one explained above:

- the data of each clip are much more detailed than the **GRID MODE**
- only the clips following the one currently on the air are displayed here.



| | | |
|---|---|---|
| 1 | Scroll the playlist to the beginning or to the end | |
| 2 | Scroll to the next page or to the previous one | |
| 3 | Scroll to the next clip or to the previous one | |
| 4 | Press to prepare the clip to go OnAir | |
| 5 | Reference Image of the clip and clip Gender previously set on XTRIMMER | |
| 6 | EDIT CLIP | Go to Edit Clip Settings |
| | CHANGE | Allows to change/substitute a selected clip from the playlist |
| | INSERT | Allows to insert a new clip from a folder |
| | PRV & TRIM | Go to PRV & Trim Settings |
| | DELETE | Allows to delete a selected clip |
| | MOVE | Allow to move of position the selected file |
| 7 | INFO BUTTON | By clicking this button, all original clip info will be displayed |
| | CLIP NAME | Display the clip name |
| | PATH | Display the clip path |
| | GENDER | The clip Gender set in XTRIMMER |
| | DURATION | Clip duration |
| | START | Show at what time the clip will be on air. This value is calculate dynamically. |
| | END | Show at what time the clip will be end. This value is calculate dynamically. |

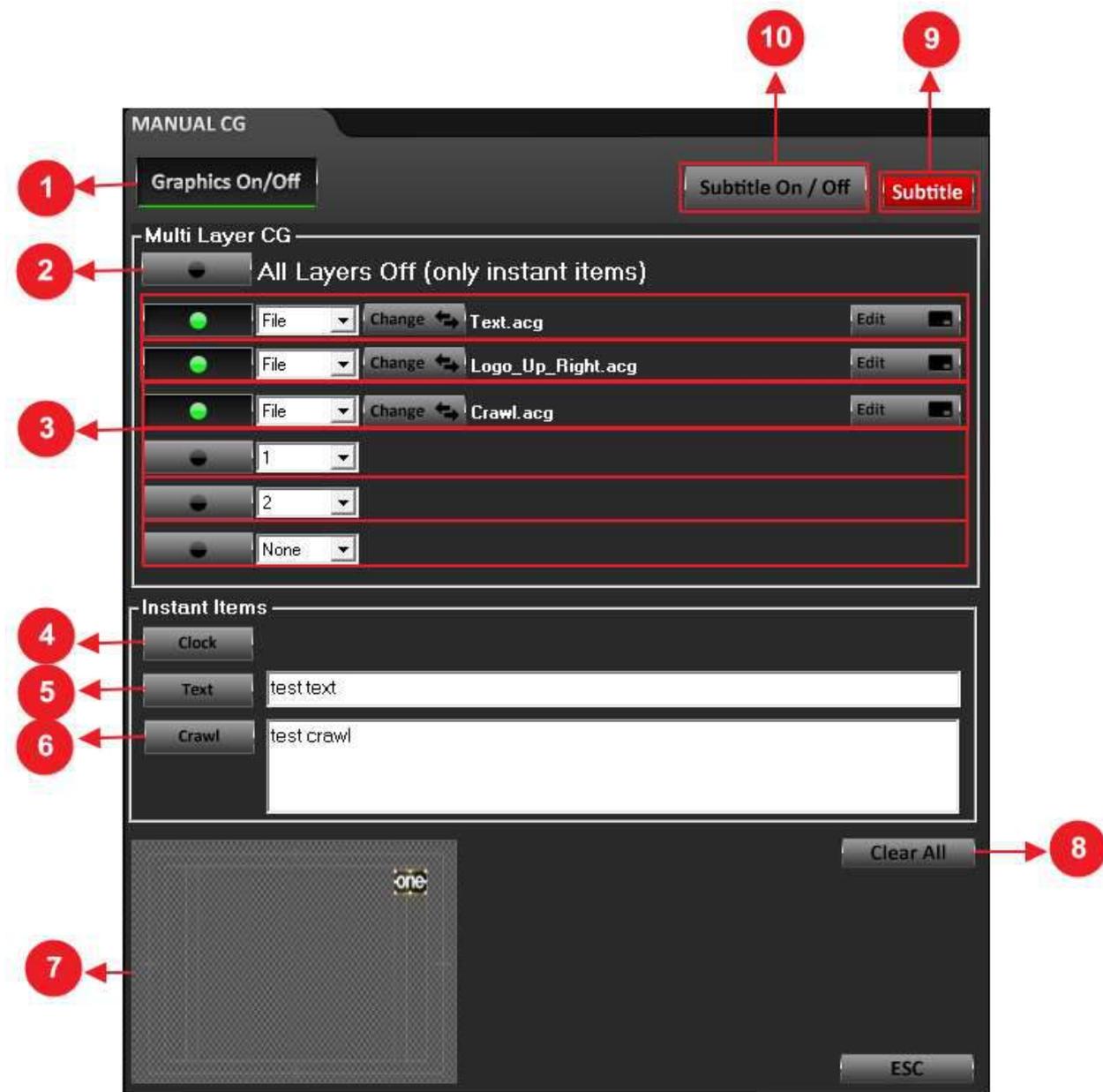
| | | |
|---------------|---------------------------------|---|
| 8 | TIME TO START | Show how much time left to the airing of the clip |
| | SCHEDULER | Date and time set by X |
| | DELAY | <p>Display of any delay or any advance time accumulated by the clip in relation to the time previously established within XSCHEDULER. We remind you that for an XSCHEDULER playlist to be aired at the set time, EXACT TIME must be enabled within XPLAYOUT and within the TIME tab of XSCHEDULER for the first playlist clip.</p> <ul style="list-style-type: none"> ○ If the airing time of the clip will be exactly the expected one this parameter will be empty. ○ If any delay is detected this parameter displays a positive time. ○ If any advance time is actually in progress this parameter displays a negative time. |
| STATUS | Display the current clip status | |

3.5 FUNCTIONS MENU AND CLOCK

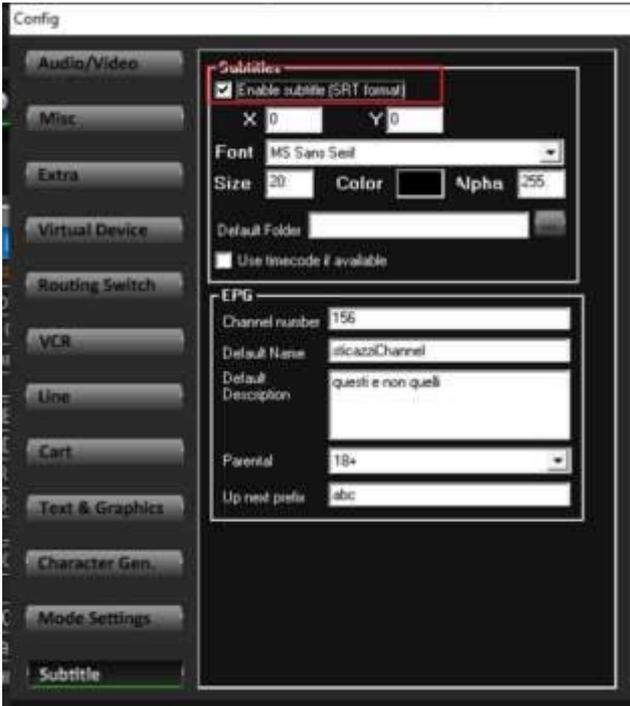


| | |
|----|---|
| 1 | Manual graphic management. Loads and plays graphic templates. |
| 2 | The squeezeback menu will help you to reduce the playlist playback in a desired screen area. |
| 3 | Shows the System Logs in a new window |
| 4 | In the EMERGENCY section you can set local emergency video files. Each video file is automatically associated with the HOT KEY / SHORTCUT readable on your right. |
| 5 | Here you can define parameters for the IP Streaming. |
| 6 | Opens the device manager window |
| 7 | Opens the system settings. |
| 8 | Opens the graphics edit page |
| 9 | Shows the Air Logs in a new window |
| 10 | Opens a quick window to select the desired playlist |
| 11 | Clock. It is in synch with the Windows time. |
| 12 | By pressing this button all Xplayout settings will be locked |

3.5.1 MANUAL CG



| | |
|---|--|
| 1 | Able/Disable manual graphics |
| 2 | Able/Disable all the 6 manual graphics except for the Instant Items |
| 3 | On each line you have following controllers, by them you can set up to 6 different layer: |
| | <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">   </div> <div> <p>By clicking on this button you can activate/deactivate the graphic page connected with this related line (layer)</p> <p>Select the desired .acg page for the graphic.</p> <ul style="list-style-type: none"> - You can select None to dissociate any .acg graphic page to the current layout. - You can select an .acg File browsing into your folders. - You can select a number from 0 to 99 to associate to the current layout a page previously set on the EDIT CG PAGES menu. <p>0 is the default page. 99 is the emergency page. This emergency graphic page is activated automatically only in the case the next clip in the playlist is not still ready to be aired.</p> </div> </div> |

| | | |
|--|---|---|
| |  | This button is displayed only with File sources. By clicking it you can browse inside your folders to select for a new desired .acg file. |
| |  | This particular filename description is displayed only with File sources. |
| |  | This button is displayed only with File sources. By clicking it you can open the .acg page and you will be able to edit it directly from CG COMPOSER environment. |
| Following 4., 5. and 6. points are activable instant items. They will be placed in the toppest layer | | |
| 4 | Instant item. Activates/Deactivates a digital default clock on your selected graphic pages. The clock will be in synch with your Windows pc time. | |
| 5 | Instant item. Activates/Deactivates the next customizable text as on your selected graphic page. The airing template of this text is the one related with Text.acg. | |
| 6 | Instant item. Activates/Deactivates the next customizable crawl text on your selected graphic pages. The airing template of the crawl is the one related with Crawl.acg. | |
| 7 | Preview of the last activated layer. | |
| 8 | Clear all will remove all of your graphics | |
| Shows you the presence of an .srt subtitle file or not. * | | |
| 9 | <p> Subtitle If you see the green led it means that there is a .srt file.</p> <p> Subtitle If you see the red light it means that there is not a .srt file.</p> | |
| 10 | <p>Ables/disables subtitles on your payout. before activating subtitles from this button, please activate ENABLE SUBTITLE (SRT FORMAT) from the following menu SYSTEM SETTINGS > SUBTITLE, as described in the following image:</p>  | |

* Ensure yourself to have the related .srt file in the same video folder and it has to be named with the same name of the related media.

In System Settings > Subtitles you can assign a default folder which contains all the .srt files. The .srt file has to be named with the same name of the related media.

NB: Not all .srt files could be associated to a specific video file, the system checks the compatibility between video file timecode and .srt times.

3.5.2 SQUEEZEBACKS

The video area could be surrounded by any desired graphic item.



The graphic items must be set in an .acg page. The operations are exactly the same as we have already seen in the section on the **EDIT CLIP > second page**..

By default you have some available pages (you can find their original .acg file sources in the Windows path: C:\ProgramData\Axel Technology\Logo Generator\Samples)

By clicking on **CHANGE** you can set another customized .acg file source (created on the CGCOMPOSER environment).

By clicking on **DELETE** you remove the current set .acg page.

By clicking on **EDIT** you will be able to edit the file source directly into the CGCOMPOSER environment.

-DATA1- -DATA2- -DATA3-

These 3 fields are dynamic texts.

In order for them to be applied, it is necessary to select an .acg file source by clicking on **CHANGE**.

Only in the case in which the textual elements (text, ticker, crawl, roll) present in the .acg file are renamed as DATA1, DATA2 or DATA3, they will interact with these 3 parameters.

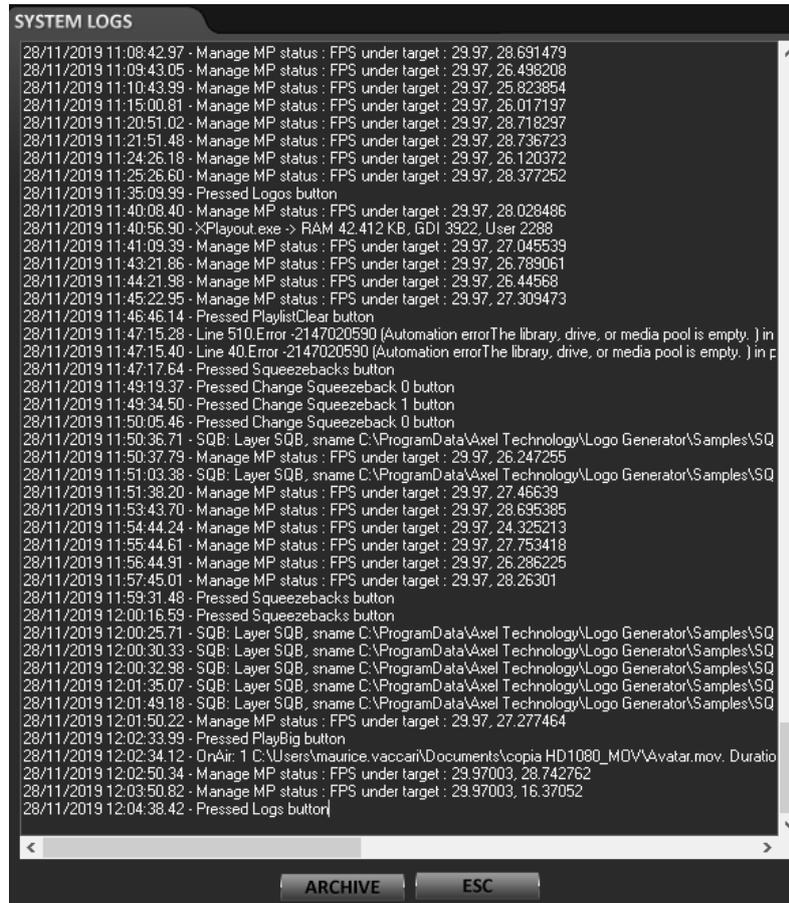
The text typed in DATA1 will dynamically replace the text of the item / object text saved as DATA1 of the .acg file.

The text typed in DATA2 will dynamically replace the text item / text object saved as DATA2 of the .acg file.

The text typed in DATA3 will dynamically replace the text of the item / object saved as DATA3 of the .acg file

3.5.3 SYSTEM LOGS

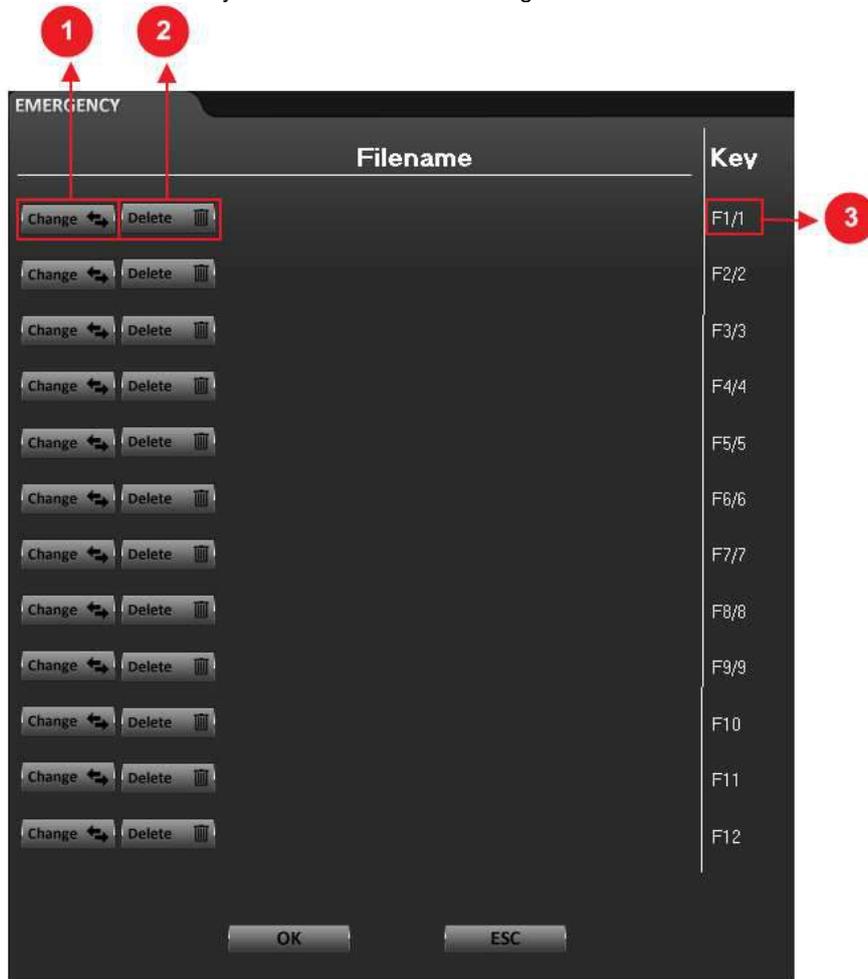
Here you can read for system logs



| | |
|---|-------------------------------|
| 1 | Clear and archive the logs |
| 2 | Quit the system logs function |

3.5.4 EMERGENCY

By clicking on the EMERGENCY button you will enter inside following menu:



On each line you can associate a single video file to use in emergency cases. Each line is associated with a related key to air it in the fastest way possible:

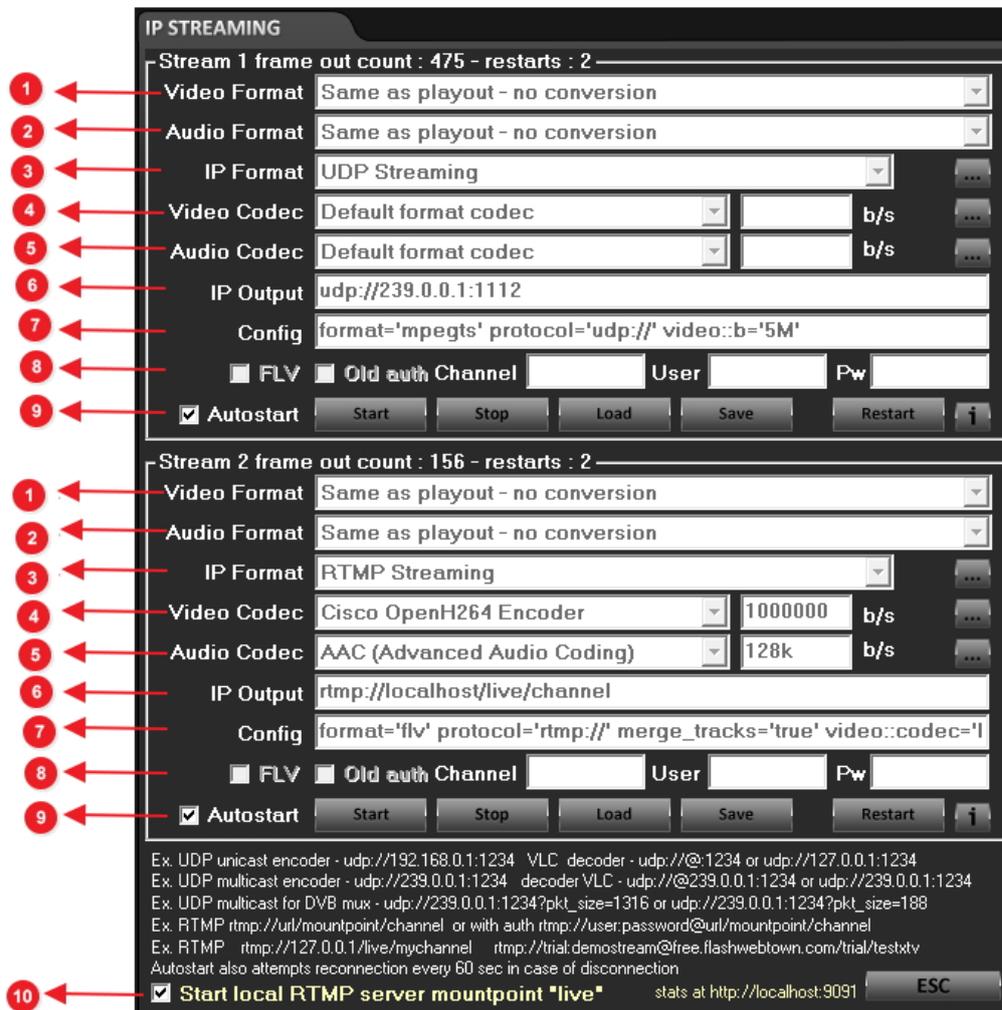
| | |
|----------|---|
| 1 | On the desired line click on CHANGE to proceed with a local video file association by browsing into your folders. The video file will be considered as an EMERGENCY file. In example: an emergency file could be useful in case of network connection problems. |
| 2 | On the desired line press DELETE to remove the relate video file association. |
| 3 | On the right side of the desired line you can read the associated hotkey/shortcut to immediately air the related video file. |

The following picture describes a successfully video file association with the line n° 2:



3.5.5 IP STREAMING

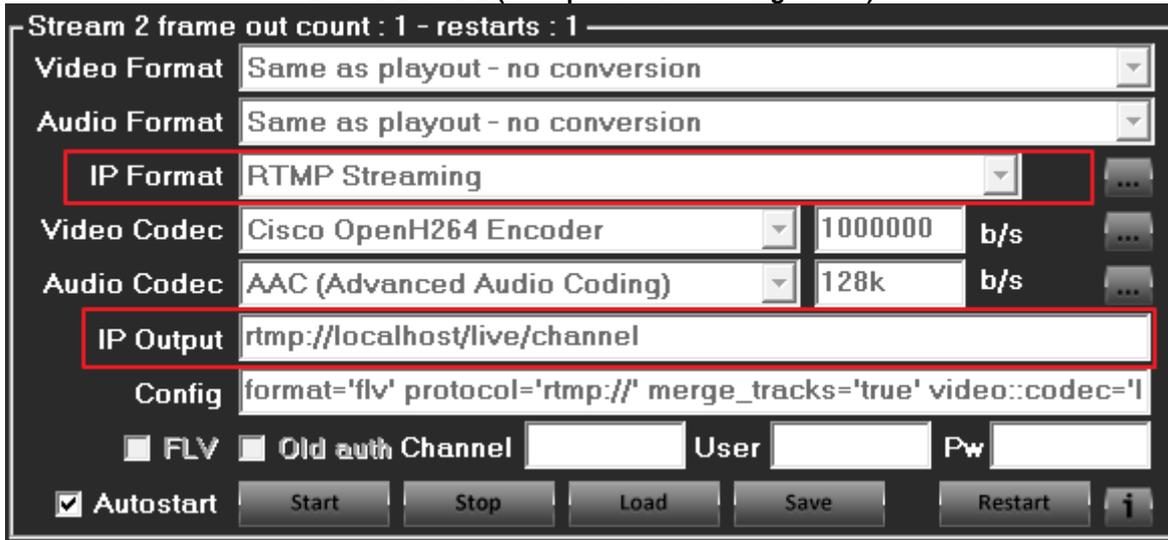
Xplayout environment has 2 simultaneously ip streams managable and activable by this IP STREAMING section. Between available stream protocols you can also find UDP and RTMP. In the following pictures all the ip streams controls related with STREAM1 and STREAM2.



| | |
|---|--|
| 1 | Into this 2 parameters select the desired video standard between availables. Inside the first one select STREAM1 standard, inside the second one select STREAM2 standard. |
| 2 | Into the 2 parameters you can select the desired samplerate for the channel audio between availables. Into the first one select STREAM1 samplerate, into the second one select STREAM2 samplerate. |
| 3 | <p>Into 2 parameters select the desired IP streaming format/protocol. Inside the first one select STREAM1 ip streaming protocol, into the second one select STREAM2 ip streaming protocol. You can choose between following available protocols:</p> <ul style="list-style-type: none"> RTMP Streaming UDP Streaming SRT - Secure Reliable Transport RTP RTP (Pro-MPEG) RTSP Streaming (beta) IIS Live Smooth Streaming RTMP (FMLE) Streaming - H.264 RTMP (FMLE) Streaming - VP6 Windows Media Streaming |
| 4 | Into this 2 parameters select the desired Video codec between availables. Inside the first one select STREAM1 video codec, inside the second one select STREAM2 video codec |

| | |
|----|--|
| 5 | <p>Into this 2 parameters select the desired Audio codec between availables. Inside the first one select STREAM1 audio codec, inside the second one select STREAM2 audio codec</p> |
| 6 | <p>Type the IP output of the stream. Inside the first one type the STREAM1 ip output. Inside the second one type the STREAM2 ip output</p> <p style="text-align: center;">*</p> |
| 7 | <p>If needed into this 2 parameters you can type other extra parameters to modify the filter or server's behaviour. Inside the first one type the STREAM1 config. Inside the second one type the STREAM2 config</p> |
| 8 | <p>In the following parameters you will be able to manage the stream to old Flash Servers both for STREAM1 and STREAM2:</p> <p><input type="checkbox"/> FLV Check FLV in the case of an old Flash Server</p> <p><input type="checkbox"/> Old auth Check Old Auth for Flash Server username and password authentication</p> <p>Channel <input type="text"/> type your Flash Server channel name</p> <p>User <input type="text"/> type your Flash Server username</p> <p>Pw <input type="text"/> type your Flash Server password</p> |
| 9 | <p>This following commands rule the start of the related stream:</p> <p><input checked="" type="checkbox"/> Autostart The stream starts automatically when XPLAYOUT starts. Autostart also attempts reconnection every 60 sec in case of disconnection</p> <p><input type="button" value="Start"/> If the related stream is off, by pressing this button the stream starts</p> <p><input type="button" value="Stop"/> If the related stream is on, by pressing this button the stream is interrupted</p> <p><input type="button" value="Load"/> The parameters of the related stream could be loaded by a previously saved .ipc (ip streaming config) file.</p> <p><input type="button" value="Save"/> the current parameters of the related stream are saved in an .ipc (ip streaming config) file</p> <p><input type="button" value="Restart"/> By clicking this button the stream will be stopped and it will be restarted again</p> <p><input type="button" value="i"/> By clicking on this button you will read all the stats info related to the current stream</p> |
| 10 | <p>If needed, by clicking on START LOCAL RTMP SERVER MOUNTPOINT "LIVE" you will run a local RTMP server directly on your current machine and a Web Server will be run. If the machine IP is public it will be exposed to an external monitoring. Unchecking it, the change will take effect only when the machine is restarted.</p> <p style="text-align: center;">**</p> |

ENCODER SIDE (example of RTMP configuration)

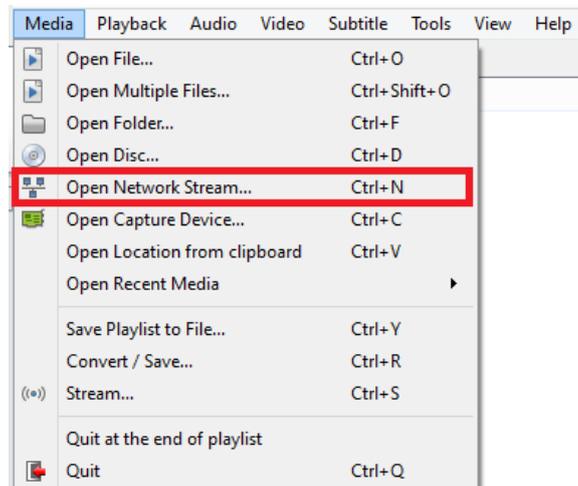


DECODER SIDE – Example of STREAM PLAYER or Video LAN on VLC MEDIA PLAYER

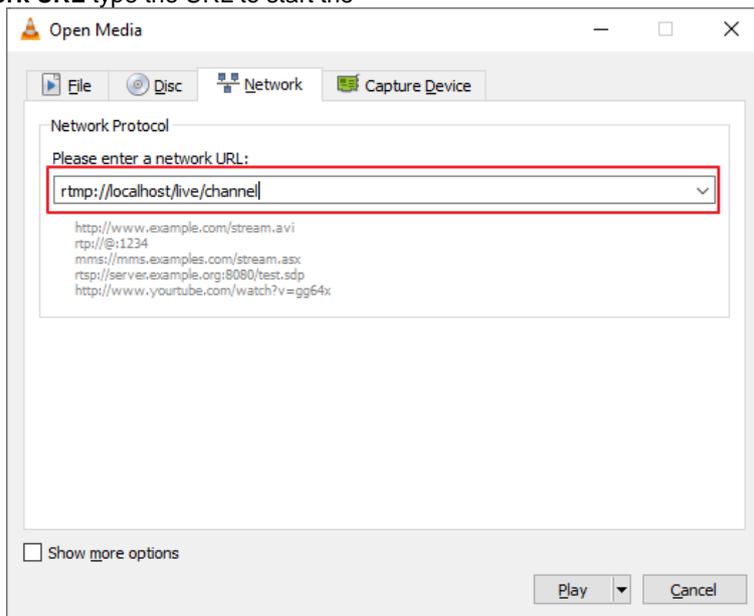
Open VLC media player:



Go in the following menu:



In **Please enter a network URL** type the URL to start the



Then click on Play to start playing on VLC player.

The result will be the following one:



*

Some config suggestions for **UDP** and **RTMP** streams encoding and decoding:

-if you need to encode an udp stream for an unicast distribution-

In **XPLAYOUT > IP STREAMING > IP Format** select **UDP Streaming**

- **Encoder side:**

In **XPLAYOUT > IP STREAMING > IP Format** parameter select **UDP Streaming**

Ip to set into **XPLAYOUT > IP STREAMING > IP OUTPUT** parameter:

[udp://"target ip":"port number"](#)

Instead of *target_ip* type the target ip address. If the target ip is reachable into the network or out of the network, the stream will be addressed only to this exact pc. In example: *192.168.99.170*

Instead of *port_number* type the port from which you want to pass the stream. In example: *1234*

- **Decoder side:**

Ip to set into a Stream Player or Video Lan, in example VLC:

[udp://@:"port number"](#)

Instead of *port_number* type the same port number set into the previous **ENCODER SIDE** point inside the **XPLAYOUT > IP STREAMING > IP OUTPUT** parameter.

-if you need to encode an udp stream for multicast distribution-

- **Encoder side:**

In **XPLAYOUT > IP STREAMING > IP Format** parameter select **UDP Streaming**

Ip to set into **XPLAYOUT > IP STREAMING > IP OUTPUT** parameter:

[udp://"ip of the multicast group":"stream forwarding port of the multicast group PCs"](#)

Instead of *ip_of_the_multicast_group* type the multicast group ip that you want to use. In example: *239.0.0.1*

Instead of *stream_forwarding_port_of_the_whole_multicast_group_PCs* type the port from which you want to pass the stream. In example: *1112*

- **Decoder side:**

Ip to set into a Stream Player or Video Lan, in example VLC:

[udp://@"ip_of_the_multicast_group":stream_forwarding_port_of_the_multicast_group PCs"](#)

Instead of *ip_of_the_multicast_group* type the same Ip set into the previous point inside the **XPLAYOUT > IP STREAMING > IP OUTPUT** parameter.

Instead of *stream_forwarding_port_of_the_whole_multicast_group_PCs* type the port number set into the previous **ENCODER SIDE** point inside the **XPLAYOUT > IP STREAMING > IP OUTPUT** parameter.

- if you need to encode a rtmp stream –

- **Encoder side:**

In **XPLAYOUT > IP STREAMING > IP Format** parameter select **RTMP Streaming**

Ip to set into **XPLAYOUT > IP STREAMING > IP OUTPUT** parameter:

[rtmp://target_ip/live/channel"](#)

live is the working mountpoint related with XPLAYOUT RTMP server
Instead of *channel* type the desired name for the RTMP stream channel.

- **Decoder side:**

Ip to set into a Stream Player or Video Lan, in example VLC:

[rtmp://target_ip/live/channel"](#)

live is the working mountpoint related with XPLAYOUT RTMP server. It is the same set into the previous point inside the **XPLAYOUT > IP STREAMING > IP OUTPUT** parameter.
Instead of *channel* type the desired name for the RTMP stream channel. It is the same set into the previous Encoder point inside the **XPLAYOUT > IP STREAMING > IP OUTPUT** parameter.

-if you need to encode a youtube stream-

The section **XPLAYOUT > IP STREAMING** could generate a compatible stream for the Youtube environment. If you are logged into YouTube go to the following link to obtain an available streaming url of YouTube:

1. Click on the symbol  at your top-right

 Go live

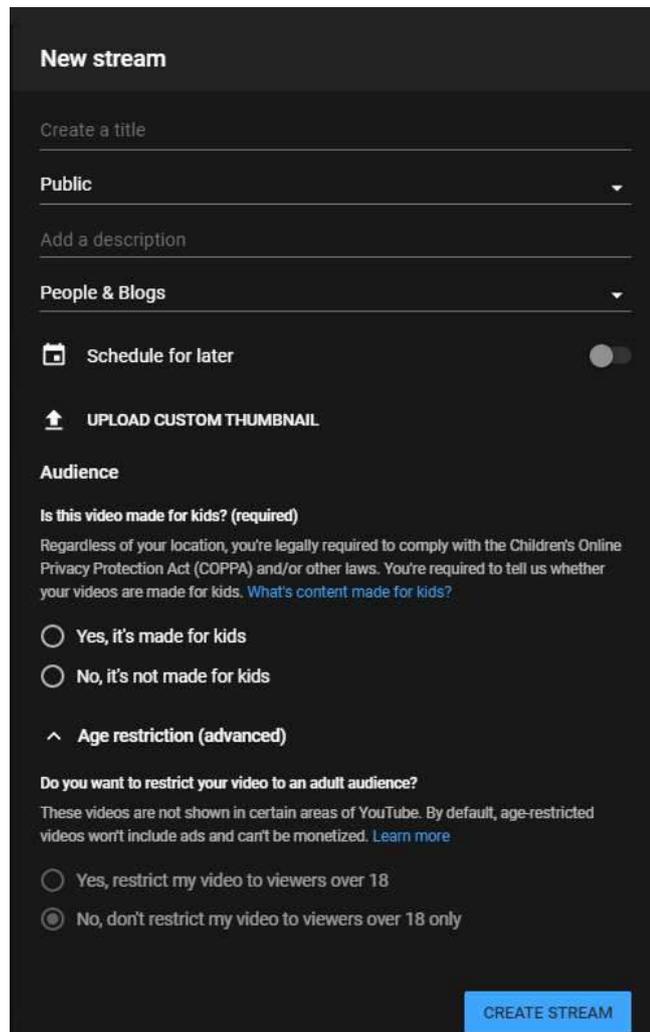
2. From the drop-down menu lick on

3. If it is the first YouTube stream attempt, a streaming request will be sent to YouTube. You have to be approved by YouTube. The approval needs 24 hours.

4. After 24 hours and for all of your next YouTube Stream repeat steps 1. and 2.

5. YouTube Studio will be opened

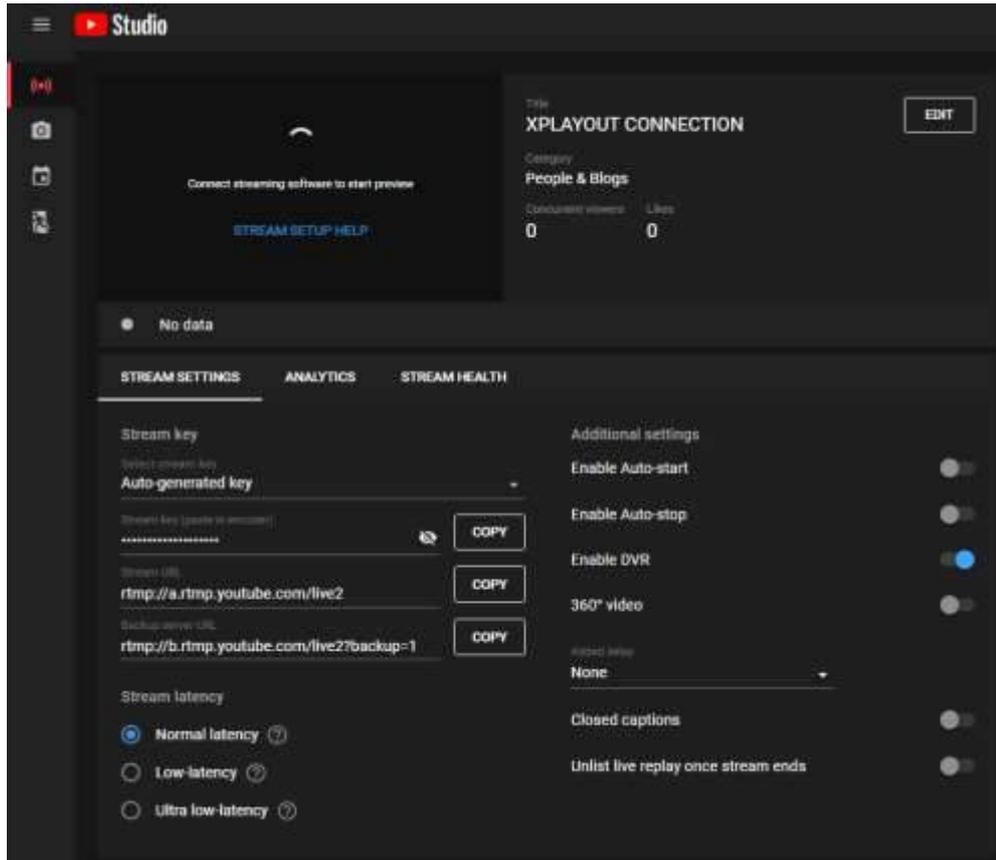
6. Name your streaming and select your desired options from the window and click on CREATE STREAM:



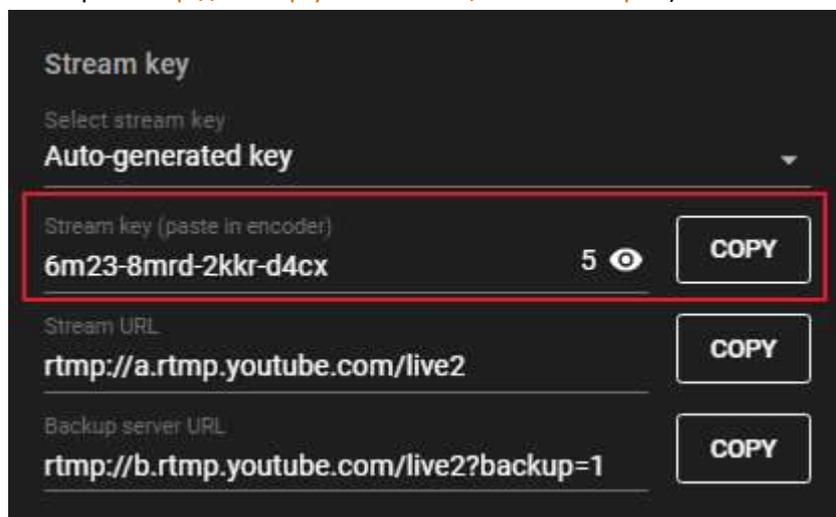
The screenshot shows the 'New stream' configuration window in YouTube Studio. It includes the following elements:

- Create a title**: A text input field.
- Public**: A dropdown menu set to 'Public'.
- Add a description**: A text input field.
- People & Blogs**: A dropdown menu.
- Schedule for later**: A toggle switch that is currently turned off.
- UPLOAD CUSTOM THUMBNAIL**: A button with an upload icon.
- Audience**: A section header.
- Is this video made for kids? (required)**: A question with a link to 'What's content made for kids?'. Below it are two radio buttons: 'Yes, it's made for kids' and 'No, it's not made for kids'.
- Age restriction (advanced)**: A section header.
- Do you want to restrict your video to an adult audience?**: A question with a link to 'Learn more'. Below it are two radio buttons: 'Yes, restrict my video to viewers over 18' and 'No, don't restrict my video to viewers over 18 only'.
- CREATE STREAM**: A blue button at the bottom right.

7. The following page will be opened:



8. Youtube will give you the **Stream url** (in example: <rtmp://a.rtmp.youtube.com/live2>), the **Backup server URL** (in example: <rtmp://b.rtmp.youtube.com/live2?backup=1>) and the **stream key**



(in example: [6m23-8mrd-2kkd-d4cx](#)).

9.

A. OPTION 1:

In **XPLAYOUT > IP STREAMING > IP OUTPUT** Type them in the following order and syntax:

"Stream url"/"stream key"

Your **IP OUTPUT** will be something like the link below:

<rtmp://a.rtmp.youtube.com/live2/6m23-8mrd-2kk-rd4cx>

B. OPTION 2:

In you **XPLAYOUT > IP STREAMING > IP OUTPUT** Type them in the following order and syntax:

"Backup Server URL"/"stream key"

Your **IP OUTPUT** will be something like the link below:

<rtmp://b.rtmp.youtube.com/live2?backup=1/6m23-8mrd-2kk-rd4cx>

10. After all streaming settings are finalized, click on start on your **XPLAYOUT > IP STREAMING**, the YouTube Studio **GOLIVE** streaming button turns blue after receive the streaming contents. Click it to start your YouTube channel live streaming.

It is recommended not to stream any movie without paying the related Screen Rights.

-if you need to encode a facebook stream-

The section **XPLAYOUT > IP STREAMING** could generate a compatible stream for the Facebook environment. If you are logged into your facebook page or account go to the following link to obtain an available streaming url of facebook:

www.facebook.com/live/create

Click on **CREATE LIVE STREAM**

Facebook will give you the **server url** (in example: <rtmps://live-api-s.facebook.com:443/rtmp/>) and the **streaming key** (in example: 10222167905456351?s_bl=1&s_sc=10222167906056366&s_sw=0&s_vt=api-s&a=AbyLjKv8wfzrNOPZ). In **XPLAYOUT > IP STREAMING > IP OUTPUT** Type them in the following order and syntax:

"server url"/"streaming key"

Your **IP OUTPUT** will be something like the link below:

rtmps://live-api-s.facebook.com:443/rtmp/10222167905456351?s_bl=1&s_sc=10222167906056366&s_sw=0&s_vt=api-s&a=AbyLjKv8wfzrNOPZ

After all streaming settings are finalized, click on start on your **XPLAYOUT > IP STREAMING**,

When you see your XPLAYOUT video on Facebook **CREATE LIVE STREAM** click here the Facebook **GO LIVE** button to start the **FACEBOOK LIVE POST**.

It is recommended not to stream any movie without paying the related Screen Rights.

**

the changes on the **Start local RTMP server mountpoint “live”** check will have effect only after PC reboot.

Below some interesting links for the Xplayout monitoring:

Rtmpserver web monitoring:

Stats at http://IP_of_the_x-playout_machine:9091

Instead of *IP_of_the_x-playout_machine* type the exact IP address of the PC in which XPLAYOUT is run.

RTMP stream web monitoring:

You can monitor the RTMP stream by the following link:

http://IP_of_the_x-playout_machine:9091/mediaserver/player/live/channel

Instead of *IP_of_the_x-playout_machine* type the exact IP address of the PC in which XPLAYOUT is run.

Instead of *channel* insert the someone previously set on rtmp streaming url in **XPLAYOUT > IP STREAMING > IP OUTPUT**

You can monitor the RTMP stream in Fullscreen mode by the following link:

http://IP_of_the_x-playout_machine:9091/mediaserver/fullscreen

Instead of *IP_of_the_x-playout_machine* type the exact IP address of the PC in which XPLAYOUT is run.

Activate **FLV** in the case of an old Adobe Flash Server

Activate **Old Auth** only in the case Flash Server needs user name and password.

SOME WORKING EXAMPLES:

Ex. UDP unicast encoder – <udp://192.168.0.1:1234> VLC decoder – <udp://@:1234> or <udp://127.0.0.1:1234>

Ex. UDP multicast encoder – <udp://239.0.0.1:1234> decoder VLC – <udp://@239.0.0.1:1234> or <udp://239.0.0.1:1234>

Ex. UDB multicast for DVB mux – udp://239.0.0.1:1234?pkt_size=1316 or udp://239.0.0.1:1234?pkt_size=188

Ex. RTMP <rtmp://url/mountpoint/channel> or with auth <rtmp://user:password@url/mountpoint/channel>

Ex. RTMP <rtmp://127.0.0.1/live/mychannel> <rtmp://trial:demostream@free.flashwebtown.com/trial/testxtv>

3.5.6 DEVICE MANAGER

The XPlayout DEVICE MANAGER is the powerful tool that allows you to monitorize the communication between your playout and all the external devices connected to the PC phisically (in example external VCRs connected through serial ports, Video Lines from Video Card, external GPI IN that controls the Playout, Hard Disks used as clip storage). DEVICE MANAGER could also be used to manage all the Video Lines contributions coming from URLs (rtmp, udp...).



| 1 | | Devices list | |
|---|--|--------------------------|--|
| 2 | | Display the Playout Info | |
| 3 | AV Device Info <i>This section is visible only in the case of HDR 1 device has been selected</i> | Main Path | Display the main path |
| | | Device Used | Display the used device |
| | | Video Format | Display the video format |
| | | Audio Format | Display the audio format |
| | | Audio Track | Display the audio track |
| | | Audio Channels | Display the audio channels |
| | | Drop Down Menu | Try set online: the playlist tries to put the clips on the air from the |

| | | |
|---|---|--|
| | | <p>main path, then if the attempt fails, the playlist returns to the backup path automatically, even if windows activate a search-loop avoiding a too long playout interruption.</p> <p>Set Offline: the playlist tries to play the clips from the backup. Once the clip was taken from the backup and not from the main path, the real backup path of the physical file would be displayed in red.</p> <p>This option allows you to test the main and backup exchange, in case, for any reason, the main path really and unexpectedly stops.</p> |
| |  | <p>statistics on the AV playout device previously set in the following menu SYSTEM SETTINGS> AUDIO / VIDEO> AV DEVICE</p> |
| |  | <p>statistics on the NDI stream that can be generated from the following check SYSTEM SETTINGS> AUDIO / VIDEO> NDI check</p> |
| |  | <p>statistics on the Web RTC web flow generated by the following check SYSTEM SETTINGS> AUDIO / VIDEO> WRTC: xxxxxxxxxxxx</p> |
| 4 | FLME – flash live media encoder | |
| 5 | XMusic rules manager | |
| | GPI IN Displayer | |
| 6 | <i>This section is visible only in the case of GPI1 device has been selected</i> | |

3.5.6.1 VCR MANAGER

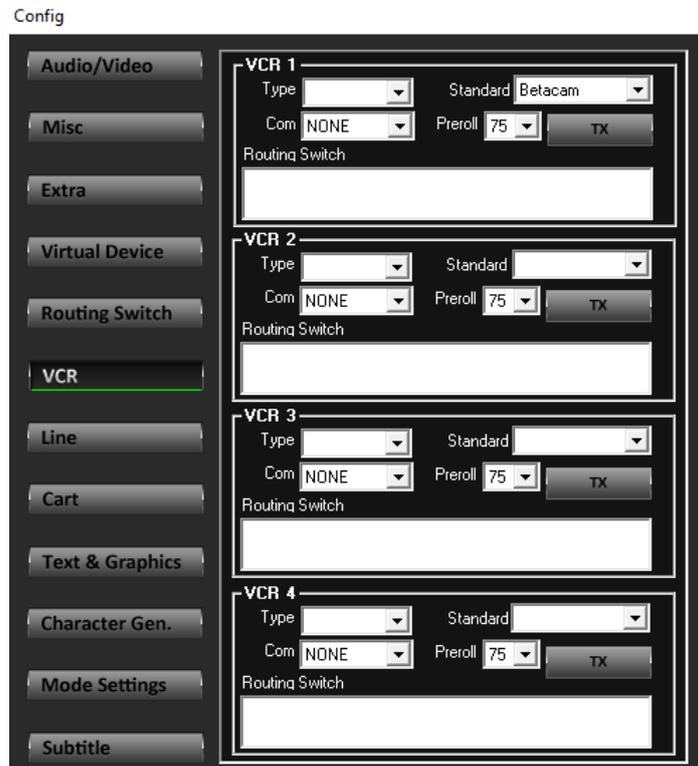
By selecting one VCR between all the 4 available, you can send them PLAY, STOP, ON LINE, TX commands:



| | |
|---|--|
| 1 | Select the desired VCR to which you want to send the command between the following ones |
| 2 | The Play command will be sent to the selected VCR. The VCR starts to play |
| 3 | The Stop command will be sent to the selected VCR. The VCR stops to play |
| 4 | The On Line command will be sent to the selected VCR. The VCR will be awaked by STANDBY mode |
| 5 | The TX command will play the selected VCR into XPlayout. |

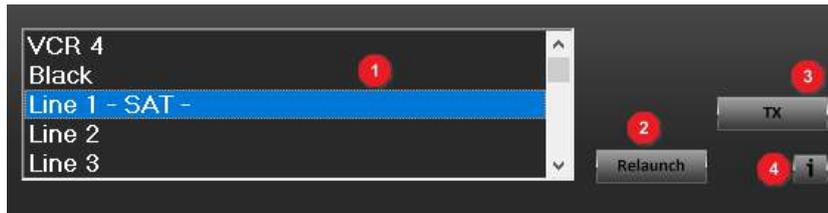
To manage all connection parameters with the external VCRs, please go in the following menu:

XPLAYOUT > SETTINGS > VCR



3.5.6.2 LINE MANAGER

It is possible to send onair one Line between availables.
 Select Black Line or one Line from 1 to 99.
 Black Line is a special line used as blank.



| 1 | Select the desired Line between Black and available Lines (Line1... Line 99) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|------|-------|-----------------|---|--------------|----------|-----------------|---|---------------------|---|----------------------|---|--------------------|---|-------------|---|-----------|---|-------------|---|--------------|---|------------|---|----------------|---|-------------------|---|------------------|---|--------------------|---|--------------------|---|--------------------|---|-------------------|---|----------------|------|------------------|--------|--------------------------|---|
| 2 | Relaunch reinitializes the input device or contribution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | The TX command will play the selected VCR into XPlayout. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | <p>This special info button will show you all realtime Info about the related AV Device or the related Streaming Url</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>Line Info 1</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr><td>stat:buffer_max</td><td>3</td></tr> <tr><td>stat:elapsed</td><td>0.022178</td></tr> <tr><td>stat:buffer_min</td><td>0</td></tr> <tr><td>stat:buffer_current</td><td>0</td></tr> <tr><td>stat:buffer_overflow</td><td>0</td></tr> <tr><td>stat:reset_counter</td><td>5</td></tr> <tr><td>stat:breaks</td><td>0</td></tr> <tr><td>stat:dups</td><td>0</td></tr> <tr><td>stat:pauses</td><td>0</td></tr> <tr><td>stat:skipped</td><td>0</td></tr> <tr><td>stat:added</td><td>5</td></tr> <tr><td>stat:tc_breaks</td><td>1</td></tr> <tr><td>stat:audio_breaks</td><td>0</td></tr> <tr><td>stat:time_breaks</td><td>0</td></tr> <tr><td>stat:time_over_200</td><td>0</td></tr> <tr><td>stat:time_over_166</td><td>0</td></tr> <tr><td>stat:time_over_133</td><td>1</td></tr> <tr><td>stat:time_less_50</td><td>1</td></tr> <tr><td>stat:signal_ok</td><td>true</td></tr> <tr><td>stat:output_type</td><td>buffer</td></tr> <tr><td>stat:den_thread_priority</td><td>0</td></tr> </tbody> </table> <p style="text-align: center;">OK</p> </div> | Name | Value | stat:buffer_max | 3 | stat:elapsed | 0.022178 | stat:buffer_min | 0 | stat:buffer_current | 0 | stat:buffer_overflow | 0 | stat:reset_counter | 5 | stat:breaks | 0 | stat:dups | 0 | stat:pauses | 0 | stat:skipped | 0 | stat:added | 5 | stat:tc_breaks | 1 | stat:audio_breaks | 0 | stat:time_breaks | 0 | stat:time_over_200 | 0 | stat:time_over_166 | 0 | stat:time_over_133 | 1 | stat:time_less_50 | 1 | stat:signal_ok | true | stat:output_type | buffer | stat:den_thread_priority | 0 |
| Name | Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:buffer_max | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:elapsed | 0.022178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:buffer_min | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:buffer_current | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:buffer_overflow | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:reset_counter | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:breaks | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:dups | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:pauses | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:skipped | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:added | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:tc_breaks | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:audio_breaks | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:time_breaks | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:time_over_200 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:time_over_166 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:time_over_133 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:time_less_50 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:signal_ok | true | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:output_type | buffer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| stat:den_thread_priority | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

To manage all connection parameters with the external VCRs, please go in the following menu:
XPLAYOUT > SETTINGS > Line



To set all the Input parameters click on **AV Input Device** and click on  button.

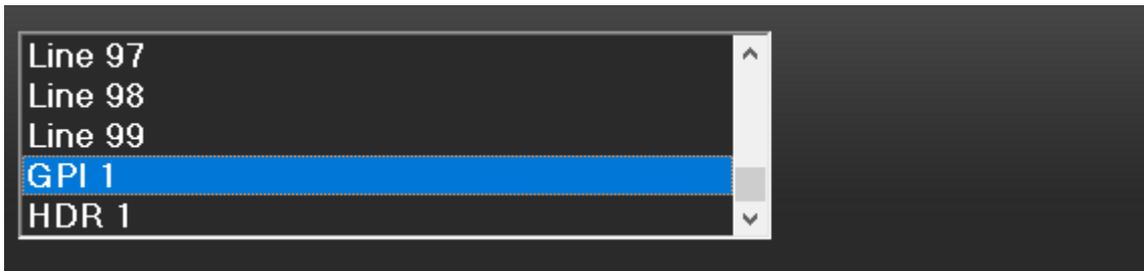
In this example we set as Video Device a received NDI Stream.

AV Input Device Config

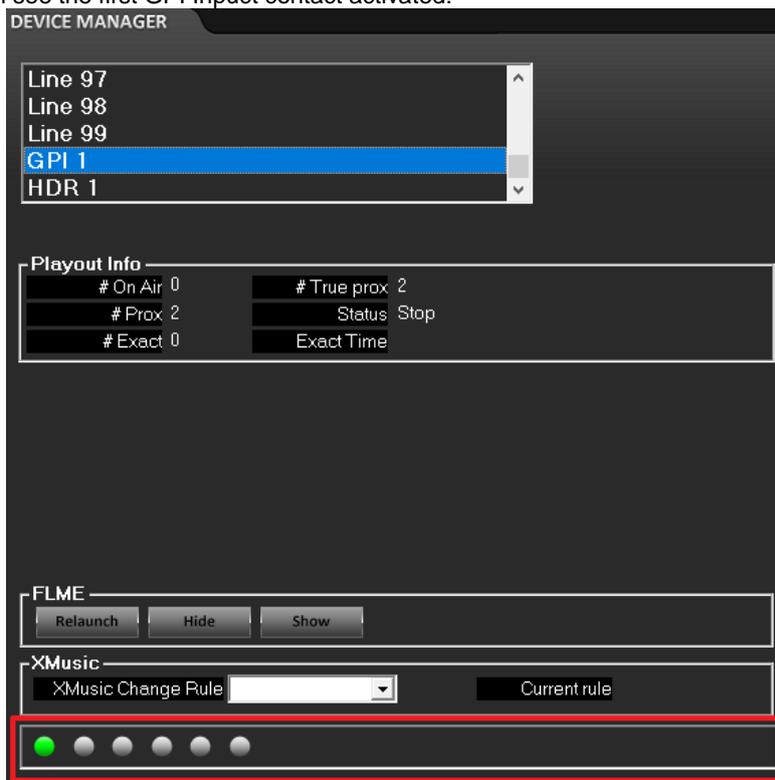


3.5.6.3 GPI IN DISPLAYER

By selecting GPI 1, you can monitor all the activated GPI Input contacts.

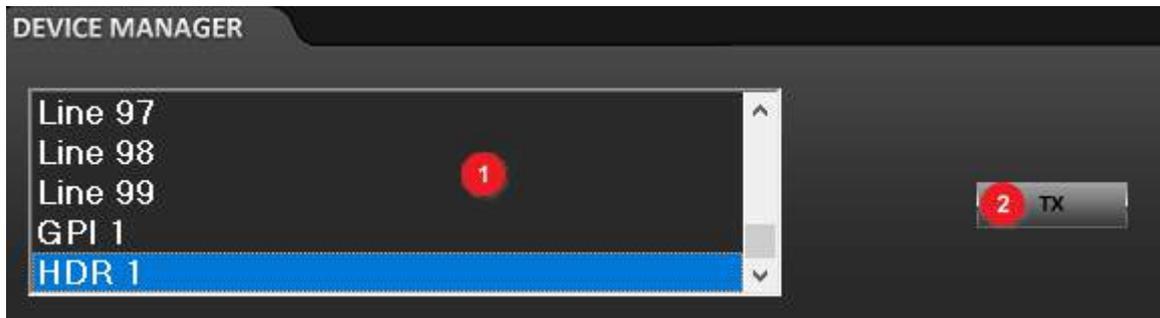


In this example you can see the first GPI Input contact activated:



3.5.6.4 HDR MANAGER

HDR 1 is the main AV output device of this current **XPLAYOUT** instance.



| | |
|----------|--|
| 1 | Select HDR 1 |
| 2 | Click on TX to start to play the media from the HDR 1 device |

This section is very important for monitoring the communications with the Hard Drives acting as media paths: the **MAIN**, the **BACKUP** and the **PREFERRED**.

The logic behind this device is settable by Media Paths in the menu:

XPLAYOUT > SETTINGS > MISC > MEDIA PATHS

You can set for 3 Media Paths:

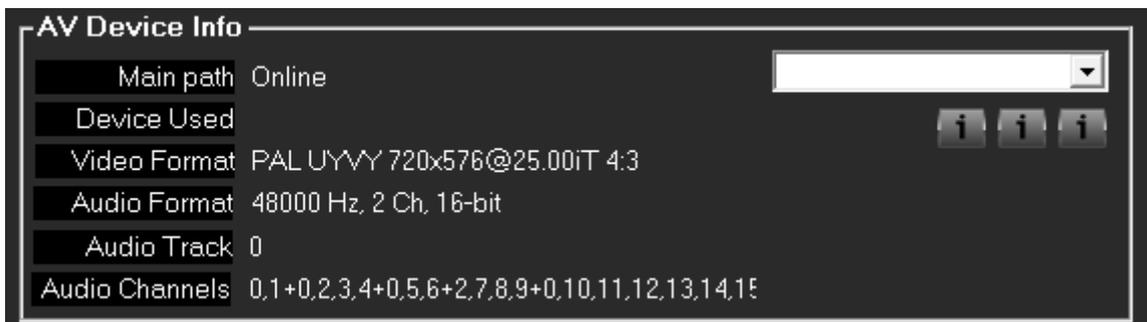
- **MAIN** path, usually a network path.
 - o If **Preferred** has not been set **Main** path has a first priority level
 - if **Backup** path has been set, it has a second priority level.
 - o If **Preferred** has been set, **Preferred** path has a first priority level
 - if **Main** path has been set it has a second level priority and **Backup** path has a third priority level.
 - If **Main** path has not been set Backup path has a second priority level.
- **BACKUP** path, usually a local path for emergency situations in case of Main path falling (red under running title)
- **PREFERRED** path, usually a local path. It has the most high priority between all the 3 paths. (yellow under running title) (if you have xmirror, we recommend to set only this)

The Playlist files in the playout are analyzed by this logic through a constant comparison between the **Main** and the **Backup** or the **Main** and the **Preferred** works online by comparing the most recent modification date.

If **Main** is **offline** and **Backup** is online: only the file name of the element in the playlist is considered because there is no modification date to check.

You can set them all: **Main**, **Backup** and the **Preferred**. XPlayout always prefers the **Preferred** one.

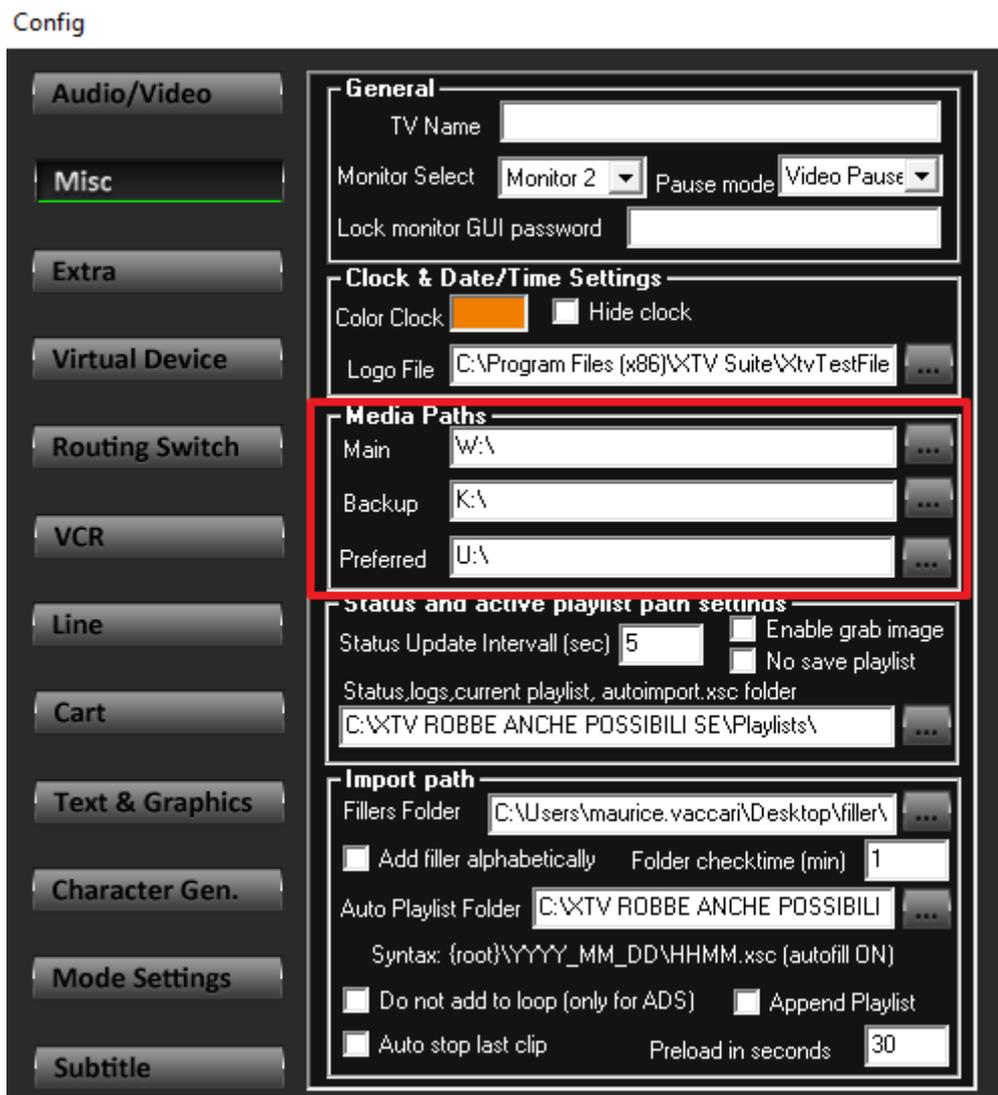
In the **DEVICE MANAGER > AV Device Info** menu you can read for different interesting info:



Main Path refers to the media paths or mapped drives of the clips. From **Main Path** you can see if it is **Online** or **Offline**. In the previous image you can see **Media Path** is **Online**.

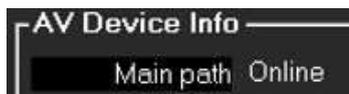
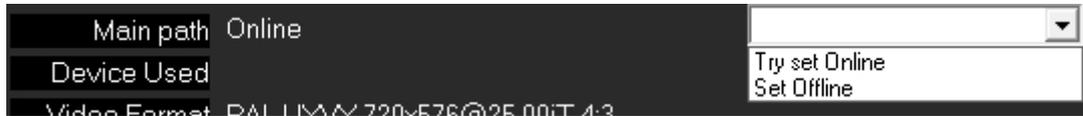
You can set them in the following

XPlayout > Settings > Misc > Media Paths redsquared area:



From the right dropdown menu you can make some test on your HDR 1 Media Path logic.
Try set Online: By choosing Try Set Online the XPlayout attempts to set the MAIN path Online again, in example after maintenance. If this attempt fails, XPlayout goes on with the BACKUP path without interrupting the Playout.

Set Offline: This choice is for testing purposes. If the Backup is available, by choosing Set Offline XPlayout simulates to disconnect the Main Path and goes on with the BACKUP path



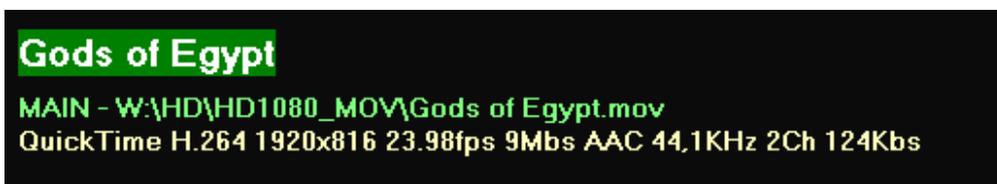
Here an example where Main Path is Online



Here an example where Main Path is Offline

Let's see how XPlayout communicates with the user which path is the current one:

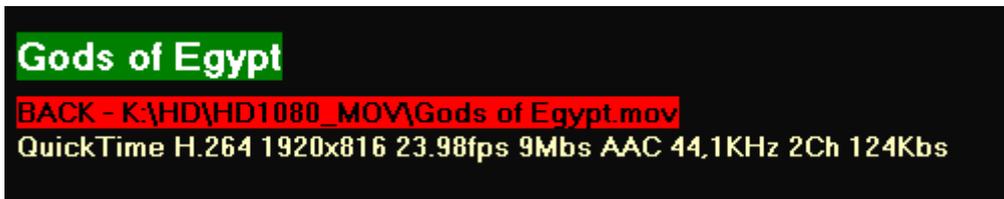
In the case below all is fine. The playlist line is reproduced straightly by the Media in the MAIN path (the path is green under running title):



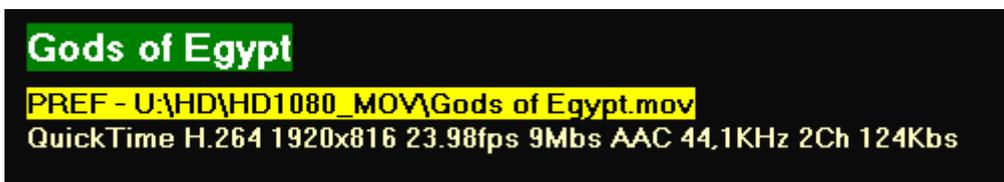
In the case below something strange happened to MAIN path. Main path is unreachable in the network and XPlayout automatically uses the related file in the Backup.
 (The Offline state of the Main path is communicated by an apposite alarm, in case of Backup activation the path turns red under running title):



In the case below the MAIN probably has not been set. XPlayout automatically uses the related file in the Backup.
 (In case of Backup activation the path turns red under running title):

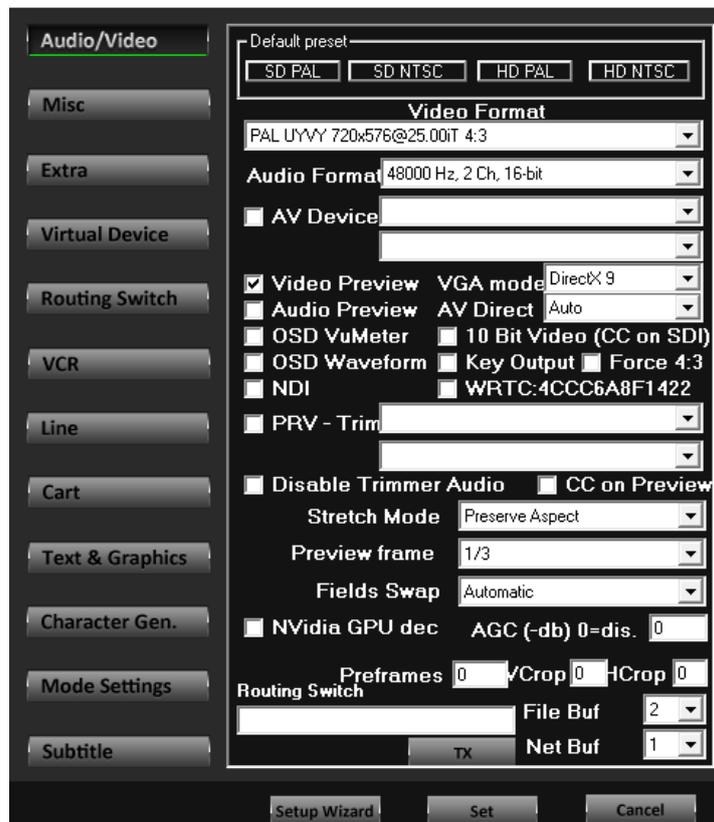


In the case below you set for a Preferred Path. Also in the case you also set for a MAIN path and BACKUP path, XPlayout automatically uses the related file in the Preferred path.
 (In case you set for Preferred, the path turns yellow under running title):



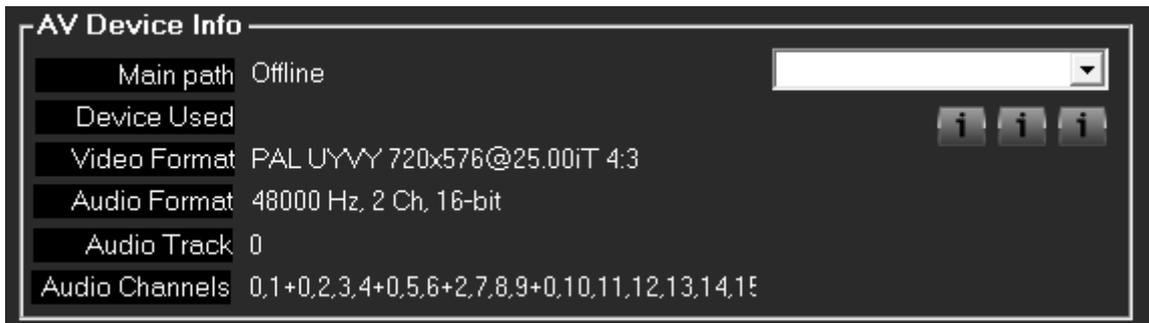
DEVICE MANAGER > AV Device Info > Device Used
DEVICE MANAGER > AV Device Info > Video Format
DEVICE MANAGER > AV Device Info > Audio Format

are all settable into the XPLAYOUT > SETTINGS > AUDIO/VIDEO submenu:
 Config



AUDIO TRACK / AUDIO CHANNELS

Audio Track and Audio Channels in the bottom of AV Device Info.



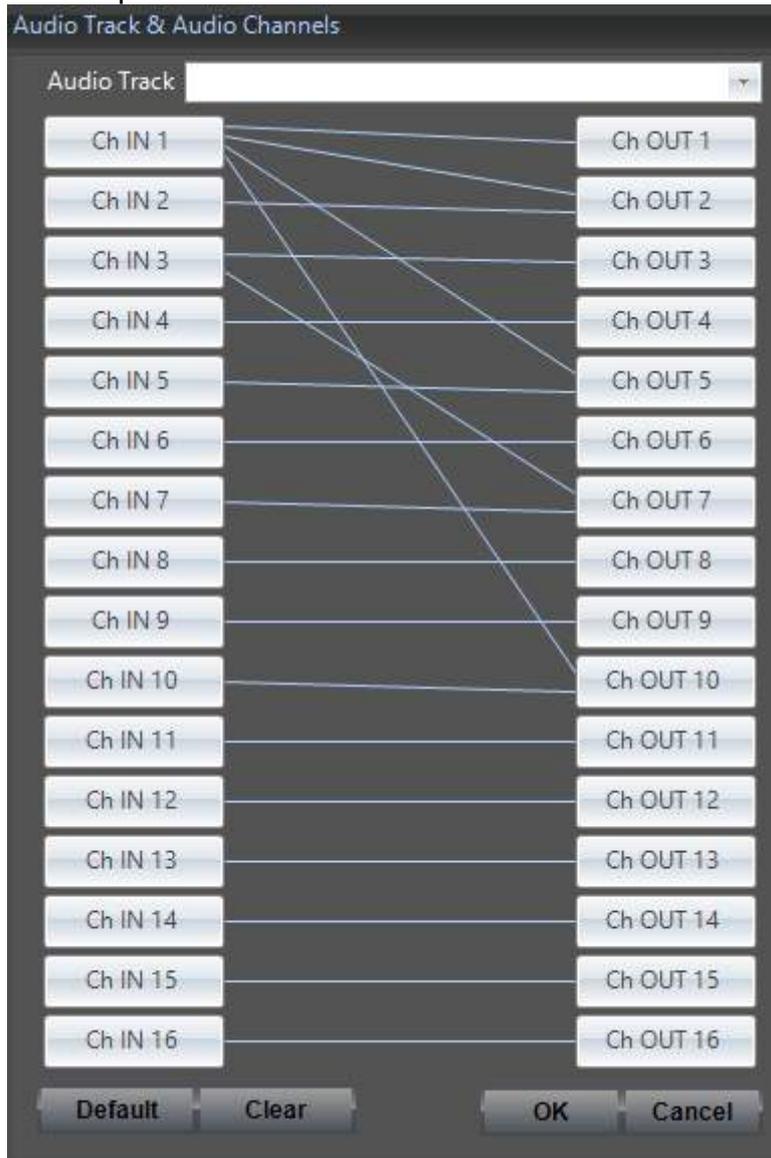
Audio Track describes the chosen language

Audio Channels describes the Audio Remapping settable in XTrimmer.

To change them, please open the desired file into XTrimmer and click the following button :



The following tab will be opened:



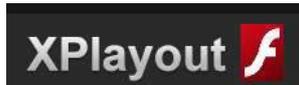
FLME (FLASH LIVE MEDIA ENCODER)



Flash Live Media Encoder is the predecessor of the XPLAYOUT > IPSTREAMING section. FLME is suitable for FLASH software technology (before the NDI or other more recent forms of web streaming protocols as WebRTC, RTMP...).. Windows itself has an integrated RTMP stream generator: ADOBE FLASH MEDIA LIVE ENCODER. ADOBE FLASH MEDIA LIVE ENCODER receives the XPlayout FLME stream and forward it to Flash Media Server for RTMP stream generator. The XPLAYOUT itself can be selected from the various sources of this ADOBE FLASH MEDIA LIVE ENCODER - RTMP stream. The stream will be exactly taken from the output of the XPLAYOUT. It will be possible to have a physical output on a video-card output channel, in the meanwhile it will be possible:

- to generate an IP STREAMING
- to generate a different RTMP through the Windows built-in ADOBE FLASH MEDIA LIVE ENCODER.

Relaunch relaunches the XPlayout Flash Live Media Encoder



Hide hides the background process in dos

Show shows the background process in dos

By opening **C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Adobe**

you can run the **Adobe Flash Media Live Encoder.exe**

into this Adobe environment will be possible to choose the desired stream by choosing **Encoding Option > Device > XPlayout**

Into

Encoding Option > FMS URL

Encoding Option > Backup URL

Encoding Option > Stream

you can manage all the URL Address targets of the Flash-RTMP stream:



In ADOBE FLASH MEDIA LIVE ENCODER press  button.

XMUSIC

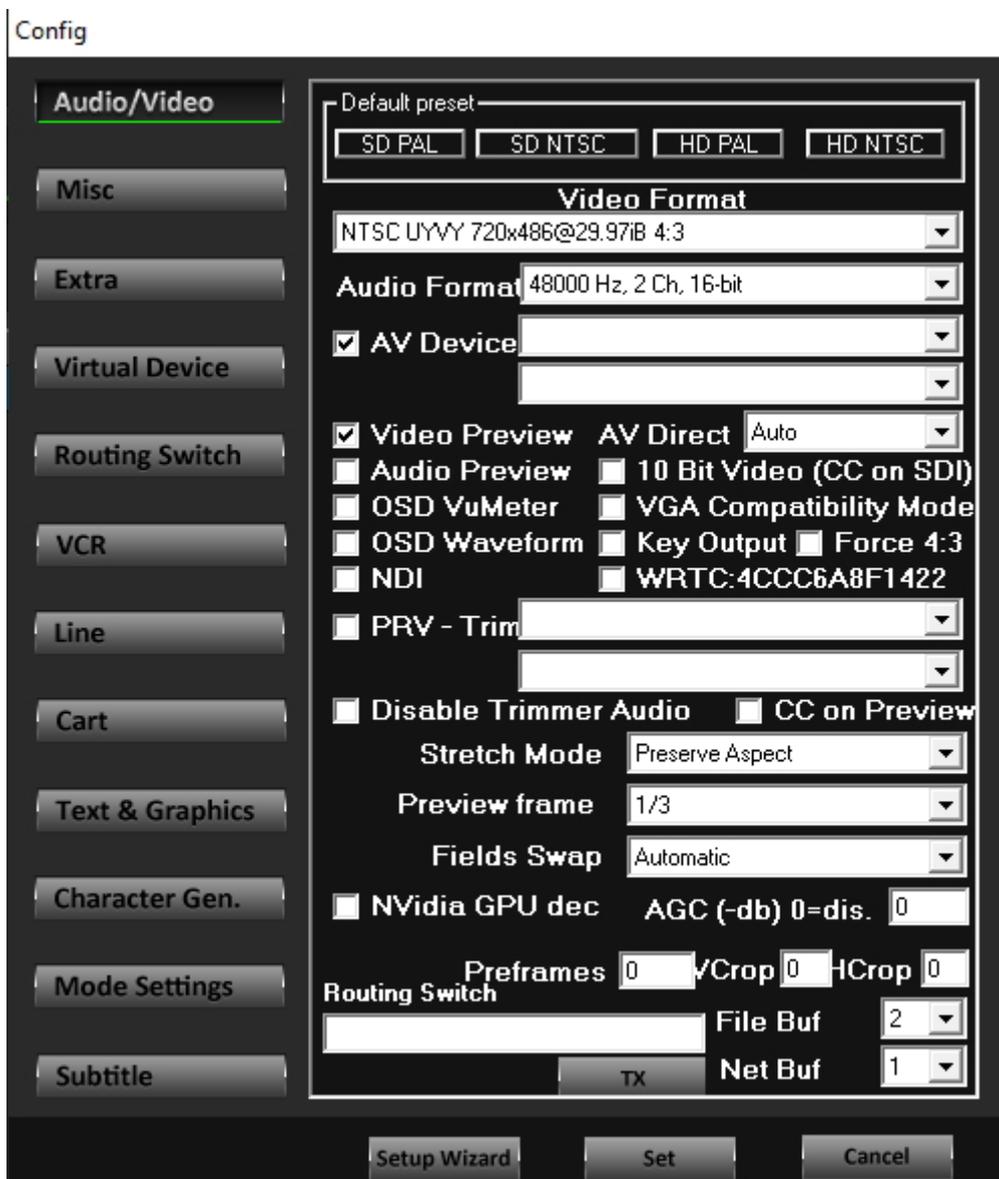


By opening the Drop-Down menu you can force the desired and available XMUSIC rule, otherwise, if nothing is selected the current XMUSIC rule will be applied by default.

3.5.7 SYSTEM SETTINGS

This section shows have all the system settings of the XPlayout

3.5.7.1 AUDIO/VIDEO

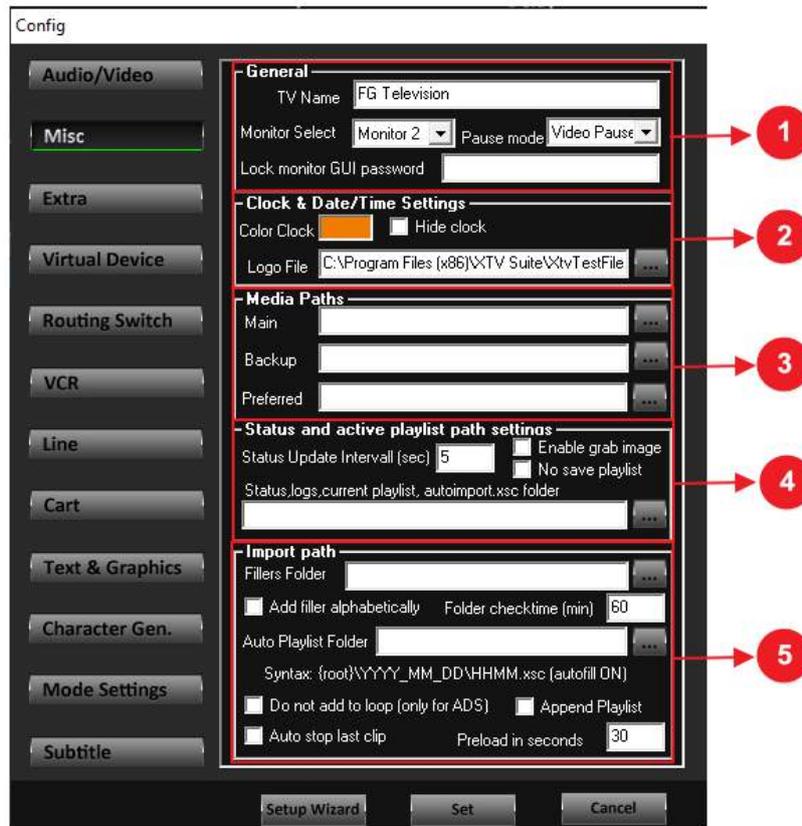


| | |
|-----------------------|--|
| DEFAULT PRESET | Between available default video standards, select the desired one |
| VIDEO FORMAT | Select the desired video format configuration. Each choosable line refer to: definition (4K, UHD, 2K, DCI, HD, SD) encoding system (in example NTSC or PAL) luminance, color spaces, color information (UYVY, YC) aspect ratio/resolution (16:9, 4:3, 256:135) framerate in fps(frame per seconds: 23.98, 24.00, 25.00 29.97, 30.00, 50.00, 59.94, 60.00) field order (progressive(p) or interlaced (i)) Field order direction (TOP (T) o BOTTOM (B)) |
| AUDIO FORMAT | Select the desired audio format configuration. Each choosable line refer to: sample rate (8000 Hz, 11025 Hz, 16000 Hz, 22050 Hz, 32000 Hz, 44100 Hz, 48000 Hz) Channels (1, 2, 4, 6, 8, 10, 12, 14, 16) |

| | |
|---------------------------------|--|
| | Audio bitrate (16-bit, 32-bit, 32-bit(float)) |
| AV DEVICE | By checking this parameter the playout video signal will be directed to the video card specified in the following explained drop-down AV VIDEO DEVICE menu |
| AV VIDEO DEVICE | Select the desired playout Video Card |
| AV VIDEO LINE | On the AV VIDEO DEVICE (Video Card) select the desired Video Line |
| VIDEO PREVIEW | Enable/Disable the Video on the Preview |
| AV DIRECT | Direct access to a Decklink video card. Use it only with specified decklink models. Do not enable this check if you have a Decklink Duo 2, Quad 2 and SDI 4K |
| AUDIO PREVIEW | Enable/Disable the Audio on the Preview |
| 10 BIT VIDEO (CC on SDI) | The CC displaying will be enabled also on every SDI outputs |
| OSD VUMETER | The audio Vumeter are shown On screen display on each preview. Top meter is audio left channel Bottom meter is audio right channel |
| VGA COMPATIBILITY MODE | VGA compatibility mode allows you to see the preview without any performant video card. |
| OSD WAVEFORM | The audio Waveform are shown On screen display in each preview |
| KEY OUTPUT | By enabling this parameter the xplayout output will be carried with alphachannel. |
| FORCE 4:3 | Independently by the previously set aspect ratio, the 4:3 one will be forced on xplayout outputs. |
| NDI | By checking this parameter you will start the NDI stream generation |
| WRTC: 4CCC6A8F1422 | WebRTC hexadecimal source code for the channel |
| PRV-TRIM | By checking this parameter the preview will be displayed using the video card specified in the following parameter PRV-TRIM VIDEO DEVICE |
| PRV-TRIM VIDEO DEVICE | Select the desired Video Card for the preview purpose |
| PRV-TRIM LINE | On the desired Video Card select the desired Video Line |
| DISABLE TRIMMER AUDIO | By checking this parameter you will disable the audio trimming |
| CC ON PREVIEW | If it is checked the subtitles will be displayed also on preview |
| STRETCH MODE | Preserve Aspect: the aspect ratio will be preserved in any resolution by adding two black bars above and below the image |
| | Preserve Aspect No Letterbox: the aspect ratio will be preserved in any resolution without adding two black bars above and below the image |
| | Stretch: stretch the video to the selected resolution without preserving the aspect ratio |
| PREVIEW FRAME | it is possible to select the frame rate relative to the clip previewing. You can choose between: Full 1/2 1/3 1/4 1/5 |
| FIELDS SWAP | In case of interlaced video signal with swapped field order is required, by checking this option you can swap it here |
| NVIDIA GPU DEC | Enable the CPU stress outload on the desired NVIDIA GPU |
| AGC (-db) 0 = dis. | Automatic Gain Control. Decibel value of Gain reduction. Type 0 to disable the Controller |
| PREFRAMES | Advance frame number in which a command is sent to an external matrix. Created to give you the chance to compensate any delay. |
| VCROP | Set the desired playout vertical crop |
| HCROP | Set the desired playout horizontal crop |
| ROUTING SWITCH | In this parameter the forwarding of the xplayout video signal to the related input and output channels of the ROUTING SWITCH (in example BLACKMAGIC ATEM) is managed. In the case of BLACKMAGIC ATEM the syntax is the following one:  analysis of the example (1,1) shown here: The first 1 regards the Routing Switch input line - number 1 (the maximum limit of the number that can be typed depends on the number of input lines available in the routing switch) The second 1 regards the Routing Switch output target - number 1 (the maximum limit of the number that can be typed depends on the number of available routing switch outputs) in the middle of the two digits it is necessary to put a comma to separate the inputs from the outputs |

| | |
|-----------------|--|
| | |
| FILE BUF | A file is constantly buffered by the milliseconds entered in this parameter. In the event of a network problem, this buffering allows the file to continue playing for a number of milliseconds equal to this parameter. Then, there is the interruption of playback until the restoration of network communication. |
| NET BUF | What comes from an input URL or LINE is constantly buffered by the milliseconds entered in this parameter. In case of a network problem, this buffering allows to continue the playback of the input URL or LINE for a number of milliseconds equal to this parameter. Then, there is the interruption of playback until the restoration of network communication. |

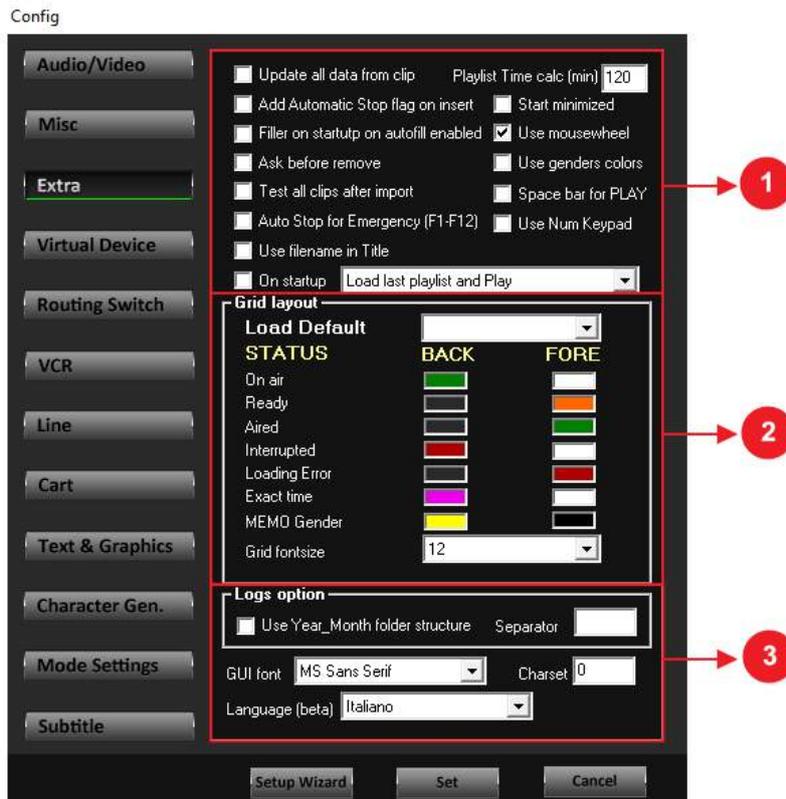
3.5.7.2 MISC



| | | | |
|---|--|---|--|
| 1 | GENERAL | TV NAME | Edit the name of the tv station |
| | | MONITOR SELECT | Select the output monitor |
| | | PAUSE MODE | Select the pause mode |
| | | LOCK MONITOR GUI PASSWORD | Configure the password for the monitor GUI |
| 2 | CLOCK & DATE/TIME SETTINGS | COLOR CLOCK | Edit the color of the clock |
| | | HIDE CLOCK | Enable/Disable the clock |
| | | LOGO FILE | Shows the path of the desired logo file |
| 3 | MEDIA PATHS | MAIN | Select the remote path |
| | | BACKUP | |
| | | PREFERRED | Select the Local Path |
| 4 | STATUS AND ACTIVE PLAYLIST PATH SETTINGS | STATUS UPDATE INTERVAL(SEC) | Set the status update interval and the folder for emergency |
| | | ENABLE GRAB IMAGE | Enable/Disable Grab image |
| | | NO SAVE PLAYLIST | Enable/Disable no save |
| | | STATUS, LOGS, CURRENT PLAYLIST, AUTOIMPORT.XSC FOLDER | Define a different path for logs and backup status of the playlist |
| 5 | IMPORT PATH | FILLERS FOLDER | Select the path of the filler folder |
| | | ADD FILLER ALPHABETICALLY | Enable/Disable add filler alphabetically |
| | | FOLDER CHECKTIME (MIN) | Set the time between a folder check and the next one |
| | | AUTO PLAYLIST FOLDER | Select the playlists automatic path |

| | | | |
|--|--|---------------------------------------|---|
| | | DO NOT ADD LOOP (ONLY FOR ADS) | Enable/Disable option for not to loop ads |
| | | AUTO STOP LAST CLIP | Enable/Disable the auto stop last clip function: if it is enabled the last clip would be immediately stopped and the imported path will be immediately played |
| | | PRELOAD IN SECONDS | It is possible to specify here the seconds of clip preload |

3.5.7.3 EXTRA



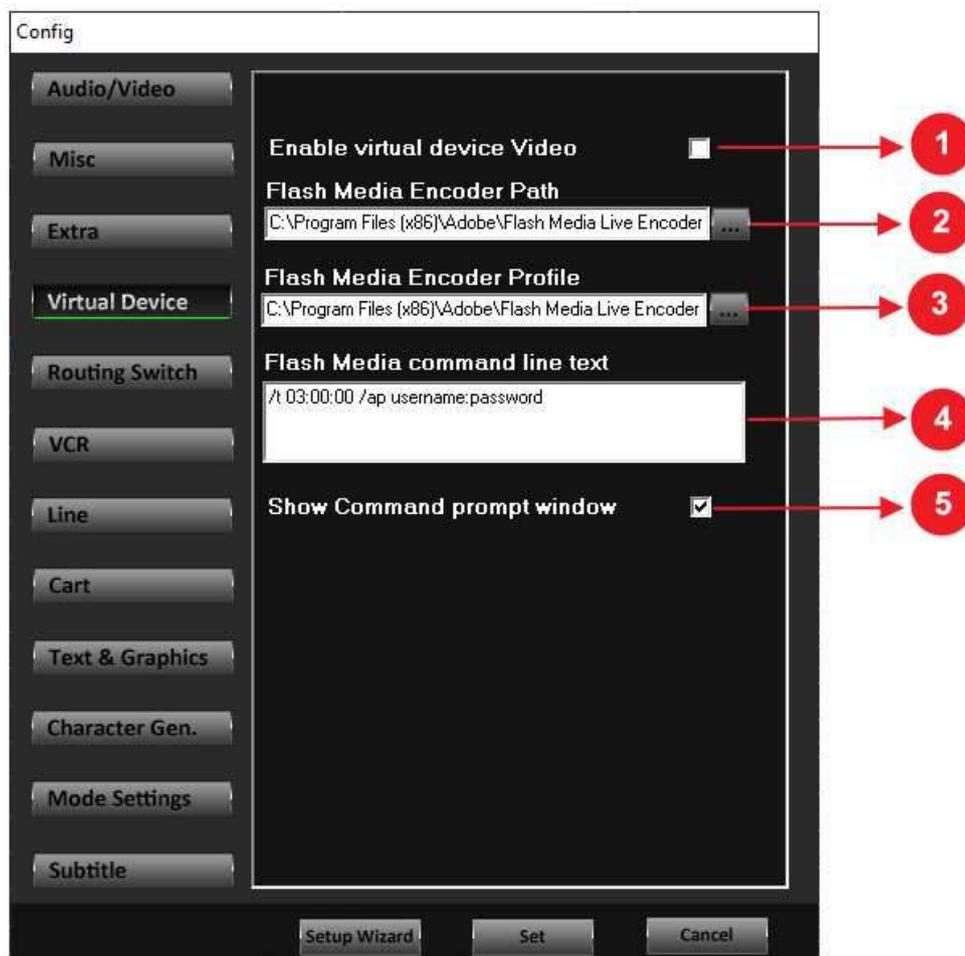
| | | |
|---|--|--|
| 1 | Update all data from clip | Enable/Disable update all data on clip |
| | Playlist Time calc (min) | Type in this parameter every how many minutes you want to check the total length of the current playlist. This also affects the home page parameter: PLAYLIST REMAIN. |
| | Add automatic Stop flag on insert | <p>Enable/Disable the automatic Stop flag on insert. whenever any new clip is added to the current playlist, the EDIT CLIP> AUTO STOP parameter is automatically set in it. The airing of the playlist will then go into manual mode. Filler clips are excluded from this rule. The edited clip will be marked with the letter V as described by the following image:</p> |
| | Start minimized | Enable/Disable to start XPLAYOUT minimized |
| | Filler on startup on autofill enabled | In the case of Autofill button enabled, this check Enable/Disable the filler playback at the XPlayout startup |
| | Use mousewheel | Enable/Disable the use of the mousewheel to scroll the current playlist files |
| | Ask before remove | Enable/Disable to confirmation before clip or playlist removing |
| | Use genders colors | Enable/Disable to display the previously set genders colors |
| | Test all clips after import | Enable/Disable to test all clips after import |
| | Space bar for PLAY | Enable/Disable to use Space bar for play and stop |

| | | | |
|---|---|--|--|
| | Auto Stop for Emergency (F1-F12) | | Enable/Disable to stop the current clip on air and by clicking a key from F1 to F12 it will be possible to air the previously associated emergency clip. To associate keys to the desired clips go into EMERGENCY section. |
| | Use Num Keypad | | <p>Enable/Disable to stop the current clip on air and by clicking a key from 1 to 9 (of the Num pad / Key pad) it will be possible to air the previously associated emergency clip. To associate Keypad Numbers to the desired clips go into the EMERGENCY SECTION.</p> <p>F1 is the same of 1 (NumPad) F2 is the same of 2 (NumPad) F3 is the same of 3 (NumPad) F4 is the same of 4 (NumPad) F5 is the same of 5 (NumPad) F6 is the same of 6 (NumPad) F7 is the same of 7 (NumPad) F8 is the same of 8 (NumPad) F9 is the same of 9 (NumPad)</p> |
| | Use filename in Title | | Enable/Disable to display the filename in the Title column of the XPlayout grid |
| | On startup | | Enable/Disable to decide the XPLAYOUT behaviour at the software startup. Available choices are following ones: |
| 2 | Grid Layout | <p>Load Default</p>  | <p>Select the preferred colors to customize the grid layout (back and fore) and the grid font size in the Grid Layout section bottom.</p> <p>2 available default grid layouts are available into Load Default parameter.</p> |
| 3 | Logs option | Use Year_Month folder structure | Allow to create a special logs storage into folder structures. Each folder groups all the logs of a month of the year (for january in example the folder name will be 01_2020). Into this month folder you can find different .csv log file. Each log file is associated with a day of the folder month. |
| | | Separator | XPLAYOUT logs are collected together in .csv format files (usually openable via excel or similar programs). In the generation of these .csv files, the usual functionality of separator between excel cells is considered: when the separator appears between characters (the separator depends on the language, usually it is the semicolon for the english language) the following characters are placed in the next column cell of the same row. To avoid this, separator XPLAYOUT function allows you to avoid the automatic column change by replacing all the occurrences of the separator configured on excel with the underscore (_). In this parameter, if desired, please specify which separator is configured on your excel. XPlayout logs creator will avoid to change the column in the file thus created. |
| | GUI font | Select the desired font to use allover your XPlayout GUI | |

| | |
|------------------------|--|
| Charset | Code page number associable with language encoding charset. International feature that allows you to display Xplayout GUI into a desired language. Each choosable language of the following parameter could have more than one available charset. Type here the related code page number for the desired language to select the exact desired charset. |
| Language (beta) | Choose the GUI language |

3.5.7.4 VIRTUAL DEVICE

In this section all the parameters related with the Flash Media Encoder could be set. If a Flash Media Encoder is installed in your PC the XPlayout could be forwarded to it by following parameters. Then the encoded Flash Media stream could be viewed by any available Flash Media player.



| | |
|----------|---|
| 1 | Enable/Disable the virtual device Video. The activation of this check allow you to generate a forward your XPlayout output to an external Flash Media Encoder |
| 2 | Default Flash Media Encoder Path |
| 3 | Between the available ones select which Flash Media Encoder Profile you prefer |
| 4 | Add additional parameters in the Flash Media command line text |
| 5 | This check allows you to Show Command prompt window |

3.5.7.5 ROUTING SWITCH

From this section the communication with a connected Routing Switch could be managed.

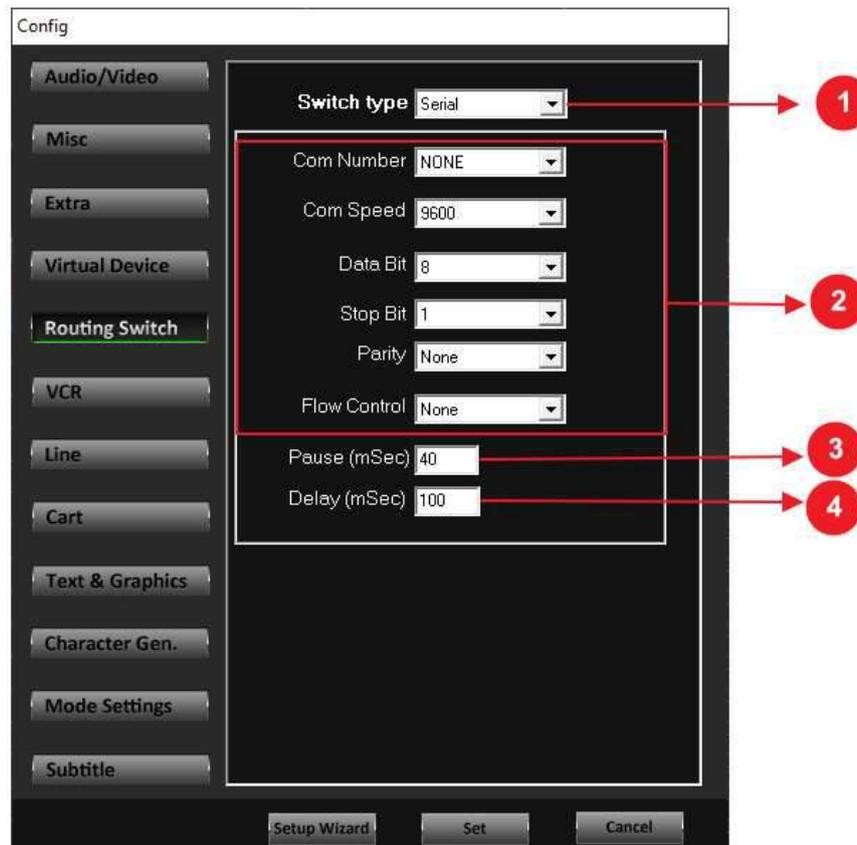
The Routing Switch is a device with Video Lines in input and different outputs at which the inputs could be routed to. This section could be very useful to set the communication between the Routing Switch (Video Mixer, Master Control) and the XPlayout.

By a specified syntax the Xplayout output could be routed to an input/output of the Routing Switch.

Any Video Lines of the Routing Switch could be inserted as Live Broadcasts into your XPlayout playlist.

The Switches could be Serial, Blackmagic, Blackmagic ATEM, Tricaster, VMIX, XTV Suite - XRouter by Axel Technology.

SWITCH TYPE – SERIAL



| | |
|----------|---|
| 1 | <p>Set the serial port</p> <p>Configure the Serial Port</p> <ul style="list-style-type: none"> - COM NUMBER: define the com port at which the serial switch is connected. - COM SPEED: here you can specify the desired baud rate in bps (bits-per-second) - DATA BIT: here you can define how many data are included in a single bit. - STOP BIT: define the last bit of a serial data packet for the best synchronization purpose. - PARITY: set the parity check executed on the bits sequence. <ul style="list-style-type: none"> ▪ By choosing None any parity check is executed ▪ By choosing Odd a check will be performed on the bits with the value of 1 Returned parity is 0 if the counted 1 are odd. Returned parity is 1 if the counted 1 are even. ▪ By choosing Even a check will be performed on the bits with the value of 1 Returned parity is 0 if the counted 1 are even. Returned parity is 1 if the counted 1 are odd. |
| 2 | |

| | |
|----------|---|
| | <ul style="list-style-type: none"> ▪ By choosing Pointer the returned parity will always be 1. ▪ By choosing Space the returned parity will always be 0. <p>- FLOW CONTROL:</p> <p>flow control signals are always sent in a direction opposite to the flow of data which they control.</p> <p>Select Hardware in case of hardware check.</p> <p>Select XON/XOFF to implement the flow control on both receive and transmit sides.</p> |
| 3 | If desired set here the Milliseconds of pause in the serial data transmission. |
| 4 | If desired set here the Milliseconds of delay in the serial data transmission. |

SWITCH TYPE – XROUTER

XRouter is an Axel Technology application for the management of an external Video Switch (IP reachable or connected to a Pc serial port)
 If the Video Switch has a serial connection (RS-232, RS-422) it could be connected with a desired PC and XRouter software could be installed on it.

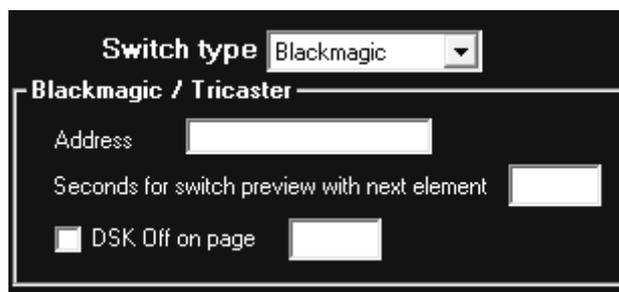
By selecting XRouter in **Switch Type** it is possible to define the XRouter PC IP Address (Private or public. Private is recommended) in **Address** parameter.

XRouter could receive multiple **XPlayouts** and it provides to separate and to route all of these different signals on the desired serial Video Switch input lines and video outputs.



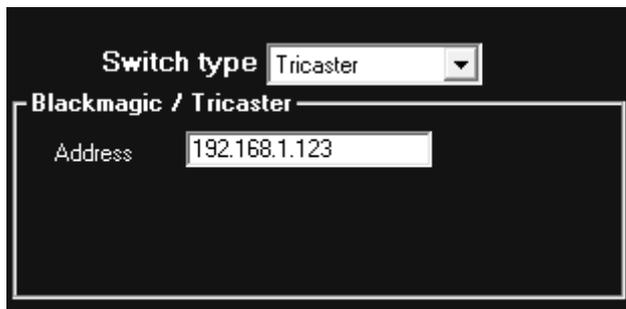
SWITCH TYPE – BLACKMAGIC – BLACKMAGIC ATEM

In case of Black Magic Switcher here the configurable parameters for the remote connection with it

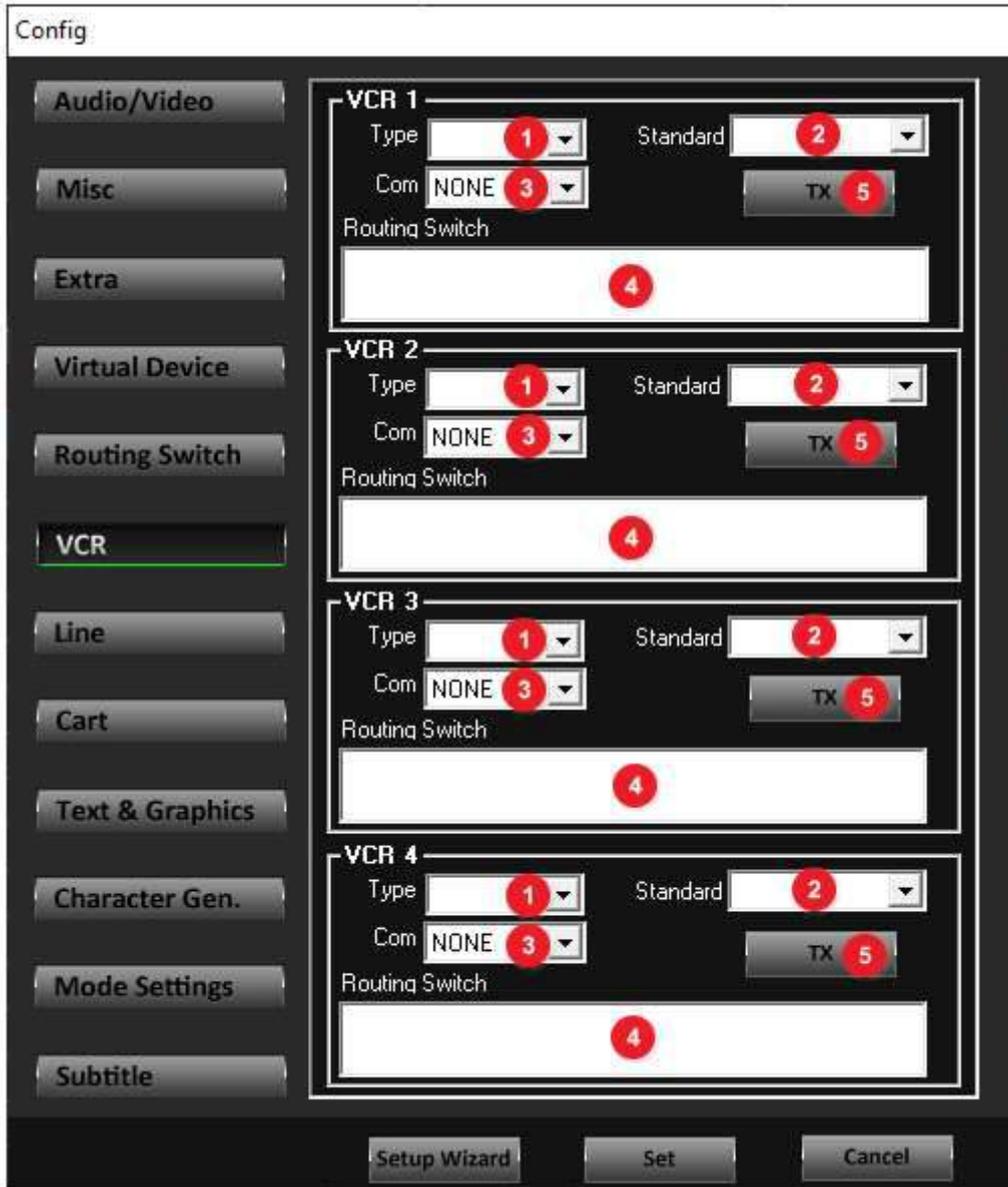


SWITCH TYPE – TRICASTER

In case of Tricaster Switcher here the configurable IP **Address** for the remote connection with it



3.5.7.6 VCR



| | |
|----------|---|
| <p>1</p> | <p>Set the desired VCR TYPE for the selected VCR (1, 2, 3 or 4). Choosable Types are the following ones:</p> <p style="text-align: center;">VP9000 UVW1200 SONY422</p> |
| <p>2</p> | <p>Set the desired VCR STANDARDS for the selected VCR (1, 2, 3 or 4). Choosable Standards are the following ones:</p> <p style="text-align: center;">UMatic Betacam</p> |
| <p>3</p> | <p>Set the serial desired VCR SERIAL PORT for the selected VCR (1, 2, 3 or 4). Choosable Port numbers:</p> <p style="text-align: center;">from 1 to 16</p> |

| | |
|-----------------|--|
| | <p>If the VCR is connected to the previously set SWITCH (in Routing Switch in SYSTEM SETTINGS > ROUTING SWITCH tab and the Routing Switch parameter in the section: SYSTEM SETTINGS > LINE) here you can specify the related VCR input and output through the previously explained routing switch syntax.</p> <p style="text-align: center;">-To use this field, some syntax rule has to be known-</p> <p>All characters that you want to send to the switch must be separated by the comma.</p> <p>Each single character can be written in 3 ways</p> <ul style="list-style-type: none"> • As a character enclosed by “ ” • As an Hexadecimal number preceded or followed by the letter H • As a decimal number <p>You can also add 2 type of pause (you can set the time for each pause inside the switch menu in t window)</p> <ul style="list-style-type: none"> • Short with the character P • Long with the character D <p>4</p> <p>EXAMPLE: "hello" + <CR> can be written: "hello",13 or 104,101,108,108,111,13 or 68h,65h,6Ch,6Ch,6Fh,0Dh P= Pause D= Delay Example: 32H, 33H, P, "hello", D, 13</p> <p>PRACTICAL EXAMPLE: Matrix SIERRA syntax → 42,42,89,"output",44,"input",33,33 Input → one of the input of your matrix Output → one of the output of your matrix</p> <p>For Blackmagic Videohub's users:</p> <ul style="list-style-type: none"> • Syntax: input, output, input, output etc... <p>PRACTICAL EXAMPLE: 1,3,4,8</p> |
| <p>5</p> | <p>It is possible to test the communication between the xplayout and the desired VCR. Click TX to start the text</p> |

3.5.7.7 LINE



The LINE section is useful for broadcasting live signals from routing switchers or integrated cards.

Here you can define the settings for the individual LINES to be used.

The special LINE 0 is designed to replace the classic black.

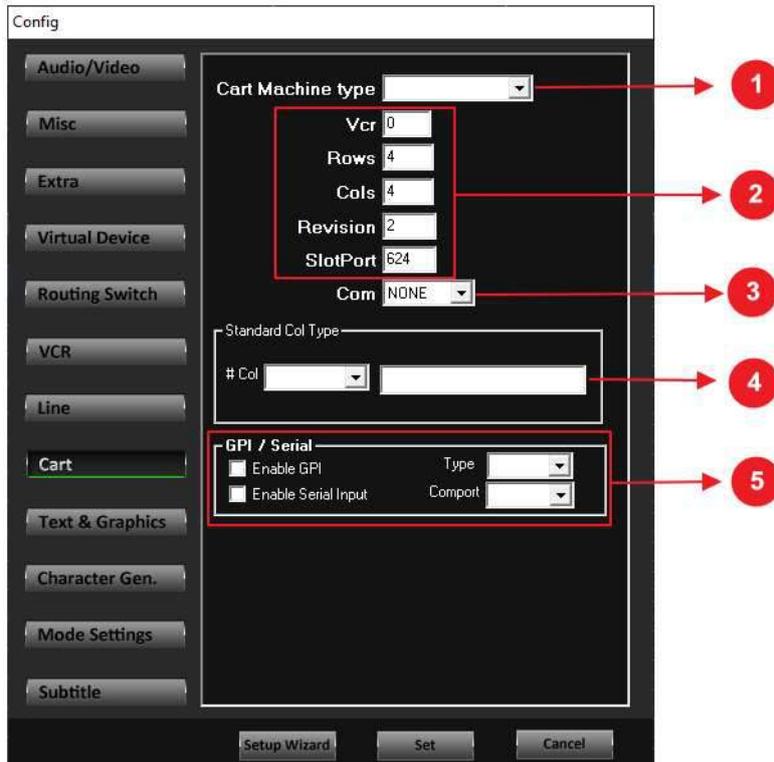
The other lines can be associated with a desired video channel among those entering the associated routing switch or other AV input devices, such as the integrated board of the same XPLAYOUT PC.

In this window, you define all the routing paths related to all the live sources incoming in the routing switcher. Option allows the automation to fully control the routing switcher.

| | |
|-----------------------|--|
| Select Line | decide on which available line (from 0 to 98) you want to make changes |
| Name | useful and customizable label for a fast recognition of the selected line |
| URL or file | type the URL or the file you want to re-stream instead of black background |
| URL parameters | if needed, type here other useful Url parameters as USERNAME and PASSWORD in case of old FLV servers |
| Routing Switch | into this parameter is placed the communication with the connected Routing Switch of the ROUTING SWITCH chapter of this user manual. -To use this field, some syntax rule has to be known- |

| | |
|--------------------------------|---|
| | <p>All characters that you want to send to the switch must be separated by the comma.</p> <p>Each single character can be written in 3 ways</p> <ul style="list-style-type: none"> • As a character enclosed by “ ” • As an Hexadecimal number preceded or followed by the letter H • As a decimal number <p>You can also add 2 type of pause (you can set the time for each pause inside the switch menu in the config window)</p> <ul style="list-style-type: none"> • Short with the character P • Long with the character D <p>EXAMPLE: "hello" + <CR> can be written: "hello",13 or 104,101,108,108,111,13 or 68h,65h,6Ch,6Ch,6Fh,0Dh P= Pause D= Delay Example: 32H, 33H, P, "hello", D, 13</p> <p>PRACTICAL EXAMPLE: Matrix SIERRA syntax → 42,42,89,"output",44,"input",33,33 Input → one of the input of your matrix Output → one of the output of your matrix</p> <p>For Blackmagic Videohub's users:</p> <ul style="list-style-type: none"> • Syntax: input, output, input, output etc... <p>PRACTICAL EXAMPLE: 1,3,4,8</p> |
| <p>Image</p> | <p>type the file path of the desired image associated with the black page in this dedicated field or through the  button browse into your folders to select it.</p> |
| <p>Default duration</p> | <p>for each line type select the desired default airing duration.</p> |

3.5.7.8 CART

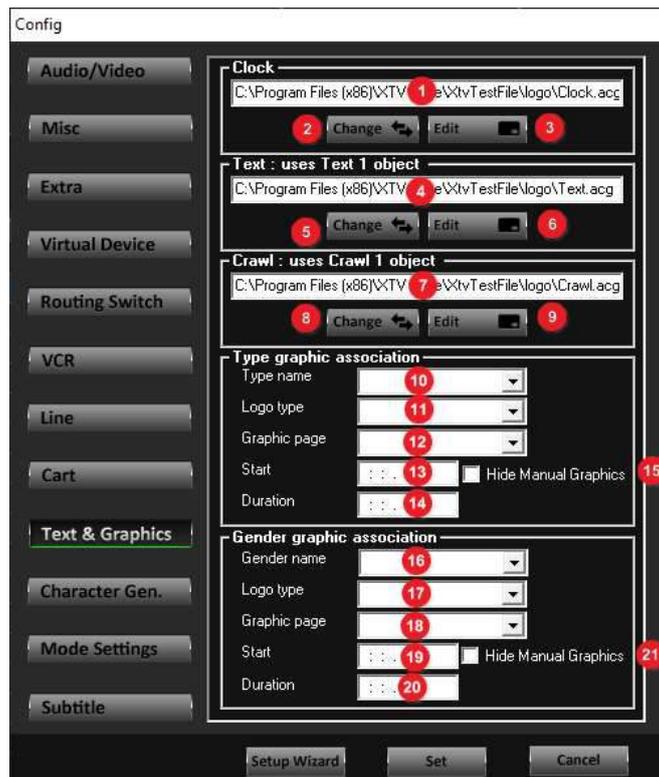


| | | | |
|----------|---|----------------------------|--|
| 1 | Cart machine type | | |
| 2 | Cart machine parameters: VCR = VCR number ROWS = rows number COLS = column numbers REVISION = revision number 1 or 2 SLOT PORT = library communication port | | |
| 3 | Serial port number for the communication between VCR with PC | | |
| 4 | For each vcr inside the cart, select the Col type | | |
| 5 | GPI/Serial | ENABLE GPI | Enables / Disables the serial input. If you enable gpi, you have to set COM port, by COMPORT parameter. |
| | | ENABLE SERIAL INPUT | Enables / Disables Serial Input. The communication with the external serial device will be enabled. The Playout can control this external device by the serial port selected in Comport parameter |
| | | TYPE | If Enable GPI is checked here you have to select the |

| | | |
|--|----------------|---|
| | | GPI Card Chipset Type |
| | COMPORT | Select the serial comport of the connected serial device. |

3.5.7.9 TEXT & GRAPHICS

In this panel it is possible to set font, size, colour and position of the fixed elements: Clock, Text and Crawl text.

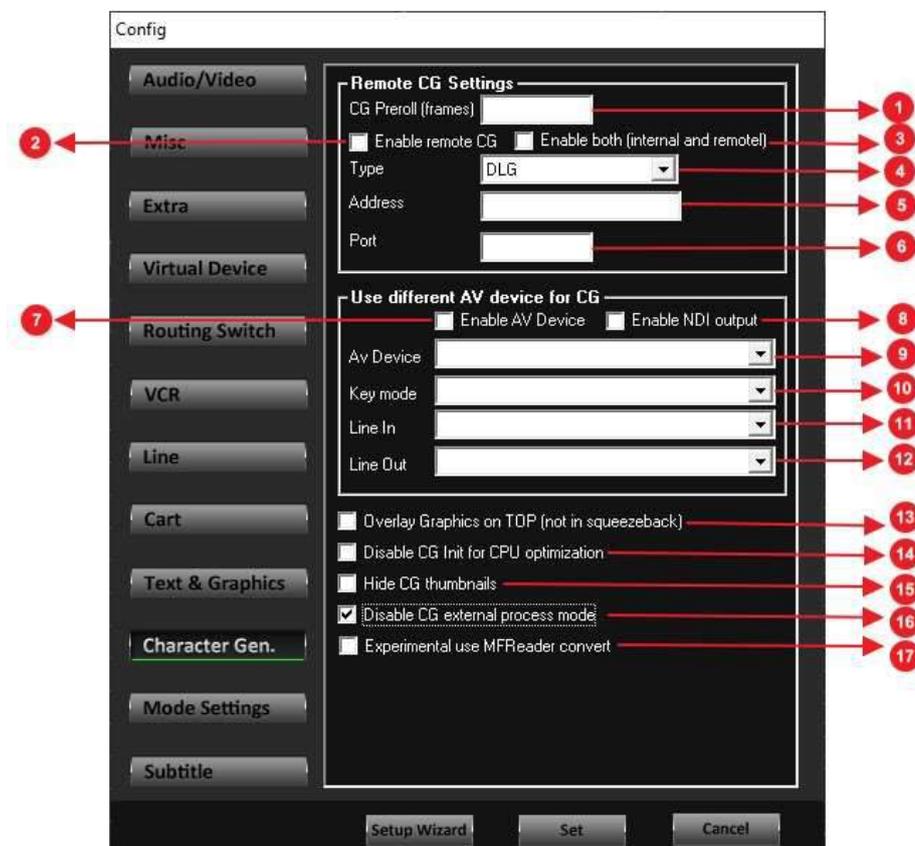


| | | | |
|------------------------------------|----|-----------------------------|--|
| <i>Clock</i> | 1 | File Path | Default path of the default .acg clock file |
| | 2 | Change File | Click this button to change the clock file |
| | 3 | Edit File | Click this button to directly edit the .acg source file for the clock through the CGCOMPOSER environment |
| <i>Text : uses Text 1 object</i> | 4 | File Path | Default path of the default .acg text file |
| | 5 | Change File | Click this button to change the text file |
| | 6 | Edit File | Click this button to directly edit the .acg source file for the text through the CGCOMPOSER environment. |
| <i>Crawl : uses Crawl 1 object</i> | 7 | File Path | Default path of the default .acg crawl file |
| | 8 | Change File | Click this button to change the crawl file |
| | 9 | Edit File | Click this button to directly edit the .acg source file for the crawl through the CGCOMPOSER environment |
| <i>Type graphic association</i> | 10 | Type name | Choose between available type names. Choosable options are configurable into XTRIMMER |
| | 11 | Logo type | Choose between Logo In, Logo General and Logo Out |
| | 12 | Graphic page | Select between available Graphic pages. |
| | 13 | Start | Start Time |
| | 14 | Duration | Duration Time |
| | 15 | Hide Manual Graphics | Hide Manual Graphics |
| <i>Gender graphic association</i> | 16 | Gender name | Choose between available gender names. Choosable options are configurable into XTRIMMER |
| | 17 | Logo type | Choose between Logo In, Logo General and Logo Out |
| | 18 | Graphic page | Select between available Graphic pages |
| | 19 | Start | Start Time |
| | 20 | Duration | Duration Time |
| | 21 | Hide Manual Graphics | Hide Manual Graphics |

3.5.7.10 CHARACTER GEN

This panel is for setting up the connection with DLG Plus or other logo generator. In the Address field it has to be inserted the IP or name of the PC with DLG Plus installed, and in port the communication port with DLG Plus (usually 202).

On DLG Plus you can define up to 99 templates that can be automatically managed by the automation



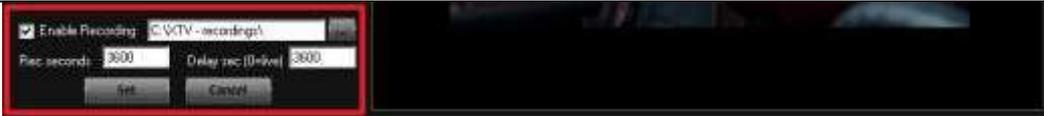
| | | | |
|---------------------------------------|---|--|---|
| <i>Remote CG Settings</i> | 1 | CG Preroll (frames) | Preroll frames of the graphics from the external CG |
| | 2 | Enable remote CG | Enables the CG from an external remote Character Generator |
| | 3 | Enable both (internal and remote) | Enables both the internal and the external remote CGs |
| | 4 | Type | Select the external CG between availables |
| | 5 | Address | Type the external CG IP address |
| | 6 | Port | Type the external CG Port for the communication. In DLG usual 202 |
| <i>Use different AV device for CG</i> | 7 | Enable AV Device | Enable different Audio and Video device dedicated for the CG purpose |
| | 8 | Enable NDI output | Enable NDI output for the |
| | 9 | Av Device | Select the AV Device between availables |
| | 10 | Key mode | Select the Key Mode for the CG |
| | 11 | Line In | Line in |
| | 12 | Line Out | Line out |
| 13 | Overlay Graphics on TOP (not in squeezeback) | | Overlays graphics on top (not in squeezeback) By default when you enable the squeezeback in XPLAYOUT > HOME > SQUEEZEBACK > SQ.BACK ON/OFF the graphics will be overlaid only to the internal PIP section. |

| | | |
|-----------|---|--|
| | | By checking this parameter you will force the graphics on the whole playout and not only in the internal PIP section. |
| 14 | Disable CG Init for CPU optimization | For CPU optimization disables any kind of CG and any kind of graphics to continue the playout without interruptions. |
| 15 | Hide CG thumbnails | To destress CPU processing the Graphics Thumbnails preview will be disable in the following 2 sections: <ul style="list-style-type: none"> - XPLAYOUT > HOME > MANUAL CG - XPLAYOUT > HOME > EDIT CG PAGES |
| 16 | Disable CG external process mode | Only for DEBUG PURPOSES |
| 17 | Experimental use MFReader convert | Only for DEBUG PURPOSES |

3.5.7.11 MODE SETTINGS



| | |
|---|--|
| 1 | <p>SLAVE MODE</p> <p>Enable slave mode: allows you to activate/deactivate the MOS logic (master on slave), enabling this current XPLAYOUT as a slave of another XPLAYOUT which will play the MASTER role</p> <p>Master IP: Master XPLAYOUT IP Address</p> <p>MAX POSITION DIFF (FRAMES): the detected delay of the current slave clip (in relation with the master one) can not be higher than the frames number set here. In this example the parameter is set on 25. If detected delay is higher than 25 this slave XPLAYOUT will interrupt itself to restart in sync with its master.</p> <p>PLAY DELTA (FRAMES): this slave constantly asks for the master position. This communication needs TIME.</p> <p>TIME = slave requesting time + master answering time</p> <p>This PLAY DELTA (FRAMES) could be a (+) positive or (-) value. When detected delay of the current slave clip is higher than MAX POSITION DIFF (FRAMES), the playout restarts of a number of distance frames settable here</p> |
| 2 | <p>TimeShifting mode activates the XTV rebroadcasting operationality.</p> <p>The desired Line has to be set in Recording Mode as shown by the following picture:</p> |



The desired Line could be re-broadcasted after the desired seconds.

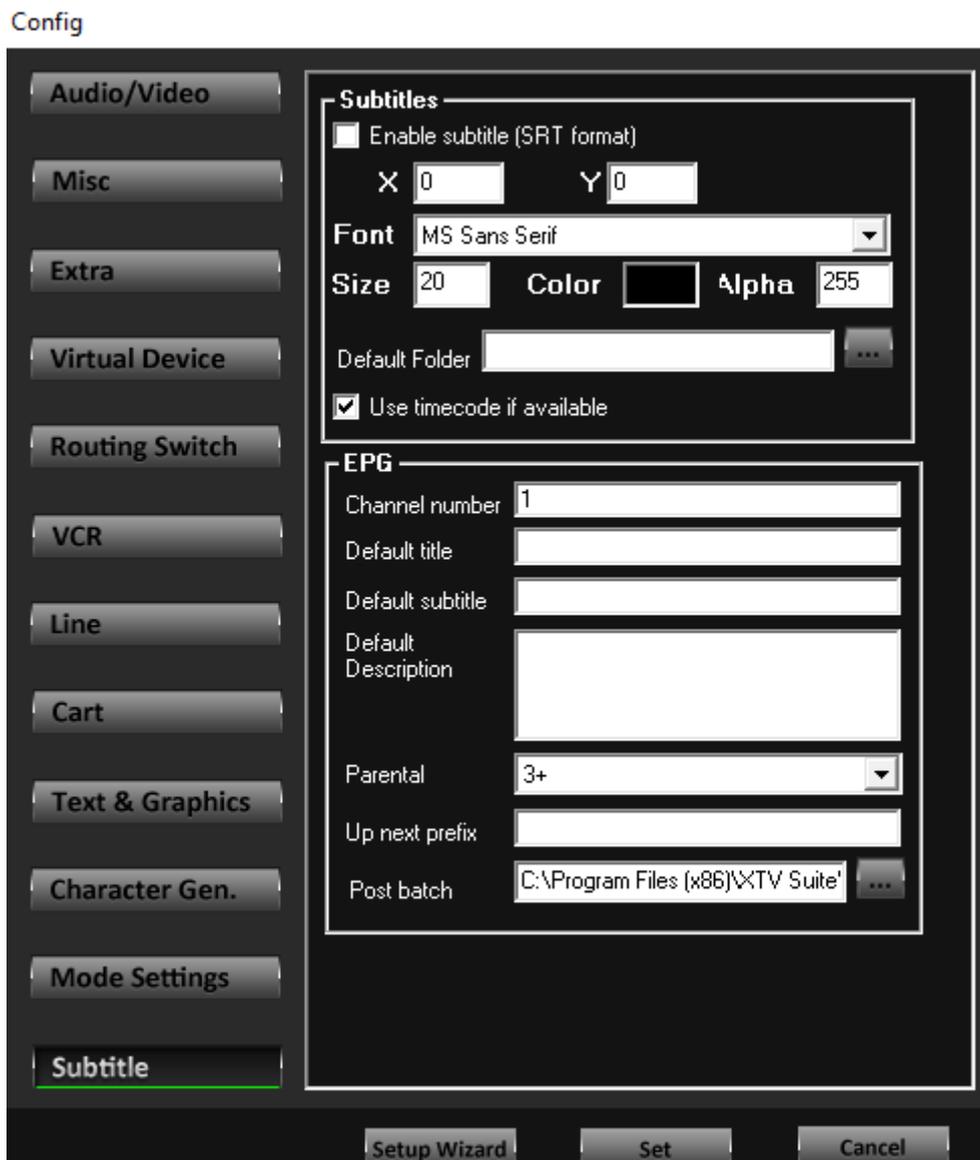
Enable timeshifting mode: by enabling this check you will activate the TimeShifting mode for this current XPlayout.

Seconds to fill: Assign here the time shift for the re-broadcast. Seconds will be calculated from the starting point of the original video broadcast (in our example we have 60 seconds)

| | |
|----------|---|
| 3 | Enable XMUSIC and set the XMUSIC service IP |
| 4 | 3 rd party playlist settings |
| 5 | Whatchdog folder |

3.5.7.12

SUBTITLE

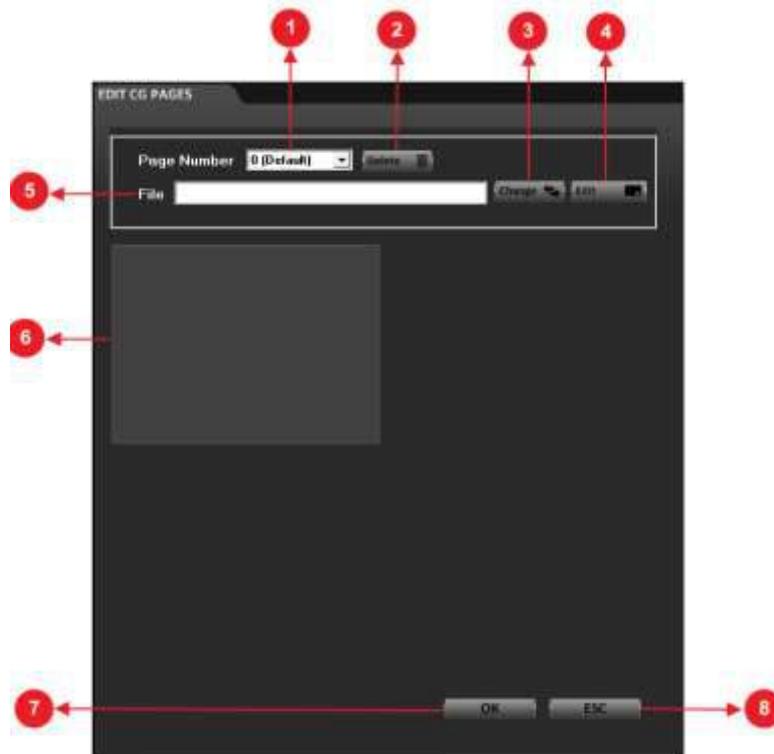


In this window the user can enable/Disable and configure the subtitles (.srt format).

The user can also set a default folder for all the .srt files. The folder will be an alternative to the normal clip location, in fact, if anything is set here, XPlayout will search for the subtitles in the same clip folder.

Below the EPG info and parental control settings.

3.5.8 EDIT CG PAGES



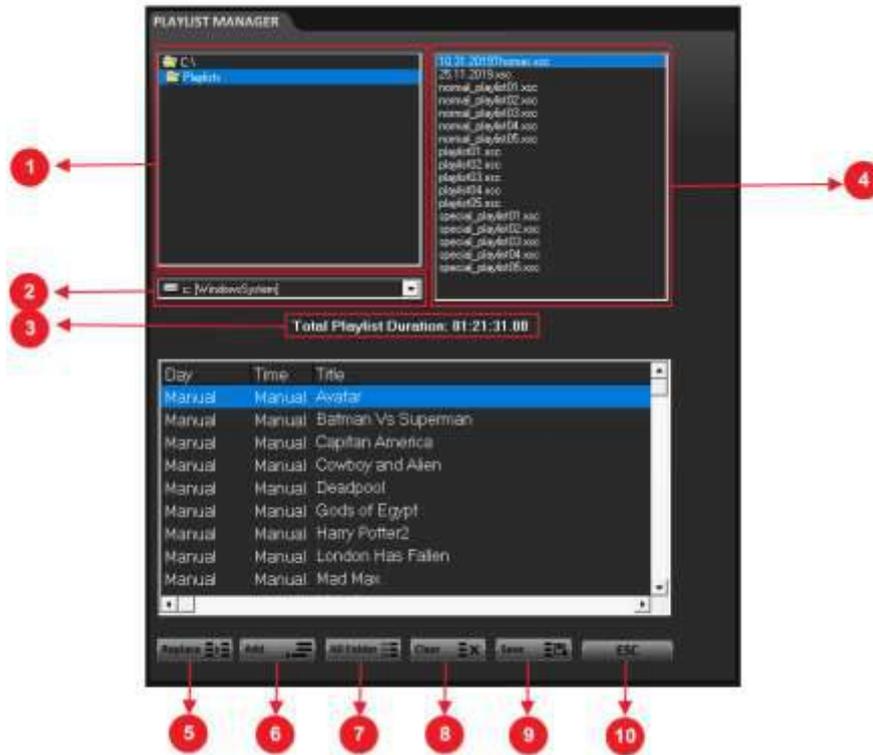
| | |
|---|--|
| 1 | Select here the page that you want to edit. You can select it from 0 to 99 |
| 2 | Deletes the selected page |
| 3 | Changes the .acg file by browsing in your folders |
| 4 | Opens the .acg editor: CG Composer to directly change the template |
| 5 | Displays the .acg file path |
| 6 | Displays the .acg file preview |
| 7 | Saves last page changes |
| 8 | Quits EDIT GRAPHICS function discarding last changes |

3.5.9 AIR LOGS

Air Logs open the XLogs Viewer to read logs of the aired files.

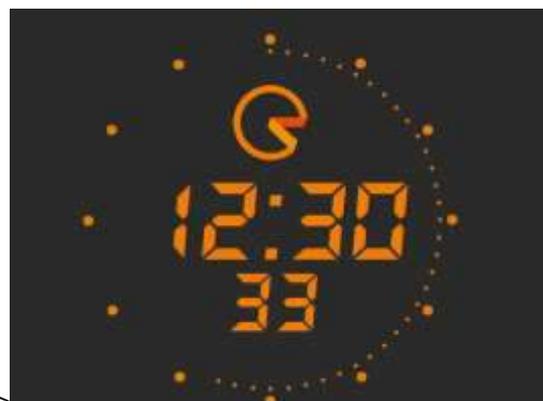
| Real Date | Title | Start Time | End Time | Duration | Result | Program C / Pri / Mod | Type | Category | ExtraInfo | Category | Category | Resource | Location |
|------------|-----------------------------|------------|----------|----------|--------|-----------------------|------|----------|-----------|----------|----------|----------|------------------------------------|
| 02/12/2013 | Avatar | 00:12:12 | 00:21:32 | 00:04:20 | Aired | | | | | | | | C:\Media\Avatar\Avatar.vic |
| 02/12/2013 | Batman Vs Superman | 00:21:35 | 00:24:04 | 00:02:29 | Aired | Movie | | | | | | | C:\Media\Batman\Batman.vic |
| 02/12/2013 | Captain America | 00:24:06 | 00:25:09 | 00:01:03 | Aired | | | | | | | | C:\Media\Captain\Captain.vic |
| 02/12/2013 | Cowboy and Alien | 00:25:11 | 00:27:45 | 00:02:34 | Aired | | | | | | | | C:\Media\Cowboy\Cowboy.vic |
| 02/12/2013 | Deadpool | 00:27:52 | 00:30:23 | 00:02:41 | Aired | | | | | | | | C:\Media\Deadpool\Deadpool.vic |
| 02/12/2013 | Gods of Egypt | 00:30:13 | 00:32:07 | 00:01:35 | Aired | | | | | | | | C:\Media\Gods\Gods.vic |
| 02/12/2013 | Harry Potter | 00:32:09 | 00:34:07 | 00:01:58 | Aired | | | | | | | | C:\Media\Harry\Harry.vic |
| 02/12/2013 | London Has Fallen | 00:34:07 | 00:36:42 | 00:02:34 | Aired | | | | | | | | C:\Media\London\London.vic |
| 02/12/2013 | Mad Max | 00:36:42 | 00:39:28 | 00:02:46 | Aired | | | | | | | | C:\Media\Mad\Mad.vic |
| 02/12/2013 | Magpie | 00:39:29 | 00:41:33 | 00:02:04 | Aired | | | | | | | | C:\Media\Magpie\Magpie.vic |
| 02/12/2013 | Paul | 00:41:33 | 00:43:52 | 00:02:19 | Aired | | | | | | | | C:\Media\Paul\Paul.vic |
| 02/12/2013 | Robin Hood | 00:43:57 | 00:45:17 | 00:01:19 | Aired | | | | | | | | C:\Media\Robin\Robin.vic |
| 02/12/2013 | Star Trek E | 00:45:17 | 00:47:34 | 00:02:18 | Aired | | | | | | | | C:\Media\Star\Star.vic |
| 02/12/2013 | Steak | 00:47:34 | 00:48:00 | 00:00:27 | Aired | | | | | | | | C:\Media\Steak\Steak.vic |
| 02/12/2013 | The Adjustment Bureau | 00:48:00 | 00:50:22 | 00:02:22 | Aired | | | | | | | | C:\Media\Bureau\Bureau.vic |
| 02/12/2013 | Top Story 1 | 00:50:22 | 00:51:27 | 00:01:05 | Aired | | | | | | | | C:\Media\Top\Top.vic |
| 02/12/2013 | Transferee HD2 | 00:51:27 | 00:54:02 | 00:02:25 | Aired | | | | | | | | C:\Media\Transferee\Transferee.vic |
| 02/12/2013 | Tree of Life | 00:54:02 | 00:56:09 | 00:02:07 | Aired | | | | | | | | C:\Media\Tree\Tree.vic |
| 02/12/2013 | Whiskey Tango | 00:56:10 | 00:58:54 | 00:02:44 | Aired | | | | | | | | C:\Media\Whiskey\Whiskey.vic |
| 02/12/2013 | X-Men3 | 00:58:55 | 01:01:47 | 00:02:52 | Aired | | | | | | | | C:\Media\X-Men\X-Men.vic |
| 02/12/2013 | Avatar [LDOP 1] | 10:01:47 | 10:06:05 | 00:04:17 | Aired | Movie | | | | | | | C:\Media\Avatar\Avatar.vic |
| 02/12/2013 | Batman Vs Superman [LDOP 1] | 10:06:05 | 10:08:26 | 00:02:22 | Aired | | | | | | | | C:\Media\Batman\Batman.vic |
| 02/12/2013 | Captain America E [LDOP 1] | 10:08:26 | 10:09:35 | 00:01:09 | Aired | | | | | | | | C:\Media\Captain\Captain.vic |
| 02/12/2013 | Cowboy and Alien [LDOP 1] | 10:09:35 | 10:11:54 | 00:02:20 | Aired | | | | | | | | C:\Media\Cowboy\Cowboy.vic |
| 02/12/2013 | Deadpool [LDOP 1] | 10:11:54 | 10:14:25 | 00:02:31 | Aired | | | | | | | | C:\Media\Deadpool\Deadpool.vic |
| 02/12/2013 | Gods of Egypt [LDOP 1] | 10:14:25 | 10:15:50 | 00:01:25 | Aired | | | | | | | | C:\Media\Gods\Gods.vic |
| 02/12/2013 | Harry Potter [LDOP 1] | 10:15:50 | 10:17:56 | 00:02:06 | Aired | | | | | | | | C:\Media\Harry\Harry.vic |
| 02/12/2013 | London Has Fallen [LDOP 1] | 10:17:56 | 10:20:28 | 00:02:32 | Aired | | | | | | | | C:\Media\London\London.vic |
| 02/12/2013 | Mad Max [LDOP 1] | 10:20:28 | 10:23:02 | 00:02:26 | Aired | | | | | | | | C:\Media\Mad\Mad.vic |
| 02/12/2013 | Magpie [LDOP 1] | 10:23:02 | 10:25:07 | 00:02:05 | Aired | | | | | | | | C:\Media\Magpie\Magpie.vic |

3.5.10 PLAYLIST MANAGER



| | |
|----|---|
| 1 | Folder Browser |
| 2 | Unit selection |
| 3 | Playlist selection |
| 4 | Total selected playlist duration |
| 5 | Replace the current XTV playlist with all clips of the selected .xsc file |
| 6 | Append the selected clip to the current XTV Playlist |
| 7 | Play immediately all the .xsc playlist files |
| 8 | Clear the current playlist |
| 9 | Save the current playlist in an .xsc file |
| 10 | Quit the playlist manager function |

3.5.11 XPLAYOUT CLOCK



3.5.12 LOCK FUNCTION



3.6 XMIRROR

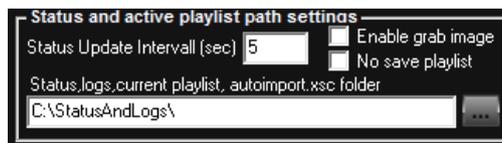
XMirror is the add-on to Xpayout which allows a selective copy of the media according to the current playlist which is loaded on Xpayout.

It is typically used when playing media from a Network drive and a copy of the media is desired on the local drive.

Xmirror uses VICEVERSA sync software as a copy engine, allowing controlled speed copy in order not to saturate the network bandwidth.

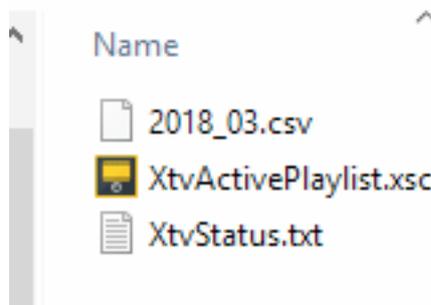
Viceversa must be installed on the system running Xmirror application.

Xpayout must be configured to save the current playlist status onto a folder. It is suggested to use a local folder, so in case of network fail the playlist will not be abused by the network unavailability. Use Viceversa to copy eventually to networked positions with update every minute.

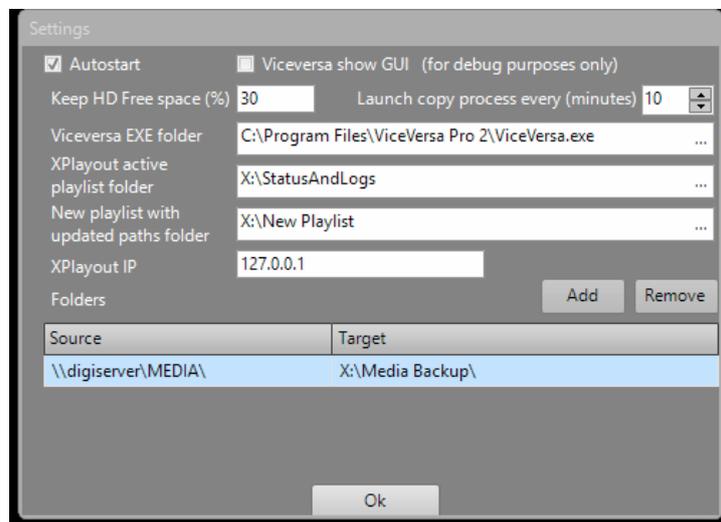


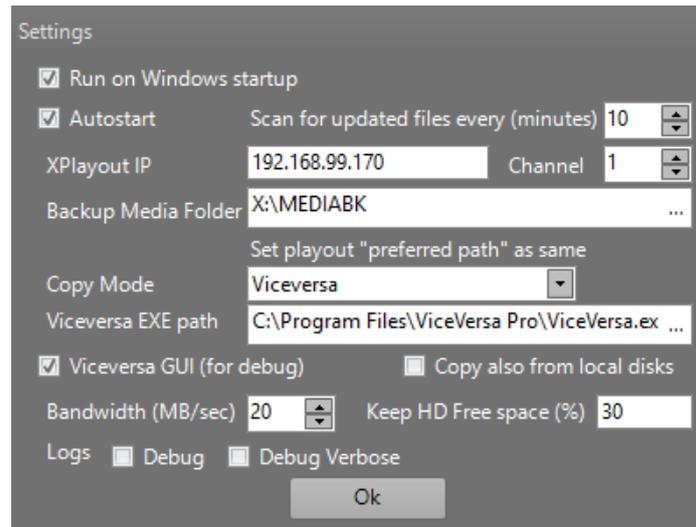
Any change in the xpayout playlist will automatically generate a new and updated XTVActivePlaylist.xsc, which will be the reference for Xmirror during the copy process.

In the same folder "As run" logs will be saved in CSV format.



Configuration :





Run on Windows startup : XMirror is started automatically on windows startup

Autostart : The scan for updated files starts automatically at the Xmirror startup

Xplayout IP : Ip address of XPlayout. This is used to obtain instant information regarding current media and next media referred to active playlist.

Channel: playout instance on the previous set ip address

Backup Media Folder: Set the target folder of the copy

Copy Mode: Viceversa is the default copy engine

Viceversa exe path : the Viceversa executable path

Viceversa GUI (for debug): allows viewing Viceversa Gui for process monitoring for debug purposes

Copy also from local disks:

Bandwidth (MB/sec): copy speed

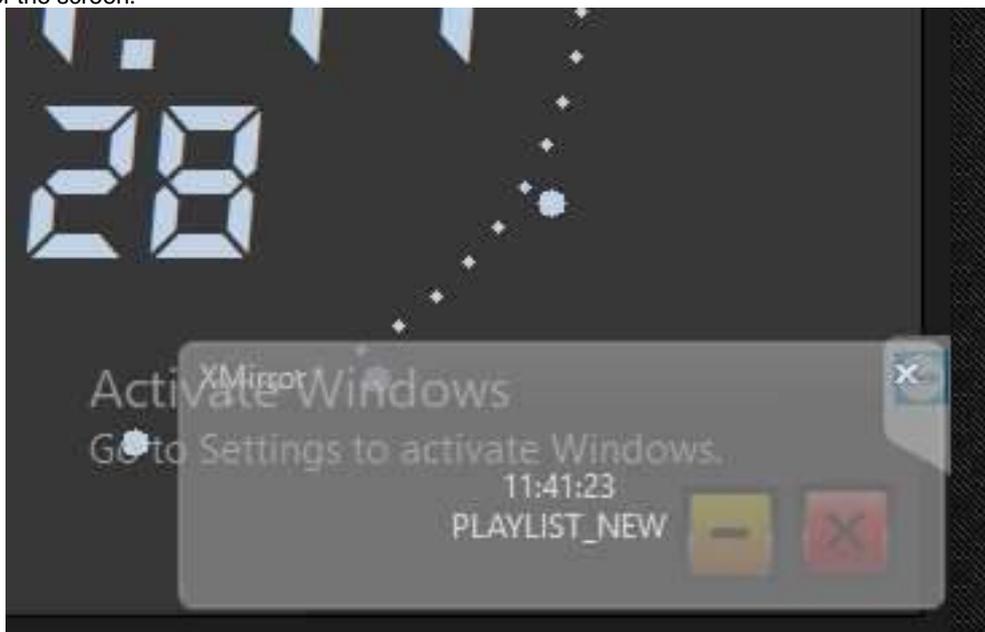
Keep HD Free space (%) : Threshold for free space on hard disk. When threshold is passed, older file are automatically deleted from target paths.

Debug: Debug Logs

Debug Verbose: by activating this check you will have more detailed logs.

Operation :

After Xmirror has started, whenever a new playlist is found or has been modified, POP UP messages will be shown on bottom right of the screen.





Simply check target destinations path to verify if media is being copied.

4 XINGEST

XIngest is the software for ingest from any kind of source according to the installed video board. The software is able to record in SD/HD and in different format / codec.

IMPORTANT:

If you're running Xingest simultaneously with XPlayout (installed on the same workstation) be sure to have a Blackmagic Duo to allow play & capture at the same time.



you can have different Xingest instances. This number tells you on which instance you are working.

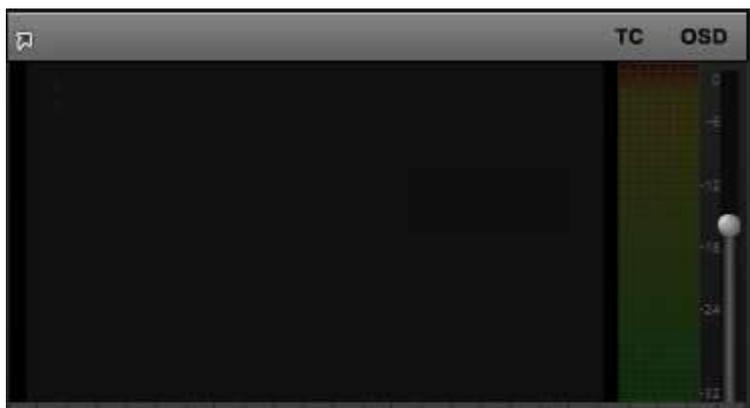


This is the current point of the clip



This is the duration from the start of the current segment, after the pression of the button





Monitoring area of the current REC

OSD= Total Time and recording state.
 TC = TimeCode. Enable the visualization of the TimeCode in the capture
 By clicking on the time label, you can change between Segment Duration or Total Duration



Change or correct the audio level of the current clip in rec.



settings

Dropped frames. The Max value is settable from



Recording parameters
 IDR = Instant
 ADR = Average



choose the desired video signal to be ingested/captured between available ones:



Snapshot of the current recording

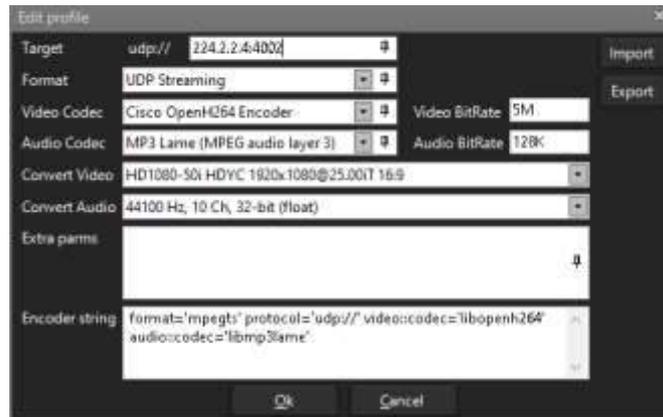


By clicking this button it would be possible to generate an IP stream (rtmp, udp...).



If IP Stream is ON and well configured the button turns like this . When IP Stream is on you can read all of its streaming stats by clicking on the corner .

By clicking the gear  (or  if IP Stream is already running) you can open the setting form where is possible to define or change the streaming profile:



The Switch button creates a new video segment and close the previous one



Starts the recording



Stops the recording



This button works only if you use XINGEST into YOUPLAY SERVER environment. If pressed this button automatically adds recorded clips into the right YOUPLAY SERVER playlist



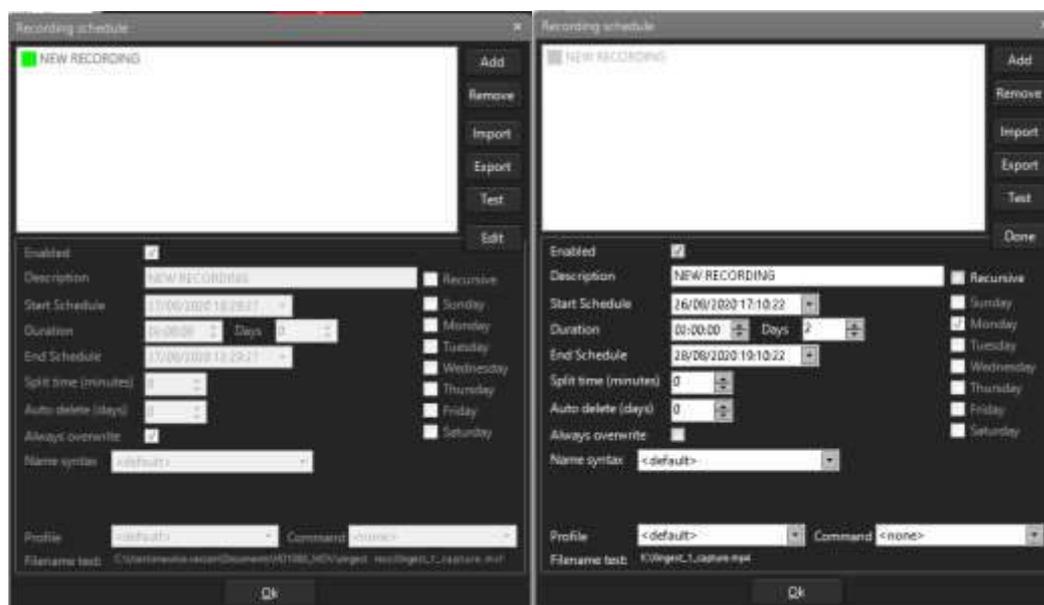
if it is pressed enable the schedule.

When the schedule will be enabled you will see this button turn yellow





To configure the schedule please press the red squared wheel (or this if the recording schedule is active). The schedule configuration mask will appear as described by the following picture:



- Add** Adds for a new schedule
- Remove** Removes the selected schedule
- Import** If .ysc files of recording schedules are presents you can import them through this button by browsing on your File Explorer.
- Export** If you have added a new recording schedule, or if you are editing an existing one, it is possible to export the .ysc recording schedule file. It could be recalled from any XIngest instance by the Import button.
- Test** This button starts the recording test of the selected recording schedule with all of its parameters
- Edit** If you have selected one of the existing recording schedules, by pressing EDIT you can change it as you prefer. If EDIT button is displayed, DONE button is not displayed.
- Done** If you are editing an existing or a new recording schedule click on DONE to confirm the changes. If DONE button is displayed, EDIT button is not displayed.
- Enabled** Decides if the selected schedule could be used or not.
- Description** Customized name that you can type for the current recording schedule.
- Start Schedule** Decide the day and the hour of the start of the schedule. If recursive is enabled, defines only the starting time of the schedule
- Duration** Define the Duration of the schedule. If selected 24H, the duration is 24 hours.
- End Scheduler** Define the day and the hour of the end of the schedule. If Recursive is enabled, define the hour of the end of the schedule.
- Recursive** Define if the schedule is recursive. If it is enabled it is possible to select the days of the week (Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday).
- Split time (minutes)** Further than this minutes a new capture segment will be created.
- Auto delete (days)** Further than this days the oldest clips will be deleted on the recording folder.

- Always overwrite** If checked this parameter always overwrites the recordings on the same file.

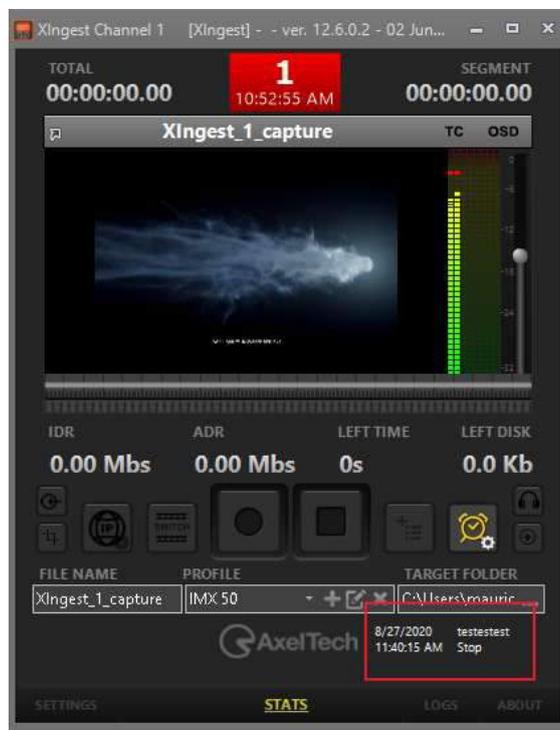
- Name syntax** If <default> the schedule records the clip with default file and folder.
 If Folder&File the folder and the recording file name will be requested.
 If Folder, the folder in which you want to record will be requested and the file name will be assigned by default.
 If File, the name of the file to be recorded will be requested and the folder will be assigned by default.
 If Custom, a file in LTC UTC format and duration will be created in the default folder.

- Profile** If <default> the schedule records the clip with the capture profile by default. Otherwise the selected profile will be used.

- Command** If <none> the schedule records without sending any commands, otherwise the selected command will be sent at the capture start.

- Filename test:** In this automatic field you will see the syntax result of your recording file name and path according to choices you have taken in Name Syntax parameter.

If a recording schedule is running you can see the following signal on your Xingest home page:



Allows to listen the Xingest audio preview of the rec from the default Windows audio card

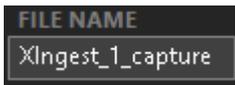


If the XINGEST audio preview is active the button turns like this



Sends remote commands. From the following list that will appear you can select the desired command to be sent

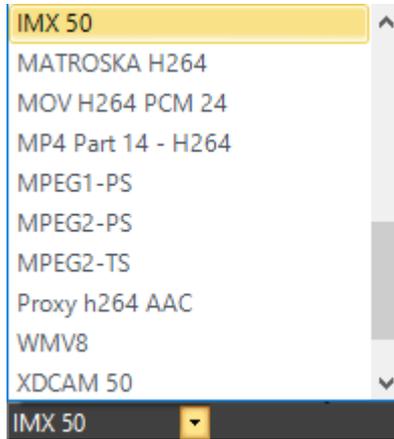




File of the next/current recording



From this parameter you will be able to select/add/edit/delete a recording profile.



Click on the arrow next to the profile menu to select between one of available profiles

Click on  to add a new profile



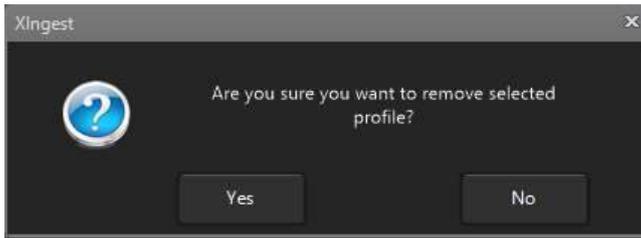
From the window that will appear you can change all the desired parameters related with this new recording profile. After changes click on OK to confirm.

Click on  to edit a new profile

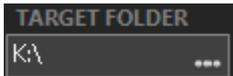


From the window that will appear you can change all the desired parameters related with existing recording profile. After changes click on OK to confirm.

Click on  to delete the selected profile



From the mask that will appear click on yes to definitely remove the recording profile from the list



The recorded clip will be saved in this exact path typed here. Press  to browse in your folder explorer for a desired path



 Opens XINGEST Settings panel

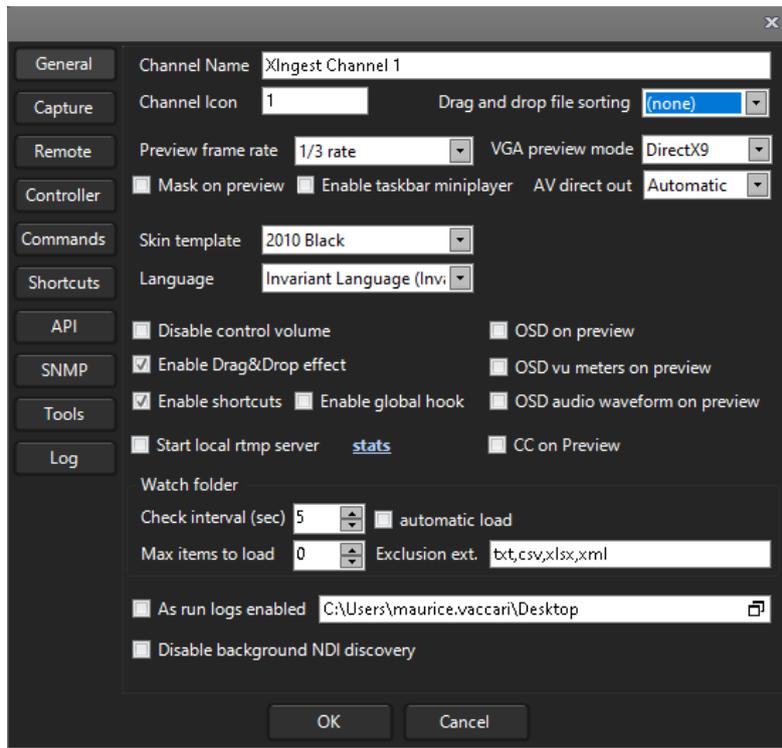
 Opens the XINGEST statistics panel

 Opens the XINGEST program logs

 Opens the XINGEST software details

4.1 SETTINGS

4.1.1 GENERAL



Channel Name XIngest Channel 1

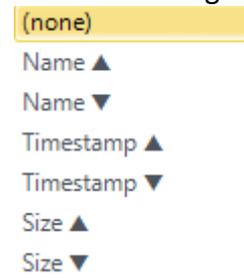
Instance name shown on the titlebar.

Channel Icon 1

Alphanumeric that identifies the instance (2 chars)

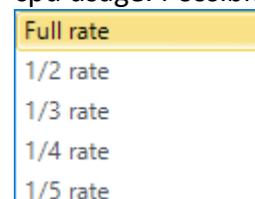
Drag and drop file sorting (none)

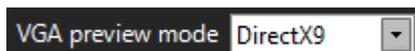
Display order of the elements added to the current playlist by mouse drag and drop. It is possible to select between one of the following file sorting ways



Preview frame rate 1/3 rate

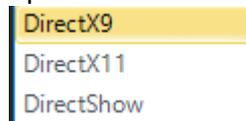
Preview framerate. Less rate, less cpu usage. Possible choices are:





Change the video preview in order to be compatible with particular remote connection software(e.g. remote Desktop)

You can choose between following options:



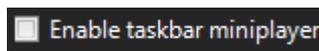
Applies a mask to a preview. If checked the XINGEST preview result will be the following one



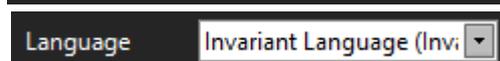
Enable DWM (see

http://en.wikipedia.org/wiki/Desktop_Window_Manager for details)

Enabling Audio/Video direct out each frame will be sent to the output without any extra processing.



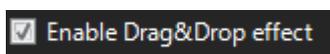
Changes the XINGEST skin template.



Changes the XINGEST displaying language



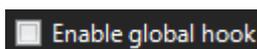
Disables the volume control



Enables graphic effects during drag and drop actions



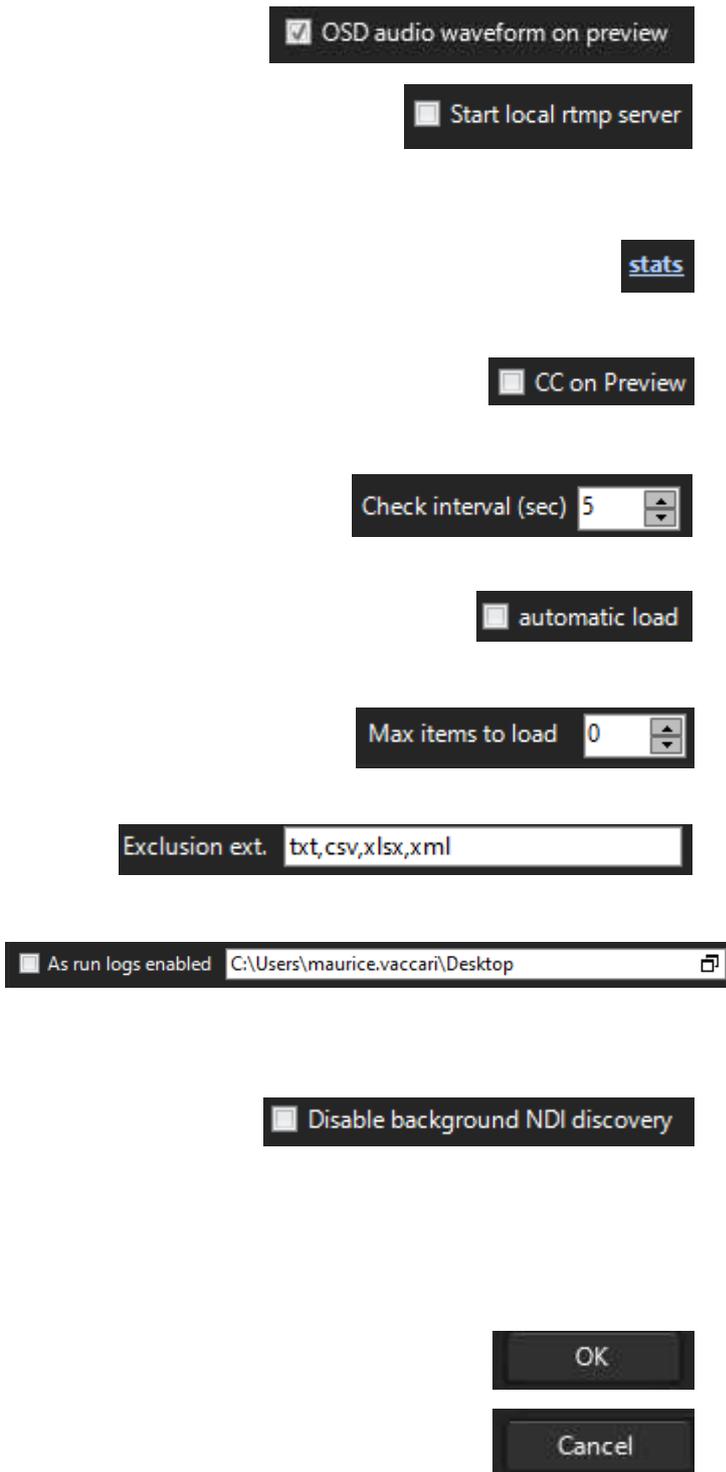
Enables the use of XINGEST shortcut keys. You could use the proper shortcut assignment area XINGEST > SETTINGS > SHORTCUTS By enabling this option, shortcuts will be received even if XINGEST is minimized



At the program start enables the OSD on the preview.



Enables the OSD of vumeters on the preview.



Enables the OSD of the audio waveform on the preview.

By enabling this parameter you will active for a local rtmp server. This server allows you to generate an rtmp streaming.

By opening this link you will read all the statistics connected with the RTMP server

By checking this parameters Subtitles will be displayed if available.

Set the time interval (in seconds) to check if something changed inside the Watch Folder

The watchfolder items will be automatically loaded at YouPlay Server startup

Maximum number of watchfolder items to be uploaded on YouPlay Server playlist.

File extensions to be excluded inside the watchfolder

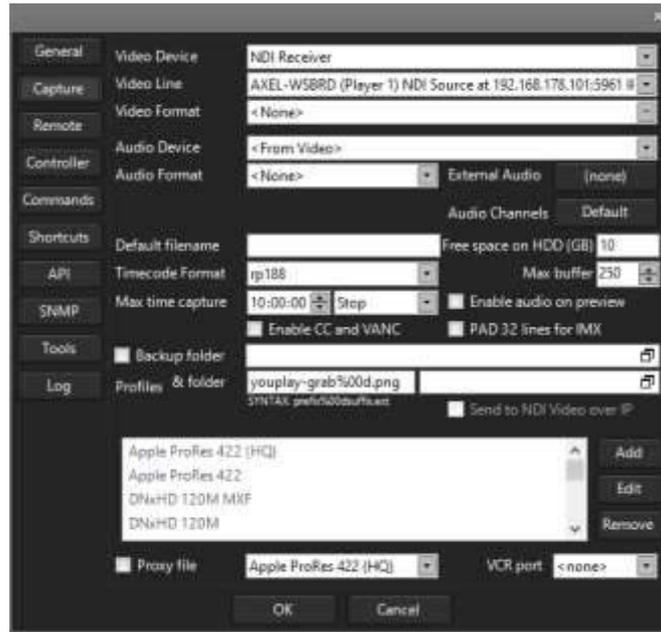
Define the folder in which the As run log file will be written (the log with all the recording informations).

By checking this parameter you will disable the background NDI discovery. If the NDI discover is not required, by checking this parameter the CPU will be free from useless stress.

Confirms the change of settings

Deletes the change of settings.

4.1.2 CAPTURE



Video Device DeckLink Quad 2 (4)

Defines the capture video device

Video Line SDI Video & SDI Audio

Defines the video-line (in NDI mode it shows the list of all available streams)

Video Format PAL-16x9 UYVY 720x576@25.00iT 16:9

Defines the recording video format (SD, HD, 2K, 4K, PAL or NTSC)

Audio Device <From Video>

Defines the capture audio device

Audio Line

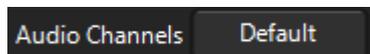
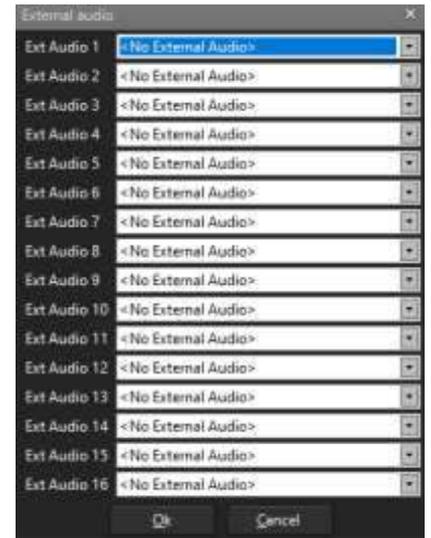
Defines line-in audio

Audio Format 48000 Hz, 2 Ch, 16-bit

Defines the capture audio format (2..16 Ch, 16, 32, 64bit)



By opening the External Audio menu it will be possible to select different external audio contributions, from all the available audio devices detectable by this Xingest pc. From the following link select your 16 external audio contributions:



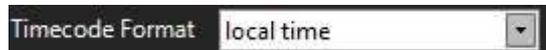
If needed here you can set all of your desired audio routing



Defines the default name of the recording



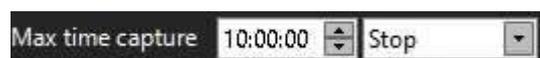
Further than this free hard disk space the recording will be stopped.



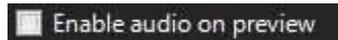
Defines the TimeCode format.



Defines the maximum buffer of the recording



Further than this time the Stop rule will be applied (the recording will be stopped) or the Split rule will be applied(a new segment will be created and the recording continues)



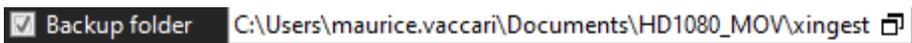
Enables the audio on the preview.



Enables the Closed Caption on the captured video



Applies on the captured video a 32 lines PAD (a little panel of 32 pixel high on the top of the video) for the IMX formats.



By this 2 parameters it could be possible to activate a XINGEST recording backup folder and to set the desired backup path.



Defines the filename and the format of the snapshot in the shown SYNTAX. Next you can define the grabbed pictures target folder.



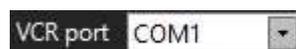
Enables the NDI over IP stream of the recorded clip.



Adds, Edits, Removes the captured profiles present on the PC. These changes are the same for all the Xingest instances.

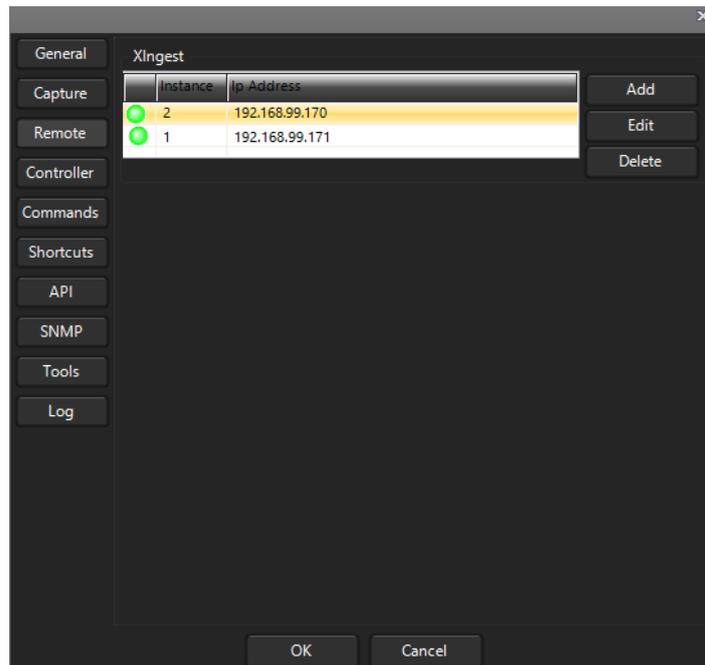


It enables the video proxy of the recorded clip with the selected profile. If the same capture profile is used, the “_proxy” suffix will be applied.



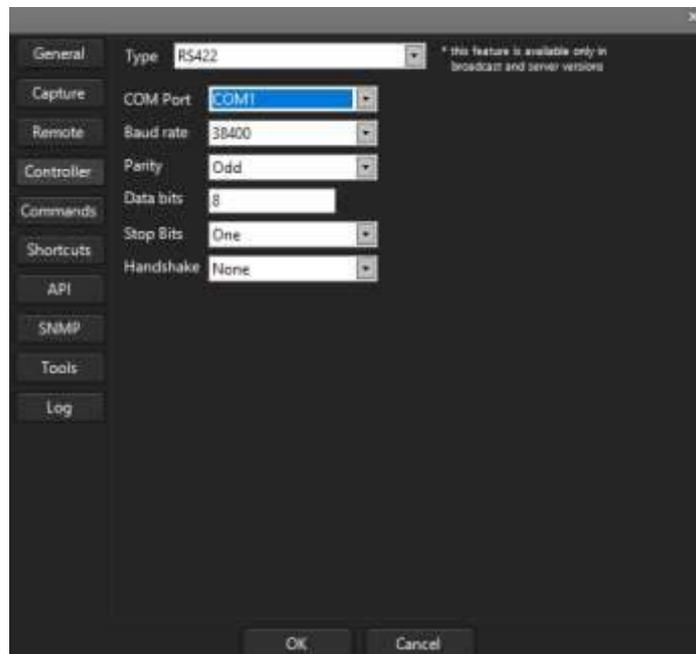
Defines the RS422 COM port of the available external VCR. If <none> is selected no VCR will be initialized in the home page.

4.1.3 REMOTE



The Remote Settings panel manages the connection of the XIngest with any available remote devices.

4.1.4 CONTROLLER

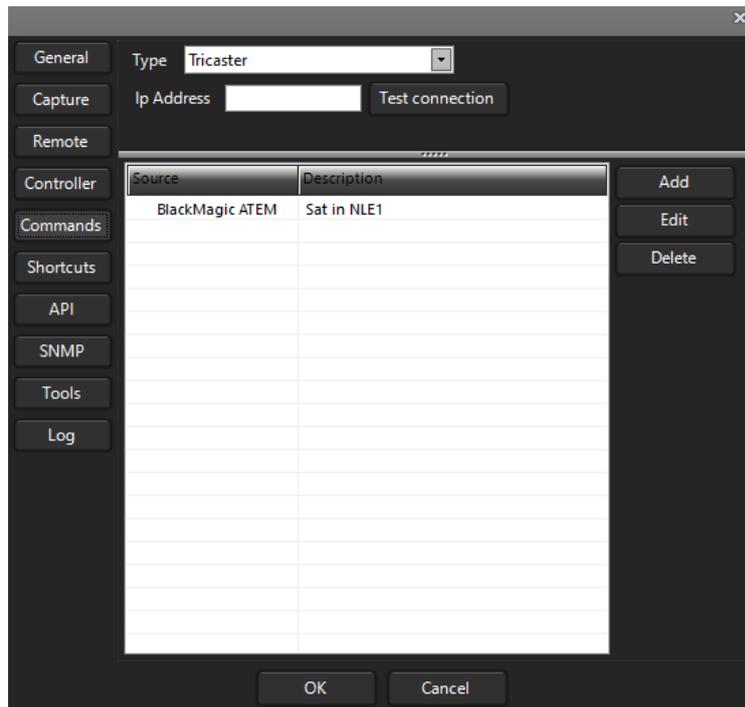


The **CONTROLLER** panel is to control XIngest by an external controller. In the picture an example of TYPE selection with all the related changeable settings. The available connection types are:

- Hyperdeck emulator
- VDCP RS422
- JLCooper TCP/IP
- RS422
- VDCP TCP/IP

Each type has its own configurable settings.

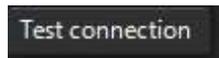
4.1.5 COMMANDS



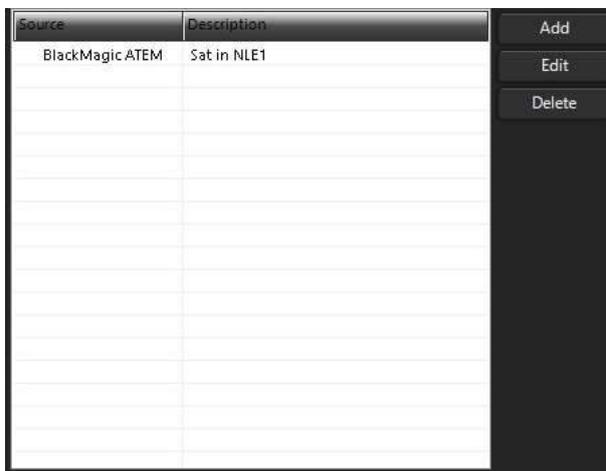
Defines the target device of the command.



Defines the IP Address of the previously selected device. Determina l'indirizzo IP del dispositivo precedentemente selezionato.

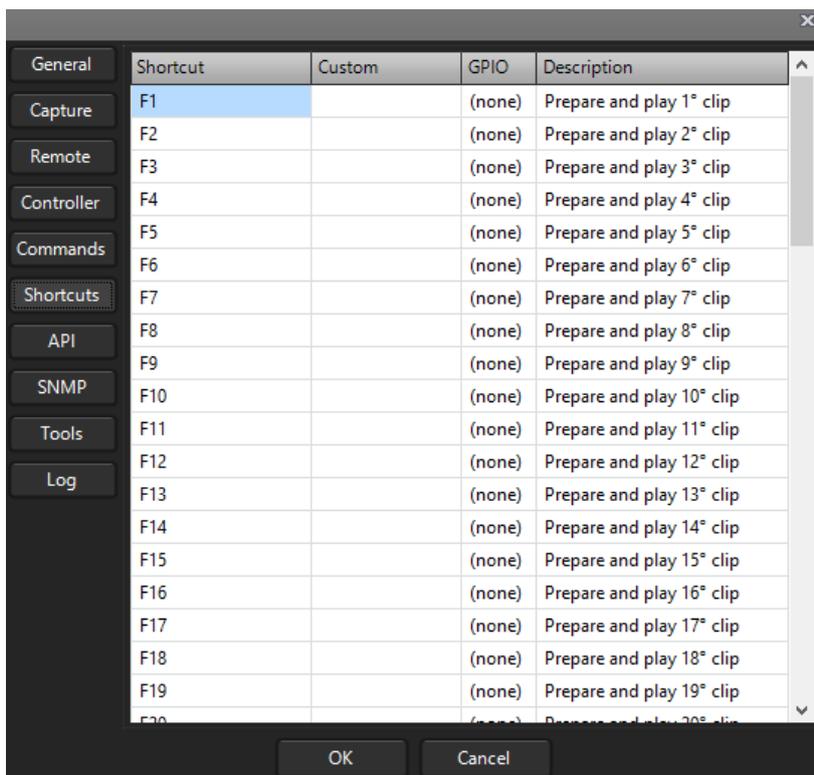


Test if the communication with the device is present



Adds, edits or deletes the commands to send at the start of the recording.

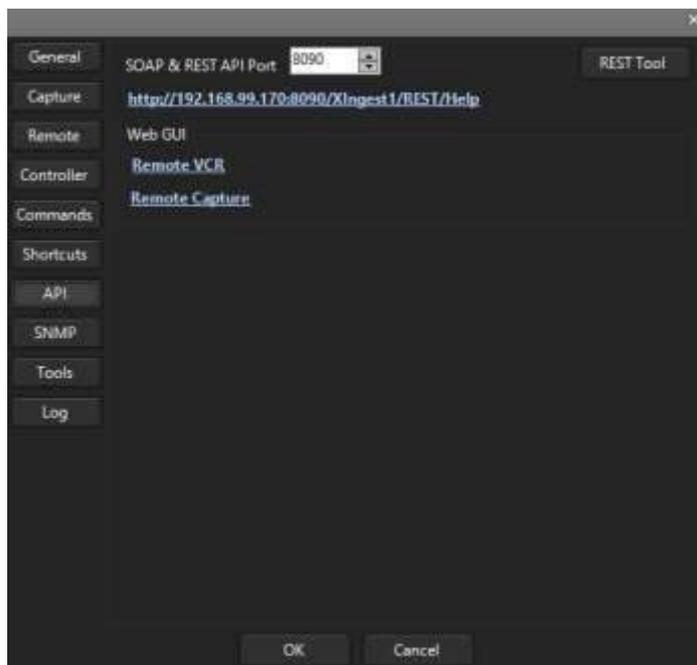
4.1.6 SHORTCUTS



From this page you can see the possible Shortcuts usable with XIngest.

4.1.7 API

It is possible to have API function. It allows you to control XIngest remotely by the use of SOAP protocol or by Rest API Commands:



From this panel is possible to make the settings for REST API commands. We suggest you to keep the 8090 port.

SOAP & REST API Port TCP port used to expose webservice

SOAP COMMANDS

- SOAP messages has to be encoded in XML language without the DTD (Document Type Definition) line.
- SOAP messages has to be encoded by using the SOAP Envelope namespace.
- The XML SOAP elements needed are: Envelope, Header, Body and Fault.

REST API COMMANDS

Inside YouPlay you can find a rich list of REST API commands, by clicking on <http://192.168.99.170:8090/YouPlay1/REST/Help> link. You will be redirected on a webpage with the complete list of all the available REST API commands.



All the commands have to follow the syntax below and could be executed from any desired browser:

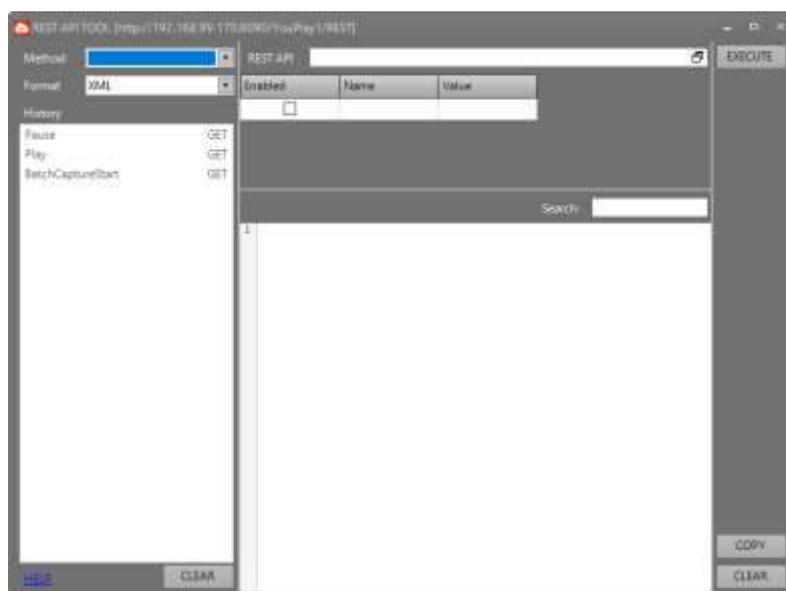
[http://{YOUPLAY-PC-IP}:8090/XINGEST{INSTANCE NUMBER\(1, 2, 3..\)}/REST/{Rest API Command}:{any additional-parameters-required}](http://{YOUPLAY-PC-IP}:8090/XINGEST{INSTANCE NUMBER(1, 2, 3..)}/REST/{Rest API Command}:{any additional-parameters-required})

Here a working command example, executed on a browser inside our network:

<http://192.168.99.170:8090/XINGEST1/REST/Pause>

| | | |
|-----------|-----|--|
| /Logo | GET | Service at http://192.168.99.170:8090/XIngest1/REST/Logo?value={IVALUE} |
| /Mixer | GET | Service at http://192.168.99.170:8090/XIngest1/REST/Mixer?value={IVALUE} |
| /Pause | GET | Service at http://192.168.99.170:8090/XIngest1/REST/Pause |
| /Play | GET | Service at http://192.168.99.170:8090/XIngest1/REST/Play |
| /PlayMode | GET | Service at http://192.168.99.170:8090/XIngest1/REST/PlayMode?mode={IVALUE} |

By clicking on REST Tool you can access to a REST API tool:

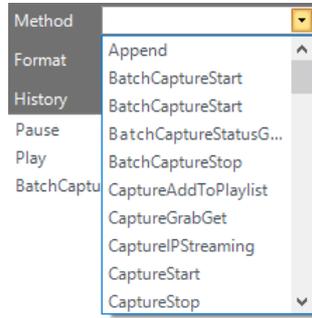


From this useful tool will be possible to train yourself on the remote REST API commands.

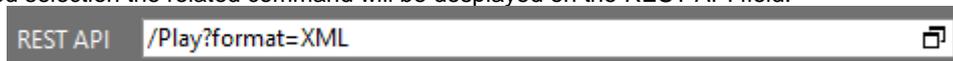
From FORMAT drop down menu it is possible to select the desired language format of the desired REST API command:



From METHOD drop down menu it is possible to select the desired REST API command to send to your YOUPLAY channel:



After the Method selection the related command will be displayed on the REST API field:



Click **GET** to send the REST API command.

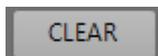
From History section you can read all the previous REST API commands sent to your YOUPLAY channel:

| History | |
|-------------------|-----|
| Pause | GET |
| Play | GET |
| BatchCaptureStart | GET |

From the following section you can read which is the YOUPLAY answer to the REST API command (GET request) you sent to YOUPLAY and what is the reference XML Schema:

```
1 <boolean xmlns="http://schemas.microsoft.com/2003/10/Serialization/">true</boolean>
```

By clicking on **HELP** link you will be at the REST HELP link.



By clicking on **CLEAR** button you will delete all the previous commands in **History** section.

From the following links you can access to 2 web pages to control the capture or eventually VCR device connected to the related pc through serial connection:



4.1.8 REMOTE CAPTURE

From the [Remote Capture](#) link you will be able to remotely monitor the YOUPLAY capture on a webpage. To enter inside the webpage you can also type on a browser the following URL:

[HTTP://IPADDRESS:8090/XINGEST1/REST/REMOTECAPTURE](http://IPADDRESS:8090/XINGEST1/REST/REMOTECAPTURE)

(for other youplay instances only change YOUPLAY1 in YOUPLAY2 or other available channels)

192.168.99.170:8090/Xingest1/REST/RemoteCapture



From this page it will be possible to monitor and control remotely your related XINGEST instance in RECORDING mode. Buttons and checks available here are exactly the same executed by REST API commands, previously explained for the webpage:

[HTTP://IPADDRESS:8090/XINGEST/REST/Help](http://IPADDRESS:8090/XINGEST/REST/Help)

(for other youplay instances only change XINGEST1 in XINGEST2 or other available channels)



After a recording was started from Xingest GUI or from the  on REMOTECAPTURE web page, from this same webpage you can read all the stats of the current recording:

| | |
|-----------------|--|
| Server | OK |
| CaptureState | CAPTURE |
| CurrentDuration | 8s |
| OutputFolder | C:\Users\maurice.vaccari\Documents\HD1 recs |
| OutputFilename | xingest_example_file.mxf |
| Duration | 8s |
| FileSize | 75.32 MB |
| FrameNumber | 16 |
| FreeSpaceOnHDD | 49 GB |
| OtherCaptures | 0 |
| StatusCode | OK |
| TimeLeftOnHDD | 01:32:01 |
| TimestampEnd | 0 |
| TimestampStart | 2020/08/31 11:47:48 |
| VuMeterLeft | -16 |
| VuMeterRight | -11 |



this REC button state means that remote XINGEST RECORDER is not recording



this REC button state means that remote XINGEST RECORDER is recording

Capture filename

type here the desired name of the recording. It will be active from the next recording.

Overwrite

enables/disables existing file overwriting

Batch Capture

activates/deactivates the batch capture from VCR connected to this XINGEST instance.

4.1.8.1 GRABS PREVIEW

Grabs Preview enables/disables the grabs preview displayed on the bottom of this web page. By activating GRABS PREVIEW only some recording grabs will be displayed.

Grabs WxH type here the desired pixel grabs sizes

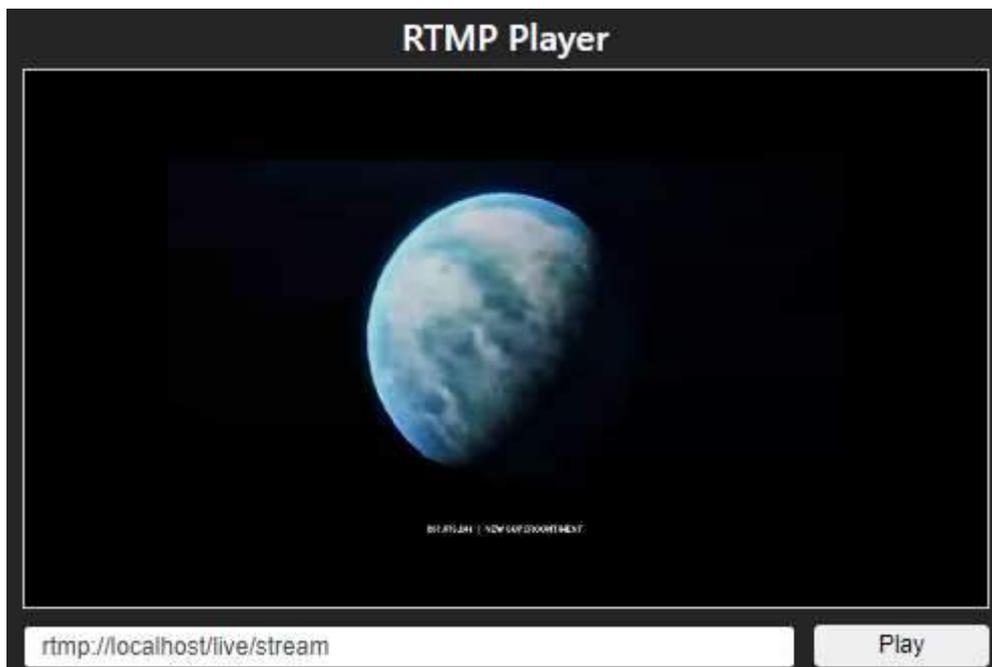
In the following picture you can see the Grabs Preview in a working state:



4.1.8.2 RTMP PLAYER

RTMP Player enables/disables the rtmp preview on the recording of this XINGEST instance.

An exact video stream of your XINGEST recording will be remotely displayed here, differently from the previous GRABS PREVIEW - SECTION (which only consists of periodic snapshots):

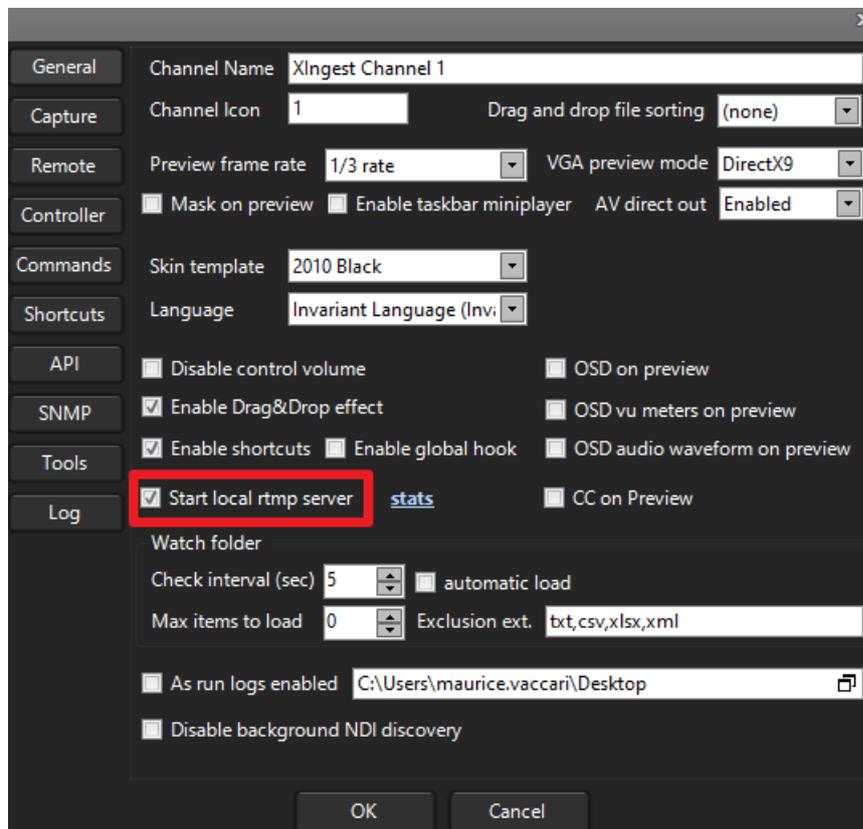


Some settings are requested to make this feature works properly:

1. As described by the following image, go inside the section

XINGEST(instance number) > SETTINGS > GENERAL

and activate a LOCAL RTMP SERVER by checking **START LOCAL RTMP SERVER** parameter:

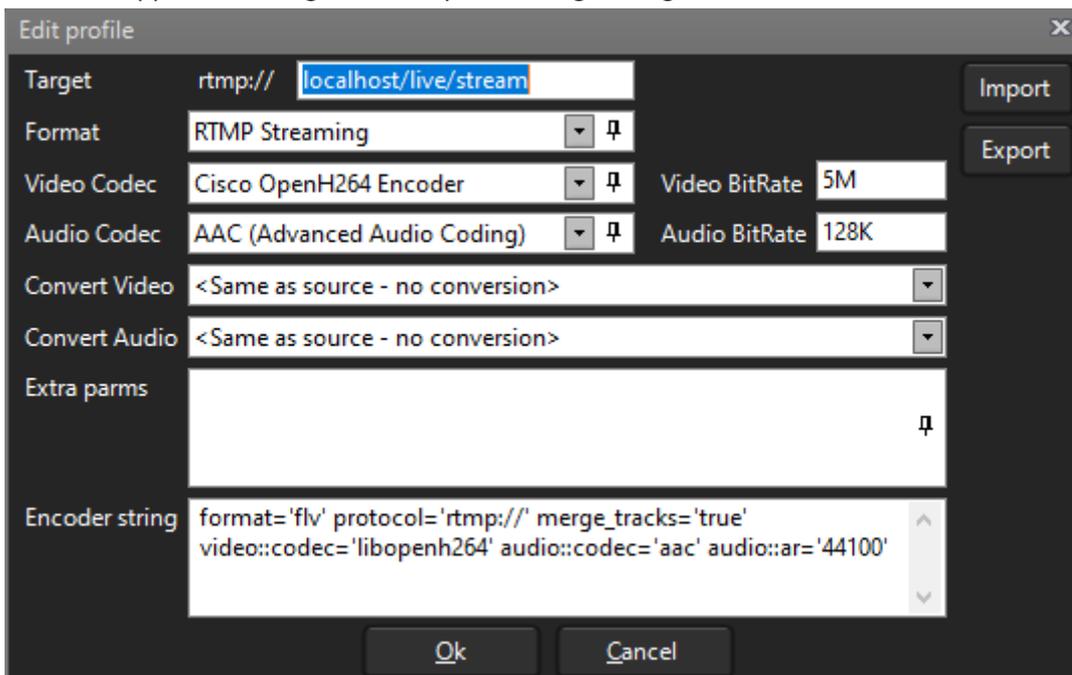


XIngest will create a RTMP architecture to achieve the ip streaming purpose.

2. In the XINGEST home page click the setting wheel from the bottom-right corner of the IP STREAMING button as described by following pictures:



3. A window will appear to configure all rtmp streaming settings:



4. Select **Format** to start RTMP settings

5. in Target field type the desired rtmp url following the syntax:

`RTMP://IPADDRESS/live/customized_stream_name`

instead of "IPADDRESS" type LOCALHOST if you want the RTMP server to be hosted on this XINGEST instance.

Instead of "customized_stream_name" type the desired name to be assigned to the RTMP stream.



IMPORTANT: Both Axel **Youplay** (TV Production Playout) and **XTV Suite** (TV Automation) can be used to host in their own PCs the RTMP server architecture. Both of them to use this feature use an executable **NGINX** process.

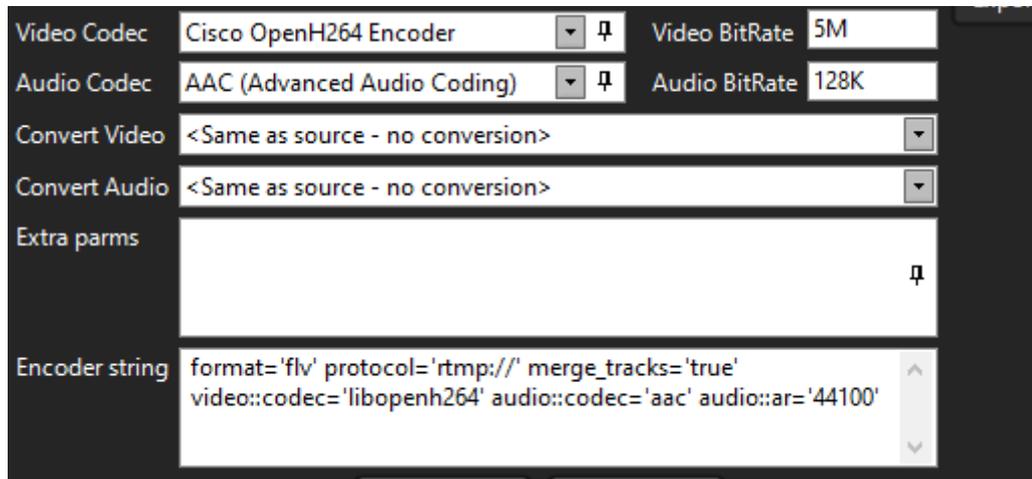
In this way, the **RTMP SERVER** can be hosted by any reachable IP address where the **NGINX** process is started.

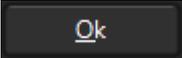
To start **NGINX** server in the desired target PC, please be sure to have followed in that PC the previous step n 1.

Now it is possible to type the related IPADDRESS of that target PC in **Target – RTMP URL** parameter:

`RTMP://IPADDRESS/live/customized_stream_name`

6. Sets all the desired format settings from the following parameters. Is it possible to choose between many video and audio encoding combinations. Best quality will be reached with the parameters displayed by the following picture:



7. Click  to confirm settings changes
Or click on  to discard all the changes

8. In the home page of YOUPLAY RECORDER click the IP STREAMING button  to start the RTMP streaming.

If the RTMP streaming has been correctly started the button will turn to yellow .

If some problem is detected in the RTMP streaming the button will turn .
To solve the detected issues try to change the parameters properly.

Inside Axel Technology **MXC – Multi Cross Converter** (multichannel video cross converter) is possible to receive an rtmp stream inside the desired channel. If an rtmp error is detected you will see the channel number (the red squared one) turning red as described by the following picture:



4.1.9 REMOTE VCR

The XINGEST environment allows you to control a VCR connected to the XINGEST PC via RS422 Comm port. It's possible to control the VCR and all the operations to be performed on the contained videotape:

- remotely from a browser webpage
- directly from the XINGEST GUI

4.1.9.1 CONTROLLING THE VCR REMOTELY BY WEB PAGE

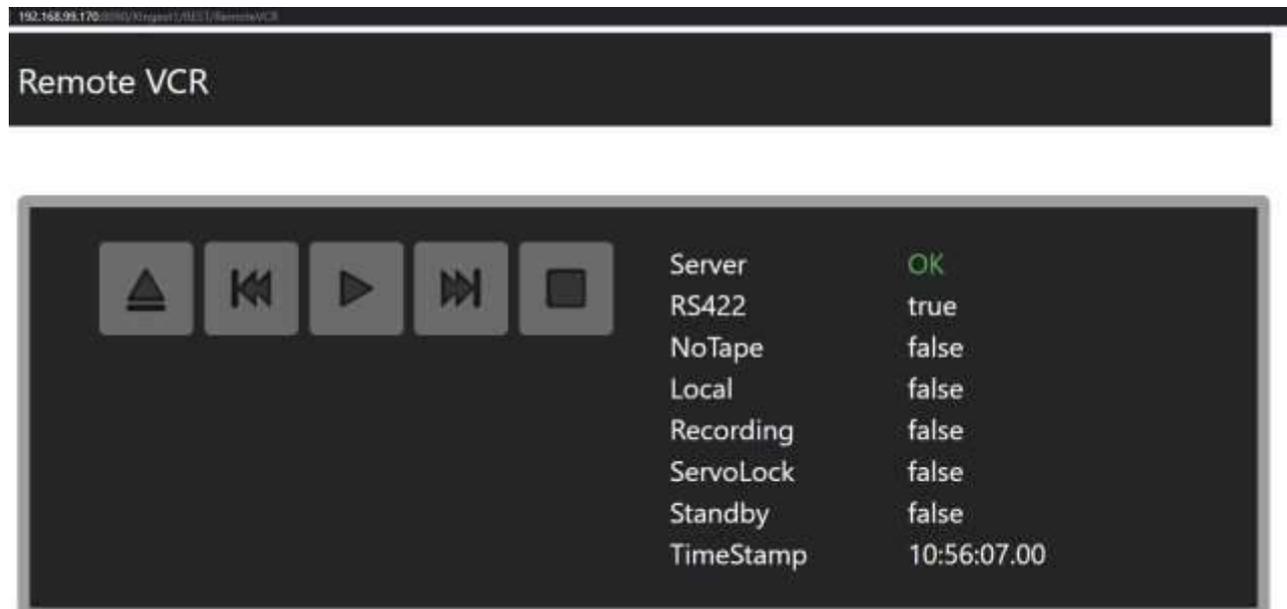
It's possible to reach the REMOTE VCR web page by clicking on the following link in XINGEST > Settings > API:

[Remote VCR](#)

It's also possible to reach the REMOTE VCR web page by typing the following syntax on the URL field of your browser:

[HTTP://IPADDRESS:8090/XINGEST1/REST/REMOTEVCR](http://IPADDRESS:8090/XINGEST1/REST/REMOTEVCR)

instead of "IPADDRESS" type the IP ADDRESS of the XINGEST instance PC.
For other youplay instances only change XINGEST1 in XINGEST2 or other available channels.



| | | |
|-----------|-------------|---|
| | | Ejects the tape of the VCR connected to the remote XINGEST PC |
| | | Rewinds the tape of the VCR connected to the remote XINGEST PC |
| | | Starts the playback of the VCR connected to the remote XINGEST PC |
| | | Fast Forwards the tape of the VCR connected to the remote XINGEST PC |
| | | Stops the playback of the VCR connected to the remote XINGEST PC |
| Server | OK | Displays if the server of this remote webpage correctly communicates with the related XINGEST |
| RS422 | true | Displays if the RS422 external VCR is correctly connected to the PC Comm port |
| NoTape | false | Displays if the tape is missing |
| Local | false | Displays if the controlling of VCR is local or remote |
| Recording | false | Displays if the connected VCR is in recording mode |
| ServoLock | false | Displays if the playback of the connected VCR is blocked |
| Standby | false | Displays if the connected VCR is in standby mode. To disable the STANDBY mode press the POWER button on VCR own panel |
| TimeStamp | 10:56:07.00 | Displays the connected VCR |

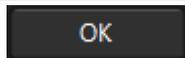
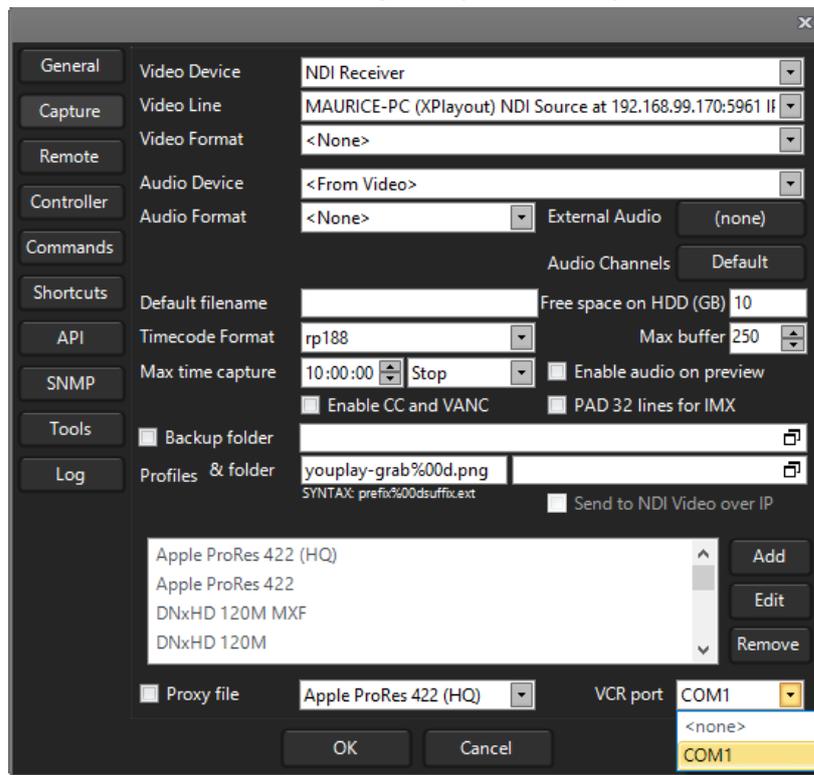
4.1.9.2 CONTROLLING THE VCR FROM THE XINGEST GUI

Without the webpage intermediation it is possible to control the connected VCR device directly from the local XINGEST GUI.

To open the VCR panel, please execute the following operations:

1. Select the COM port to which the external VCR is connected in

XINGEST > Settings > Capture > VCR port



2. After the COM port selection, click on
3. XINGEST will automatically reboot



4. Click on the button, as explained from the following picture:



After this 5 points procedure the following VCR Control Panel will be opened:



Ejects the tape of the connected VCR



Rewinds the tape of the connected VCR



Plays the tape of the connected VCR



Fast forwards the tape of the connected VCR



Stops the playback or the recording of the connected VCR



Starts the recording of the connected VCR

Jog/Shuttle to control the Rewind/Fast Forward executed on the connected VCR tape.

The bottom-right button  switches between Shuttle mode or Jog mode:



Jog: By rotating the control you will skip to the next frame

Shuttle: By rotating the control you will adjust the playback speed.

RS422: the RS422 external VCR is correctly connected to the PC Comm port.

Local: Displays if the controlling of VCR is local or remote

Servolock: Displays if the playback of the connected VCR is blocked

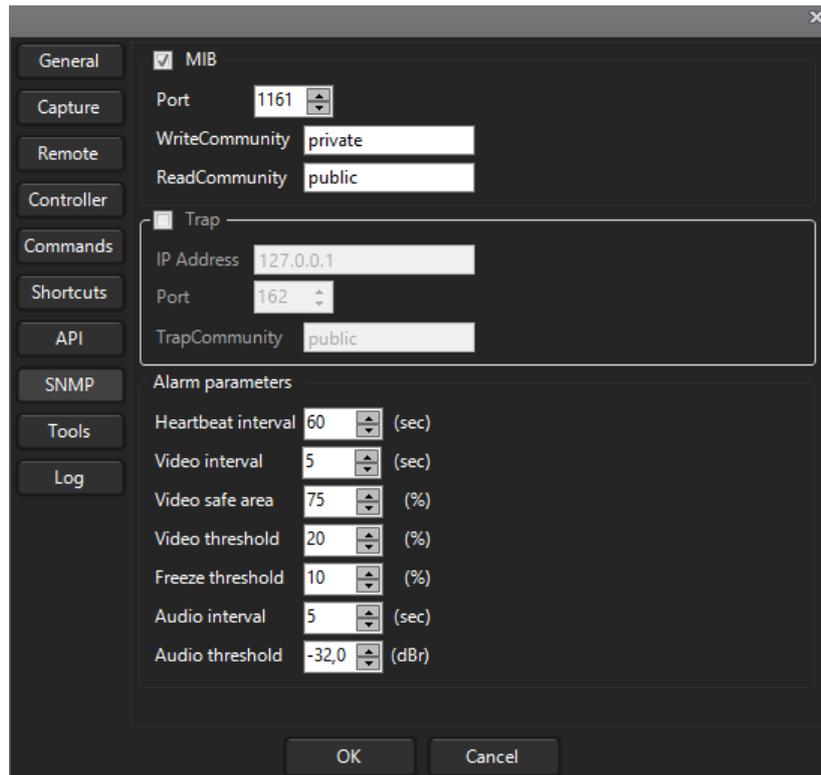
No Tape: the tape is missing

Recording: The connected VCR is in recording mode

Standby: The connected VCR is correctly connected, but it is in STANDBY mode. To disable the STANDBY mode press the POWER button on its own panel.



4.1.10 SNMP



- MIB

Enables/disables the MIB database for the SNMP
- Port

Port for the SNMP communication
- WriteCommunity

Set the write community password for the MIB
- ReadCommunity

Set the read community password for the MIB
- Trap

Enables/disables the trap sending
- IP Address

IP of the current PC.
 By default: 127.0.0.1 (the same of localhost)
- Port

Port for trap communication
- TrapCommunity

Set here the trap community password for trap receiving
- Heartbeat interval
 (sec)

Every n seconds the YouPlay sends a heartbeat trap
- Video interval
 (sec)

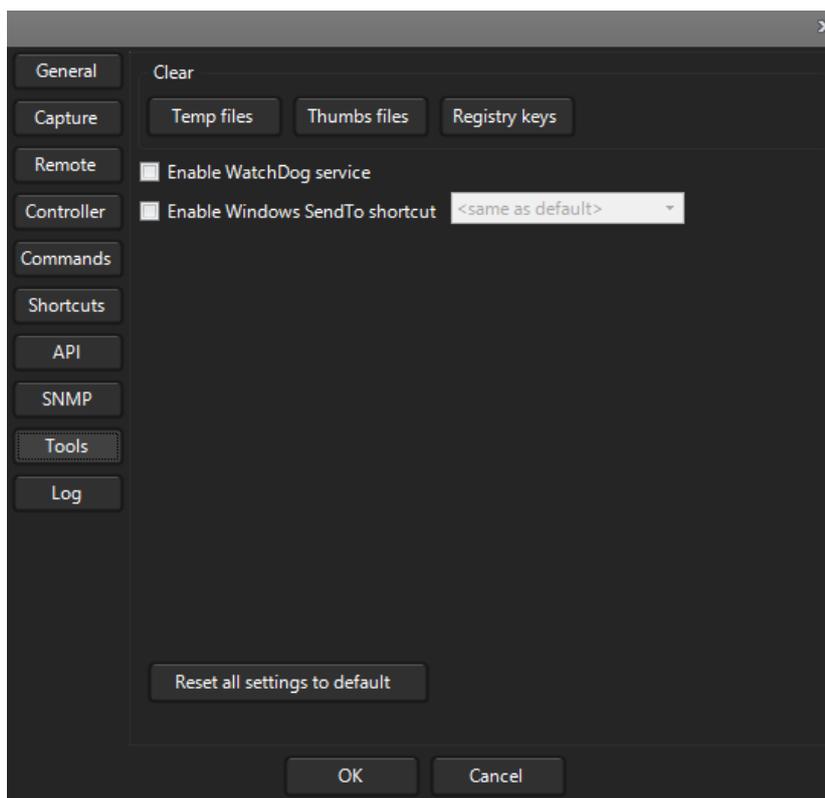
Time in seconds to check the video quality
- Video safe area
 (%)

Percentage of the video area to analyze
- Video threshold
 (%)

Percentage of video threshold limit to send a trap

- Freeze threshold 10 (%) Percentage of video freeze limit to send a trap
- Audio interval 5 (sec) Time in seconds to check the audio quality
- Audio threshold -32,0 (dB) Audio threshold limit value to send a trap

4.1.11 TOOLS

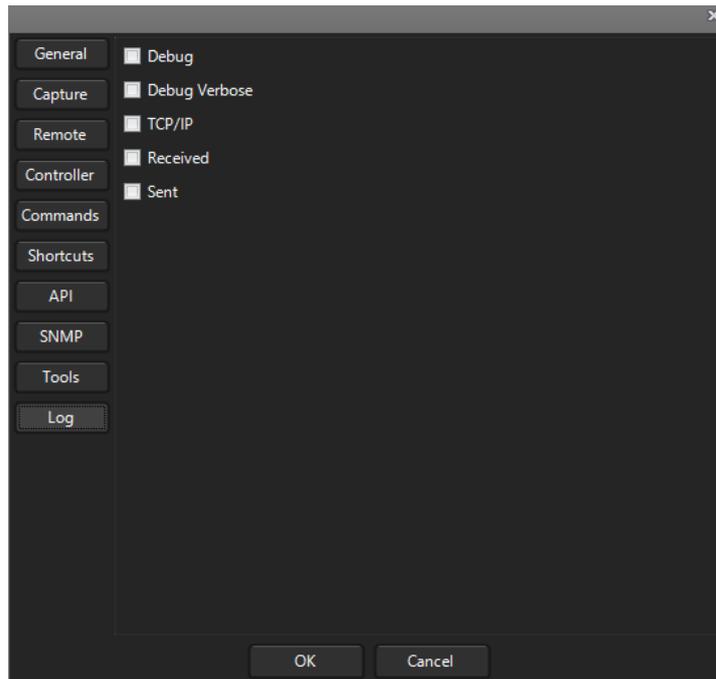


Tools setting panel is to clean all XIngest Temp files, Thumbs files and Registry keys:

- Temp files** Erases all the XIngest Temp files
- Thumbs files** Erases all the XIngest Thumbs files
- Registry keys** Erases all the Registry keys

- Enable WatchDog service** Enables/Disables the WatchDog service
- Enable Windows SendTo shortcut** <same as default> Enables/Disables Windows SendTo shortcut
- Reset all settings to default** By clicking this button all the default settings will be restored

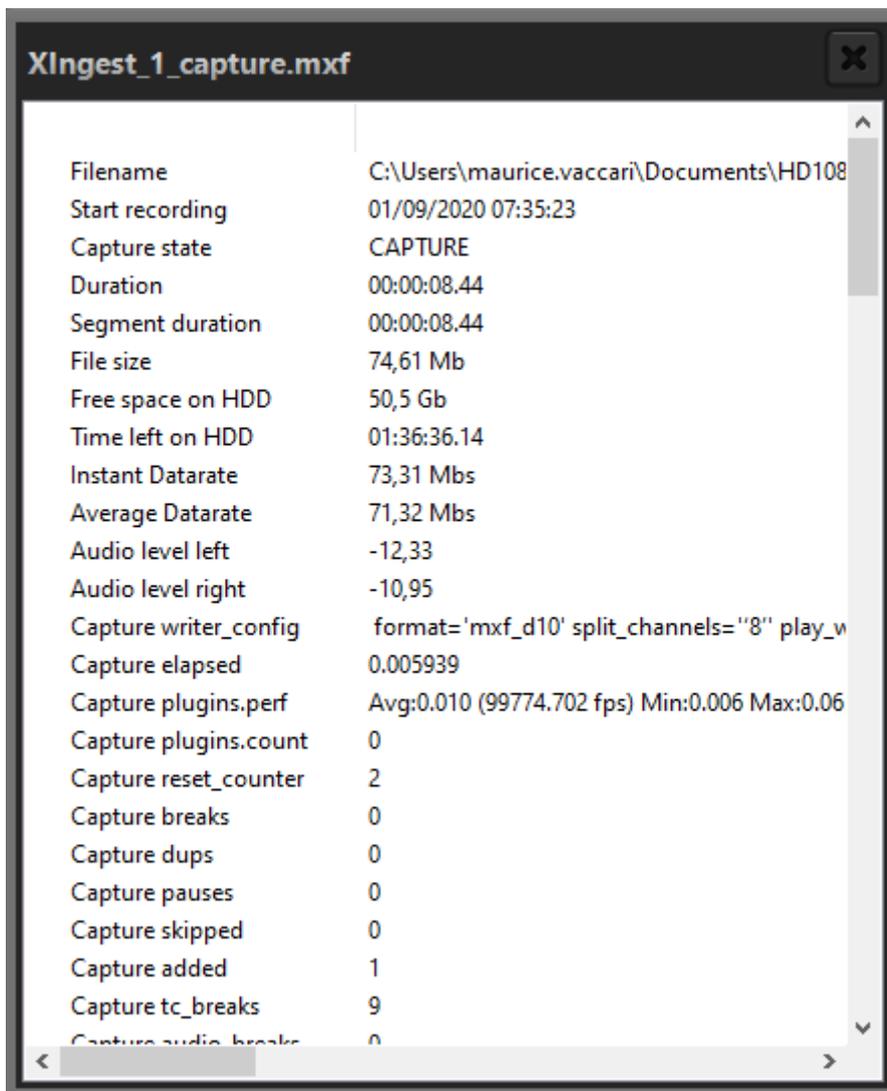
4.1.12 LOG



- Debug Enables the debugging logs
- Debug Verbose Enables the verbose logging of debug.
- TCP/IP Enables the communication logs TCP/IP
- Received Enables the logs of the communications in input.
- Sent Enables the logs of the communications in output.

4.2 STATS

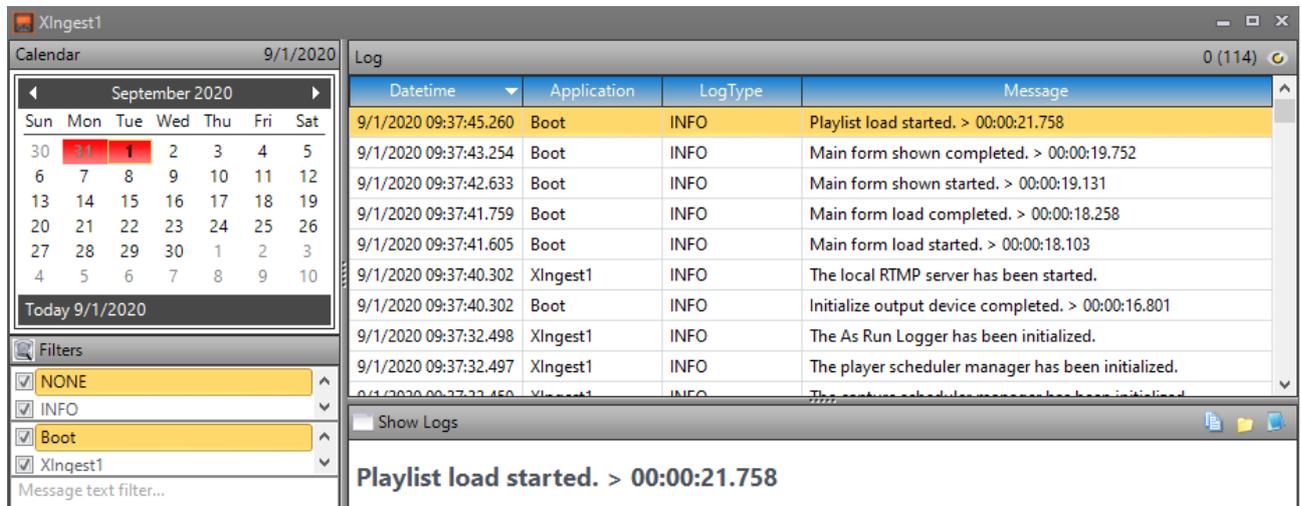
Opens the information windows with all the statistic of the current recording.



| | |
|-----------------------|--|
| Filename | C:\Users\maurice.vaccari\Documents\HD108 |
| Start recording | 01/09/2020 07:35:23 |
| Capture state | CAPTURE |
| Duration | 00:00:08.44 |
| Segment duration | 00:00:08.44 |
| File size | 74,61 Mb |
| Free space on HDD | 50,5 Gb |
| Time left on HDD | 01:36:36.14 |
| Instant Datarate | 73,31 Mbs |
| Average Datarate | 71,32 Mbs |
| Audio level left | -12,33 |
| Audio level right | -10,95 |
| Capture writer_config | format='mxf_d10' split_channels='8' play_w |
| Capture elapsed | 0.005939 |
| Capture plugins.perf | Avg:0.010 (99774.702 fps) Min:0.006 Max:0.06 |
| Capture plugins.count | 0 |
| Capture reset_counter | 2 |
| Capture breaks | 0 |
| Capture dups | 0 |
| Capture pauses | 0 |
| Capture skipped | 0 |
| Capture added | 1 |
| Capture tc_breaks | 9 |
| Capture audio_breaks | 0 |

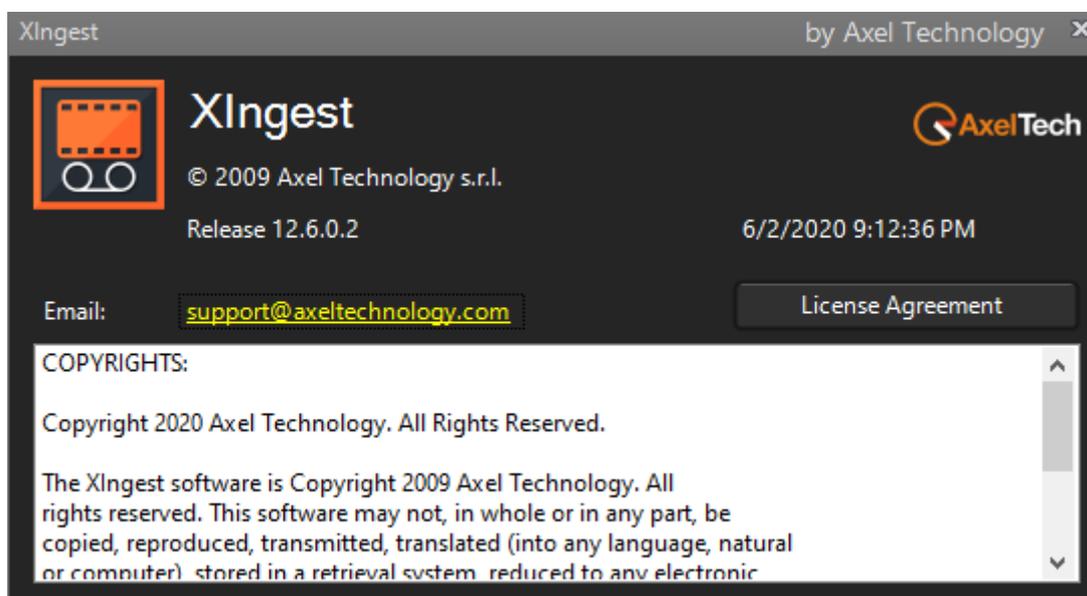
4.3 LOGS

Opens the logs panel of the instance: the logs could be filtered by message typology (INFO, ERROR, RECEIVED, SENT, EXCEPTION, TCP/IP, DEBUG, DEBUG VERBOSE, WARNING) or by date.



4.4 ABOUT

Opens the informations window of the instance: release date, software version, email of the technical support, licence and EULA.



5 XTRIMMER

XTrimmer is the tool for cataloguing and trimming videos inside the XTV Suite.
XTrimmer is a free software and it can be installed in other workstation without license activation.

5.1 XTRIMMER GUI



6.1.1. XTRIMMER - TOP AREA

In this top-area it is possible to read:

XTRIMMER – Output Mode – Video Standard – software release – date of the release

6.1.2. XTRIMMER - GENERAL CLIP MANAGEMENT

Area of general clip management:



Click on Browse to open the desired clip file by selecting it from the window that will appear.
Type the exact clip path to open it in XTRIMMER.



After the changes on the clip click on SAVE to apply them to the file.

Move

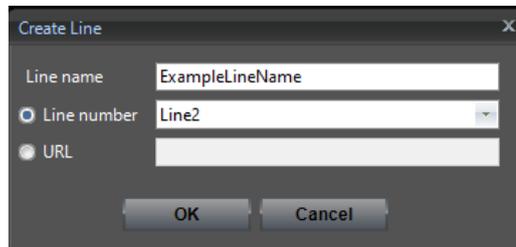
By clicking on MOVE you can set for a new file location by the window that will appear.

Rename

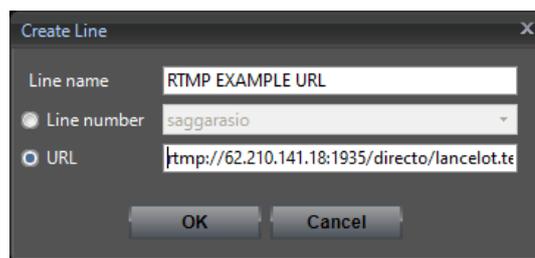
By clicking on RENAME you can type for a new name in the field that will appear.

Line

This parameter allows you to create and trim a LINE event category. The LINE event is an external contribution choosable between LINE numbers (in example TV Studio cameras or external journalist correspondents) and URL streams. The available LINE numbers are configurable and customizable by XPLAYOUT environment into SYSTEM SETTINGS > LINE tab.



Check **Line number** and select the desired line number between the availables to associate it with the current LINE object. Each **Line** could be a Live TV Studio camera or a Live external Sport Match.



Check **URL** and type the desired URL address to associate the LINE object to the desired URL.

Memo

- (**Text Memo**) this particular object will be only displayed into the playlist grid. It could be useful to set in the playlist some indicators (as PROMO, DAY, NIGHT) or anyother kind of info displayable only by the TV operators. Its creation by default sets for ClipDuration = 0 and for SKIP = ON.

By following tab you can name the clip as you desire.



Once the clip is inserted in the playlist grid into XPLAYOUT environment the related line will be displayed in yellow as shown by following picture:

| Scheduled Time | Real Time | Delay | Duration | Sub Title | Status | ID | Media |
|----------------|----------------------|-------------|----------|-----------------------------|--------|----|--|
| Manual | 1902/2020 - 10:25:41 | 00:00:00 | 00:00:00 | Audio | Ready | 10 | C:\User\matteo\Videos\document\2020\19022020 |
| Manual | 1902/2020 - 10:32:25 | +0:04 | 01 | memoexampleshowinusermanual | Ready | 10 | C:\User\matteo\Videos\document\2020\19022020 |
| Manual | 1902/2020 - 10:32:25 | 00:02:17:01 | | Batman VS Superman | | | C:\User\matteo\Videos\document\2020\19022020 |

- (**Routing**) when this MEMO object will be played into xplayout it will be able to control the external routing switchers or integrated cards previously set through the SYSTEM SETTINGS > LINE panel (the one displayed in the following picture)



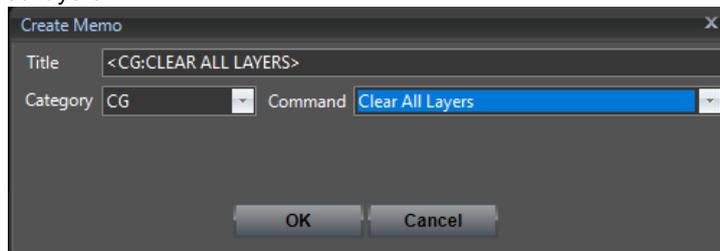
In **Command** parameter select the desired Line you want to be activated. If the selected line was correctly configured with its own routing rules, this related MEMO object will call it as a playlist item. It will be aired the related SAT source, Studio Camera, external contribution...



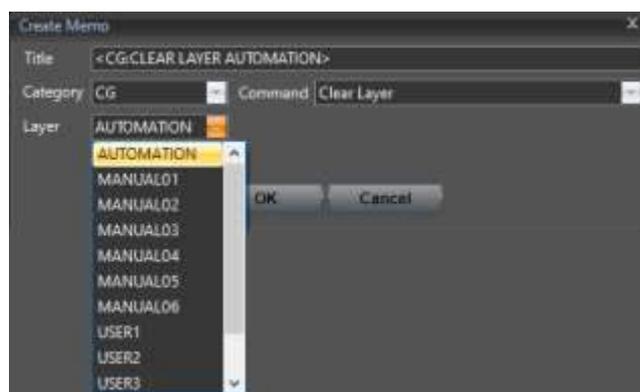
By this previous panel in **Command** menu select between available previously set Lines (each line could be related with SAT sources, Studio Cameras, external contributions...)

- (**CG**) if in playlist it is able to command the graphics management as START / CLEAR graphics. You can select by **COMMAND** dropdown menu between the 3 following available ways:

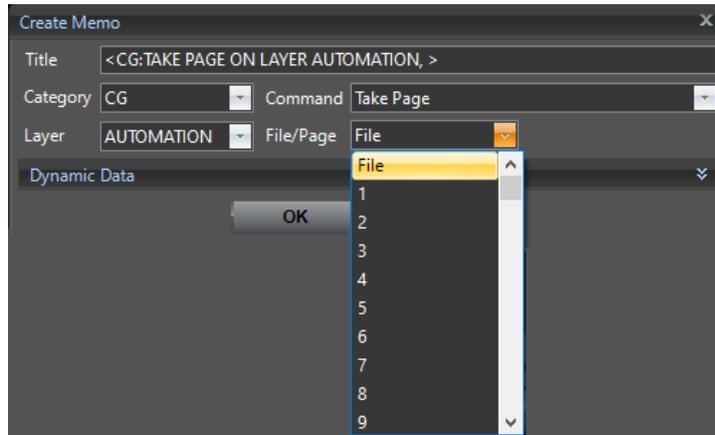
- The **Clear All Layers** Command will be automatically named as **<CG:CLEAR ALL LAYERS>**: when this object will be played into xplayout it clears all the previous enabled graphic objects from all the current aired layers:



- The **Clear Layer** Command will be automatically named as **<CG:CLEAR LAYER AUTOMATION>**: when this object will be played into xplayout it clears all the previous enabled graphic objects from the layers selected into **Layer** drop down menu at the bottom-left



- The **Take Page** Command will be automatically named as **<CG:TAKE PAGE ON LAYER AUTOMATION, >**: when this object will be played into xplayout it airs the graphics into the selected all the previous enabled graphic objects from the selected files or pages into **File/Page** drop down menu at the bottom-right:



- (**IP Streaming**) if in the playlist it is possible to activate or deactivate both (or individually) the 2 streams previously set in xplayout **IP STREAMING** (xplayout area in the following picture)



All the available IP STREAMING > MEMO options will be the following ones:

- **START streaming Ch 1, autostart ON**

When this MEMO object will be played into xplayout it activates only the streaming 1 (in the case of this streaming is not already activated) and activates the streaming 1 autostart by all the next xplayout runs.

- **START streaming Ch 1, autostart OFF**

When this MEMO object will be played into xplayout it activates only the streaming 1 (in the case of this streaming is not already activated) and deactivates the streaming 1 autostart by all the next xplayout runs.

- **STOP streaming Ch1**

When this MEMO object will be played into xplayout it deactivates only the streaming 1 (in the case of this streaming is activated)

- **STOP streaming Ch 2, autostart ON**

When this MEMO object will be played into xplayout it deactivates only the streaming 2 (in the case of this streaming is activated) and activates the streaming 1 autostart by all the next xplayout runs.

- **START streaming Ch 2, autostart OFF**

When this MEMO object will be played into xplayout it activates only the streaming 1 (in the case of this streaming is not already activated) and deactivates the streaming 1 autostart by all the next xplayout runs.

- **STOP streaming Ch 2**

When this MEMO object will be played into xplayout it deactivates only the streaming 2 (in the case of this streaming is activated)

- **START streaming Ch 1 and 2, autostart ON**

When this MEMO object will be played into xplayout it activates both the streamings 1 and 2 (in the case of these streamings are not already activated) and activates both the streaming 1 and 2 autostarts by all the next xplayout runs.

- **START streaming Ch 1 and 2, autostart OFF**

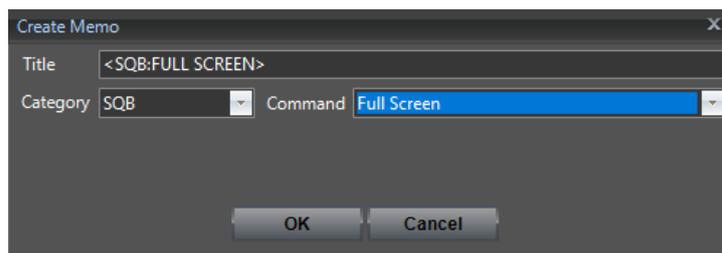
When this MEMO object will be played into xplayout it activates both the streamings 1 and 2 (in the case of these streamings are not already activated) and activates the both the streaming 1 and 2 autostarts by all the next xplayout runs.

- **STOP streaming Ch 1 and 2**

When this MEMO object will be played into xplayout it deactivates both the streamings 1 and 2 (in the case of these streamings are activated)

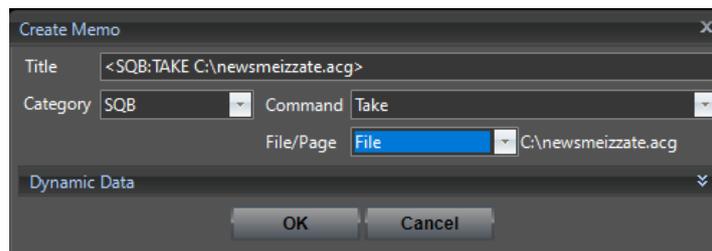
- (**SQB**) if the SQB memo is scheduled into the playlist it activates/deactivates the squeezeback option. The available modes are:

FULL SCREEN



By choosing the memo **COMMAND** as **Full Screen** mode any SQB activated will be disabled and the clip will be reproduced in full screen.

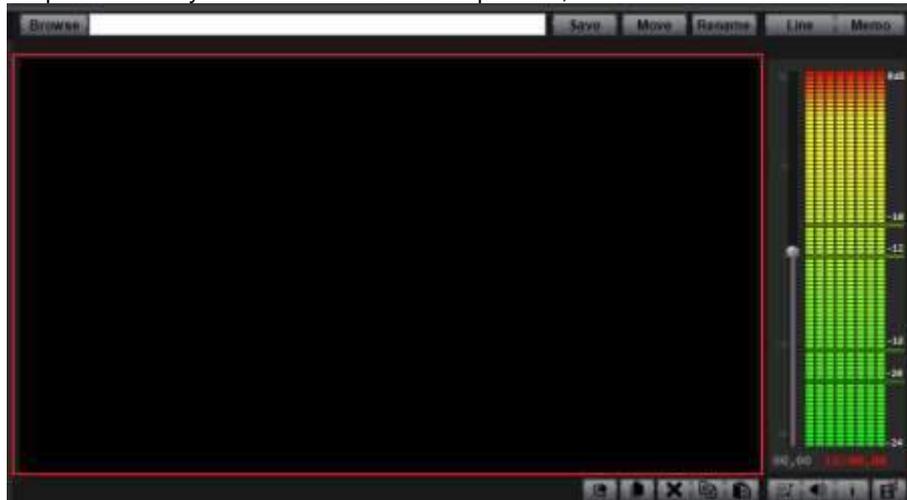
TAKE



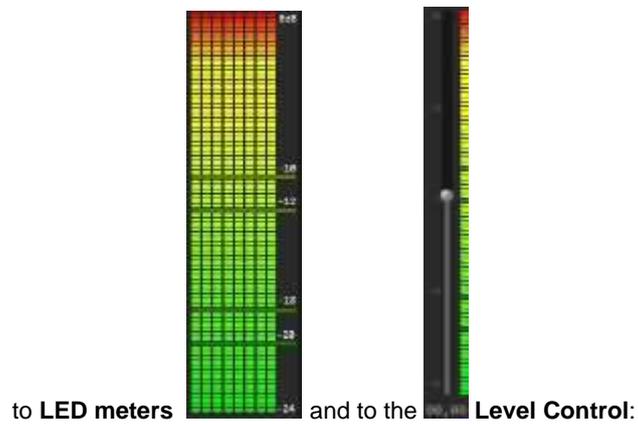
By choosing the memo **COMMAND** as **Take** mode, the SQB will be activated on the clips with the selected external Picture in Picture .acg **File/Page**

6.1.3. XTRIMMER – CLIP PREVIEW AREA

In the following red square section you can see the XTrimmer preview,



Next to preview area you have the section reserved



-  Export metadata to external files
-  Copy metadata to all subclips
-  Delete clip metadata [DEL]
-  Copy clip metadata
-  Paste clip metadata
-  Audio Channels
-  Loudness Analysis
-  Show media info
-  Split subclip

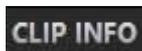
6.1.4. XTRIMMER – CLIP METADATA AREA

The entire videoclip and either the subclips created can contain metadatas, useful for cataloguing and insert notes attached to the clip. All the information are stored directly inside the media file, without using database or external files. In this way you can copy media files in every NTFS format drives and the information will be always visible. In this section is possible to read current clip metadata and also to customize them according with your needs.

All changes done in this area will only affect the current clip.
Clip Metadata could be divided into 3 sections: **CLIP INFO**, **GRAPHICS** and **EXTRA**:



6.1.4.1. XTRIMMER – CLIP METADATA AREA – CLIP INFO SECTION

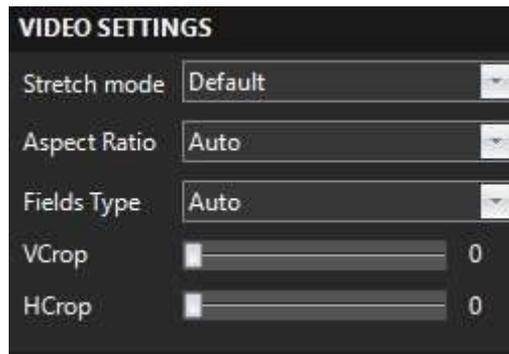


By this trimming section you can customize all of the most important clip metadata.

The first **CLIP INFO**'s subsection is related with the general clip info: **CLIP NAME**, **GENDER**, **TYPE**, **EPG**, **PARENTAL**

- **Clip Name:** type here the desired clip name. This change does not affect the original file name. It could be useful for you in the following **XTV Suite** softwares: **XScheduler**, **XPlaylist** and **XMusic...**
- **Gender:** select here the clip gender. Here you find some genders: default ones and customized ones. To delete, create or add genders go to **XTrimmer Settings > Genders**.
- **Type:** a further form of cataloging clips, which can be useful for archiving purposes, can be the Type parameter. By default you can find Type1, but you can remove, change or add for new ones by going to **XTrimmer Settings > Types section**.
- **EPG:** By activating this check, the default metadata of the clip or those modified in this same section (clip name, gender, type, parental) will be embedded and transmitted into the playlist by the digital EPG protocol of the channel. The transmission of the EPG could be activated or deactivated in **Xplaylist > Subtitles > EPG**.
- **Parental:** this parameter it serves as an indicator for a recommended minimum age of the viewer. The selected number recommends the program to viewers with an age equal to or greater than that number. If EPG check will be activated, the Parental will be also displayed by digital receiving decoders

The second CLIP INFO's subsection is related with Video Settings parameters:



- **Stretch mode:** from the dropdown menu you can select the desired stretch mode option. Available ones are:
 - o **Default:** this option leaves the stretch option set in **XTrimmer > Video Settings > Default stretch mode**.
 - o **Preserve Aspect:** by selecting this option the **XTrimmer > Video Settings > Default stretch mode** will be bypassed. The aspect ratio will be preserved in any resolution by adding two black bars above and below the image
 - o **Preserve Aspect No Letterbox:** by selecting this option the **XTrimmer > Video Settings > Default stretch mode** will be bypassed. The aspect ratio will be preserved in any resolution without adding two black bars above and below the image.
 - o **Stretch:** by selecting this option the **XTrimmer > Video Settings > Default stretch mode** will be bypassed. This option stretches the video to the selected resolution without preserving the aspect ratio

- **Aspect Ratio:**
 - o by choosing **Auto** the Aspect Ratio will be the one defined one as playout default.
 - o By choosing **4:3** the playout will be forced to keep this aspect ratio during the airing of the current clip.
 - o By choosing **16:9**: the playout will be forced to keep this aspect ratio during the airing of the current clip.

- **Fields Type:**
 - o By choosing **Auto**: the Field Order will be the defined one as playout default
 - o By choosing **Top**: the playout will be forced to follow this Field order for the current clip.
 - o By choosing **Bottom**: the playout will be forced to follow this Field order for the current clip.
 - o By choosing **Progressive**: the playout will be forced to follow this Field order for the current clip.

- **VCrop:** select the desired clip's Vertical Crop.
- **HCrop:** select the desired clip's Horizontal Crop.

If you need, the third Clip Info's subsection is designed to let you add some comment notes

- **NOTE:** if you need, type here any desired note to be added to the clip metadata. This Note it will not be transmitted by your channel.

6.1.4.2. XTRIMMER – CLIP METADATA AREA – GRAPHICS SECTION



Graphics section allows you to manage all the clip behaviors related with its graphics.

The first **GRAPHICS** subsection **Transitions** is related with the transition effects of the clip and their durations: IN EFFECT, IN DURATION, OUT EFFECT, OUT DURATION.

The second **GRAPHICS** subsection **LOGO** is used to set a desired graphics on your clip by default every time you air it with **XPlayout**.

All of these **Transitions** and **LOGO** settings could be saved in a graphic customized preset that you can recall from the top **Preset** menu.

TRANSITIONS:

Effect In: when the clip starts to airing in **XPlayout**, its entrance will follow the **Effect In** selected in this parameter.

In Duration: decide here the duration of the **Effect In**

Out Effect: when the clip ends being aired in **XPlayout**, its output will follow the **Effect Out** selected in this parameter.

Out Duration: decide here the duration of the **Effect Out**

LOGO:

Logo Select: select here the Graphics behavior. The graphics could be set by the File/Page parameter.

- General: set the graphics for all the clip duration
- Entrance: the graphics will be displayed during the clip entrance
- Exit: the graphics will be displayed during the clip exit.

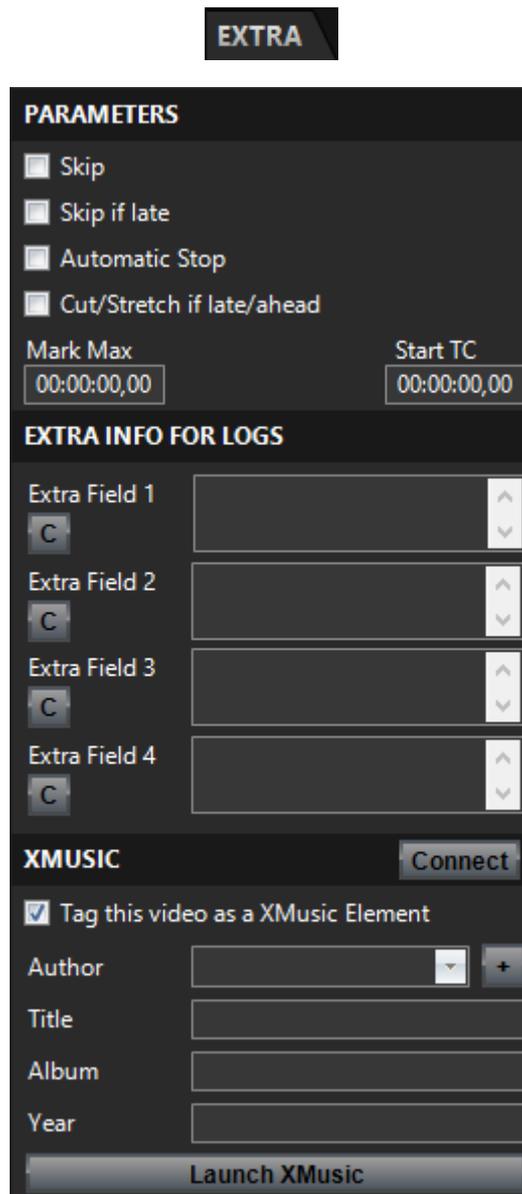
File/Page: select the graphic source.

- None: any graphics will be displayed on the clip
- File: select the .acg file that will be the graphic source file for the current clip.
- 1, 2, 3, 4, 5: If the graphics will be managed by XPlayout, select here the relate page that will be the clip's graphics (CG Page).

Dynamic Metadata: DATA1, DATA2, DATA3...

Hide Manual Graphics: force the manual graphics hiding

6.1.4.3. XTRIMMER – CLIP METADATA AREA – EXTRA SECTION



PARAMETERS

Skip: when the clip is scheduled into XPLAYOUT, it will be automatically skipped

Skip if late: when the clip is scheduled into XPLAYOUT, if late, it will be automatically skipped

Automatic Stop: when the clip is scheduled into XPLAYOUT, the automatic stop option will be enabled on the clip. Each time this clip is played, it switches playback to manual mode.

Cut/Stretch if late/ahead: If checked, gives the possibility to cut the clip if the playlist is in late or stretch it if it is ahead of time.

Mark Max: The mark out is settable

Start TC: each time the clip is played its timecode starts from the value set in this parameter

EXTRA INFO FOR LOGS

Extra Field 1 / Extra Field 2 / Extra Field 3 / Extra Field 4: This fields allows you to type extra informations. They will appear as a comments in our traffic & billing software RamComm.

XMUSIC

This section allows you to tag the clip as a music clip for the **XMUSIC** scheduler, available in th **XTV Suite**.

XMUSIC is a client server system to create schedules.

By server side all the clips datas and schedule rules are stored in a centralized database.

By client side you can interact with the server changing the info, rules, categories

By selecting some desired rules this scheduler allows you to create the desired automatic schedule. The rules are based on 2 important parameters:

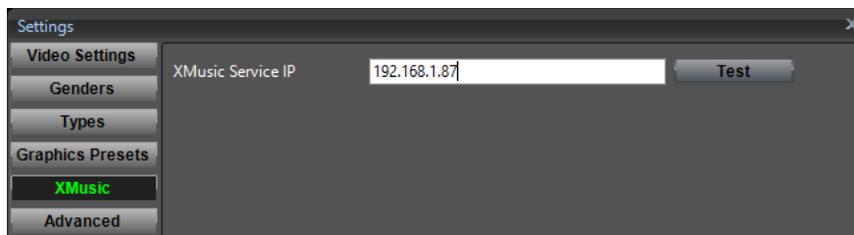
- Time and date
- XMUSIC categories managed on XMUSIC Client (Gender and Artist. You can discover them by reading the proper XMUSIC section into this user manual)

Connect: if the **XTrimmer PC** communicates with the **XMUSIC Service PC** it will be possible to tag clips through the **XMUSIC Client** special tags.

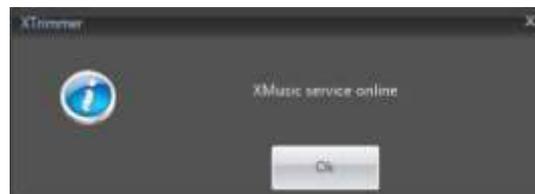
Before the **CONNECT** button could work properly you have to set few things correctly.

On the **XMUSIC Service PC** start **XMUSIC Service**.

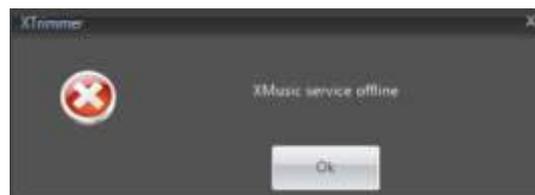
On **XTrimmer PC** type the **XMUSIC Service** IP Address in the following parameter **SETTINGS**  > **XMUSIC** > **XMUSIC Service IP:**



If the typed IP is correct, by clicking on the next **TEST** button you can verify if the connection could be correctly established, you will see the following confirmation message:



Else, if typed IP is wrong or XMUSIC Service has not been started on its own PC, you will see the following **ERROR** message:

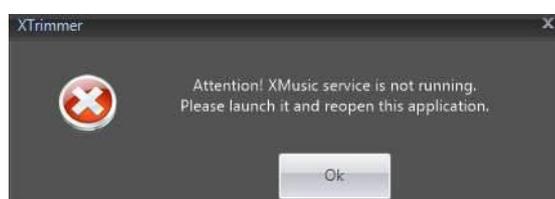


If the connection test result was XMUSIC Service Online, you can proceed by trimming the music clip by XMUSIC parameters, to do that please go back to the proper **XTRIMMER > EXTRA > XMUSIC** section

Then click on **Connect**

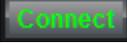
If the **CONNECT** button turns green  the trimming operations could be supported by **XMUSIC Client** categories.

If the **CONNECT** button faces some issue you will see the **ERROR** message below:



To solve the XMusic unreachability, please verify:

- If the **XMusic Service** is ON in its PC. If not please start it.
- If the **SETTINGS**  > **XMUSIC** > **XMUSIC Service IP** is correct, if not please change it with the correct one

After all the needed corrections and after the  button turned green you can proceed with the parameters listed below:

Tag this video as a XMusic Element: by checking this parameter you are allowed to

- tag the current clip with the available **XMusic** Authors. If the Author of the current clip is not in the XMusic archive, by this section you can type it and add it there.
- tag the current clip with Title, Album, Year.

Author: if the author is available in the drop down menu, select it. If the author is not available type it and click on  to add it in XMusic archive.

Title: Type the clip title

Album: Type the clip album

Year: Type the album year.

Launch XMusic: by clicking this parameter you will directly open XMusic Client.

6.1.5. XTRIMMER - DISPLAY OF MARKER VALUES

Displays the current parameters (MARK IN, INTRO, DURATION, FILE DUATION, POSITION, OUTRO, MARK OUT)

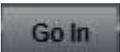
In the following section are displayed all the marker settings of the clip, its total file duration and the current cursor position:

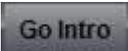
| MARK IN | INTRO | DURATION | FILE DURATION | POSITION | OUTRO |
|-------------|-------------|-------------|---------------|-------------|-------------|
| 00:44:27,02 | 00:44:27,02 | 00:21:17,30 | 01:30:41,00 | 00:00:00,00 | 01:05:45,01 |

6.1.6. XTRIMMER - MARKER SETTINGS, PLAYBACK AND CLIP NAVIGATION CONTROLS

 set the clip mark in

 set the start of the clip intro

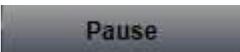
 go to the previously set mark in of the clip

 go to the related mark in previously set in the AXEL VJPRO software

 Rewind the clip

 go to previous frame

 play the clip

 pause the clip

 go to next frame

FF fast forward the clip

Go Outro go to the related mark out previously set in the AXEL VJPRO software

Go Out go to the previously set mark out of the clip

Set Outro set the start of the clip outro

Mark Out set the clip mark out

6.1.7. XTRIMMER - CLIP THUMBNAILS AND AUDIO WAVEFORM DISPLAYING

This XTrimmer section displays thumbnails and audio waveform of the clip

 By clicking on this button you will be able to zoom in or zoom out the clip audio waveform.

 Zoom in

 Zoom out

 to marks thumbnails and waveform displayed will be between mark in and mark out.

 all All the audio track and all the clip thumbnails will be displayed on the timeline.

 min. The current cursor position will be placed in the center. It will be preceded by the previous 30 seconds and will be followed by the next 30 seconds

 By clicking on this button you will be able to set clip mark points or to delete them:

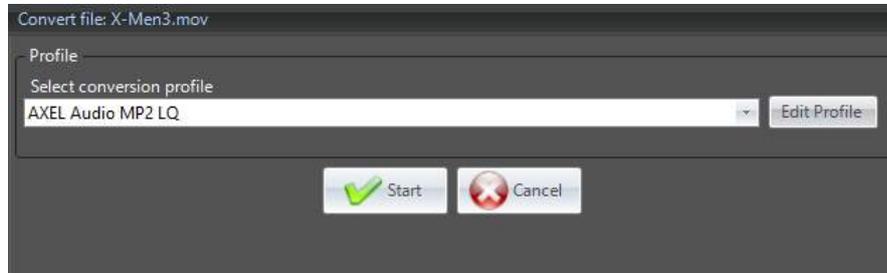
-  set the mark in to the current point of the thumbnails and navigation bars
-  set the mark out to the current point of the thumbnails and navigation bars
-  clear all markers previously set for the current clip



by clicking on this button you will be able to convert audio/video clip format format



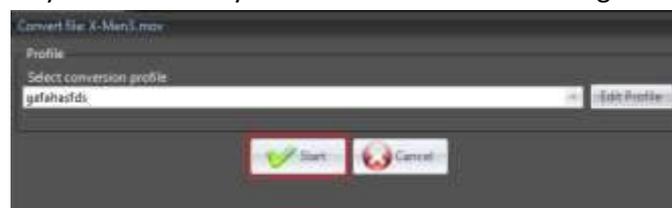
- By clicking on this button you can convert all the clip with available converting profiles. It is also possible to Edit the selected profile with your desired and customized settings.



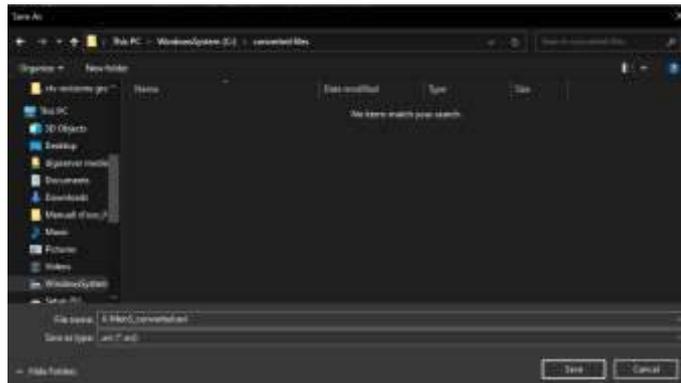
By opening the profile drop-down menu you can select the desired one between the availables. If you want to change the selected one or to create a new one click on Edit Profile. The next window will appear:



Set all the parameters in your desired ways and click OK to confirm changes.



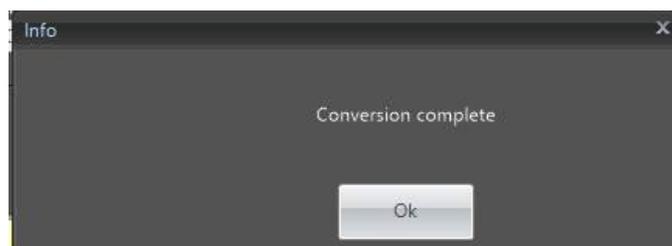
As described by the previous picture, by clicking on START you proceed with the file conversion.



Select between all of your folders the desired one you want to be the conversion target and click on SAVE.

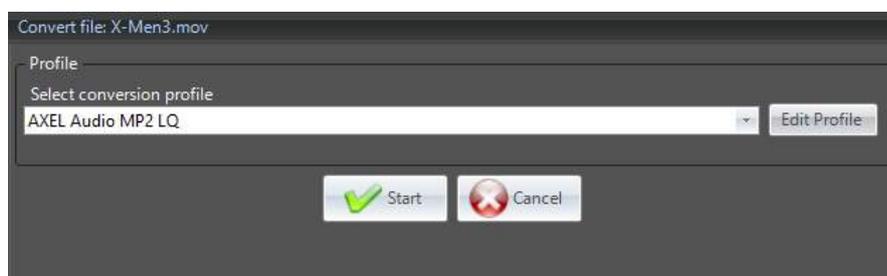


A progression bar of the conversion will be shown



A message of the conversion completion will appear. Click on Ok

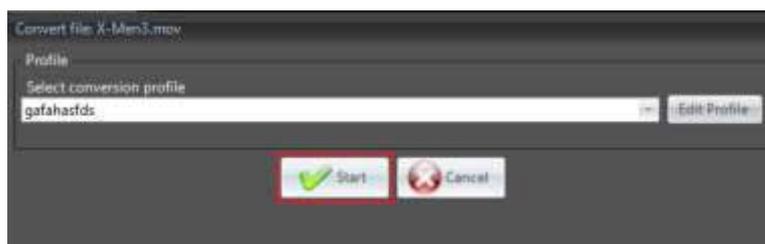
-  By clicking on this button you can convert the previously selected clip portion with available converting profiles. To select the interested portion markers have to be set (mark in and mark out points). It is also possible to Edit the selected profile with your desired and customized settings.



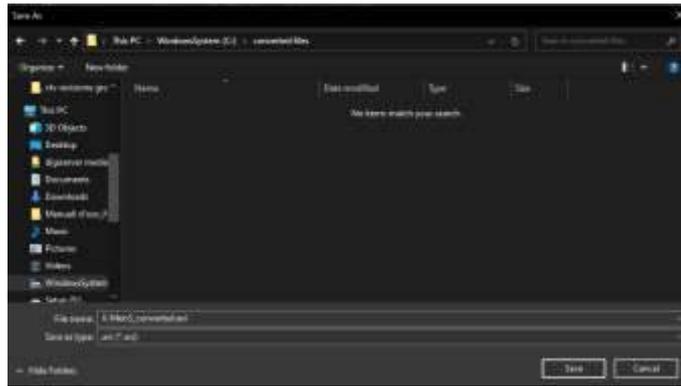
By opening the profile drop-down menu you can select the desired one between availables. If you want to change the selected one or to create a new one click on Edit Profile. The next window will appear:



Set all the parameters in your desired ways and click OK to confirm changes.



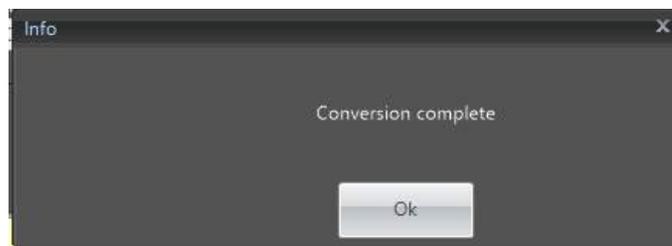
As described by the previous picture, by clicking on START you proceed with the file conversion.



Select between all of your folders the desired one you want to be the conversion target and click on SAVE.



A progression bar of the clip portion conversion will be shown



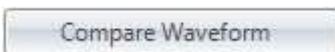
A message of the conversion completion will appear. Click on Ok



By this button you will enter into a show/hide menu:



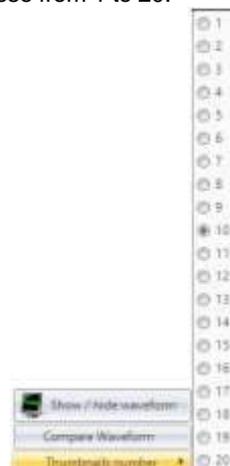
Click this button to Show the clip waveform if it is not displayed.
Click this button to Hide the clip waveform if it is displayed.



By clicking this button it is possible to compare the clip waveform with the related DJPRO waveform.



Choose the thumbnails number to be displayed in the thumbnails bar.
As described by the following picture you can choose from 1 to 20.



6.1.8. XTRIMMER – SUBCLIPS MANAGEMENT AREA

This XTRIMMER right area is useful to display and manage all the subclips.

The clip could be divided into different subclips.

The divided clip into different parts (subclips) could be useful to broadcast it with Advertisement insertion (or to have different parts of a movie or a program).

For subclips creation, in the clip set the mark in and mark out for the desired subclip through the buttons MARK IN and MARK OUT



double-click on the video preview to create the subclip



The subclip will be automatically created and it will be displayed in this subclip area.

To apply the clip with all of its subclips save the trimmed clip.

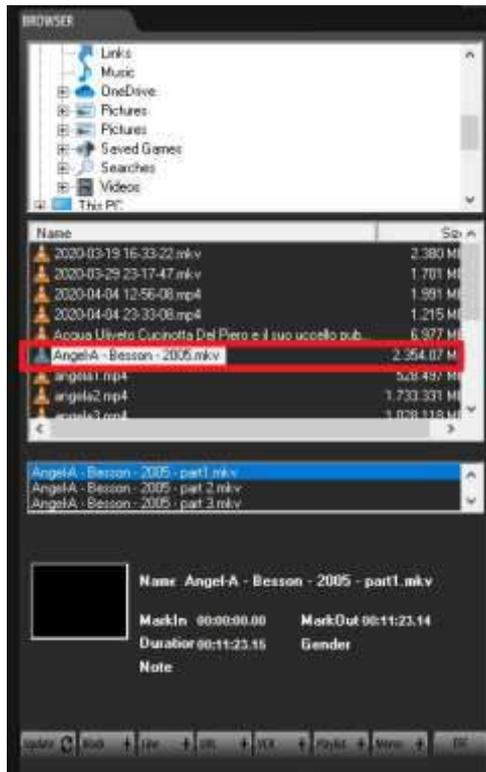
XPLAYOUT subclips management:

ADDING A SUBCLIP ON XPLAYOUT

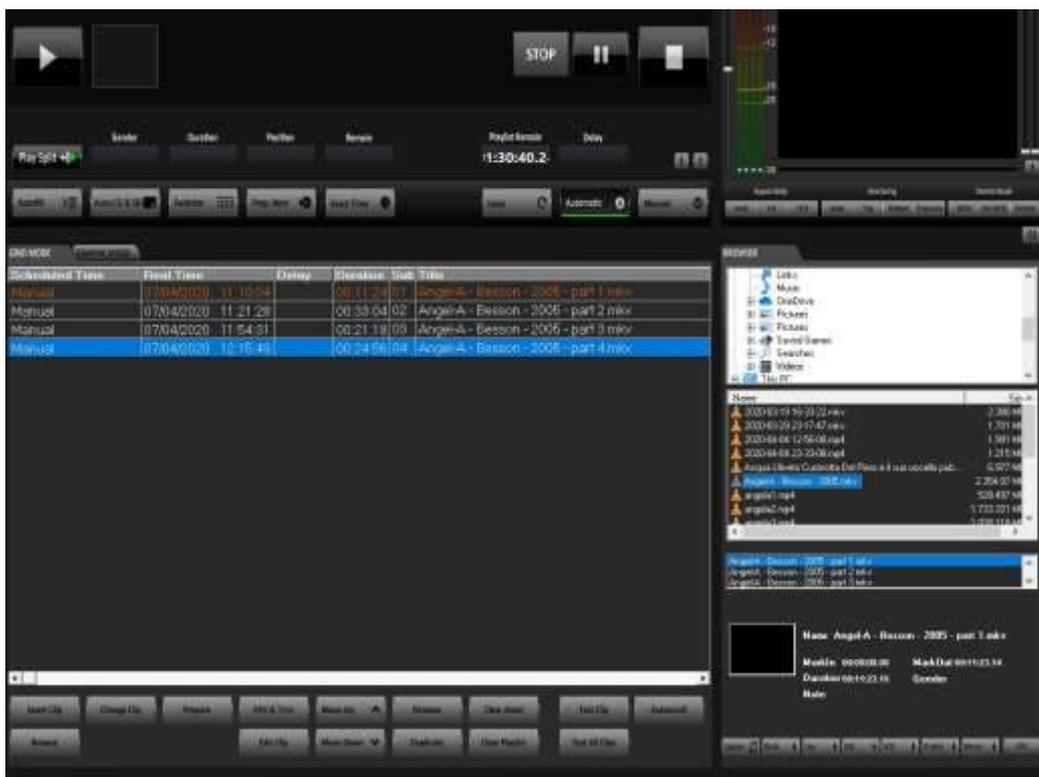
Click on INSERT CLIP at the bottom-left of the Home Page:



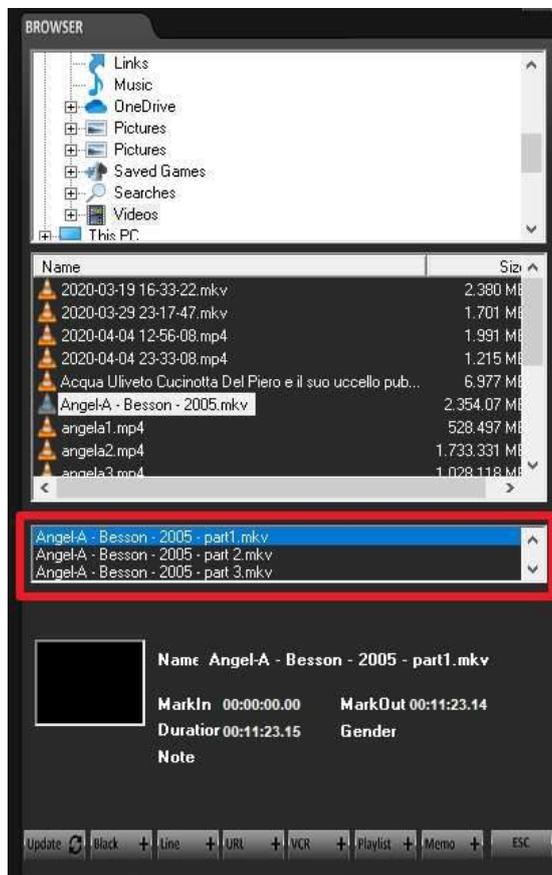
A File Browser will be opened at your right. Select the trimmed file with all the subclips markers data. Double click on it to add all the clip with all of its subclips:



By double-clicking on the trimmed clip or by drag and dropping it into your xplayout playlist, it will be added in all of its subclips as well explained by the following picture:



If you prefer it is possible to add into your playlist only one of the available subclips. Under the File Browser you can select the desired subclip that you want to add in the current XPLAYOUT playlist:



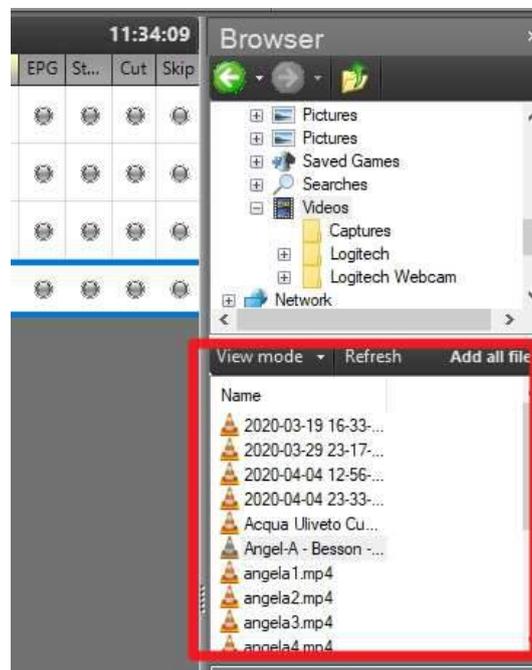
ADDING A SUBCLIP ON XSCHEDULER

By the XSCHEDULER module of XTV SUITE, you can prepare your own playlist or you can prepare the order of different playlists to be aired through XPLAYOUT module.

- You can find the clip browser at your right. select your desired folder:

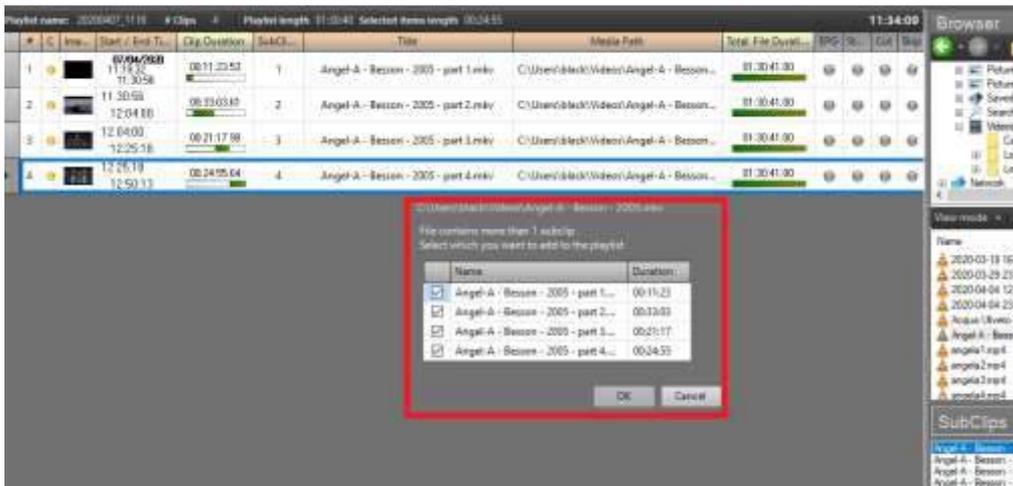


below you can see the files list of the selected folder. select the desired file to be added to the current playlist.

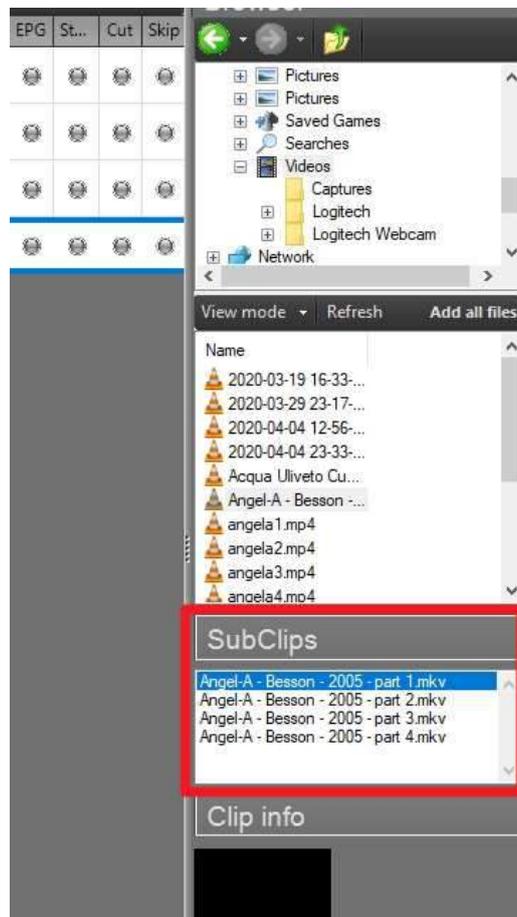


By double clicking on it or by drag-drop you can add it in the playlist.

if the selected file has been previously trimmed with different subclips, a window will appear and you can select the subclips that you want to add and click on OK:



by your XSCHEDULER, below, in the SUBCLIPS section, you can see the available subclips. You can add the desired subclip by doubleclicking it:



6.1.9. XTRIMMER – SETTINGS

6.1.9.1. VIDEO SETTINGS

Open XTRIMMER settings. Originally XTRIMMER was built only for VGA purposes, now it also has the option to be connected to a Blackmagic device or other Video Devices. In this section you could set all of its Video Output parameters. Here the Video Settings tab:



Video Preset: In this top section you can access easily to 4 SD and HD default Video Format presets:

SD PAL
SD NTSC
HD PAL
HD NTSC

Select your desired and go on with other parameters set up.

Device: select the Output Device of your XTRIMMER between available ones, as your external Video Switcher, Video Router or between your internal Video Card.

Device Output Line: if available, select the desired Output Line of your selected Device. Usually, this option works fine if you are provided of a multichannel output Video Device.

Video Format: This parameter was already set by the **Video Preset** selection. If you need other specific video format here you can select it between available ones.

Audio Format: It is also possible to set here the output audio format

Preview frame rate: Select the frame rate of the preview

Default stretch mode:

Preserve Aspect: the aspect ratio will be preserved in any resolution by adding two black bars above and below the image

Preserve Aspect No Letterbox: the aspect ratio will be preserved in any resolution without adding two black bars above and below the image

Stretch: stretch the video to the selected resolution without preserving the aspect ratio

VGA Compatibility Mode: Change the video preview in order to be compatible with particular remote connection softwares (e.g. Remote Desktop)

AV Direct Out: enabling Audio/Video direct out each frame will be sent without any extra processing.

10 bit Video: force XTRIMMER output preview to be a 10 bit Video. The activation of this check allows subtitles to be displayed on the output.

Key Output: if enabled sets Blackmagic output on RGB 32 with fill and key separated (if the video card can support it). E.G. for SD BM Studio 2, for HD BM 4k.

NDI Output: enabling a XTRIMMER output preview on NDI channel

Disable audio VGA mode: this check disables the audio when VGA Compatibility Mode is on

Show OSD Waveform: OSD (On Screen Display) audio waveform on preview

Show OSD VUmeters: OSD (On Screen Display) vu meters on preview

Loudness Analyzer Mode: from the drop-down menu select between the available loudness analyzer modes according with the related metering specifications.

Stop at Markout: the preview playback stops when the cursor reaches the clip markout point.

NVIDIA GPU Decoding: if a NVIDIA board is connected to the current PC, this option could be selectable to free the CPU and the internal graphic engine on this PC from the encoding stress. By checking this parameter the XTRIMMER offloads any encoding process to an external NVIDIA device.

6.1.9.2. GENDERS

In all of the **XTV Suite** environment, each clip could be tagged with a specific clip gender. The **XTRIMMER** set gender could be visible on all of other suite softwares, in example as **XSCHEDULER** and **XPLAYOUT**.

Default available genders are:

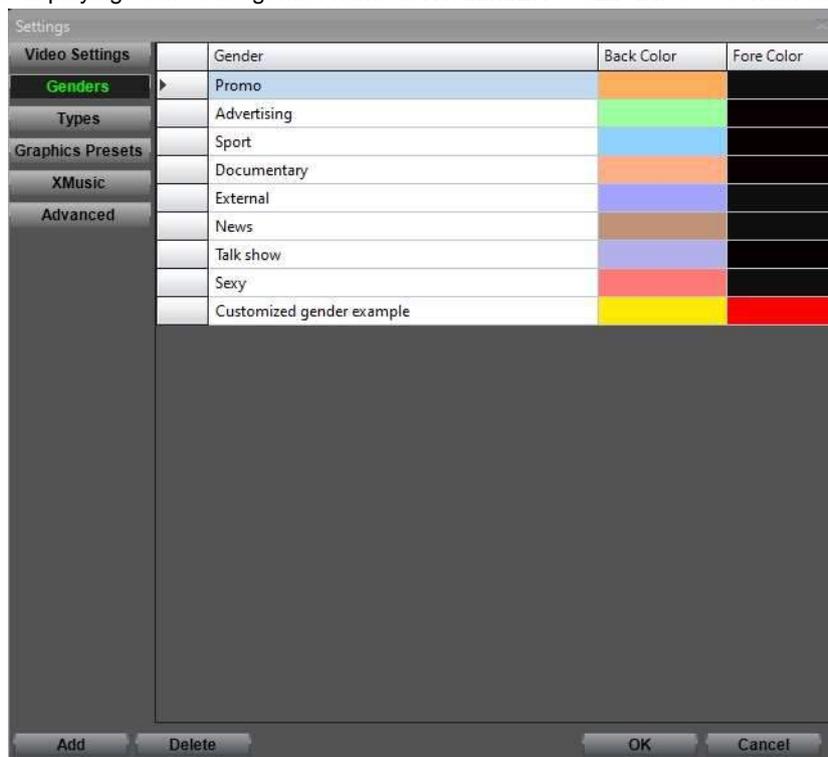
- **Promo**
- **Advertising**
- **Sport**
- **Documentary**
- **External**
- **News**
- **Talk Show**
- **Sexy**

This **GENDERS** settings area into **XTRIMMER** allows you to manage all the genders:

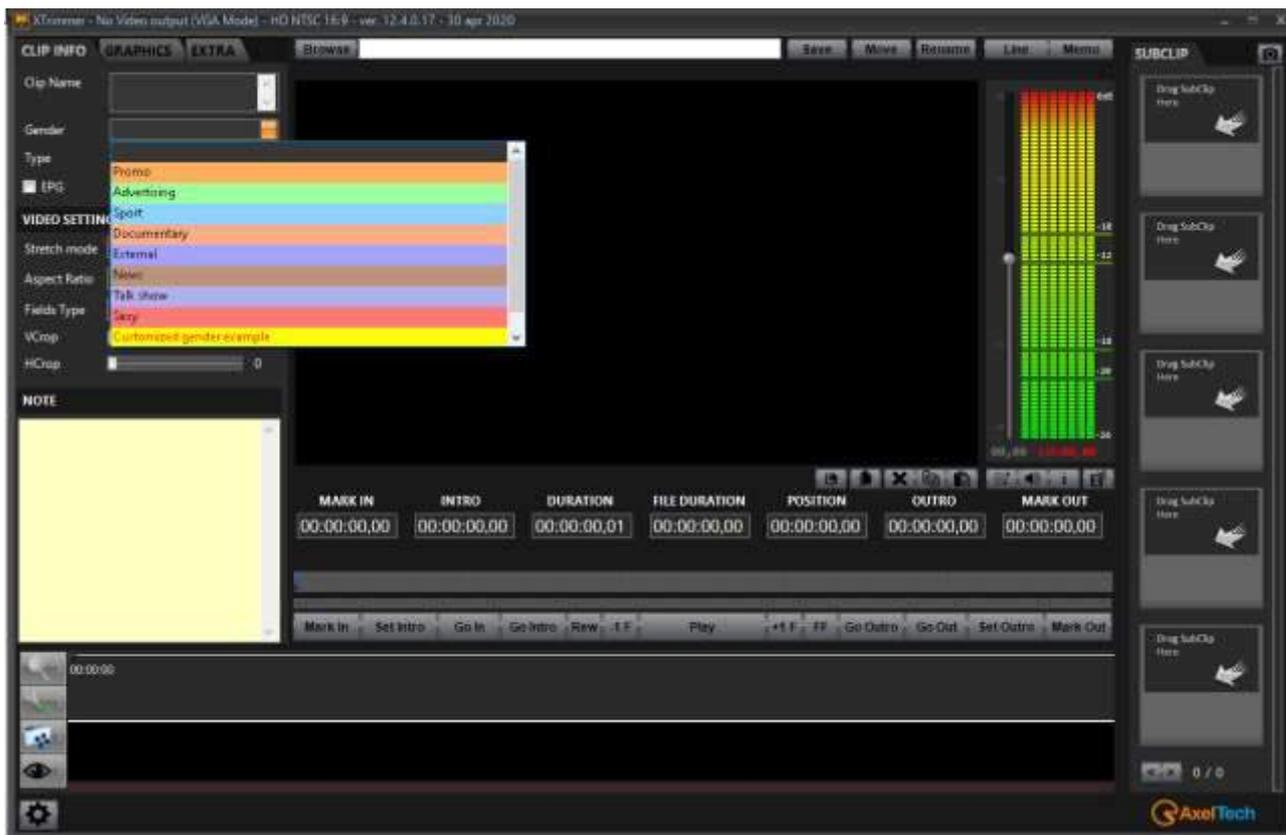
- to add for new one by clicking on **Add**
- to delete the selected gender by pressing **Delete**
- to change the gender name by double-clicking on the related **Gender** Column line
- to change gender colors by double clicking on **Back Color** column (or **Fore Color** column) of the desired line and by selecting the new desired color.

Back Color is the displaying background color of the gender in the **XTRIMMER > CLIP INFO > Gender** menu

Fore Color is the displaying color of the gender name in **XTRIMMER > CLIP INFO > Gender** menu.



XTrimmer gender displaying is shown in the picture below:



6.1.9.3. TYPE

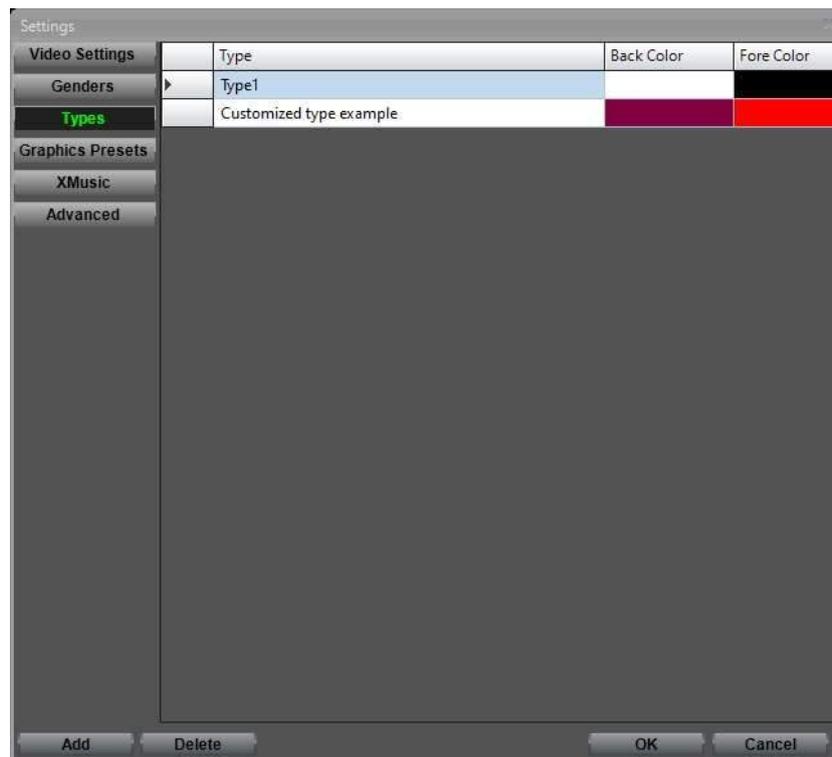
Into **XTRIMMER**, another useful and fully customizable tagging method of the clip is the Type. As explained for GENDER you can define the **TYPE** name, its **Back Color** and its **Fore Color**.

This **TYPE** settings area into XTRIMMER allows you to manage all the types:

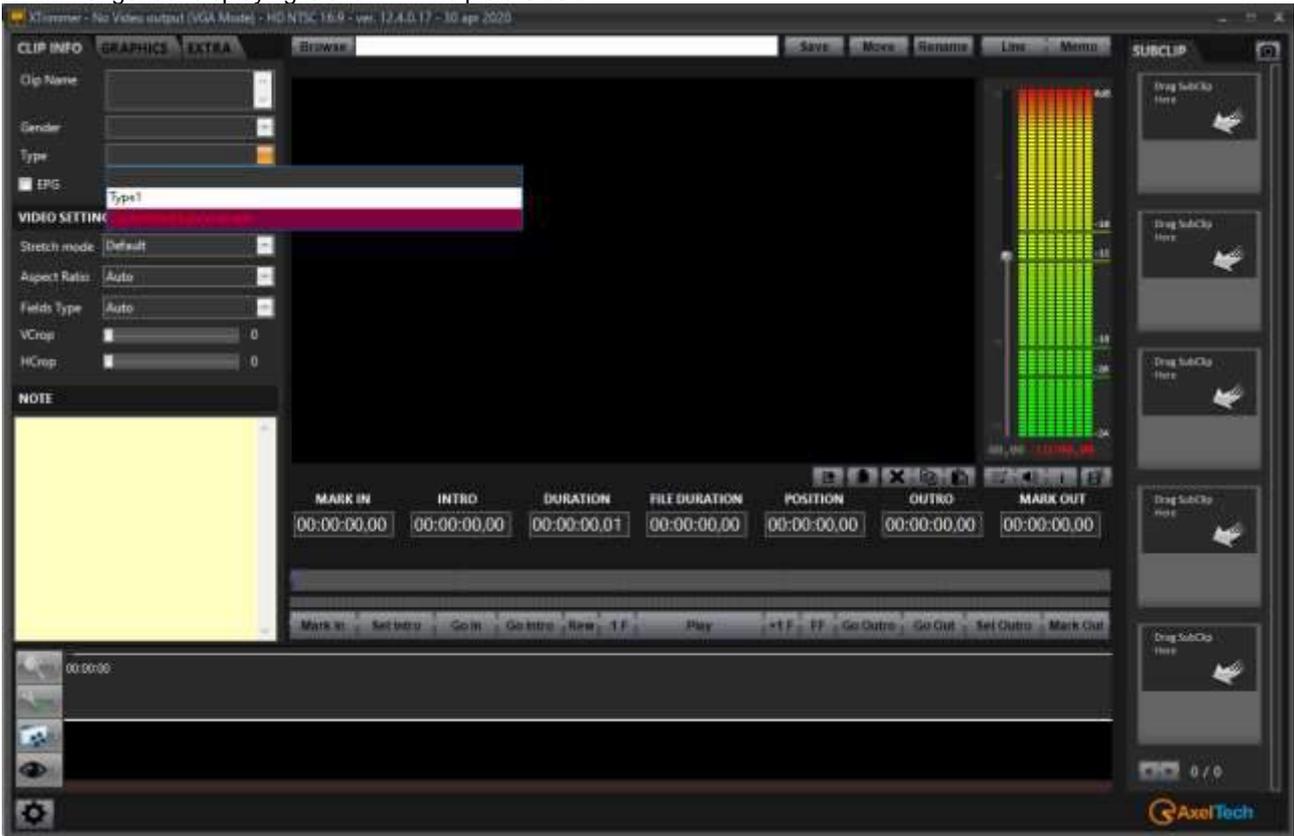
- to add for new one by clicking on **Add**
- to delete the selected gender by pressing **Delete**
- to change the type name by double-clicking on the related **Type** Column line
- to change type colors by double clicking on **Back Color** column (or **Fore Color** column) of the desired line and by selecting the new desired color.

Back Color is the displaying background color of the type in the **XTRIMMER > CLIP INFO > Type** menu.

Fore Color is the displaying color of the type name in **XTRIMMER > CLIP INFO > Type** menu.



XTrimmer gender displaying is shown in the picture below:



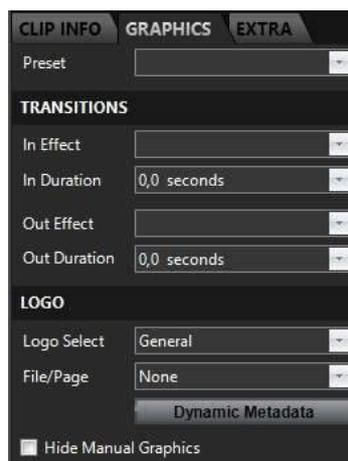
6.1.9.4. GRAPHICS PRESETS

Into **XTRIMMER**, another useful and fully customizable tool is the clip graphics management. Here you can store and manage various presets and you can fastly recall for them on every desired clips.

To create a graphic preset is very easy.

Browse for a desired clip to trimm into XTrimmer.

Change as you want all the parameters of the following **XTRIMMER > GRAPHICS** section (see parameters in the picture below)



After all changes are completed go to



> Graphic Presets

As explained for GENDER and TYPE you can define the **GRAPHIC PRESETS** name.

This **GRAPHICS PRESET** definition allows you:

- to add for new one by clicking on **Add**. All the parameters set in the previous steps will be saved in this new preset. Type the desired name into the following window and click on OK to confirm:



- to delete the selected graphics preset by pressing **Delete**
- to change the graphics preset name by double-clicking on the related **Name**

6.1.9.5. XMUSIC

The whole XTV Suite, allows you to air music videoclips by following the XMUSIC scheduler.

XMUSIC can manage a desired whatchfolder in which all of your clips are stored.

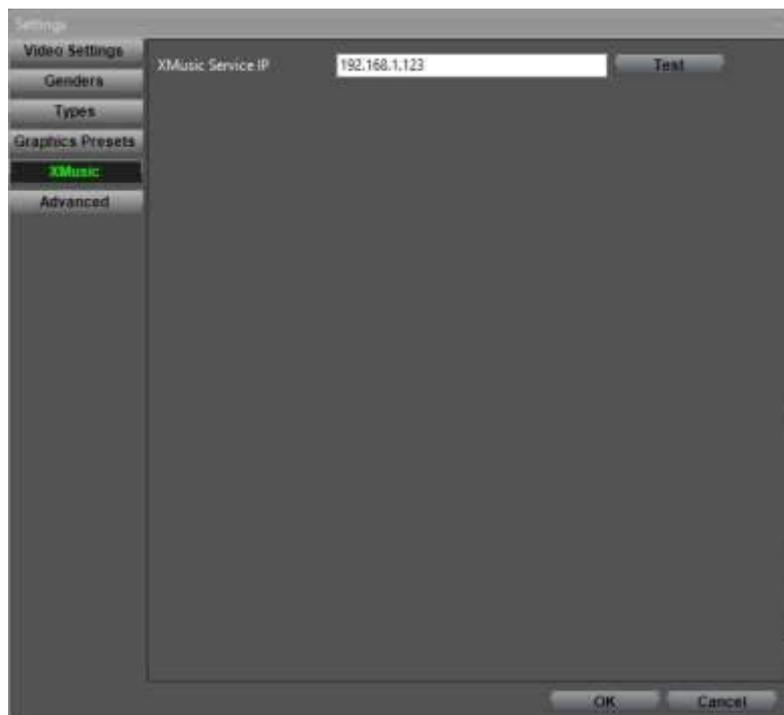
All clips could be tagged with Gender, Author, Title, Album, Year categories.

XMUSIC creates the schedule by following your desired rules based on date, time and categories.

By XTrimmer you can tag clips to be saved into XMUSIC database following XMUSIC categories.

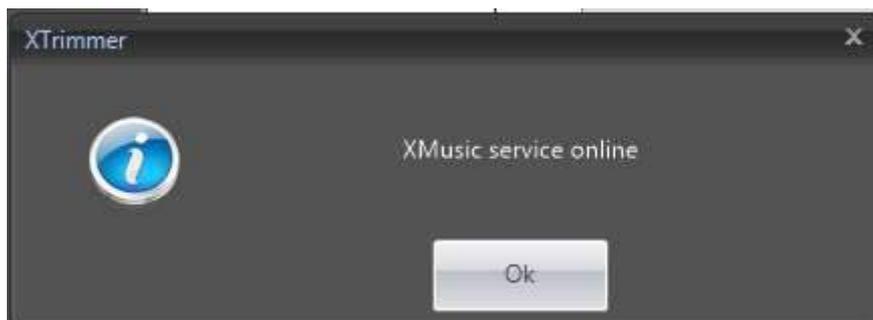
To do that you have to open the communication between XTrimmer and your centralized XMUSIC Service where music clips datas are stored.

If you have an XMUSIC Service active on your network type in **XMUSIC Service IP** parameter its IP address.

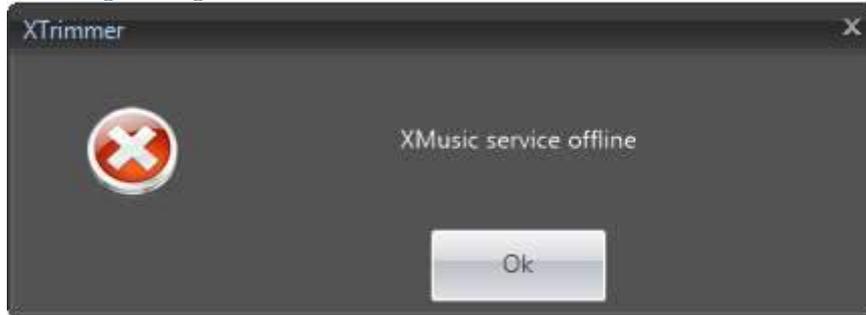


Click on TEST button to verify if the communication works.

If the test result will be successful you will see the following message:



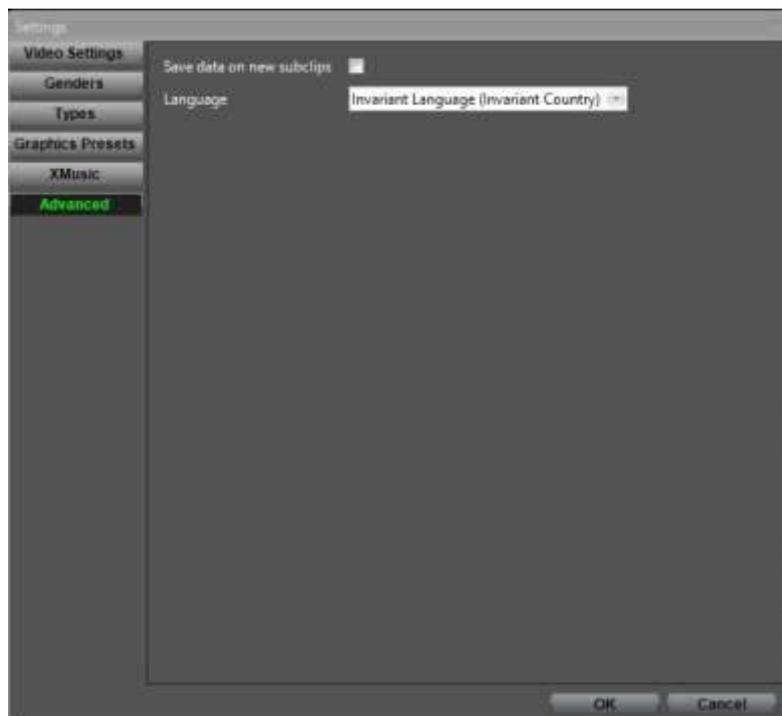
Else, you will see the following message:



To solve this communication problem, please start XMusic Service on its own PC if it is not running or correct the IP Address in this last parameter if it is wrong.

When you see that XMusic Service PC is online and it is reachable you can start your tagging work in the submenu **XTRIMMER > EXTR > XMUSIC**.

6.1.9.6. ADVANCED



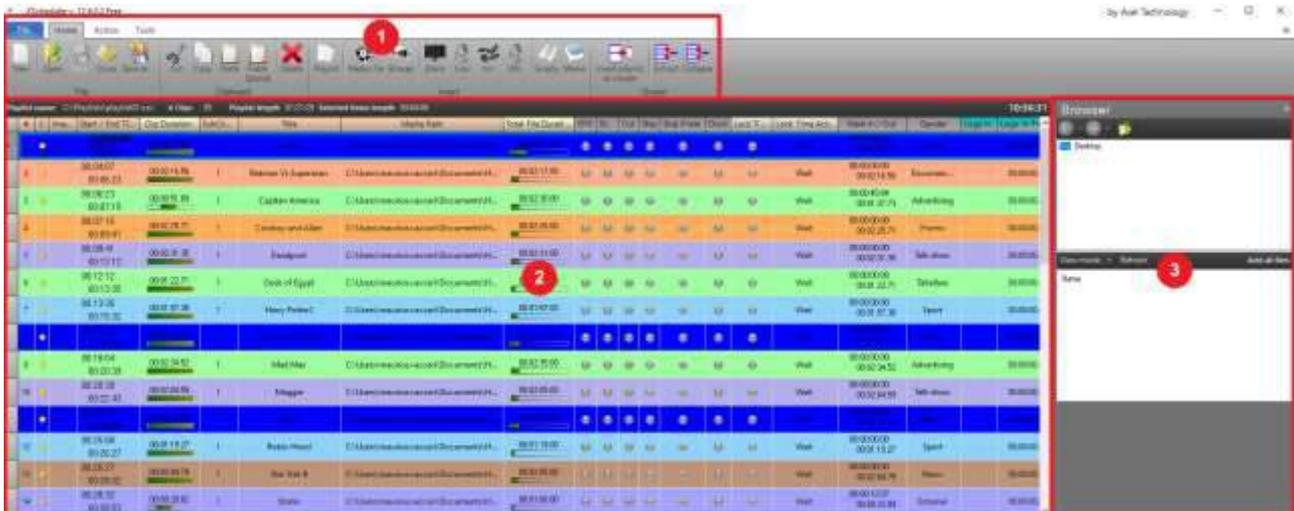
Save data on new subclips: by checking this parameter every time a subclip is created you activate the automatic save on the clip.

Language: select the desired language for your XTrimmer GUI

6 XSCHEDULER

XScheduler is a software used for playlist creation and management. You can add, beyond to media file, even extern events (like vcrcs, blacks, lines) or jpg (or bmp) bitmap. The user interface is designed in the Windows style so it can be used by everyone who uses Windows products.

The main window is divided in three parts:



| | |
|---|------------------------------|
| 1 | Menu and Tool bar |
| 2 | Grid with the playlist items |
| 3 | Browser |

6.1 SCHEDULING TABS

There are three bars: **Home**, **Action** and **Tools**. Each of them allows the user to edit the playlist.

6.1.1 HOME BAR



| | |
|----|--|
| 1 | Creates a new playlist |
| 2 | Opens a playlist |
| 3 | Saves current playlist |
| 4 | Closes current playlist |
| 5 | Saves current playlist typing the file name and the desired path |
| 6 | Cuts selected clip(s) |
| 7 | Copies selected clip(s) |
| 8 | Pastes selected clip(s) |
| 9 | Pastes Special clip(s) |
| 10 | Deletes selected clip(s) |
| 11 | Adds a playlist to the playlist |
| 12 | Adds a clip to the playlist |
| 13 | Adds a bitmap (bmp or jpg) to the playlist |
| 14 | Adds a "black" event to the playlist |
| 15 | Adds a "line" event to the playlist |
| 16 | Adds a "vcr" event to the playlist |
| 17 | Adds an (rtmp, udp...) URL contribution to the playlist |
| 18 | Adds an "empty" event to the playlist |
| 19 | Adds a "memo" event to the playlist |
| 20 | Insert playlist as cluster is an useful command firstly for adverts. Into current playlist you can add an entire playlist seen as a single XScheduler line/item. |
| 21 | Extract expands the cluster playlist line in all of its lines/items |
| 22 | By Collapse button you can collapse a cluster playlist in a single line/item if it is expanded |

6.1.2 ACTION BAR



| | |
|---|--|
| 1 | Selects all clips |
| 2 | Finds (or replaces) for a string inside the document |
| 3 | Moves up selected clip(s) |
| 4 | Moves down selected clip(s) |
| 5 | Points the cursor to the typed row |
| 6 | Selects which default clip parameters will be set when a clip is added |
| 7 | Selects which default clip parameters will be set when an extern line is added |

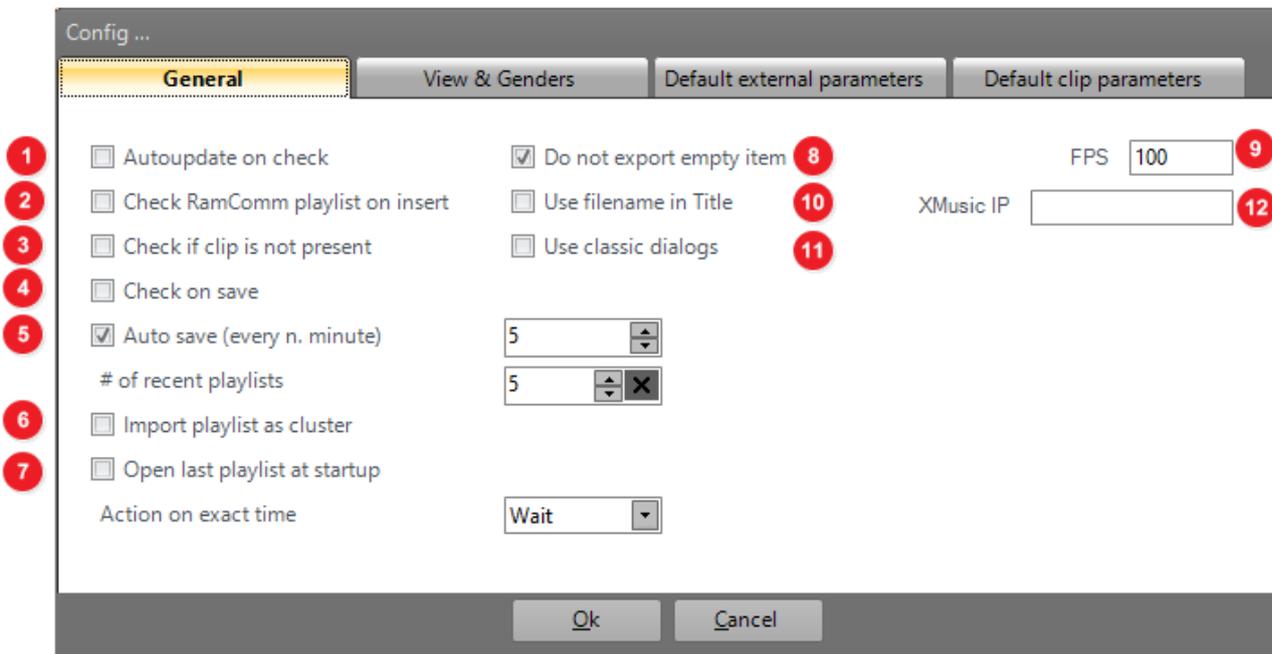
6.1.3 TOOLS BAR



| | |
|----|---|
| 1 | Directly opens the select line/item on XTrimmer to change its metadata during the schedule procedure. The button would not be active if an empty row is selected. |
| 2 | For the selected empty line/item opens XIngest to fill the empty item with the Xingest capture |
| 3 | Open Windows Media Player |
| 4 | Replace the selected clip(s) with another one |
| 5 | Check the selected clip(s) |
| 6 | Open the Settings Panel |
| 7 | Export File to XML |
| 8 | Select the XML format file for the view type |
| 9 | Save the current view type |
| 10 | Open the help page |
| 11 | About the XTV |

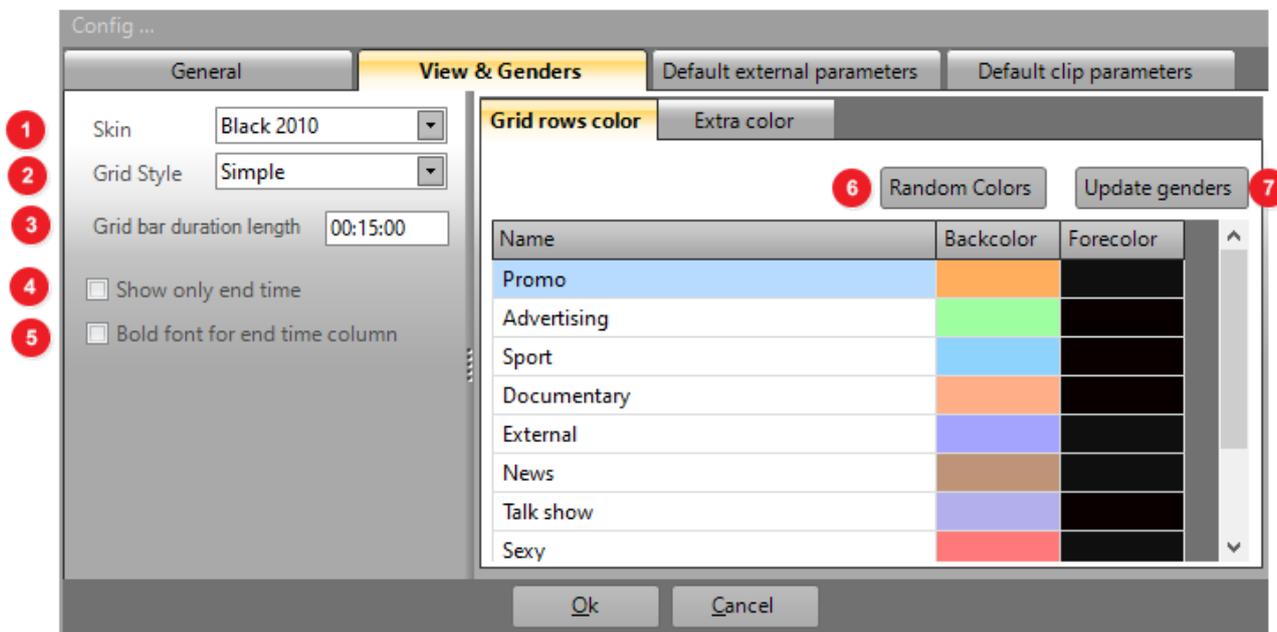
6.1 SETTINGS PANEL

6.1.1 GENERAL CONFIG



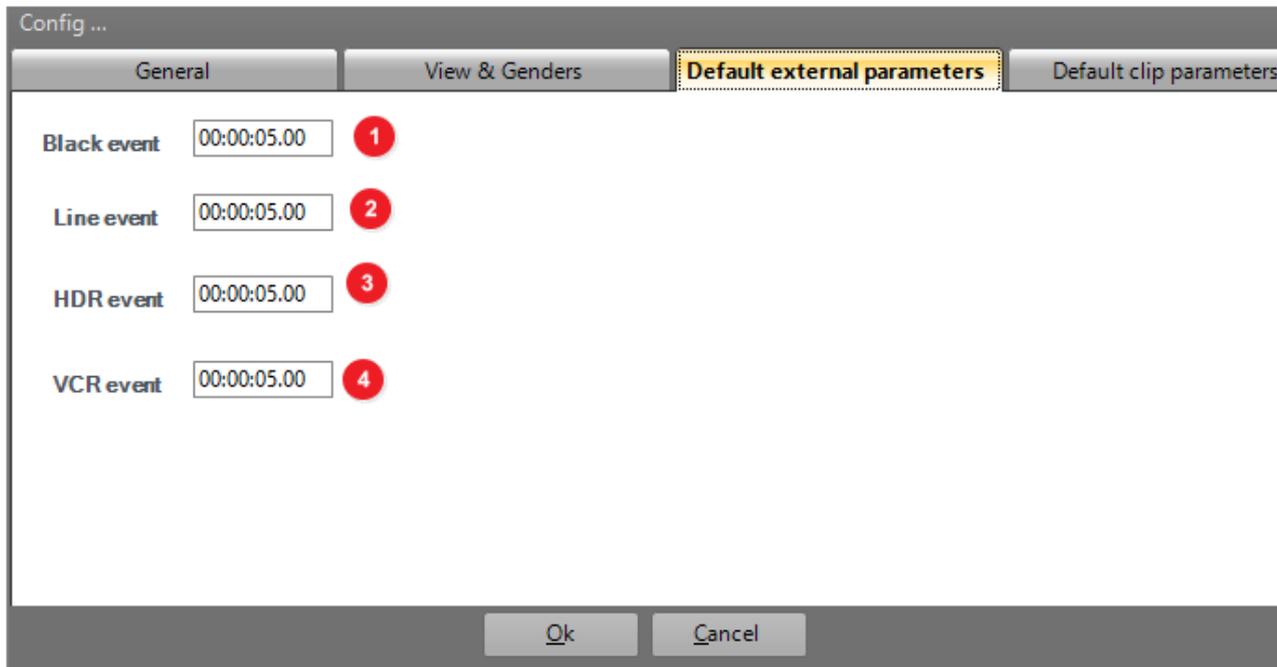
| | |
|----|---|
| 1 | Enable/Disable Autoupdate on Check |
| 2 | Enable/Disable RamComm Playlist on insert |
| 3 | Check if the clip is already present in the playlist or not |
| 4 | Check the clip when you save the playlist |
| 5 | Enable / Disable the auto saving option |
| 6 | Enable/Disable Import Playlist as cluster |
| 7 | Enable / Disable the automatic opening of the last playlist on startup |
| 8 | Enable/Disable Export empty items |
| 9 | Set the FPS base unit |
| 10 | Instead of the trimmed metadata title, the activation of this check enables the use of the filename as clip title by default |
| 11 | When is viewed a dialogue Window, the classic Microsoft Windows dialogue will be used |
| 12 | If your will is to use XTV Suite with the XMusic Schedule purposes XMusic Service has to be enabled. In this case type here the IP Address of your XMusic Service PC. |

6.1.2 VIEW & GENDER CONFIG



| | |
|---|--|
| 1 | Select the program skin |
| 2 | Select the grid style |
| 3 | Set the duration length of the bar in the playlist |
| 4 | Enable / Disable displaying the start time in the grid |
| 5 | Enable / Disable using the bold font for the end time |
| 6 | Set Random Colours for the grid gender |
| 7 | Check and update the file genders in the playlist and put them in the gender list to give them a color |

6.1.3 **DEFAULT EXTERNAL PARAMETERS CONFIG**

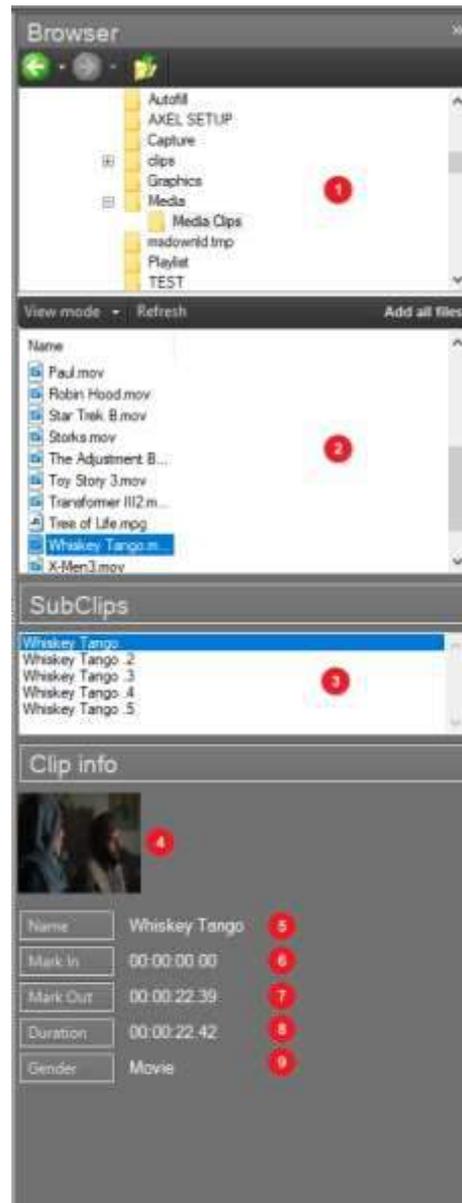


| | |
|----------|---|
| 1 | Set the Default time length for the Black event |
| 2 | Set the Default time length for the Line event |
| 3 | Set the Default time length for the HDR event |
| 4 | Set the Default time length for the VCR event |

6.1.4 DEFAULT CLIP PARAMETERS CONFIG

| | | |
|---|-------------------|---|
| 1 | | Type here the default clip path and default clip extension. By manually add for a new file you don't need to type the full path and extension everytime |
| 2 | LOGO | Set the default logo for each playlist clip |
| | POS | Set the logo position with a double coordinate system |
| 3 | LOGO IN | Set the default logo at the entrance of each clip |
| | POS | Set the logo position at the clip entrance |
| | MARK IN | Set the default Mark In start time for the entrance logo |
| | DURATION | Set the default Duration for the entrance logo. It will be calculated starting by the previous Mark In parameter |
| 4 | LOGO OUT | Set the default logo at the exit of each clip |
| | POS | Set the logo position at the clip exit |
| | MARK IN | Set the default Mark In start time for the exit logo |
| | DURATION | Set the default Duration for the exit logo. It will be calculated starting by the previous Mark In parameter |
| 5 | EFFECT IN | Select the default Effect In for all the clips |
| | DURATION | Set the default Effect In Duration |
| 6 | EFFECT OUT | Select the default Effect Out for all the clips |
| | DURATION | Set the default Effect Out duration |

6.2 BROWSER

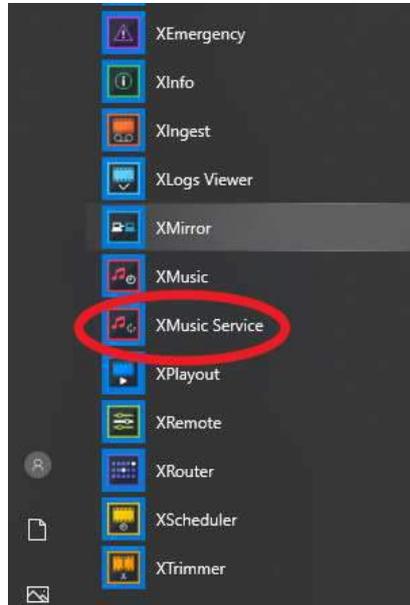


| | |
|---|---|
| 1 | Folder list |
| 2 | File list in the selected folder |
| 3 | the various subclips will be present in this section only if the clip selected in the previous parameter has been divided into different subclips within XTrimmer |
| 4 | preview of the selected clip, or the selected subclip in case there are any subclips available |
| 5 | Name of the selected clip or Name of the selected subclip in case there is any subclip available |
| 6 | Mark In of the selected clip or Mark In of the selected subclip in case there is any subclip available |
| 7 | Mark Out of the selected clip or Mark Out of the selected subclip in case there is any subclip available |
| 8 | Duration of the selected clip or Duration of the selected subclip in case there is any subclip available |
| 9 | Gender of the selected clip or Duration of the selected subclip in case there is any subclip available |

7 XMUSIC

7.1 XMUSIC CONFIGURATION

Run XMusic service on the pc that will be the server for XMusic data and take note of the IP of that computer.



7.1.1 XMUSIC CONSOLE

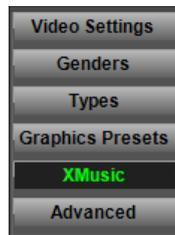
Open XMusic Console and click **Tools** menu, then on **Settings** button, then click on **Service Host**



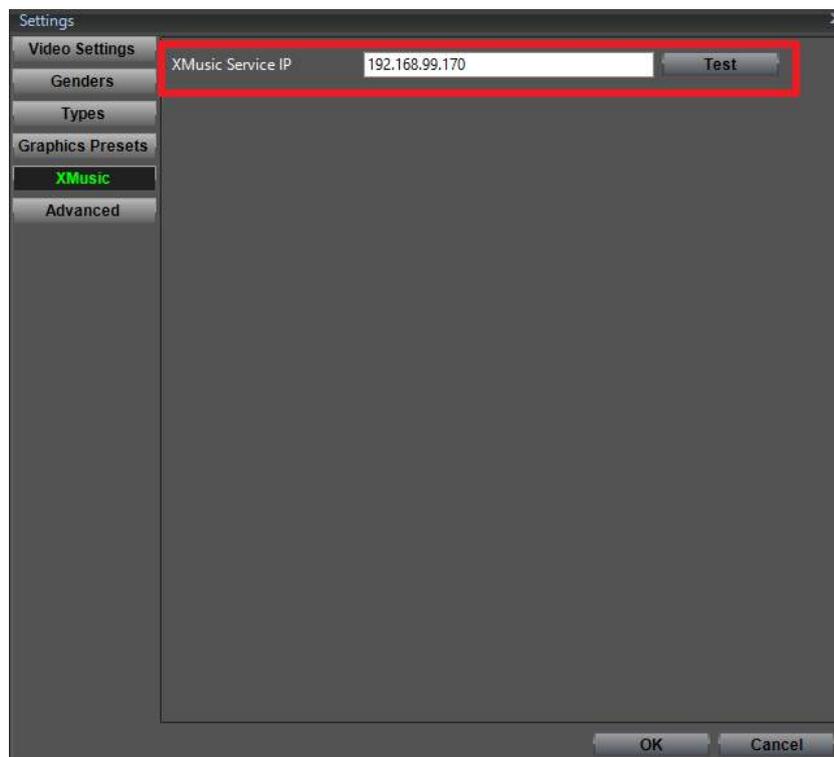
Set the IP address of the pc where XMusic service is installed and the port used by the service.

7.1.2 XTRIMMER SIDE

Open XTrimmer, then open Settings: 
Click on XMusic settings



Then On **XMusic Service IP** set the IP of the pc where XMusic service is installed, then click on **Test** to check if it works.



Press Ok to save settings.

7.1.3 XPLAYOUT SIDE

Open the **System Settings** menu

Go on the **Misc** section – **Import path** – **Fillers folder** and set the folder for the generic fillers that will be used in the absence of specific rules for that day/time.

Config



Move to the **Mode Settings** section, enable XMusic and enter the IP of the pc where XMusic service is installed

Config



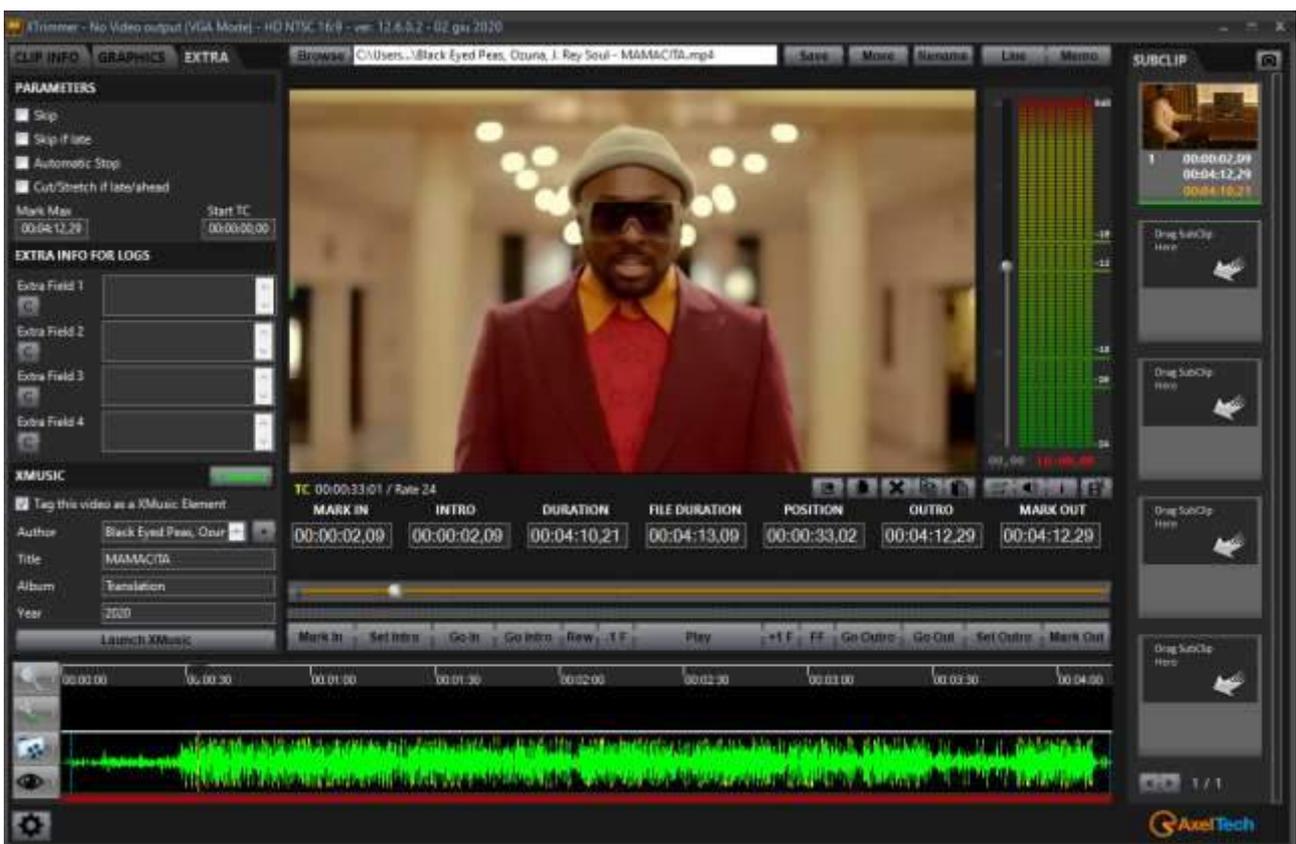
Then on Xpayout, enable **XMusic**



NOTE: The music genders configured on XMusic will be identified by the folder where the physical file is positioned. It is therefore very important to organize and name the musical clips folder in a clear and well-ordered way.

7.1.4 TRIM THE CLIPS

Use XTrimmer to trim and mark the clips in the same way of XTV (refer to XTrimmer manual).

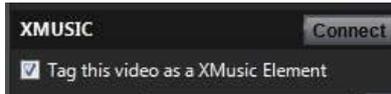


SUGGESTION: Insert all the new clips to be trimmed on a “service” folder (for example D:\import\), then move the clip into the final folder using the **Move** button

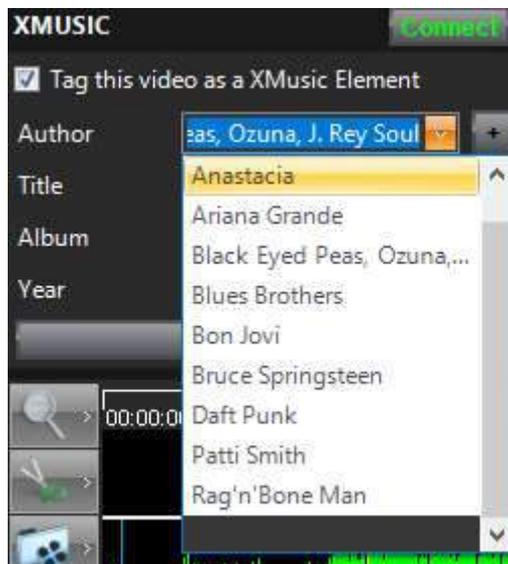
After the clip is marked as usual, go to EXTRA



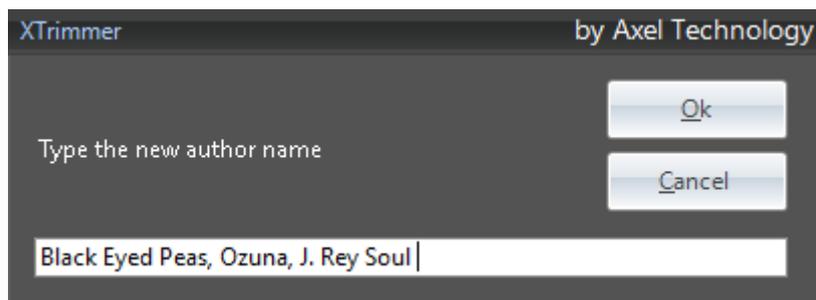
Then check **Tag this video as XMusic Element**
Click on **Connect** to check if XMusic service is reachable.



If the author of the song was previously inserted it will be possible to select him from the list

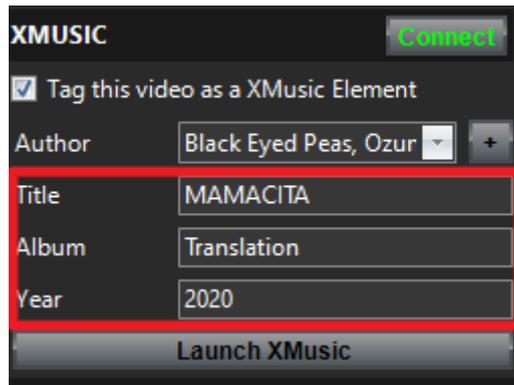


If the author is not on the list, click on the  button and just write his name on the author field



Then click on **Ok** button

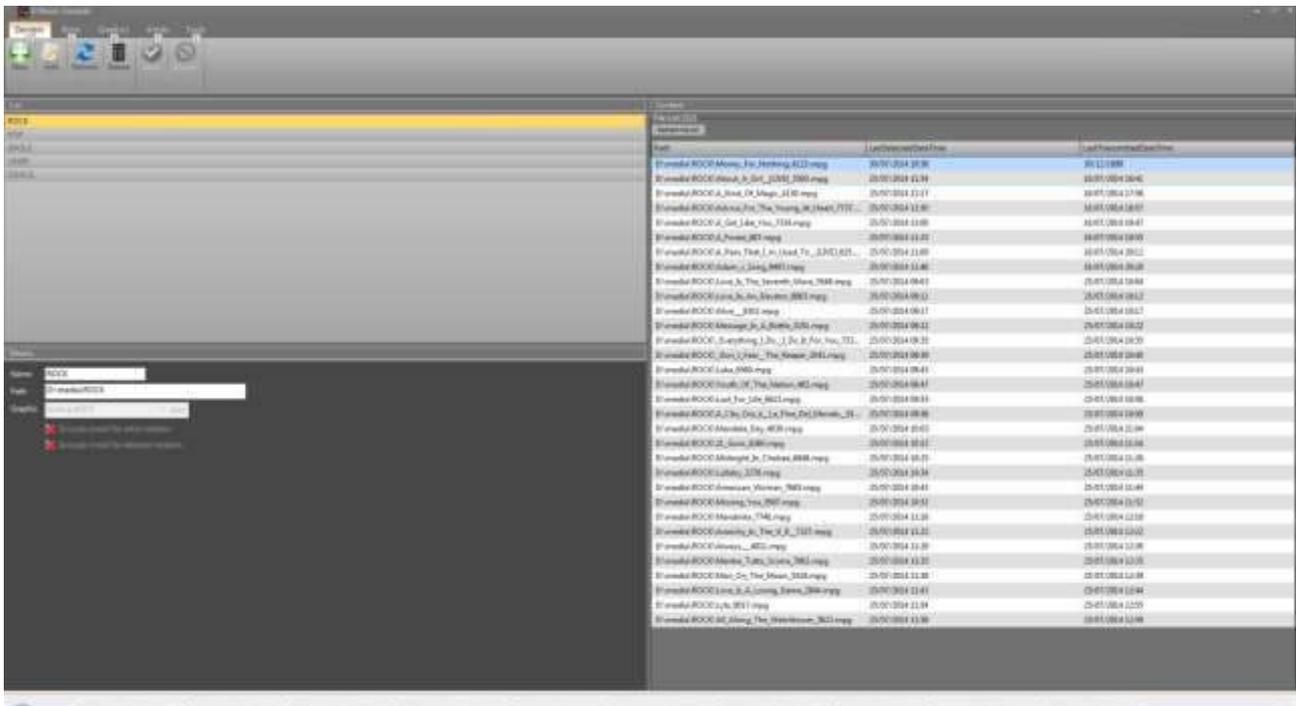
Afterwards it will be possible to set the data for CG (to manage graphics with title, album and year of the song). The suggested title is the same as the file name, but it is possible to change it.



After all the required data are inserted, save the clip with **Save** button.

7.2 XMUSIC USAGE

To open XMUSIC console, run the software from the link (from windows start menu or from the desktop icon) or run it from the **Launch XMUSIC** button from the **XMUSIC info** window of XTrimmer.



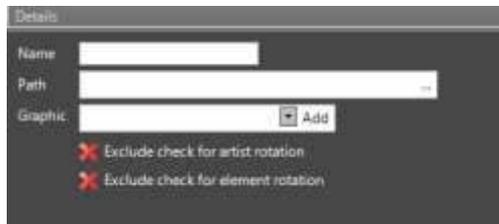
7.2.1 CREATE A NEW MUSIC CATEGORY (GENDER)

Click on the **Genders** menu



Click on **New**

It will open the **Details** window to add a new gender



On the **Name** field enter the name to be assigned to that gender.

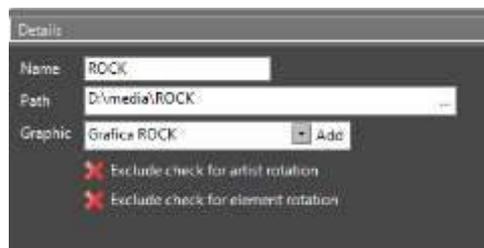
On the **Path** field enter the path of the folder that will contain all the clips that belong to that gender.

Example: gender ROCK, path D:\MEDIA\ROCK\

On **Graphic** field enter (if required) the graphic to be associated to that gender.

Exclude check for artist rotation if selected it will ignore the check that avoids the author repetition before 2 hours

Exclude check for element rotation if selected it will ignore the check that avoids the element repetition before 4 hours



Click **Save** to confirm the creation of the new gender

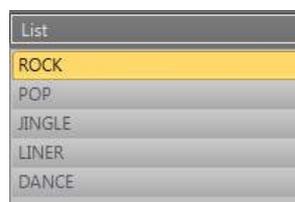


To modify a gender use the **Edit** button



To delete a gender use the **Delete** button

To visualize the settings of a gender and the content of the folder linked to that gender, just choose the gender from the list suggested on the **Gender** menu.



| Path | LastSelectedDateTime | LastTransmittedDateTime |
|--|----------------------|-------------------------|
| D:\media\ROCK\Money_For_Nothing_4123.mpg | 30/07/2014 10:58 | 30/12/1899 |
| D:\media\ROCK>About_A_Girl_[LIVE]_5593.mpg | 25/07/2014 11:54 | 16/07/2014 16:41 |
| D:\media\ROCK\A_Kind_Of_Magic_4130.mpg | 25/07/2014 11:17 | 16/07/2014 17:58 |
| D:\media\ROCK\Advice_For_The_Young_At_Heart_7737... | 25/07/2014 11:50 | 16/07/2014 18:57 |
| D:\media\ROCK\A_Girl_Like_You_7334.mpg | 25/07/2014 11:00 | 16/07/2014 19:47 |
| D:\media\ROCK\A_Forest_867.mpg | 25/07/2014 11:25 | 16/07/2014 19:55 |
| D:\media\ROCK\A_Pain_That_I_m_Used_To_[LIVE]_625... | 25/07/2014 11:09 | 16/07/2014 20:12 |
| D:\media\ROCK\Adam_s_Song_9497.mpg | 25/07/2014 11:46 | 16/07/2014 20:20 |
| D:\media\ROCK\Love_Is_The_Seventh_Wave_7648.mpg | 25/07/2014 09:03 | 25/07/2014 10:04 |
| D:\media\ROCK\Love_In_An_Elevator_8863.mpg | 25/07/2014 09:11 | 25/07/2014 10:12 |
| D:\media\ROCK\Alive__8302.mpg | 25/07/2014 09:17 | 25/07/2014 10:17 |
| D:\media\ROCK\Message_In_A_Bottle_3191.mpg | 25/07/2014 09:22 | 25/07/2014 10:22 |
| D:\media\ROCK\Everything_I_Do_I_Do_It_For_You_733... | 25/07/2014 09:35 | 25/07/2014 10:35 |
| D:\media\ROCK\Don_t_Fear_The_Reaper_2041.mpg | 25/07/2014 09:39 | 25/07/2014 10:40 |

With a double click on one of the items of the file list, it will show all the passages of the item with date and hour and it will be possible to open the clip with XTrimmer.

| DateTime | Summary |
|------------------|---------|
| 10/07/2014 21:28 | |
| 12/07/2014 09:11 | |
| 12/07/2014 09:15 | |
| 11/07/2014 10:05 | |
| 11/07/2014 11:40 | |
| 11/07/2014 19:20 | |
| 11/07/2014 20:30 | |

7.2.2 CREATE A NEW GRAPHIC

To create a new graphic, just go to the **Graphic** menu and click on the **New** button

| Details | |
|----------------|--------------------------------|
| Name | Grafica POP |
| General logo | W:\Graphics\Images\LOGO ENNAH\ |
| Entrance logo | W:\Graphics\Images\LOGO ENNAH\ |
| Start | 00:00:00 |
| Duration | 00:00:00 |
| Exit logo | W:\Graphics\Images\LOGO ENNAH\ |
| Start from end | 00:00:00 |
| Duration | 00:00:00 |

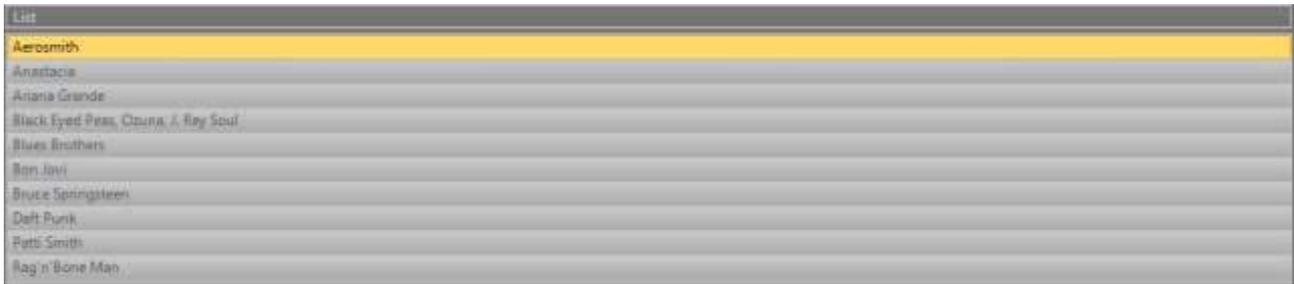
On the insertion panel that will appear, set:

- Name of the graphic
- Logo to be combined with the graphic
- Entrance logo with its start point and duration
- Exit logo with its start point (from end) and duration

Then click on **Save** to enable the graphic.

7.2.3 ADD A NEW ARTIST

To add a new artist, it is possible to proceed during the trim of the clip (see chapter 3) or directly on the **Artists** menu of XMusic.

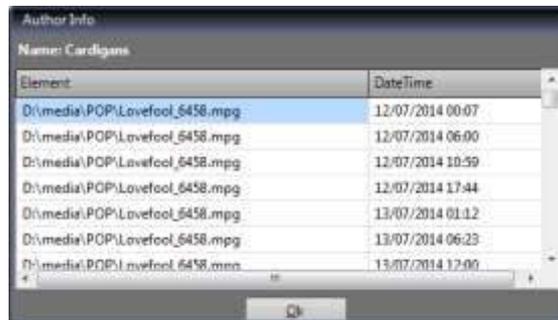


To create a new artist, click on the insert button



To delete an artist from the list, click on the delete button

With a double click on an artist of the list, it will show the playout history of that artist with filename, date and hour.



7.2.4 CREATE SCHEDULING RULES

Click on **Rules** menu to access to the scheduling rules management window.



Rule name

Enter the name to be assigned to the rule

- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

Select the days of the week of validity of the rule

Double click on **Enable all** to enable the rules for every week day

Week days

- Enable all
- Sunday
- Monday

If the rule is active on every week day **Enable all** will turn to green.

Time

07:00:00-09:00:00

Start 07:00:00

End 09:00:00

Update

Add

Delete

Enter the validity time duration of the rule

It is possible to set more than one time duration of the rule.

Calendar

Enable

Start 06/07/2020

End 31/07/2020

If required, it is possible to set a validity period of the rule

Enable

Start 06/07/2020

End 07/07/2020

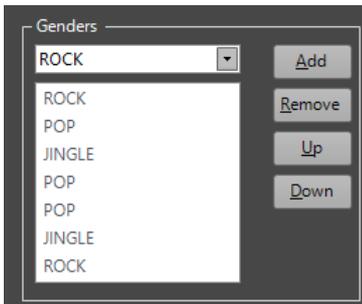
| dom | ven | sab | dom | lun | mar | mer | gio | ven | sab | dom | | |
|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 29 | 30 | 1 | 2 | 3 | 4 | 5 | | |
| | | | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| | | | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | |
| | | | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | |
| | | | | 27 | 28 | 29 | 30 | 31 | 1 | 2 | | |
| | | | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| | | | | today 07/07/2020 | | | | | | | | |

By each start/end menu you can select its own date through the useful drop down calendar



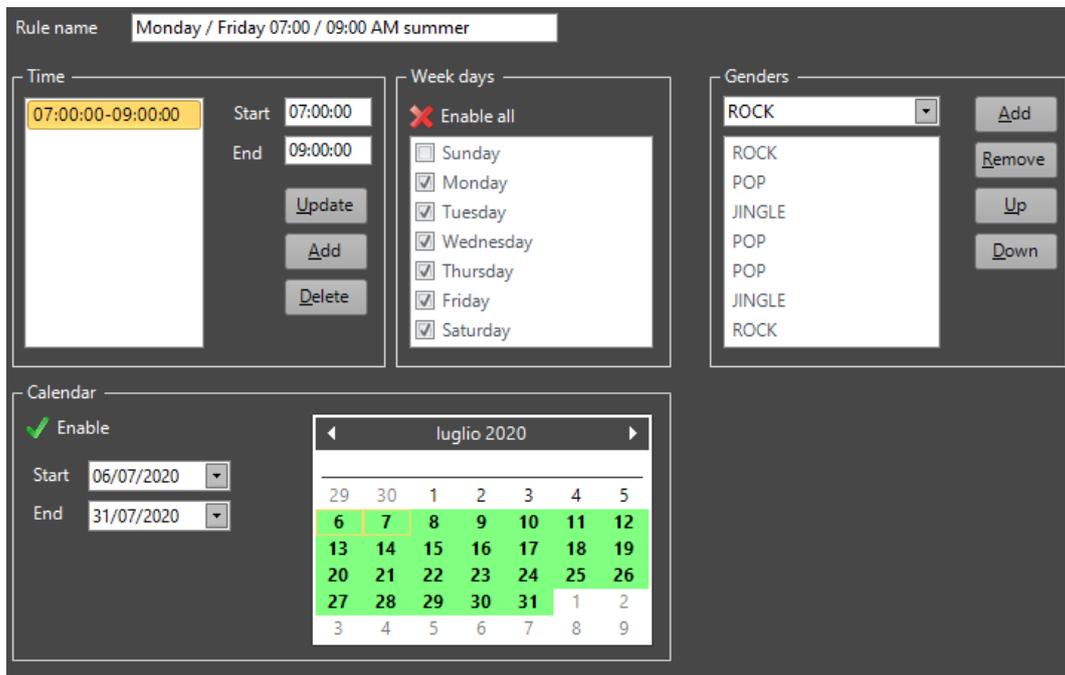
The validity period of the rules could also be directly selected on the next graphic calendar.

To enable the rule double click on Enable and Enable turns to green.



Enter the genders sequence to be respected on the rule

Here the final result for this example:



To modify a rule, use the **Edit** button



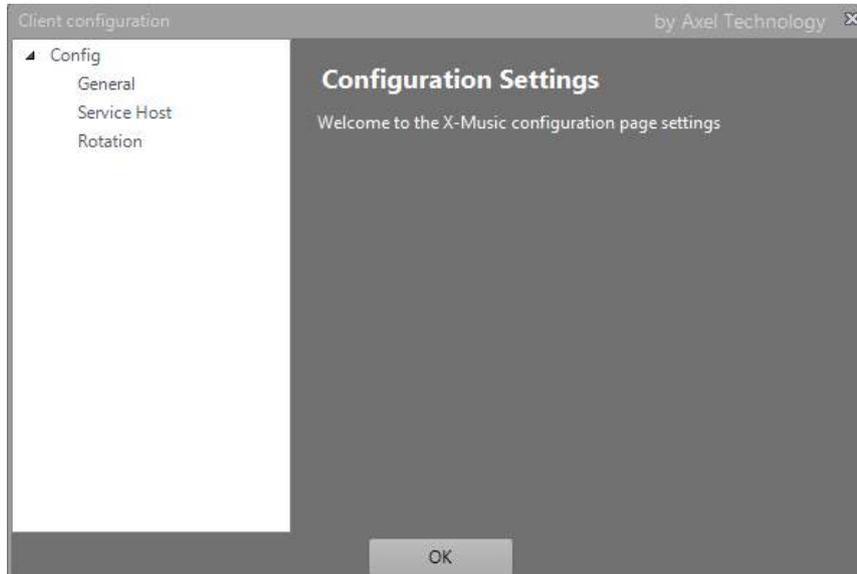
To delete a rule, use the **Delete** button

7.2.5 SETTINGS

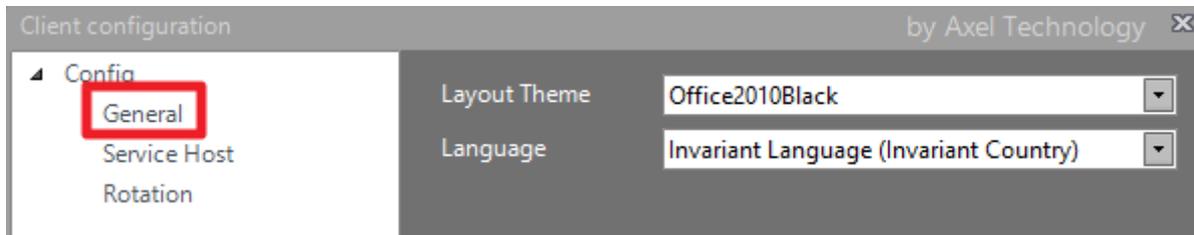
Click on the following button



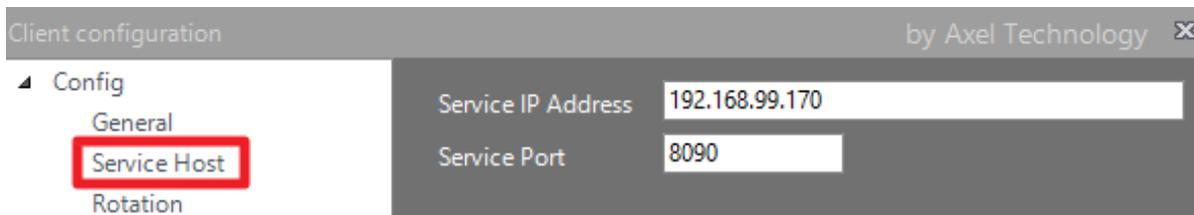
To open the following XMUSIC Client configuration panel:



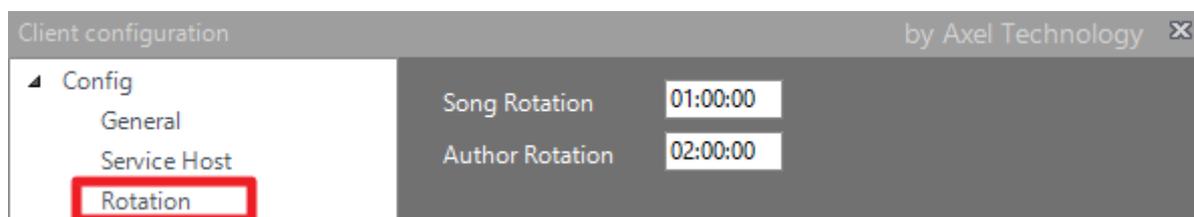
On **Settings – General** It is possible to set the layout theme and language:



On **Settings – Service Host** it is possible to set the IP Address and the port of the network PC where XMusic Service is installed:



On **Settings – Rotation** it is possible to set additional Rotation Rules based on the minimum time for which the same song title or the same song author should not be repeated:



8 XEMERGENCY



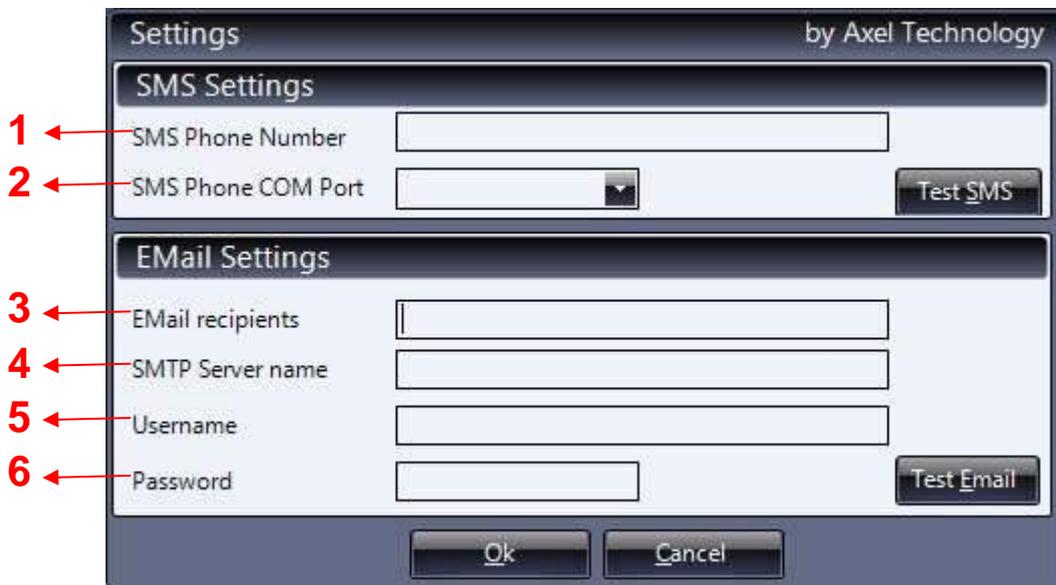
| | |
|---|---|
| 1 | Channel status |
| 2 | Display the VU Meters of the selected Playout |
| 3 | Display the audio level of the selected Playout |
| 4 | Launch Emergency for the selected Playout |
| 5 | Open the configuration panel for the selected Playout |
| 6 | Set XEmergency to manual or auto |
| 7 | Enable / Disable controls for all the Playout |
| 8 | Open the Notify Settings |

By pressing on **Settings** the following window will be opened:



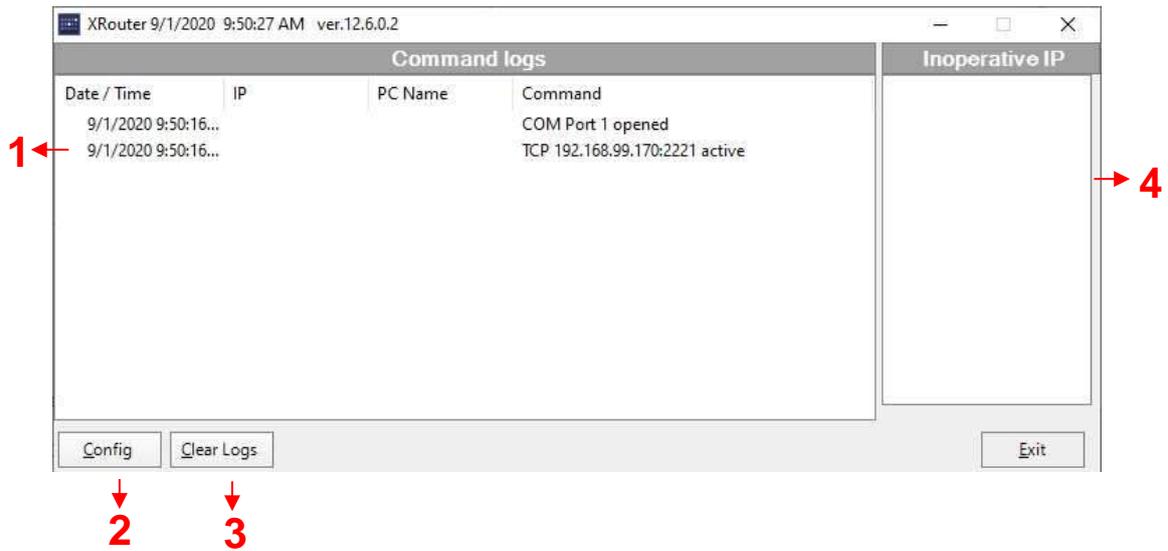
| | |
|---|----------------------------------|
| 1 | Channel Status |
| 2 | Audio Device to check |
| 3 | Device Audio Pin |
| 4 | Emergency Folder |
| 5 | Channel Name |
| 6 | Min Audio Level |
| 7 | Max Audio Error Timeout |
| 8 | Restore Default Settings |
| 9 | Browse folders for the Emergency |

By pressing on **NOTIFY SETTINGS** the following window will be opened:

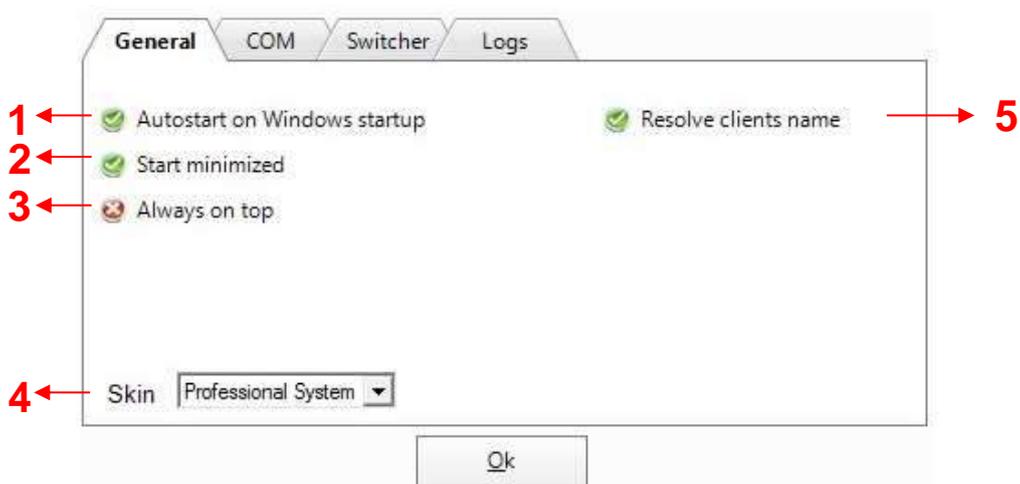


| | |
|---|--|
| 1 | Set the phone number for the SMS notify |
| 2 | Set the Modem COM port |
| 3 | Set the E-mail address for E-mail Notify |
| 4 | Set the SMTP name for Mail notify |
| 5 | Set the E-mail username |
| 6 | Set the E-mail password |

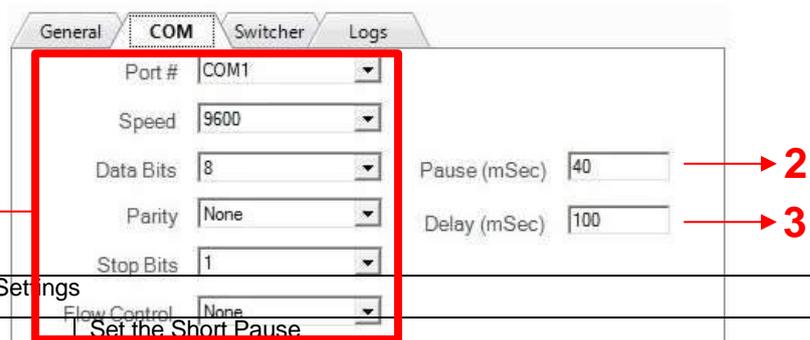
9 XROUTER



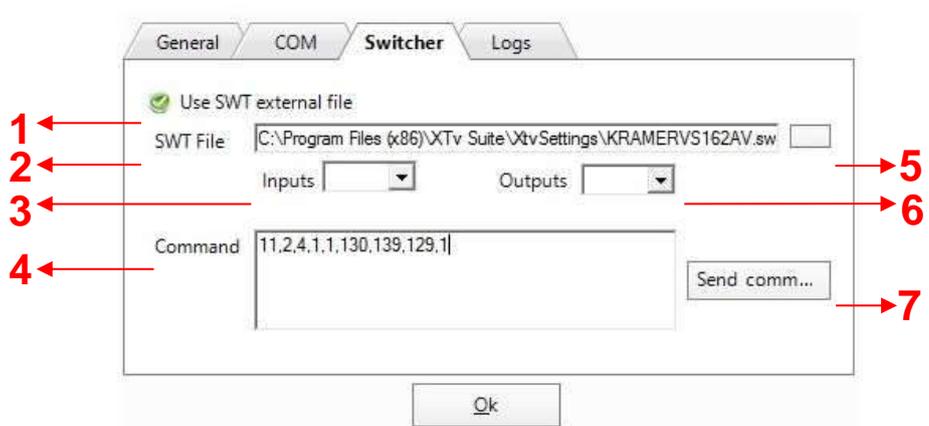
| | |
|---|-------------------------------------|
| 1 | View the actual log |
| 2 | Open the configuration panel |
| 3 | Clear the logs |
| 4 | Show the IP of the PC to be ignored |



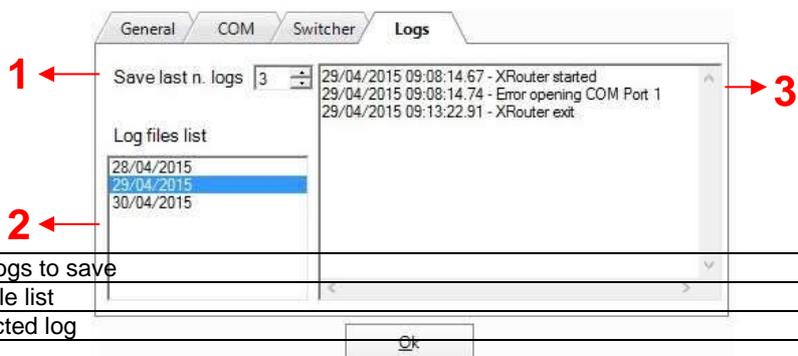
| | |
|---|--|
| 1 | Enable / Disable the automatic start of XRouter with Windows |
| 2 | Enable / Disable the minimized start |
| 3 | Enable / Disable the view on top |
| 4 | Select the skin |
| 5 | Enable / Disable the DNS service |



| | |
|---|---------------------------|
| 1 | Set the COM Port Settings |
| 2 | Pause |
| 3 | Delay |

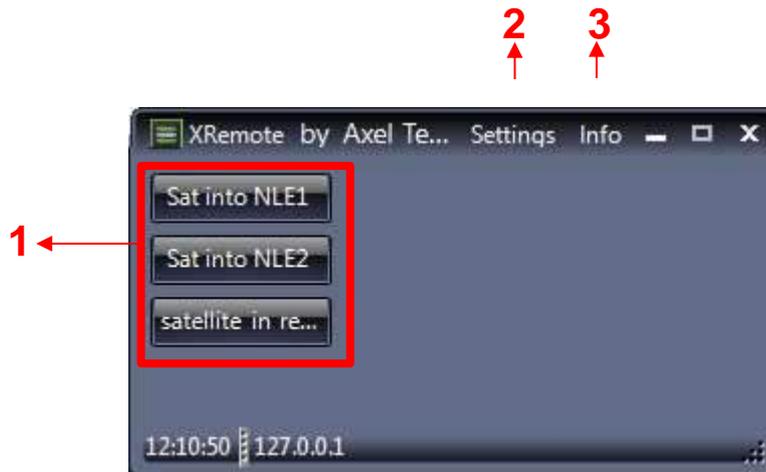


| | |
|---|---|
| 1 | Syntax for known Routing Switcher(Only for Debug) |
| 2 | Show the path for the SWT file |
| 3 | Set the Input to Route |
| 4 | Insert the command to be sent to the Switcher |
| 5 | Open the browser for choosing the SWT file |
| 6 | Set the Output to Route |
| 7 | Send the selected command |

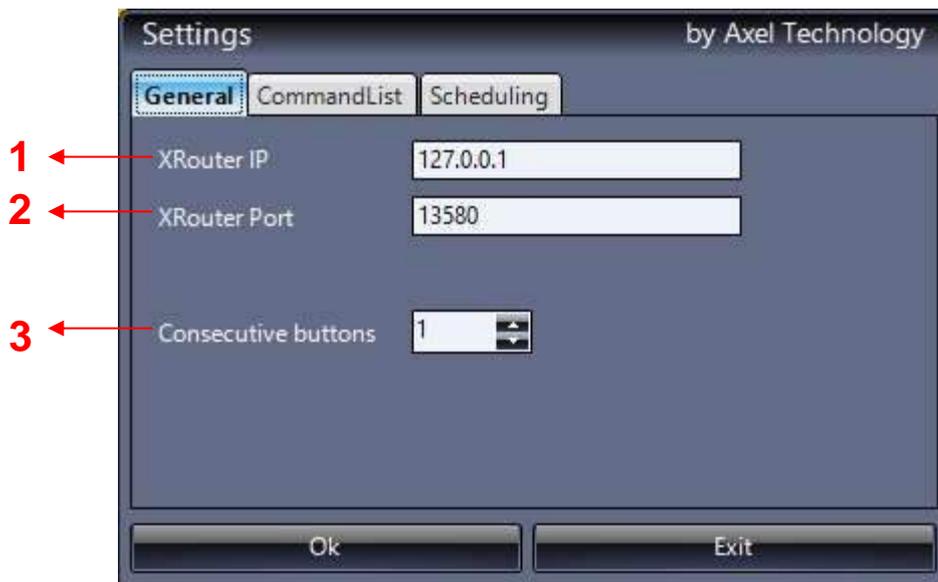


| | |
|---|---------------------------|
| 1 | Set how many logs to save |
| 2 | Shows the log file list |
| 3 | Shows the selected log |

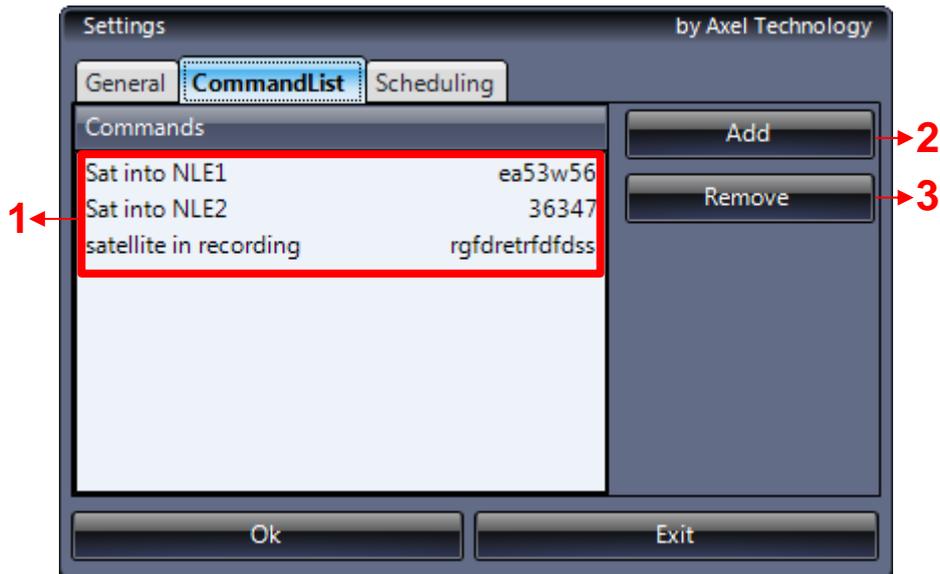
10 XREMOTE



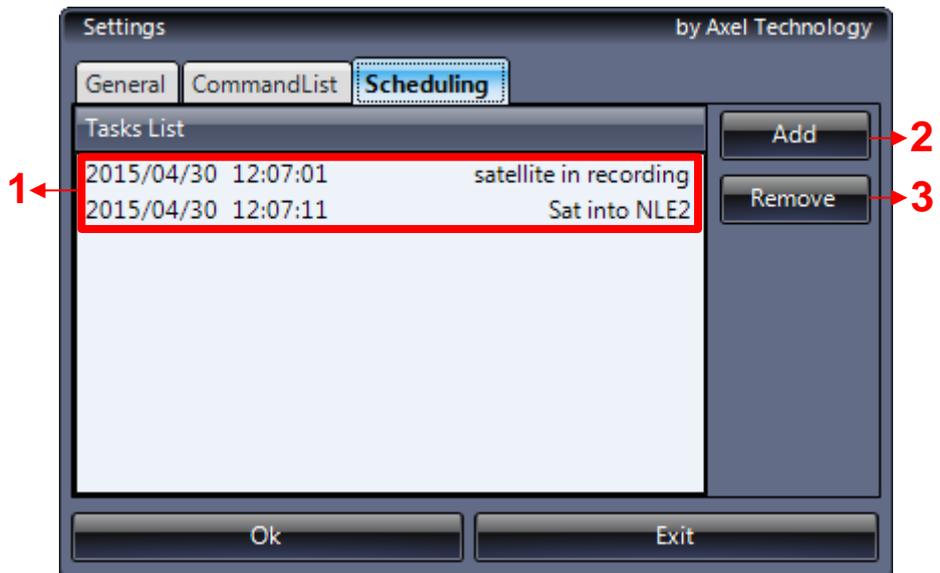
| | |
|---|-----------------------------|
| 1 | Commands to control XRouter |
| 2 | Opens XRemote Settings |
| 3 | Opens XRemote Info |



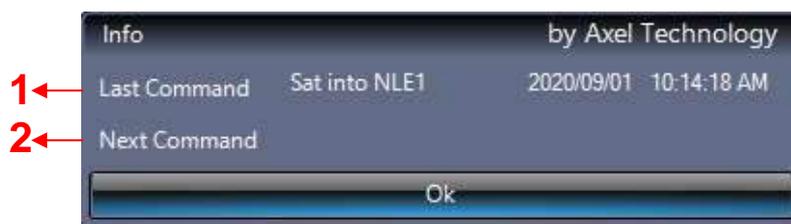
| | |
|---|---|
| 1 | Sets the XRouter IP |
| 2 | Sets the XRouter Port |
| 3 | Sets the number of button columns you need in XRemote console |



| | |
|---|---------------------|
| 1 | Command List |
| 2 | To Add a Command |
| 3 | To Remove a Command |



| | |
|---|-----------------------|
| 1 | Task List in schedule |
| 2 | To Add a Task |
| 3 | To Remove a Task |

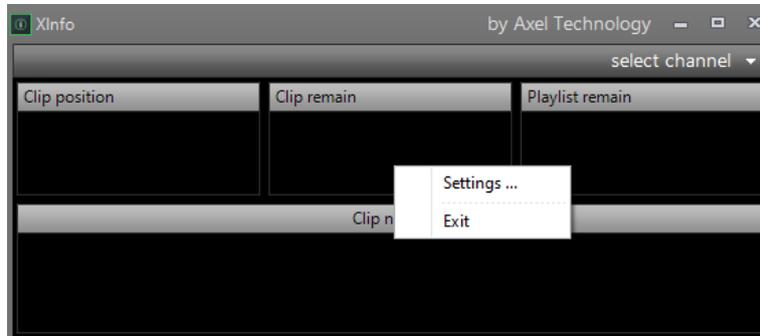


| | |
|---|------------------------------------|
| 1 | Last command sent by XRemote |
| 2 | Next command to be sent by XRemote |

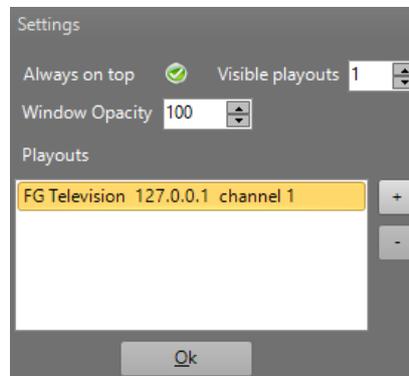
11 XINFO

XInfo allows you to have a fast watch on all of your XPlayout playbacks.

Open Xinfo, right click on the Home Page



and open settings menu to set all of your desired XPlayout channels



By selecting multiple Visible playouts it is possible to monitor more playouts in the same time. Displaying order is the one defined in the bottom Playouts list.

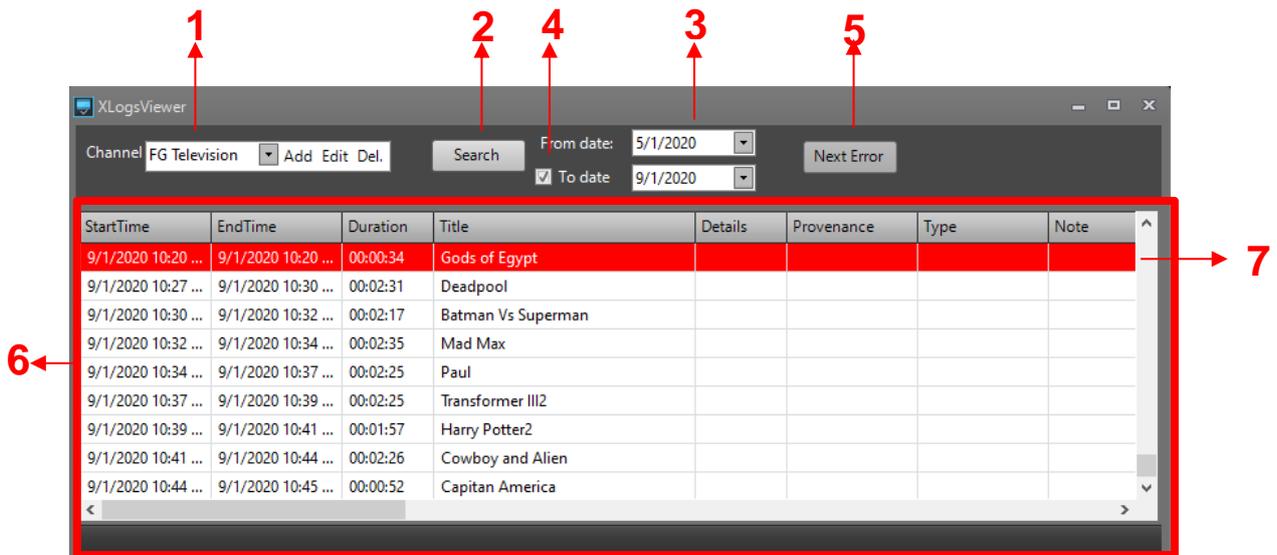
You can monitor all your current XPlayout playbacks inside your LAN network.

Here an example of single playout monitored by the XInfo gui:



| | |
|---|--|
| 1 | Display the position of the clip |
| 2 | Display the remaining time of the clip |
| 3 | Display the remaining time of all the playlist |
| 4 | Display the name of the clip |

12 XLOGS VIEWER



| | |
|---|--|
| 1 | You can select for the channel wich you want to read the logs list |
| 2 | You can search for the Xpayout logs of the period selected in 3 and 4 |
| 3 | You can select the starting day of the list of logs |
| 4 | You can choose to have an ending day of the list of logs and you can select for it |
| 5 | You can directly pass to the next error highlighted in red |
| 6 | Display the list of logs |
| 7 | An example of an error |

