

# XTV

*Video software suite*

## **Quick Guide**

(Rev. 1.0)



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## MINIMUM SYSTEM REQUIREMENTS

- **Operating System: Windows XP PRO SP2**
- **Processore Pentium IV Dual Core 3,0 GHz**
- **1 Gigabyte DDR Ram**
- **80 Gigabyte HD for operating system, NTFS formatted**
- **Video card PCI-Express o AGP**
- **Video card DECKLINK BLACKMAGIC (advised)**

# 1. INTRODUCTION TO XTV

XTV is a software suite composed by 4 programs

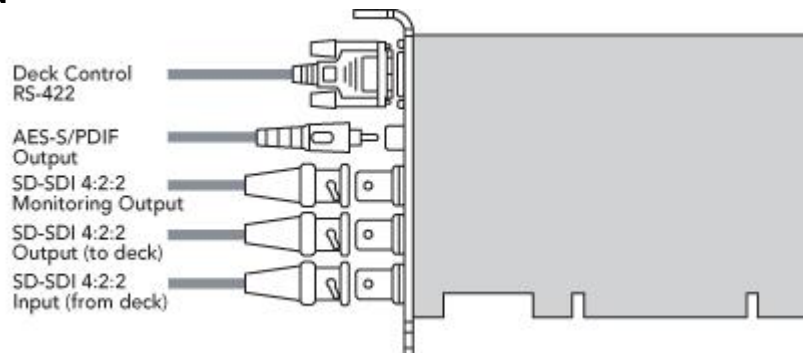
- **XTrimmer** → It's an utility used for media files marking.
- **XScheduler** → It's a scheduler used to create and modify a playlist. It is windows style, so it implements all windows basic function (like cut, copy, paste, drag & drop, and so..). It is able to check immediately the clip and can export the playlist also in CSV file format or XML file format (so the playlist can be opened with the most common software)
- **XPlayout** → It's the playout software. It can play any kind of audio/video files (you just must have the right codec). It is also able to manage transition between clips, VCRs, switches, cart machine and any other kind of video input. An engine for logos (also for the single clip) is present in XPlayout
- **Xcapture** → It's a video digital recorder, which can codify in realtime and in every file format, the video flow captured by the Blackmagic card

## 2. Installation

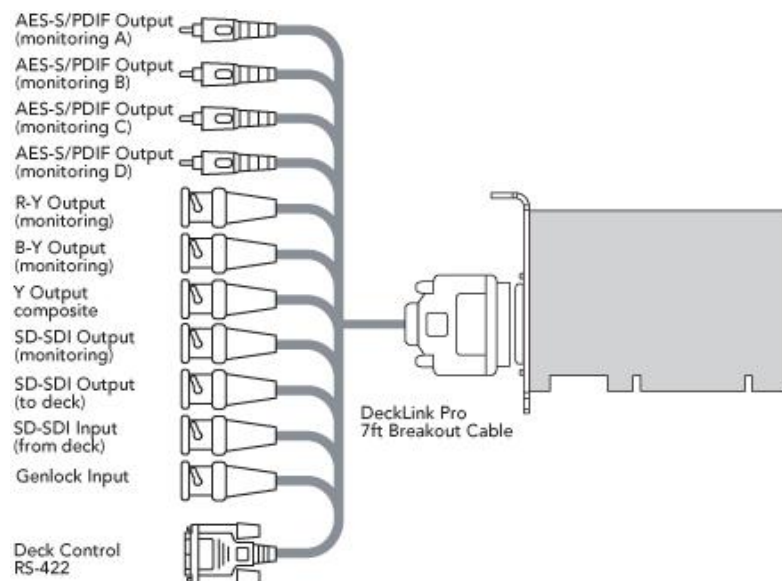
- Install Windows XP SP2
- Installare eventuali drivers della scheda madre e/o altre periferiche
  - BIOS upgrading
  - Chipset drivers
  - Video card drivers
  - LAN drivers
  - RAID controller(advised)
- Reboot the PC
- Install **DeckLink BlackMagic** drivers (5.5.1 versione are advised). Follow the instructions

There's more than one version of DeckLink Blackmagic card, but installation steps are the same. Here's are the most used.

### SDI VERSION



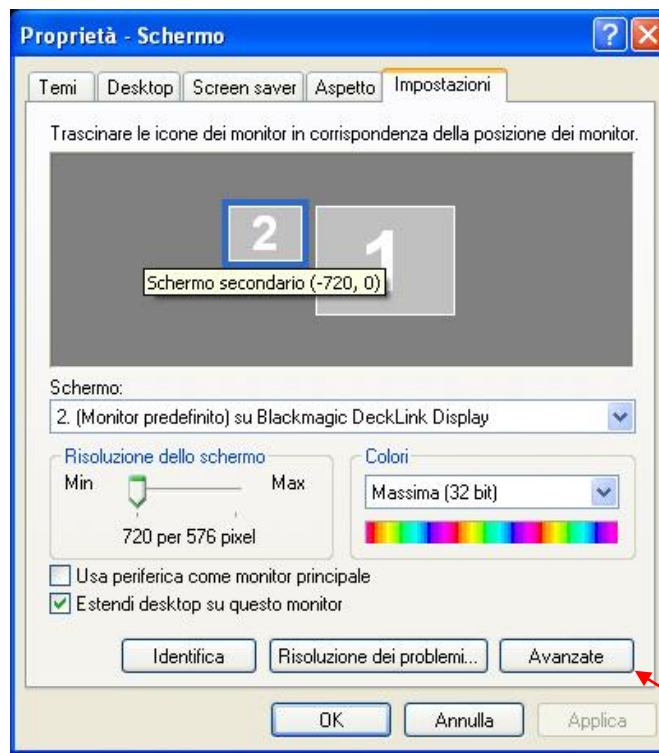
### SDI VERSION + COMPOSITE



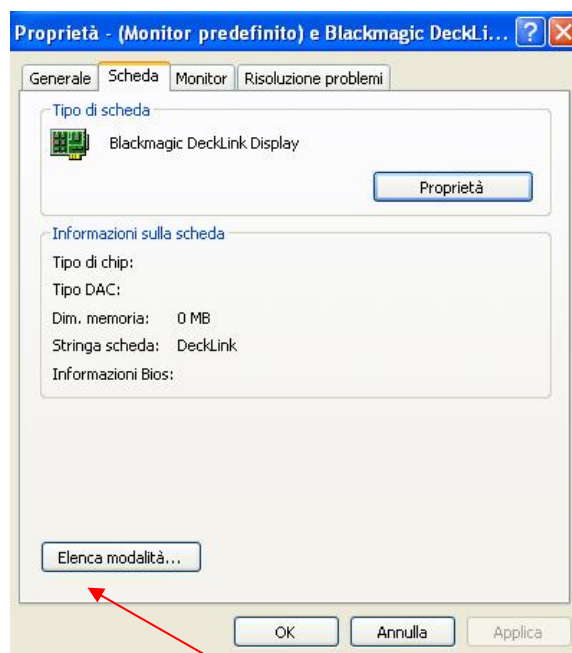
After installing drivers, you have to set some properties about the video card

For setting BlackMagic output in PAL o NTSC:

- o Right click on desktop
- o Click on Properties
- o Select Settings table



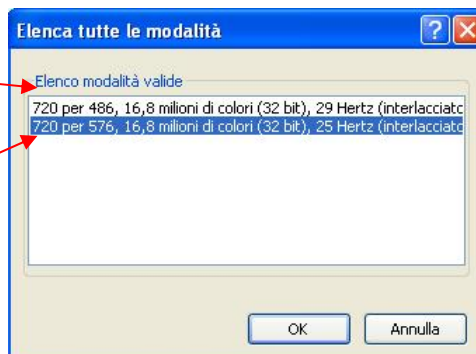
- o Selezionare lo schermo secondario (assicurarsi che una volta cliccato nella casella "Schermo" compaia la scritta "... su DeckLink BlackMagic", quindi cliccare su Avanzate



- o Click on Card → Elenco Modalità
- o Dalla lista selezionare lo standard video che si desidera utilizzare

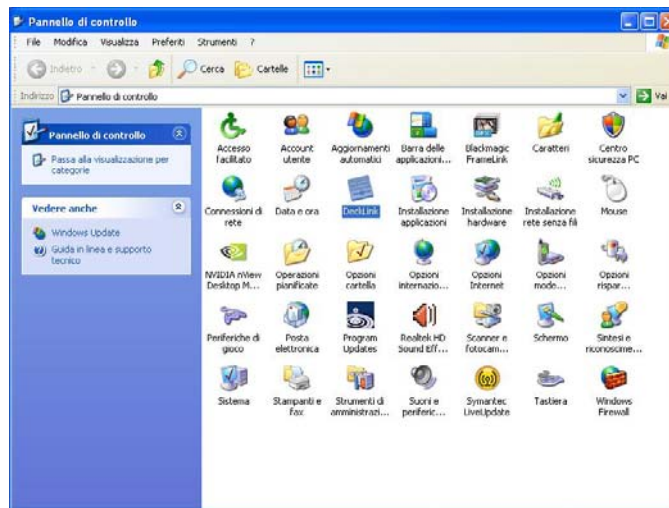
NTSC (29 hertz)

PAL (25 hertz)



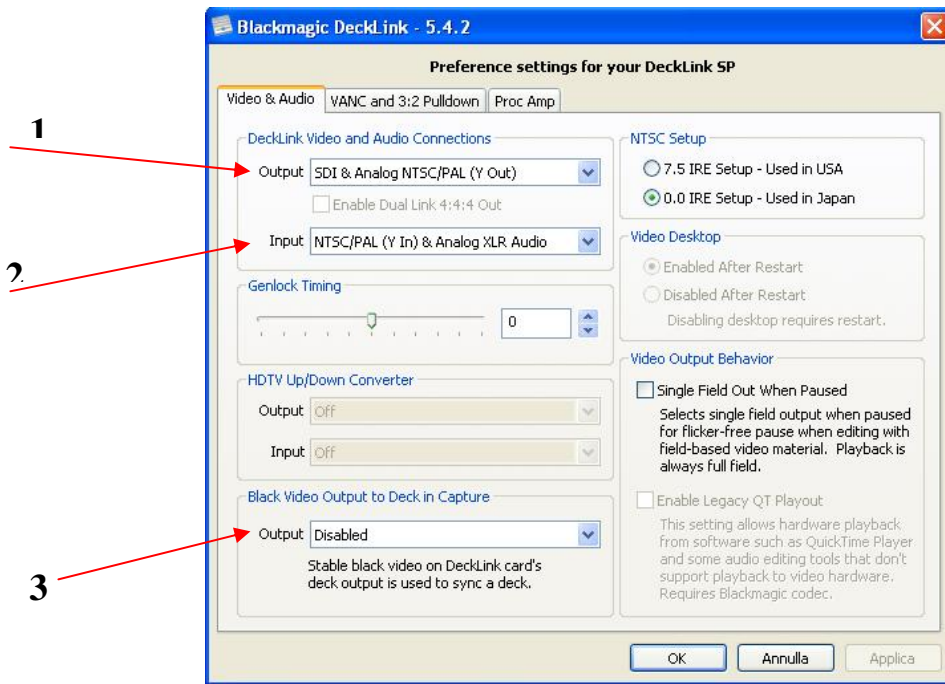
*Nel caso in cui si voglia utilizzare l'uscita SDI della scheda BlackMagic:*

- o Andare nel Pannello di Controllo
- o Selezionare DeckLink



1. Impostare la casella Output in alto col valore “**SDI & Analog NTSC/PAL (Y OUT)**”
2. Impostare Input col valore “**NTSC/PAL (Y IN) & Analog XLR Audio**”
3. Impostare la casella Output in basso col valore “**Disabled**”



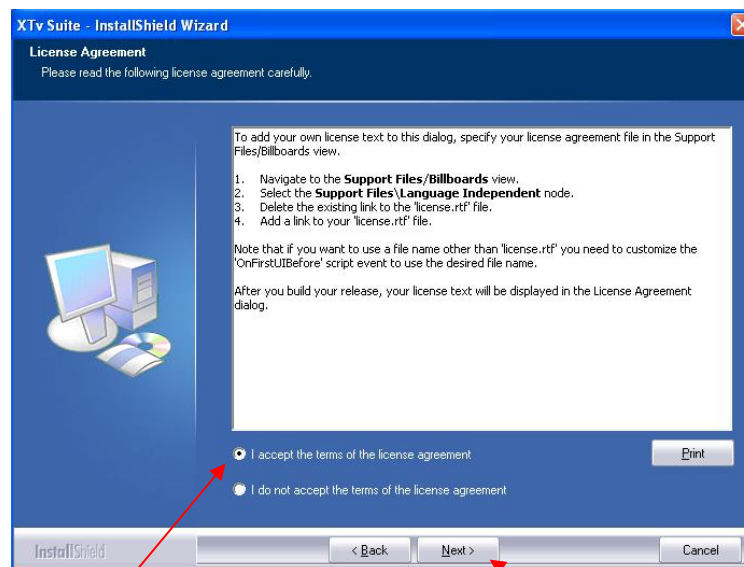


## 2.1. XTV SUITE INSTALLATION

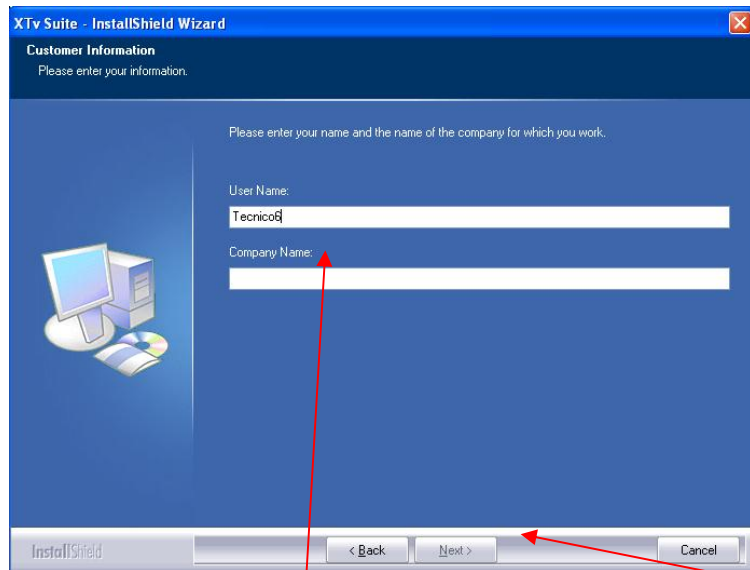
A wizard will guide you to the right software installation



- Click on Next



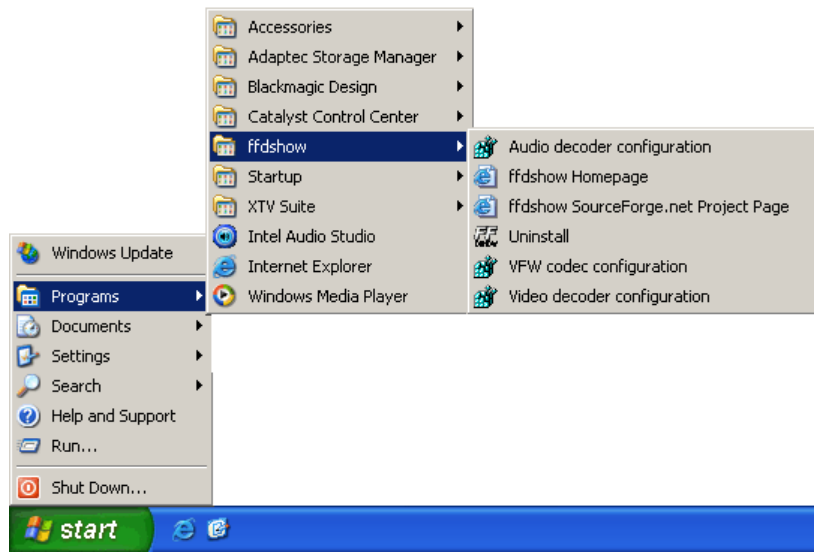
- Accept terms ,then click on Next



- Insert username and society name than click on Next

- Install FFDSHOW codecs ( the file path is Program File Folder\ XTVSuite\Utility).

### VIDEO settings:



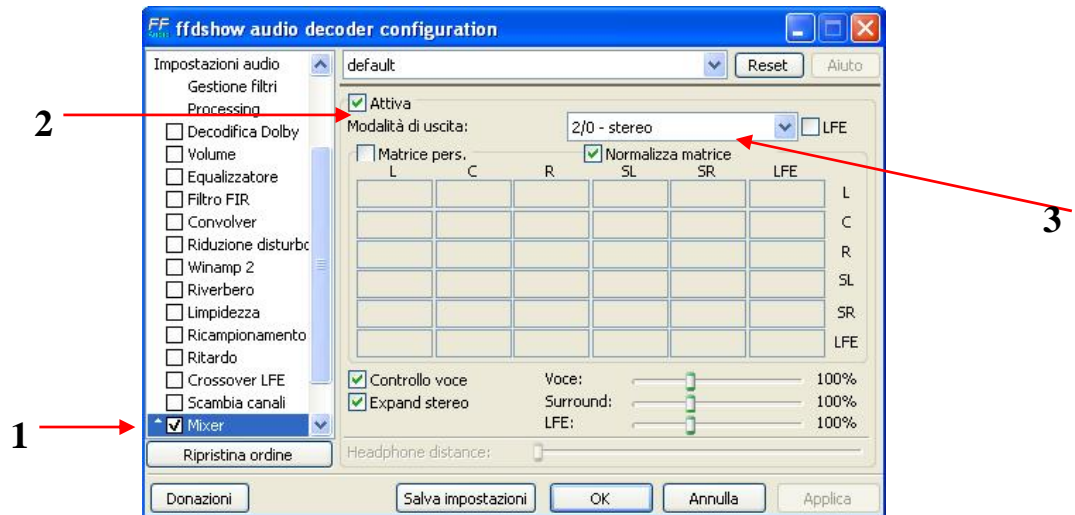
- Click on Start → All programs → Ffdshow → Video Decoder Configuration
- On the left menu select CODECS
  - In the right table find “MPEG2” e “MPEG IN AVI” rows, than in the second column select “LibAvCodec”



- Click on OK

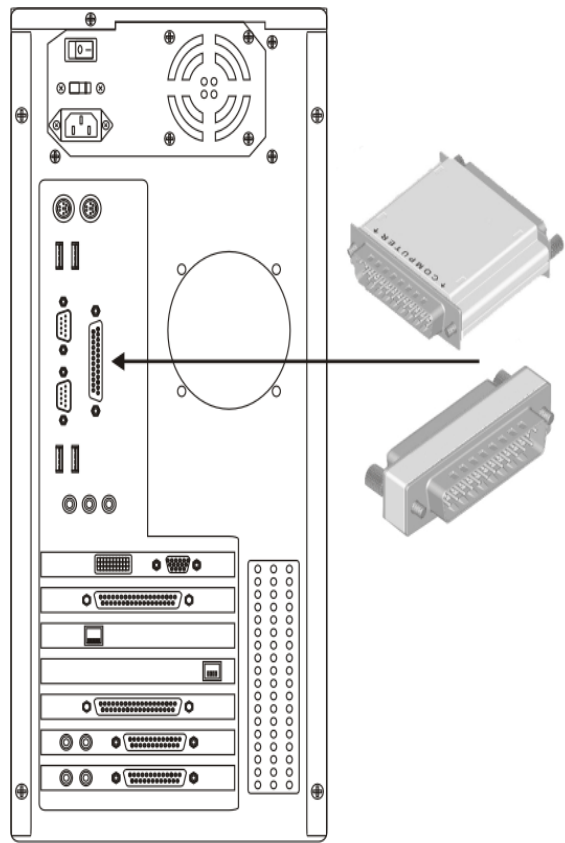
### AUDIO settings:

- Click on Start → All programs → Ffdshow → Audio Decoder Configuration
  1. On the left menu select MIXER
  2. Check the field “Active”
  3. Select as audio output mode “**2/0 – Stereo**”



o Click on OK

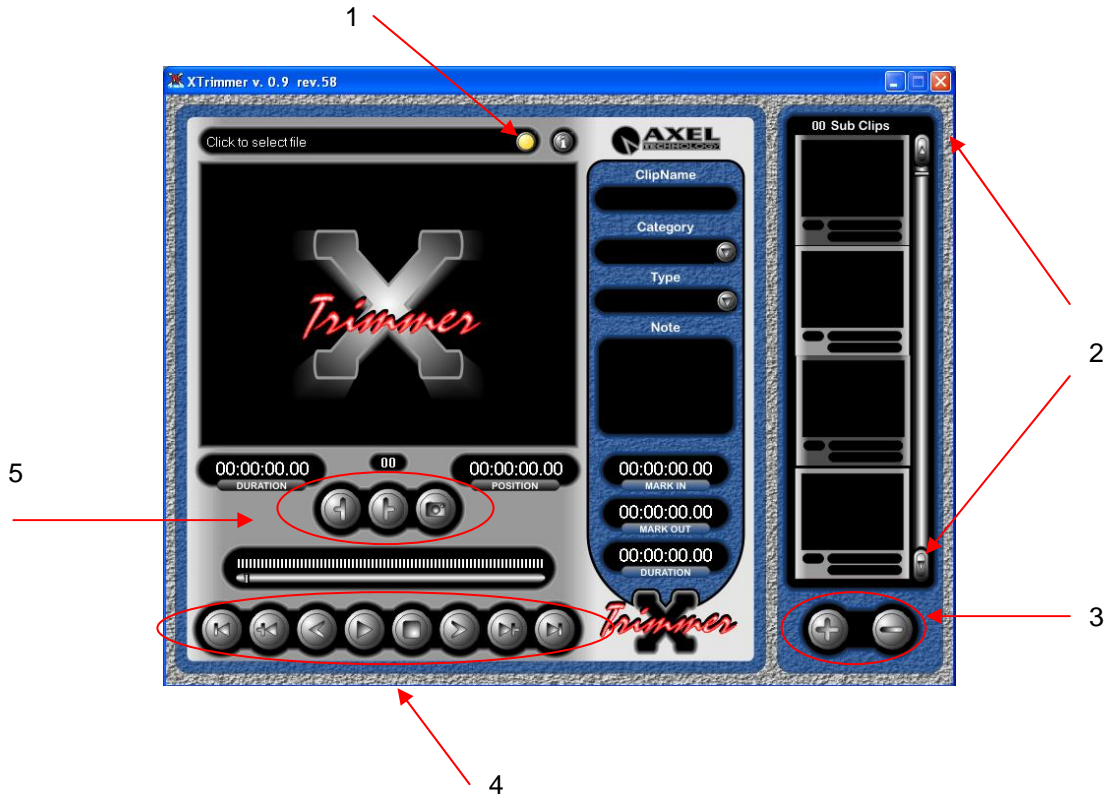
- Put the hardware key on the parallel port of your pc













- Reboot the PC

### 3. X-TRIMMER

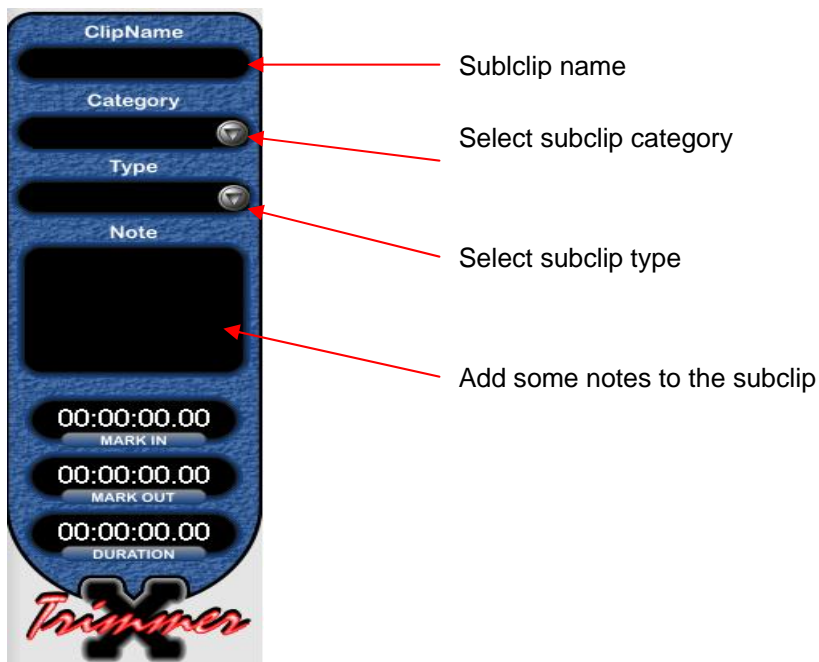
Xtrimmer is a software used for files marking. User interface, as shown in the picture below, is very simple



|   |   |   |
|---|---|---|
| 1 |   | Open the file browser where choose the file to edit   |
| 2 |   | Scrool bar for watching subclips inside the file  |
| 3 |  | Add a new subclip. The new one will have the markin coinciding with the mark out of the previous subclip and the mark out coinciding with the last file frame |
|   |  | Delete the selected subclip   |
| 4 |  | Point the cursor at the beginning or at the end of the file   |
|   |  | Point the cursor at the beginning or at the end of the subclip selected markers   |
|   |  | Point the cursor the next or to the previou frame   |
|   |   | Play the file   |
|   |  | Pause the file  |

|   |   |  |
|---|---|--|
|   |  | Stop the file  |
| 5 |  | Set the subclip mark in                              |
|   |  | Set the subclip mark out                             |
|   |  | Grab the current frame to associate with the subclip |

Every subclip can contains also more information, called metadata, usefull for clip managemant



All the information about subclips are stored directly inside the media file, without using database or extern files.

In this way you can copy media files in every NTFS format drives and the information will be always visible.



## 4. X-PLAYOUT

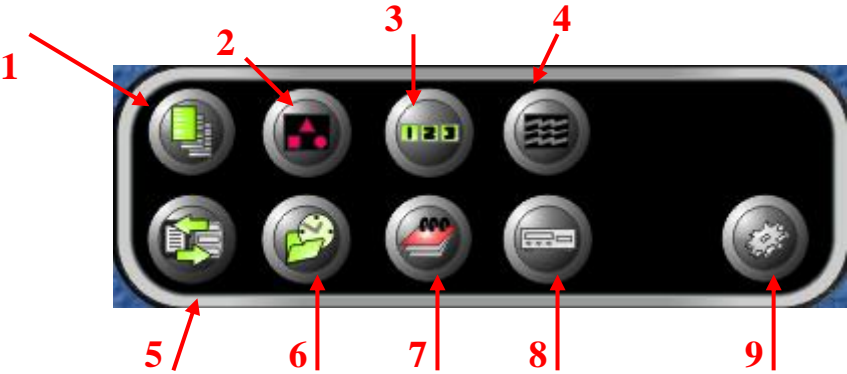
The first time you run the software, a Setup Wizard will start to configure the product (see the Cap. )

The main window is divided in three parts

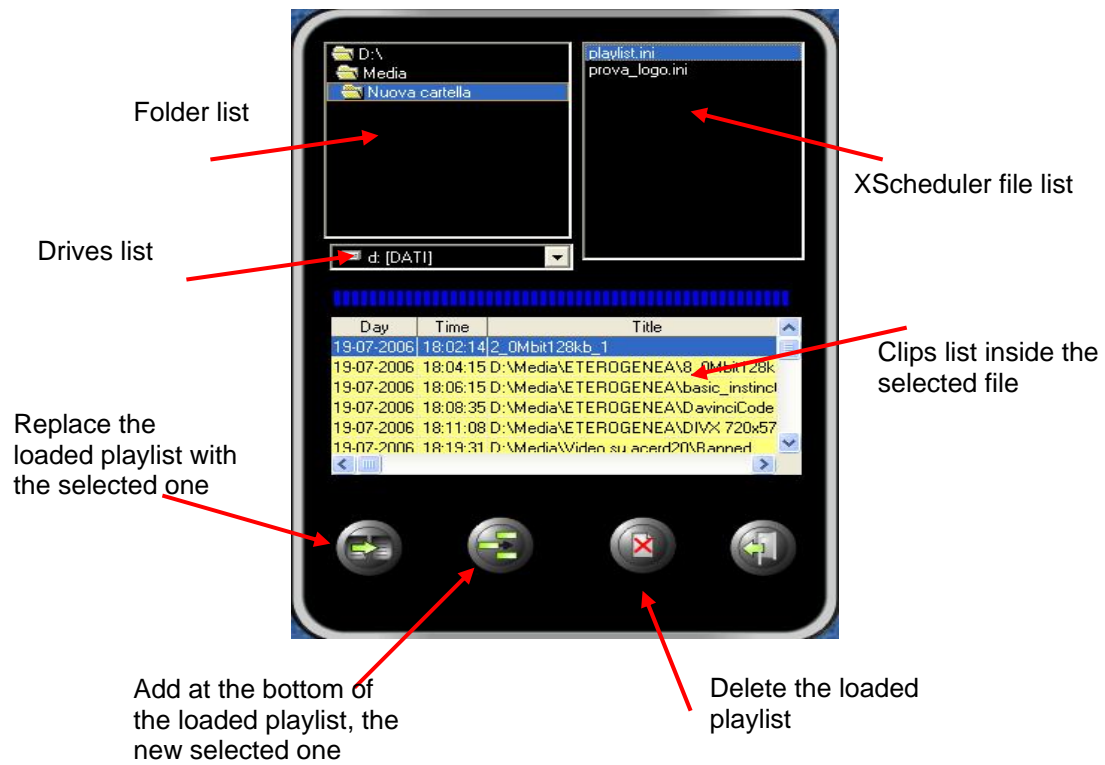




**4.1. MENU DESCRIPTION**



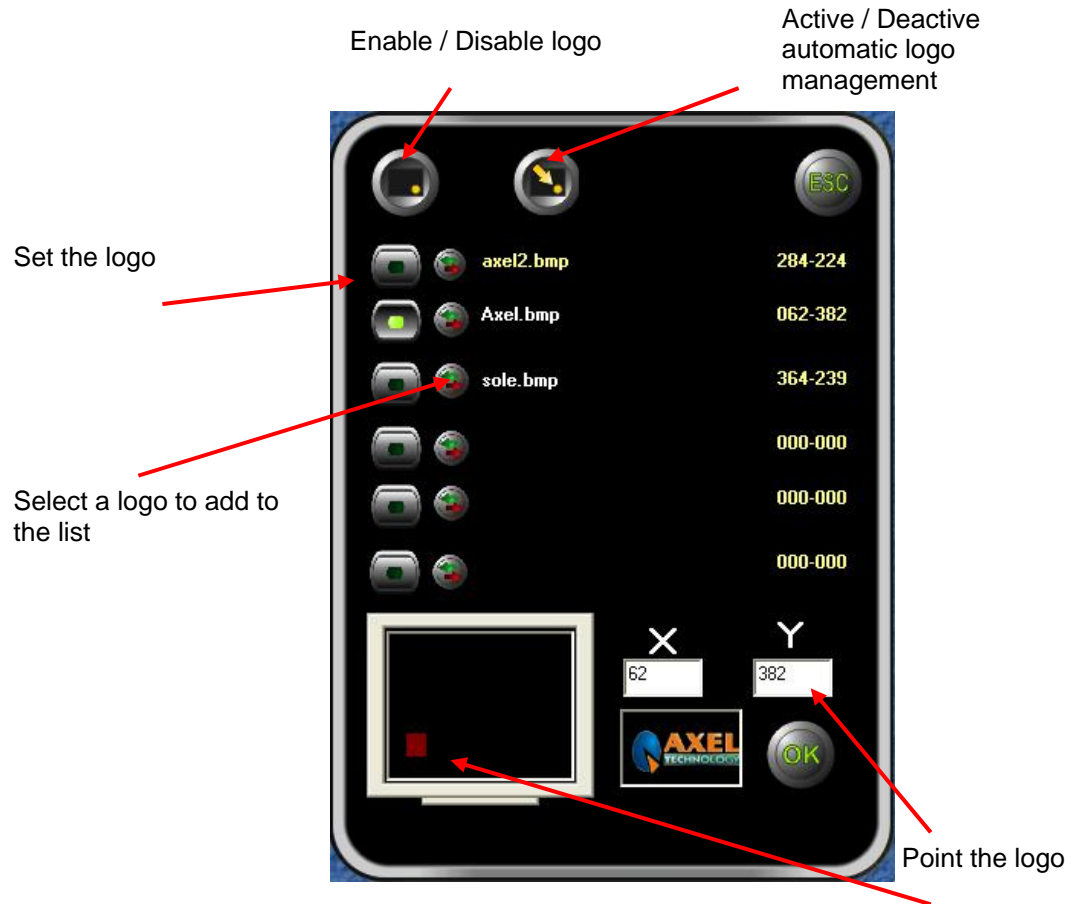
#### 4.1.1. LOAD PLAYLIST



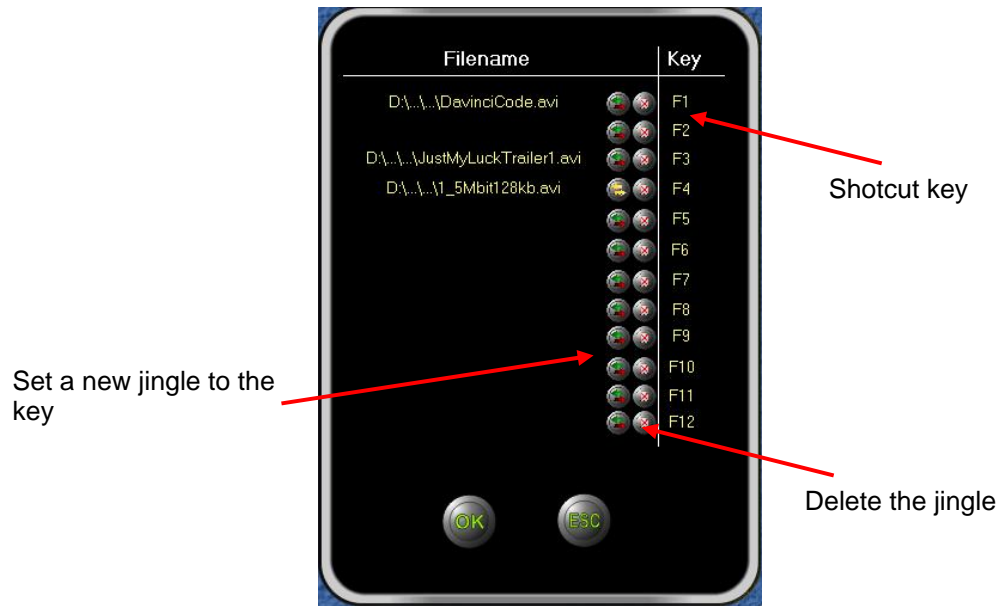
You can also add a partial playlist, just selecting the starting point

## 4.1.2. LOGO

The logo you select is always visible on playout, and for each logo you can choose the position inside the screen

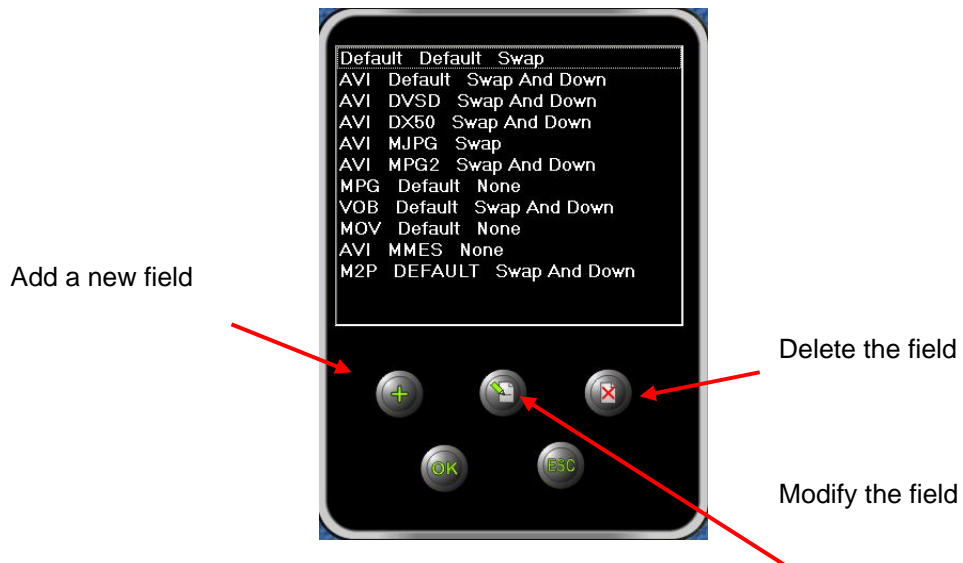


### 4.1.3. JINGLE MANAGEMENT



Jingles are clips always ready to go on air in every moment, just pressing the correct shotcut key. Immediately the playout will be switch.

#### 4.1.4. FILES FIELDS



Each row is composed by three column

- i. EXTENSION : file extension
- ii. 4CC : it's a 4 char word, that show the codec code used for that kind of file
- iii. FIELDS TYPE : it's the engine setting used by the software for that kind of file

If you change a value and press OK, the engine will adapt to the new settings immediatly

#### 4.1.5. CHANGE VIEW

You can select which kind of view activate.

The default one has a graphical layout; the other one is composed by a simple text grid. Each clip (like prepare, replace, or remove ) functions can be used in all the view

The screenshot shows a media management interface with a table of clips and a control bar below it. The table has columns for Day, Time, Duration, Title, Status, P, Cassette, Location, Address, T, Day, Time, and D. The control bar contains several icons for clip management.

Annotations with red arrows:

- Add a clip**: Points to the '+' icon on the left of the control bar.
- Replace the clip**: Points to the icon with a red 'X' over a play button.
- Delete the clip**: Points to the trash can icon.
- Prepare the clip**: Points to the play button icon.
- Edit the clip**: Points to the 'EDIT' button.
- Check the clip**: Points to the icon with a checkmark over a play button.
- Check all the clips**: Points to the icon with a checkmark over a list.
- Enable / Disable the grid autoscroll**: Points to the icon with a grid and a double-headed arrow.

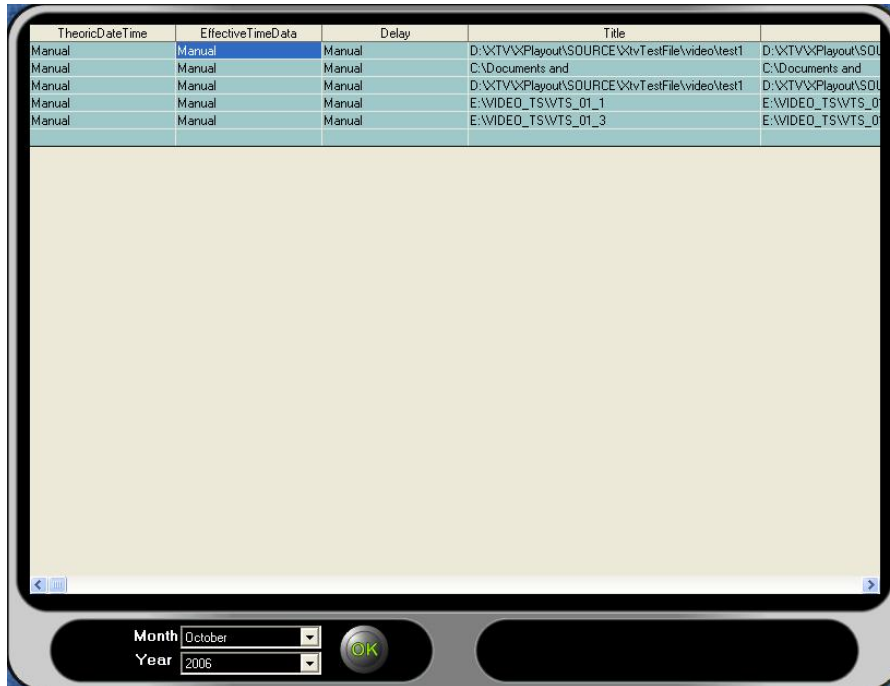
| Day        | Time     | Duration | Title                                    | Status | P | Cassette       | Location | Address | T | Day | Time | D |
|------------|----------|----------|--|--------|---|----------------|----------|---------|---|-----|------|---|
| 11-09-2006 | 13:24:41 | 2:42     | akeelahandthebee-hi2a_h720p_1            | Ready  |   | D:\Media\Trail | HDR1     |         | N |     |      |   |
| 11-09-2006 | 13:27:23 | 2:27     | An American Haunting                     |        |   | D:\Media\Trail | HDR1     |         | D |     |      |   |
| 11-09-2006 | 13:29:50 | 2:05     | Scammer Darkly                           |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:31:55 | 1:48     | Bany Yard                                |        |   | D:\Media\Trail | HDR1     |         | N |     |      |   |
| 11-09-2006 | 13:33:43 | 2:19     | Basic Instinct 2                         |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:36:02 | 2:23     | Black Dalia                              |        |   | D:\Media\Trail | HDR1     |         | N |     |      |   |
| 11-09-2006 | 13:38:26 | 2:06     | D:\Media\Trail\cars-tr1_h720p            |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:40:32 | 55       | D:\Media\Trail\cars-tr4_h720p            |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:41:27 | 1:42     | D:\Media\Trail\employeeofthemonth-hi2a   |        |   | D:\Media\Trail | HDR1     |         | C |     |      |   |
| 11-09-2006 | 13:43:03 | 1:33     | Fast Food Nation                         |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:44:42 | 1:26     | D:\Media\Trail\happy_feet-hi2a_h720p     |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:46:08 | 1:12     | Happy Feet                               |        |   | D:\Media\Trail | HDR1     |         | C |     |      |   |
| 11-09-2006 | 13:47:20 | 2:24     | D:\Media\Trail\haven-h720p               |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:48:44 | 1:54     | D:\Media\Trail\hoot-hi1_h480p            |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:51:38 | 1:26     | D:\Media\Trail\vice_age_2-hiD_h480p      |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:53:05 | 2:15     | D:\Media\Trail\vice_age_2-tr_h480p       |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:55:20 | 59       | D:\Media\Trail\vinard-deep-sea_h480p     |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:56:19 | 1:51     | D:\Media\Trail\larry-the-cable-guy_h480p |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:58:10 | 54       | Mission Impossible 3                     |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:59:04 | 43       | D:\Media\Trail\mission_impossible_3-ab   |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 13:59:47 | 1:52     | D:\Media\Trail\monster_house-tr_h720p    |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 14:01:39 | 2:17     | D:\Media\Trail\open_season-hi2_h480p     |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 14:03:56 | 2:16     | D:\Media\Trail\lover_the_hedge-hi1_h48   |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 14:06:12 | 2:06     | D:\Media\Trail\lover_the_hedge-hi2a-h4   |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 14:08:19 | 1:46     | pratesothecal-trates 01 The Carabian     |        |   | D:\Media\Trail | HDR1     |         | C |     |      |   |
| 11-09-2006 | 14:10:05 | 4:39     | Poseidon                                 |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 14:14:43 | 1:39     | D:\Media\Trail\roving_mars_h480p         |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 14:16:22 | 54       | D:\Media\Trail\see_no_evil_h480p         |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 14:17:16 | 2:30     | D:\Media\Trail\silent_hill_h720p         |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |
| 11-09-2006 | 14:19:47 | 2:28     | D:\Media\Trail\stacy_alkie_h720p         |        |   | D:\Media\Trail | HDR1     |         |   |     |      |   |

#### 4.1.6. HYSTORY

XPlayout saves evrything that goes on air in a CSV text file. This file can be opened with almost all databse software like Micorsoft Access.

Default filename use the follow standard: yyyy\_mm.csv

On the grid bottom, you can select which file you want to open.



| TheoricDateTime | EffectiveTimeData | Delay  | Title  |                     |
|-----------------|-------------------|--------|--|---------------------|
| Manual          | Manual            | Manual | D:\XTV\XPlayout\SOURCE\XtvTestFile\video\test1 | D:\XTV\XPlayout\SDI |
| Manual          | Manual            | Manual | C:\Documents and                               | C:\Documents and    |
| Manual          | Manual            | Manual | D:\XTV\XPlayout\SOURCE\XtvTestFile\video\test1 | D:\XTV\XPlayout\SDI |
| Manual          | Manual            | Manual | E:\VIDEO_TS\WTS_01_1                           | E:\VIDEO_TS\WTS_0   |
| Manual          | Manual            | Manual | E:\VIDEO_TS\WTS_01_3                           | E:\VIDEO_TS\WTS_0   |

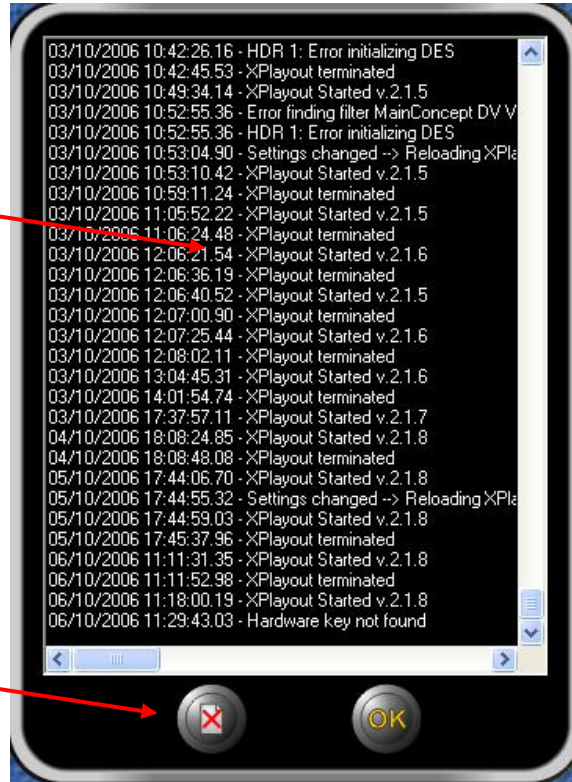
Month: October  
Year: 2006  
OK

### 4.1.7. LOG FILE

XPlayout saves information during operations

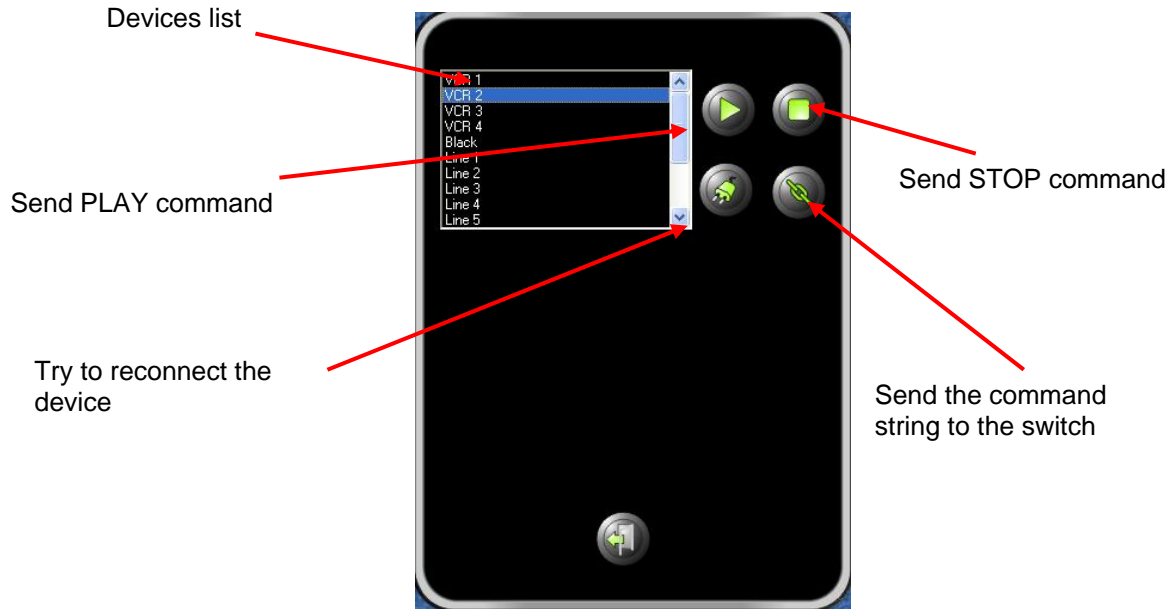
The log file name is :  
<program files>\XTV  
SUITE\LOGS\  
errorLog.txt

Delete the log file

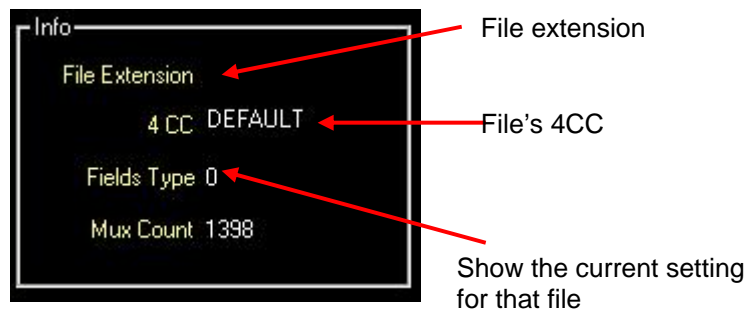




### 4.1.8. DEVICES



About HDR 1, you can see some usefull information about file type  
As you see in the picture below, you can find all the information you need to understand what kind of file is on air. Ususally it' s usefull to see which is 4CC file code



## 4.2. SYSTEM CONFIGURATION

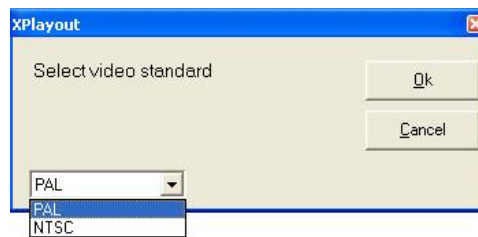
It is possible to set all devices parameters. If you press “SET”, it will ask you if you want to reboot Xpayout to take effect all the changes

In all devices window, a field named “Routing switch” contains the command string to the switch

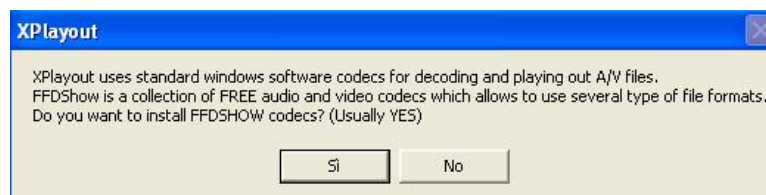
### 4.2.1. SETUP WIZARD

It's a wizard which will guide you to an easy setup of Xpayout, just following few steps

- Select video standard (PAL o NTSC)



- Select if you want to install FFDSHOW codecs

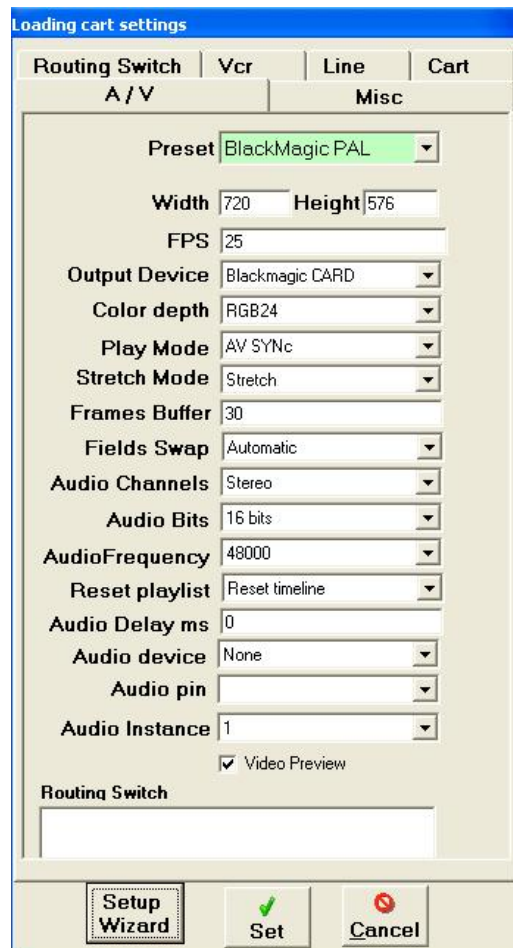


The wizard recognize what kind of video device is present. First at all it checks if a Blackmagic Decklink is present, than a DV device (internal or external). If none of them is present, the normal vga card will be set.

At the end of the wizard the readme.txt file will be show

A default clip will be load and loop mode will be activated. This clip will be show every time your start Xpayout until you press the Play button.

## 4.2.2. AUDIO / VIDEO



|                      |  |
|----------------------|--|
| <b>Preset</b>        | Set default values for the selected devices.   |
| <b>Video Width</b>   | Set the video width  |
| <b>Video Height</b>  | Set the video height   |
| <b>FPS</b>           | Set the video frames   |
| <b>Output Device</b> | <i>MICROSOFT DV</i> : set a DV hardware as output device, using Microsoft DV codecs                      |
|                      | <i>MAINCONCEPT DV</i> : set a DV hardware as output device, using Mainconcept DV codecs (where presents) |
|                      | <i>BLACKMAGIC</i> : Set the DeckLink BlackMagic as output device   |
|                      | <i>VGA</i> : Set standard VGA video card as output device (es. Matrox G550)                              |
|                      | <i>VGA VMR</i> Set standard VGA video card as output device (es. ATI)                                    |
| <b>Color Depth</b>   | Set the color depth  |
| <b>Play Mode</b>     | <i>RENDER ALL FRAMES</i> : reander all A / V frames but out of sync errors may occure                    |
|                      | <i>A/ SYNC</i> : If necessary, skip some frames to maintain the synchronization                          |

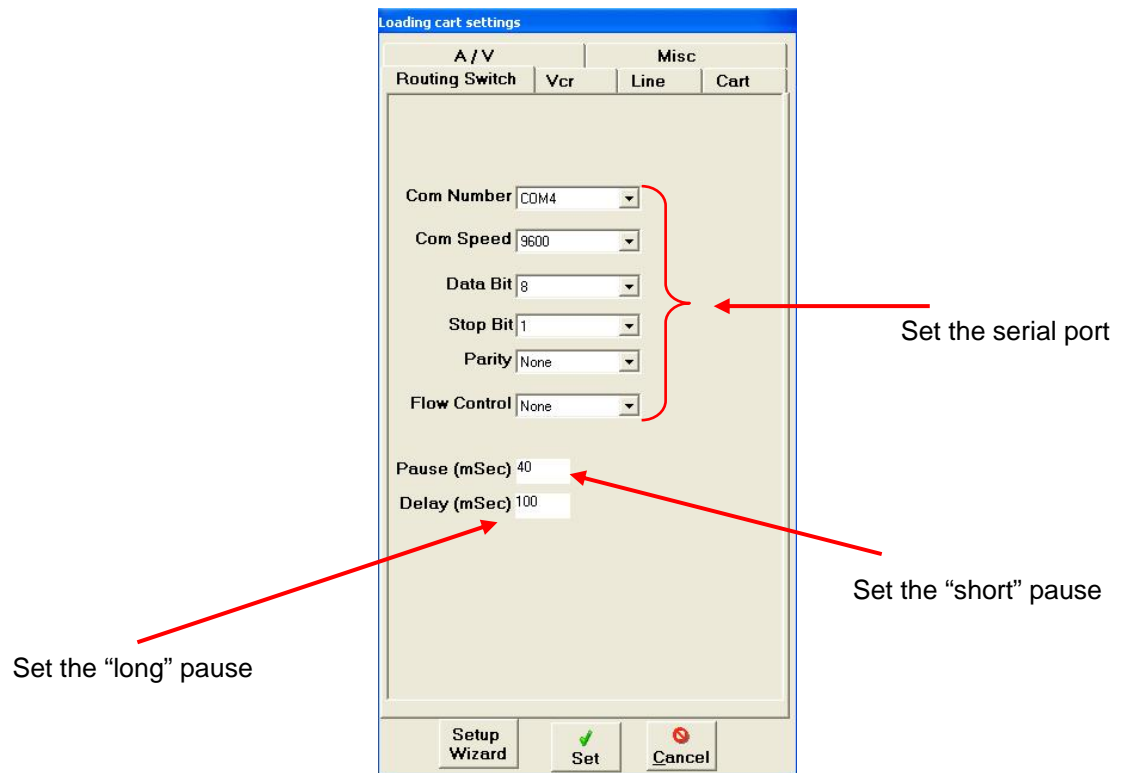
|                         |   |
|-------------------------|---|
| <b>Stretch Mode</b>     | <i>STRETCH</i> : stretch the video to the selected resolution   |
|                         | <i>CROP</i> :   |
|                         | <i>PRESERVE ASPECT</i> :  |
|                         | <i>PRESERVE ASPECT NO LETTERBOX</i> :   |
| <b>Frames Buffer</b>    |   |
| <b>Fields Swap</b>      | If you select "AUTOMATIC", XPlayout will choose automatically the right configuration                                       |
| <b>Audio Channels</b>   | Set the audio as STEREO or MONO   |
| <b>Audio Bits</b>       | Set the bits number used for audio  |
| <b>Audio Frequency</b>  | Set the audio frequency   |
| <b>Reset Playlist</b>   | <i>TIMELINE</i> : If the playlist is blocked, a software reset is run   |
|                         | <i>OUTPUT</i> : If the playlist is blocked, an hardware reset is run. In this case, a discontinuity may occur on the output |
| <b>Audio Delay (ms)</b> | Set the delay or the prerun of the audio  |
| <b>Audio Device</b>     | Set the audio preview device  |
| <b>Audio Pin</b>        | Set the audio pin   |
| <b>Audio Instance</b>   | Set the instance (number) of the device   |
| <b>Video Preview</b>    | Enable / Disable preview window   |

### 4.2.3. GPIS



Enable / Disable gpi control. If you enable gpi, you have to set type

## 4.2.4. SWITCHERS



## 4.2.5. VCRS

Set the vcr type

Set the serial port

Set the vcr standard

Loading cart settings

A/V Misc

Routing Switch Vcr Line Cart

VCR 1

Type Standard

Com NONE TX

Routing Switch

VCR 2

Type Standard

Com NONE TX

Routing Switch

VCR 3

Type Standard

Com NONE TX

Routing Switch

VCR 4

Type Standard

Com NONE TX

Routing Switch

Setup Wizard Set Cancel

## 4.2.6. LINES

For this kind of device, there's no parameters to set, except for the crossing string for the switch

The image shows a software dialog box titled "Loading cart settings". It has a blue title bar and a light beige background. At the top, there are two tabs: "A / V" and "Misc". Under the "Misc" tab, there are four sub-tabs: "Routing Switch", "Vcr", "Line", and "Cart". The "Line" sub-tab is currently selected. Below the sub-tabs, there is a "Select line" dropdown menu with "Line4" selected. Below that, there is a section for "Line4" with a "Name" field and a "TX" button. Below the "Name" field is a "Routing Switch" field. At the bottom of the dialog, there are three buttons: "Setup Wizard", "Set" (with a green checkmark icon), and "Cancel" (with a red X icon).



## 4.2.7. CART MACHINES

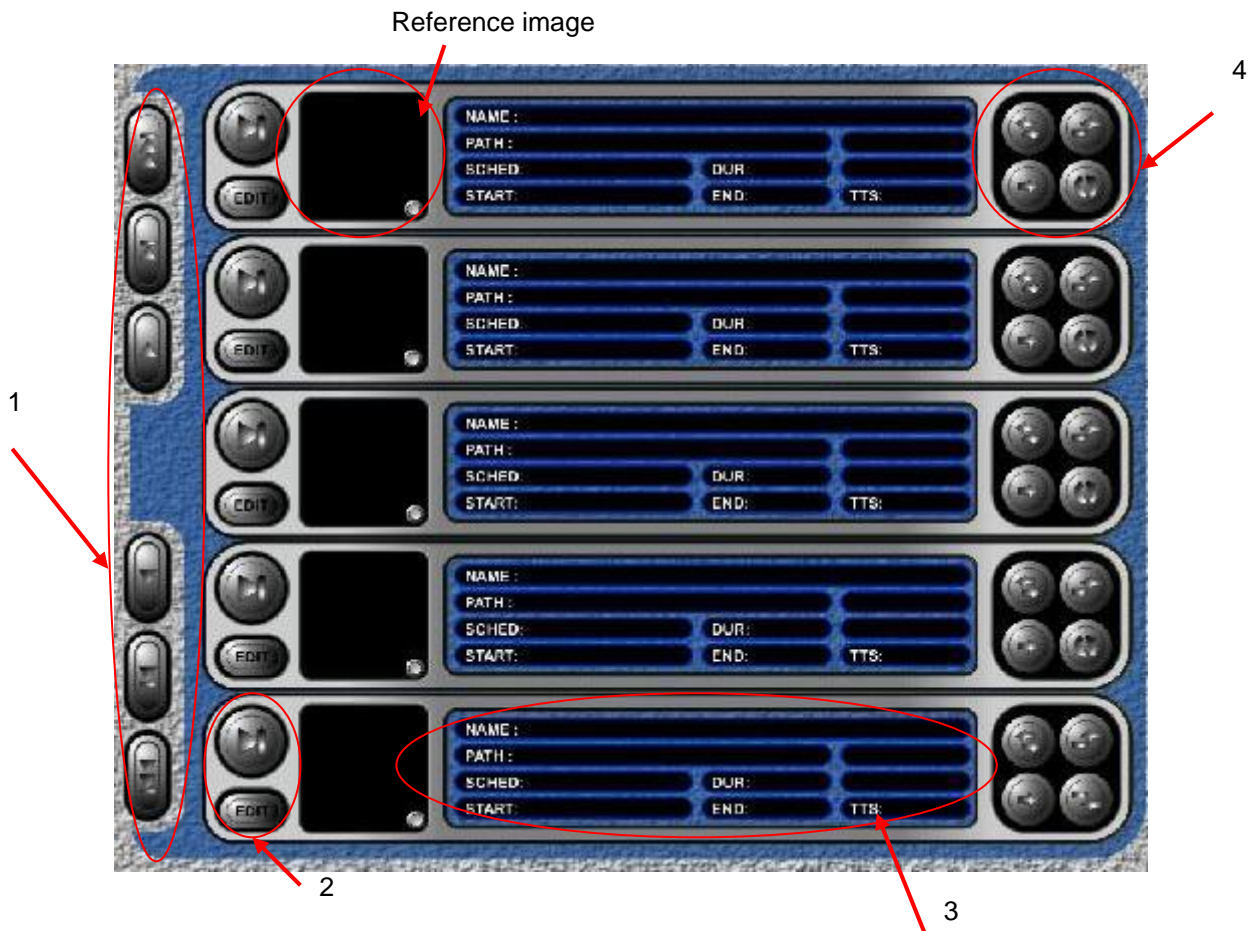
The screenshot shows a software dialog box titled "Loading cart settings" with a blue header bar. The dialog is divided into two main sections: "A/V" and "Misc". Under "A/V", there are sub-sections for "Routing Switch" and "Vcr". Under "Misc", there are sub-sections for "Line" and "Cart".

Annotations with red arrows point to the following elements:





- Cart machine type:** Points to the "Type" dropdown menu, which is currently set to "PROMATIC1".
- Cart machine parameters:** A bracket groups the "Vcr", "Rows", "Cols", "Revision", and "SlotPort" fields. "Vcr" is a text box with "0", "Rows" is a text box with "4", "Cols" is a text box with "4", "Revision" is a text box with "2", and "SlotPort" is a text box with "624".
- Serial port number:** Points to the "Com" dropdown menu, which is currently set to "NONE".
- For each vcr inside the cart, select the type:** Points to the "Standard Col Type" section, which contains a "# Col" dropdown menu and an empty text box.

At the bottom of the dialog, there are three buttons: "Setup Wizard" (with a gear icon), "Set" (with a green checkmark icon), and "Cancel" (with a red 'X' icon).

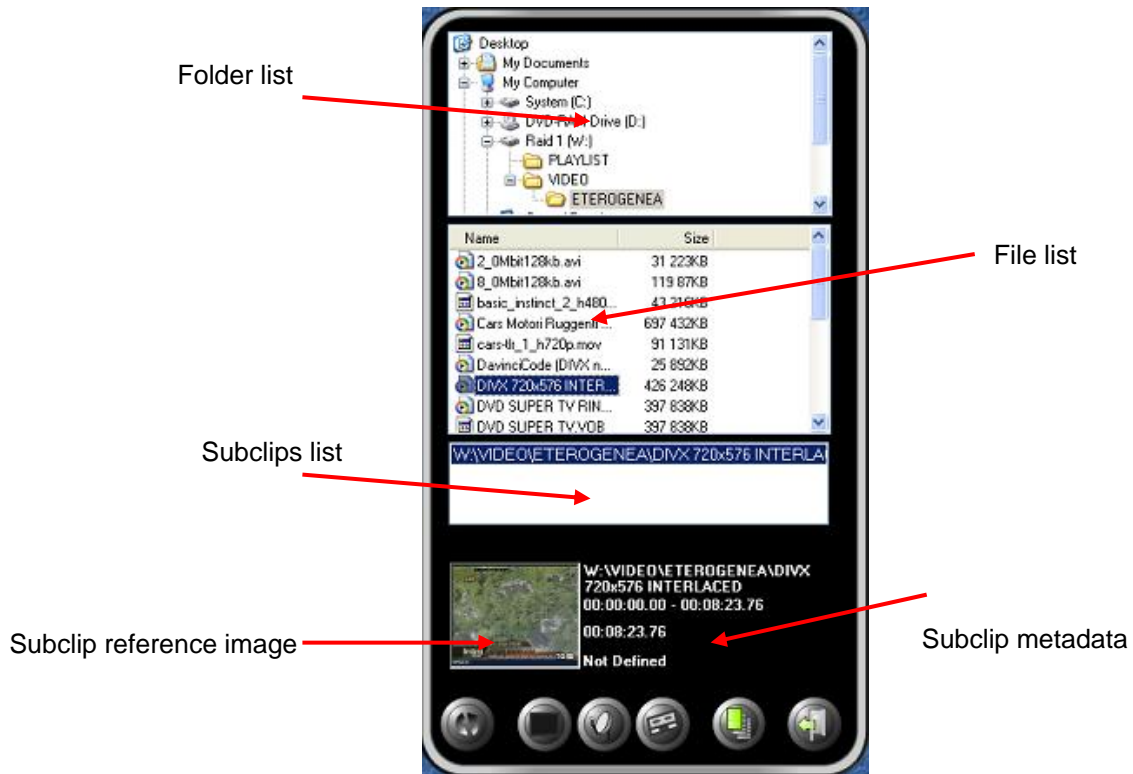
### 4.3. PLAYLIST INFORMATION



|   |                  |  |
|---|------------------|--|
| 1 |                  | Scroll the playlist to the beginning or to the end   |
|   |                  | Scroll to the next page or to the previous one   |
|   |                  | Scroll to the next clip or to the previous one   |
| 2 |                  | Prepare the clip as the next one. If XPlayout is set to AUTO, the selected clip will go on air at the end of the current on air clip |
|   |                  | Edit clip parameters   |
| 3 | Clip information |  |
|   | NAME             | Clip name  |

|   |  |  |
|---|--|--|
|   | <i>PATH</i>  | Source path  |
|   | <i>SCHEM</i>   | Date and time set by XScheduler.   |
|   | <i>DUR</i>   | Clip duration  |
|   | <i>START</i>   | Show at what time the clip will be on air. This value is calculate dynamically.  |
|   | <i>END</i>   | Show at what time the clip will be end. This value is calculate dynamically.   |
|   | <i>TTS</i>   | Time To Start: Show how much time left to the clip onairing  |
| 4 |   | Replace the clip   |
|   |   | Inset a clip   |
|   |   | Delete the clip  |
|   |  | Switch the clip with the next one. If user is pointing to the last clip, a new one will be add at the bottom of the playlist |

### 4.3.1. CLIP BROWSER



For adding or modify a clip just double click on the reference image, or on the file name, or on the subclip name

If the selected file was not edited by Xtrimmer, the retrieving of information (like reference image or duration) will take some seconds.



Refresh the browser

You can also add other type of event



insert a black in the current playlist. Default duration is 5 seconds



insert a line event, just choose the line number

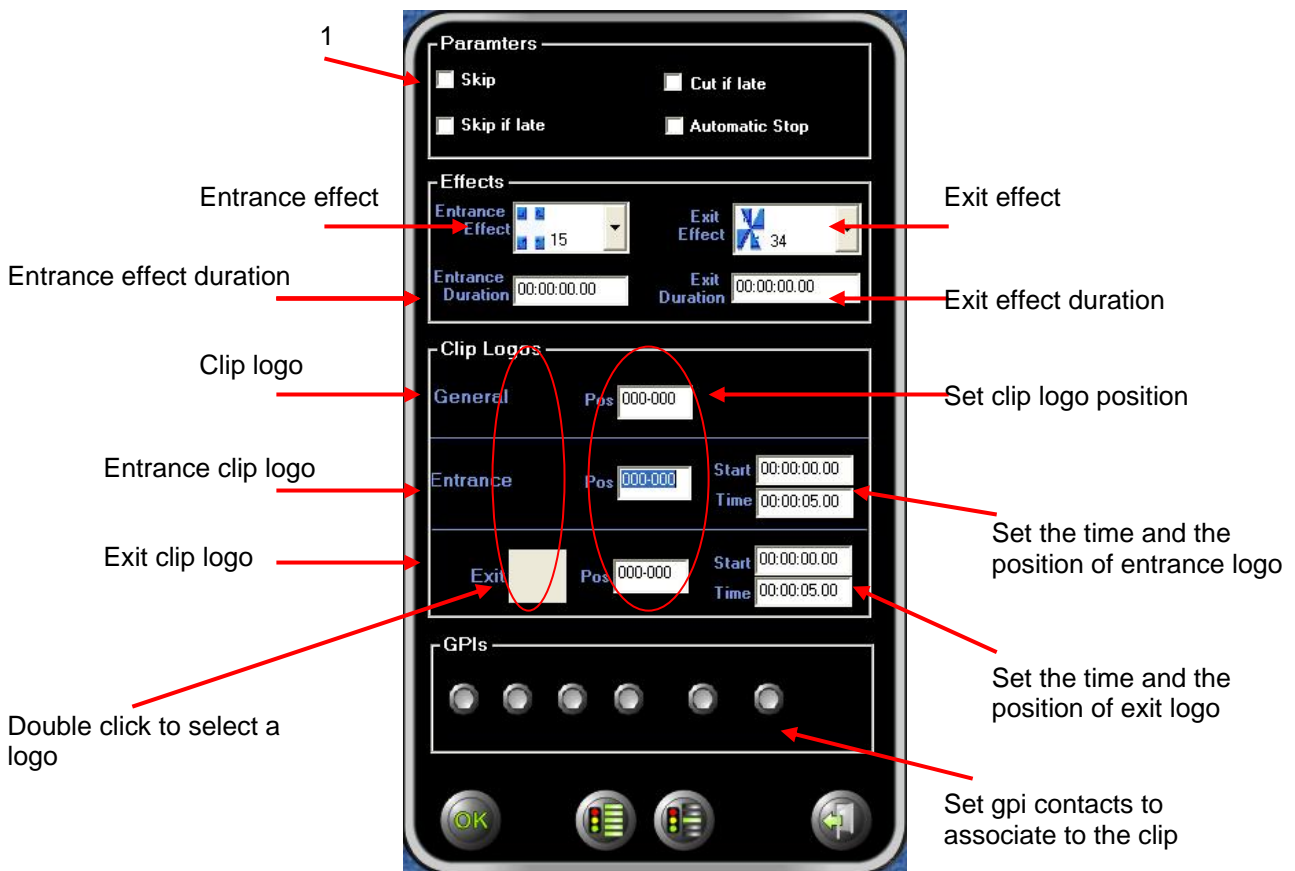


insert a vcr event, just typing the cassette name



insert a playlist at the selected position

### 4.3.2. CLIP PARAMETERS



1. SKIP: the clip will be not played
2. SKIP IF LATE: if the delay is longer than the 80% of clip duration, the clip will be skipped
3. CUT IF LATE: if there's a delay or a prerun, the clip can be cut or stretch (to the TC Max value)
4. AUTO STOP: ate the end of the clip XPlayout will stop onairing

All changes will take effect only if you press OK

### 4.3.3. CLIP PREVIEW

In every reference image on the list, there's a button which allow you to watch the file preview even if you are on air.



All the changes are not saved inside playlist file but only inside XPlayout. If you try to reopen the playlist file with Xscheduler, the changes will be not loaded

#### 4.4. ON AIR INFORMATION






1



Start on air.  
If a clip is onair, the next  
one will be played

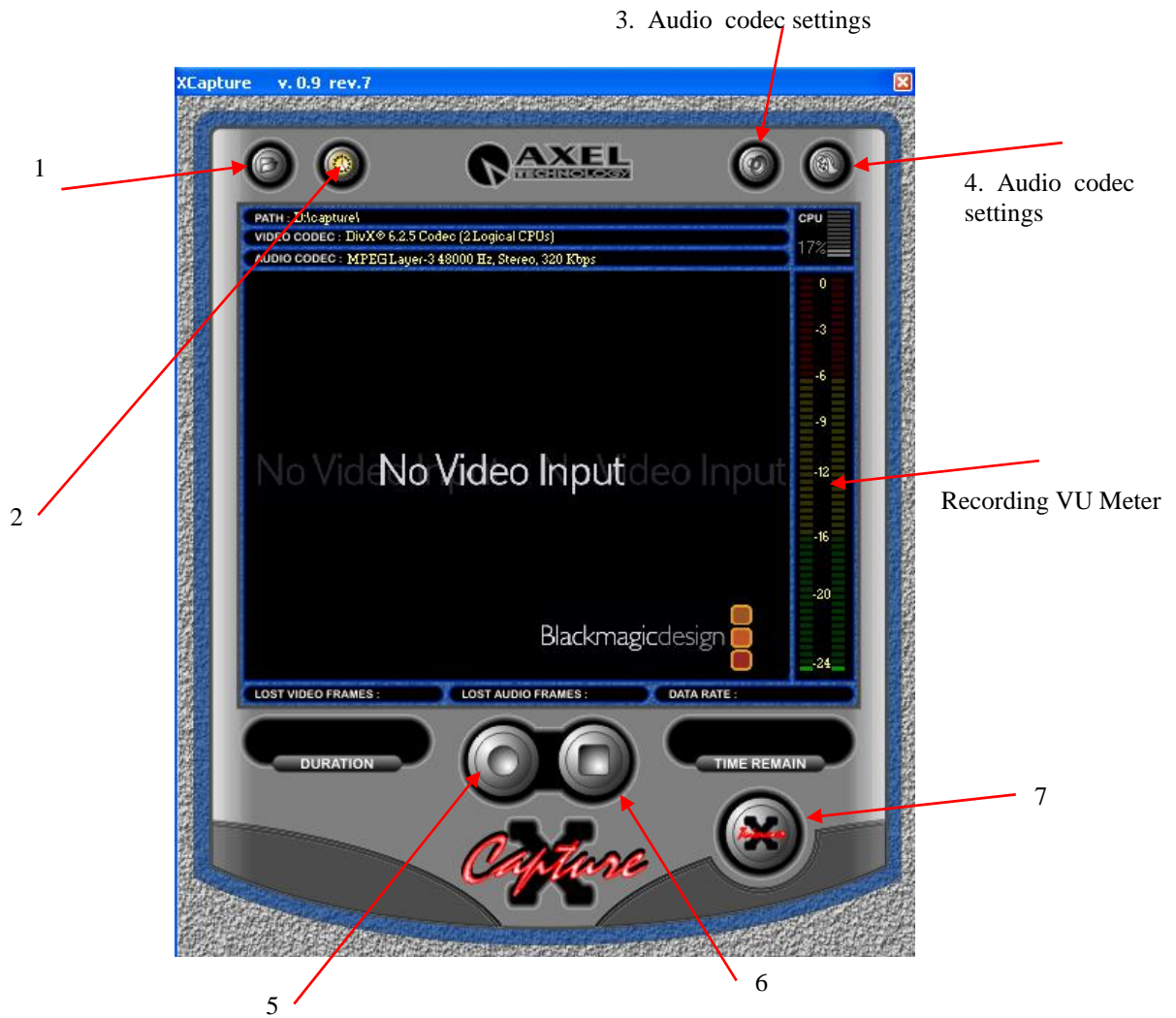
2








Onair preview

|   |   |  |
|---|---|--|
| 1 |    | Pause on air. In automatico, il software aggiungerà all'elenco dei brani successivi, in prima posizione, la parte rimanente della clip in onda   |
|   |    | Stop the on air  |
|   |   | Enable / Disable loop mode. Every time a clip is on air, the same one will be added at the bottom of the playlist  |
| 2 |  | If pressed, when you load a playlist and go onair, Xpayout start AUTO MODE. At the end of the clip, automatically, Xpayout go to the next song. If a clip is blocked, the software will skip to the next, so it will never stop. |
|   |  | If pressed, Xpayout goes on MANUAL MODE. The user must prepare and press play to put a clip on air. No automation is present in this situation.  |

## 5. X-CAPTURE

XCapture is a software for digital recording using whichever audio and video codecs you want



|   |   |  |
|---|---|--|
| 1 |  | Set saving path                              |
| 2 |  | Create a recorder scheduler                  |
| 3 |  | Set audio codec                              |
| 4 |  | Set video codec                              |
| 5 |  | Start recording                              |
| 6 |  | Stop recording                               |
| 7 |  | Open XTrimmer loading the last file recorded |



When you start recording, the preview is shown on the main window. On the bottom you can read more information.

- **Lost Audio Frames** → Number of audio lost frames
- **Lost Video Frames** → Number of video lost frames
- **Data Rate** → Average data rate of current recording
- **Duration** → Recording duration
- **Time Remain** → Max duration available

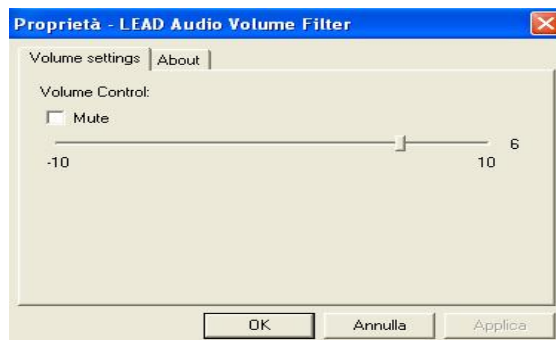
When you press STOP, a window will appear asking you for a file name for the current recording. If you type nothing or press CANCEL, no file will be save and the current recording will be deleted.

If you decide to save the recording, you can immediately edit it with XTrimmer

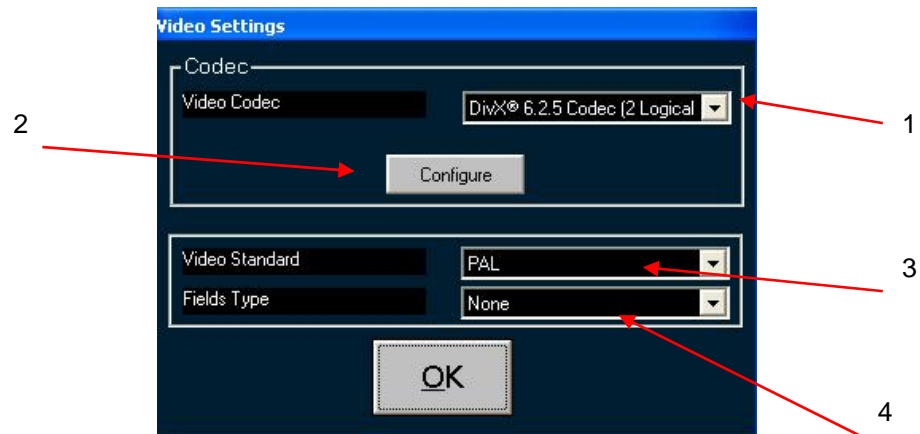
## 5.1. AUDIO CODEC SETTINGS



1. Select audio codec (MP3 is avoided)
2. Set audio codec parameters (for MP3, settings avoided are 48000 Hz, 128 KBps )
3. Set recording volume

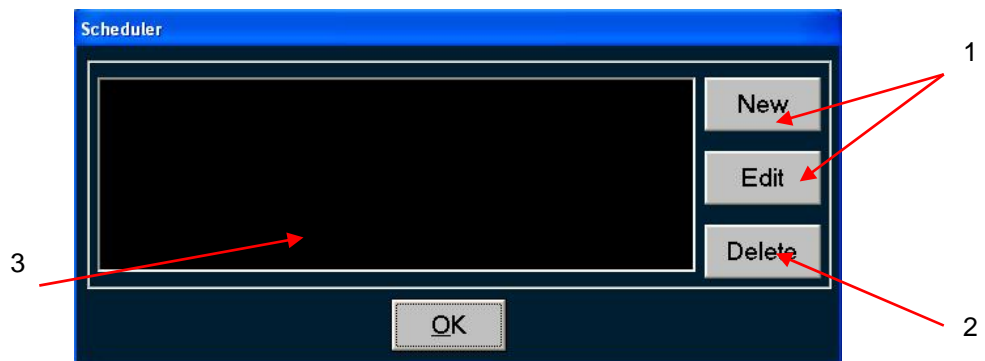


## 5.2. VIDEO CODEC SETTINGS

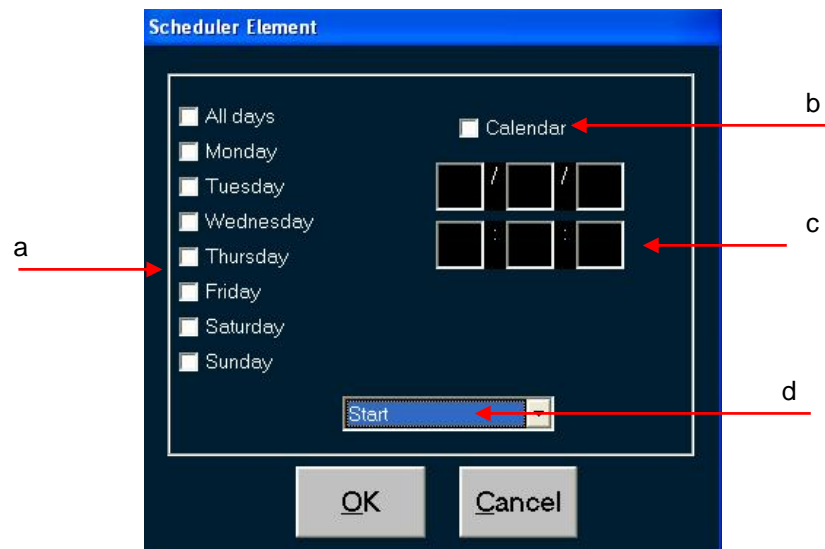


1. Select video codec (DivX is avoided)
2. Set video codec parameters
3. Select video standard (PAL o NTSC )
4. Select fields type

### 5.3. RECORDING SCHEDULER



1. Add (or modify) a schedule using the window below



- a. Select weekday.
  - b. If you check this option, the schedule will start ONLY on the date you write
  - c. Set schedule time
  - d. Select schedule type (START or STOP)
2. Delete the selected schedule
  3. Schedule list

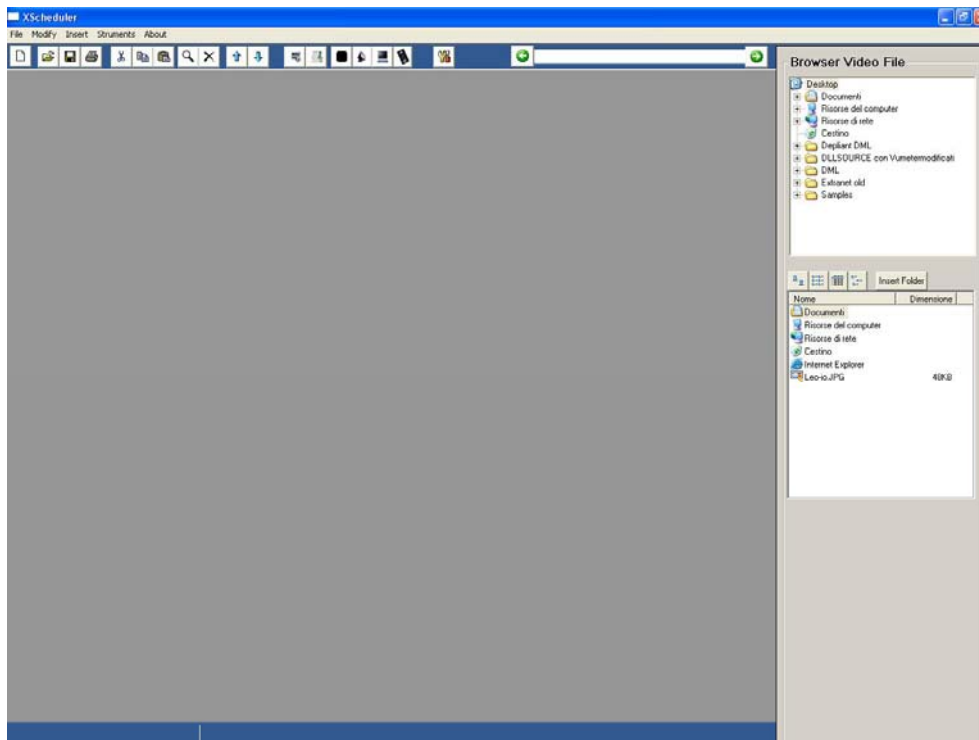
## 6. X-SCHEDULER

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 windows style so it can be used for everyone who can user Windows product.

The main window is divided in three parts:

- On the top, there's the menu with the toolbox bar
- On the right a browser can be shown just passing the mouse on the right border of the window
- On the center, the grid that contains the document



### **File Menu**

- **New** → Create a new document
- **Open** → Open a document
- **Close** → Close current document
- **Save** → Save current document
- **Save As** ... → Save current document typing the file name
- **Exports** → Export current document to other formts (html, csv, xml ..)
- **Print** → Print current document
- **Exit** → Exit XScheduler

### **Modify Menu**

- **Undo** → Undo last operation
- **Cut** → Cut selected clip(s)
- **Copy** → Copy selected clip(s)

- **Past** → Paste selected clip(s)
- **Delete** → Delete selected clip(s)
- **Move Up** → Move up selected clip(s)
- **Move Down** → Move down selected clip(s)
- **Select All** → Select all clip(s)
- **Find / Replace** → Find (or replace) a string inside the document
- **Go To** → Point the cursor to the typed row

### ***Insert Menu***

- **Playlist** → Add a playlist to the document
- **Clip** → Add a clip to the document
- **Pictue** → Add a bitmap (bmp or jpg) to the document
- **Black** → Add a "black" event to the document
- **Line** → Add a "line" event to the document
- **HDR** → Add a "hdr" event to the document
- **VCR** → Add a "vcr" event to the document
- **Empty** → Add an "empty" event to the document

### ***Tools Menu***

- **XTrimmer** → Open Xtrimeer loading the selected file
- **Check files** → Check the documents
- **Options** → Configure XScheduler