

[Air]Box

User's Manual - Version 03.04.07 - May 2007

Video Playout Software



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Introduction

The Air Box is a small-scale, cost-effective playout system that controls up to 6 fully independent channels, freely configurable of an EVS XT Series server (SD and/or HD).

The AirBox-XT is an efficient non-linear editor with an intuitive Windows® user interface: Any clip, local or remote, can be incorporated in playlists with straightforward “drag & drop” commands. User programmable filters help to retrieve that one particular shot swiftly, which can then be previewed at once without ever disturbing the operator who captured it.

The integrated playlist automation makes the AirBox-XT a very **cost effective** solution for non-stop, unattended broadcast operations. Sequences are played with transition effects reliably, timed either by a clock or triggered by a GPI.



Main operational features

Independent Rec & Play channels

No need to wait until action is completed. It is also possible to play back material while it is still being recorded (time shift delay).

Clip management

The XT Series Server attached to the Air Box can store up to 2048 (HCTS 1st generation) or 4096 local clips (HCTS 2nd generation or HCTX). For a successful database organization, each clip has a unique 8-character ID, a name (24 characters), a description (type & category), a priority rating and up to 3 different keywords.

Playlist management

Non-linear editing facilities such as Insert, Remove, Loop function, freeze frame, etc... allow the operator to build the playlist. The playlist can be modified while it is on air. A second playback channel can also be used to preview automatically the first frame of the next clip due to be on air in the playlist.

External VTR control (Sony BVW75 protocol)

- To ingest some content onto the server
- To chain material from the VTR (longer duration) with other material recorded on disk (short or medium duration) with frame accuracy.

User-friendly interface

Dedicated remote panels, mouse, keyboard & SVGA monitor allow a full control of the Air Box.

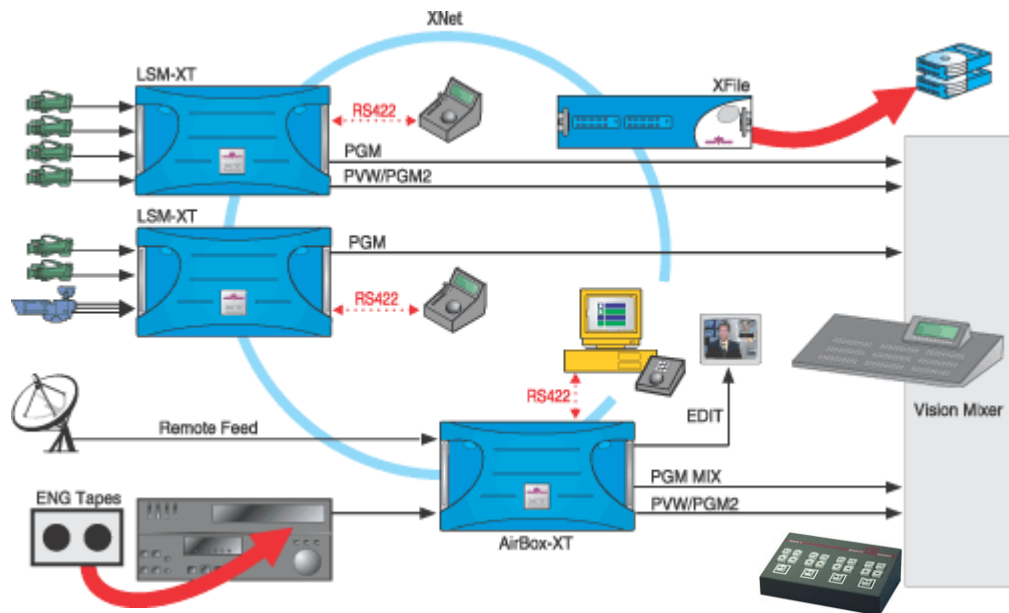
The screenshot displays the AirBox Commander software interface. The top bar shows the title 'AirBox Commander - COMMANDER1' and the date/time '04h44m04s, Tuesday, December 05, 2006'. The interface is divided into several sections:

- Top Left:** Control VTR section with buttons for 'No Vtr', 'Jog', 'Play', 'Stop', 'Pause', 'Auto Edit', and 'VTR'. It also shows 'Available capacity 17h36m36s' and a red digital display showing '04:44:04:27'.
- Top Right:** A section for 'Rem Dur Clip' and 'Rem Dur Playlist' with a digital display showing '00:00:17:18' and '00:00:19'. It includes buttons for 'Next' and 'Skip'.
- Middle Left:** A section for 'Name' and 'ID' with a digital display showing '00:00:00:00' and buttons for 'IN' and 'OUT'.
- Middle Right:** A table showing a playlist of clips. The table has columns for '#', 'ID', 'LSM', 'Effect', 'Name', 'ID', 'On Air Time', 'Duration', and 'Event'. The table lists 16 clips, each with a duration of 00:00:20:00(100%).
- Bottom Left:** A section for 'Clip Name', 'Clip ID', 'Duration', and 'Remain' with a digital display showing '00:00:00:00' and buttons for 'IN' and 'OUT'.
- Bottom Right:** A large table showing a list of clips. The table has columns for 'Num', 'Lsm ID', 'Name', 'In', 'Out', 'Duration', 'Status', 'Ma...', 'Archive', 'Rating', 'Keyword 1', 'Keyword 2', and 'Keyword 3'. The table lists 15 clips, each with a duration of 00:00:03:08.

The bottom status bar shows 'Capacity Left 3 days,11h13m' and '115 Clips'.

Chapter 1 - Cabling

The AirBox software is installed in a workstation operating under Windows NT 4.0 system. The communication between the XT Series Server and the Air Box application is done through an RS422 connection using EVS Advanced Video Server Protocol (XT Series Server AVSP*).



For the cabling of the XT Series Server itself, please refer to the XT Technical Reference. It is possible to combine the Air Box with the well-known Multicam Remote and with the new IP Director application.

*Check your XT version for a proper configuration

Chapter 2 – Configuration

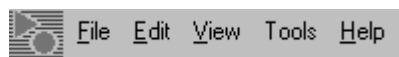
The complete control of the Airbox is organized into one single screen for recording the material, for creating and editing clips, for forming the playlists and for sending the Playlist screenplay *On Air*.



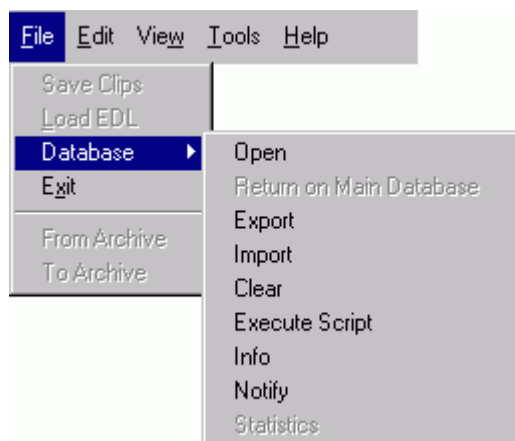
Double-click on the Airbox Icon to begin: Master AirBox

The Menu Bar

The familiar Windows-NT Menus are located in the Menu Bar:

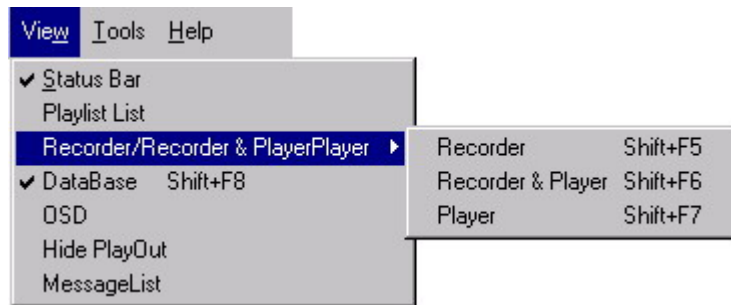


The **File** menu gives you access to a main function:



- Load EDL: this item is only used for integration of EVS systems. EDL file format currently supported is EVS EDL.
- Database: this option allows you to open, export, import or clear a database. "Info" gives you some information about the database loaded and "Execute Script" Will let you load a database with different options. These functions should be only used by trained EVS engineers for maintenance operations.

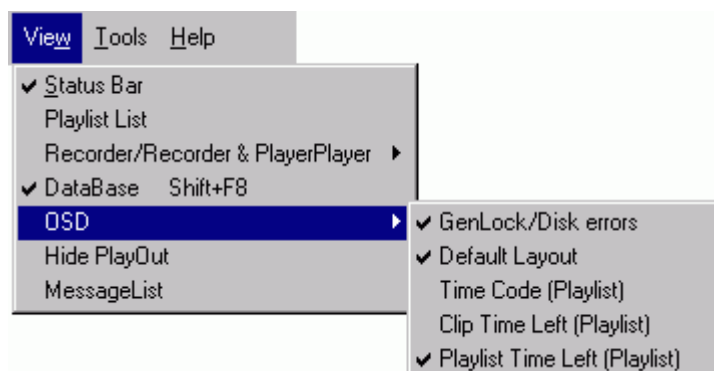
The **View** menu allows you to configure your screen display as desired.



- Status Bar: this item displays or hides the Status Bar and the Capacity left counter.
- Playlist List: this item displays or hides the first column in the player area.
- Recorder/Recorder & Player/Player: this item offers 3 modes of display for your AirBox interface: Player mode only displays the Players, Recorder mode displays all recorders, and Recorder & Player mode displays both recorders and players.

Shortcuts are available to quickly modify the display of players, recorders and Database:

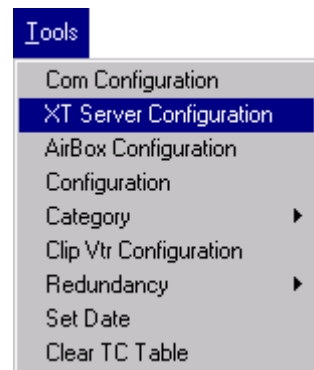
- *SHIFT+F5: only displays the recorders windows and toggles between recorders.*
- *SHIFT+F6: displays both recorders and players windows.*
- *SHIFT+F7: only displays the player's windows and toggles between players.*
- *SHIFT+F8: displays/hides the Database area.*
- Database: this item displays or hides the Clip/Playlists database area.



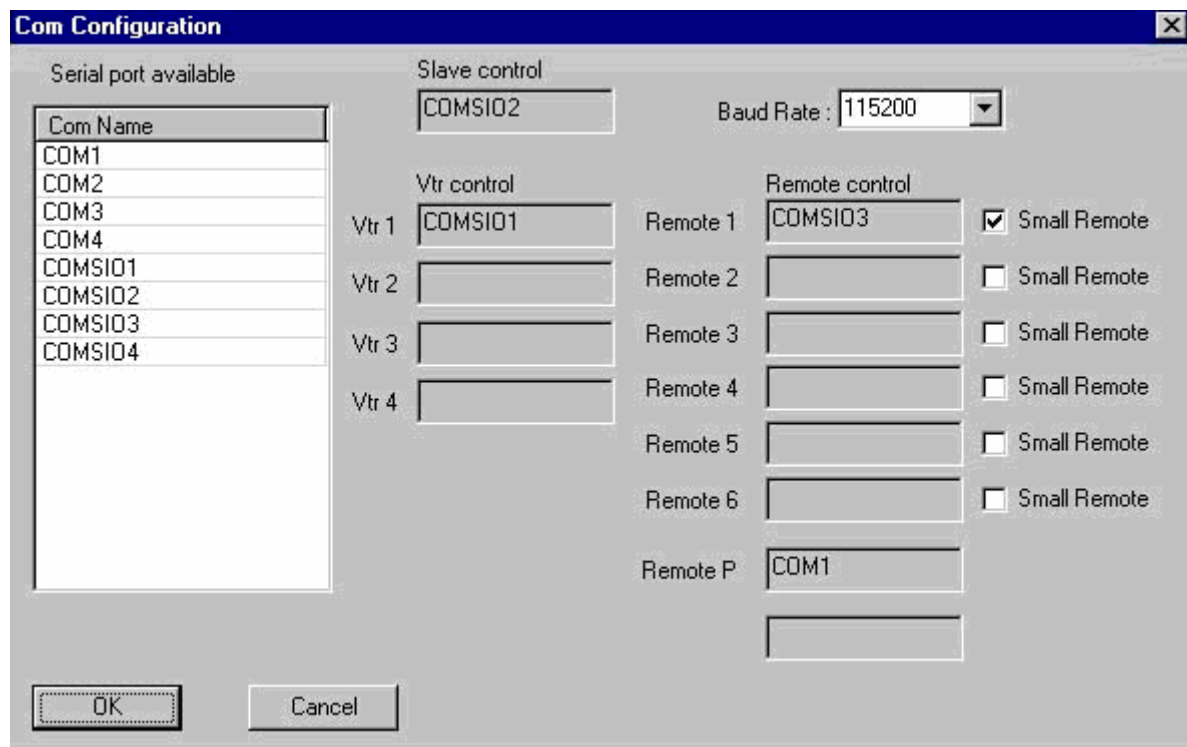
- OSD: this item offers you 4 options to see Genlock error message on the OSD (!GKV), to use the default layout for the OSD (time code, in and out, clip name), or to view/hide time code and time left (in a playlist)

- Hide PlayOut : this item displays or hides the PlayOut
- Message List: this item displays internal messages from the AirBox running status (message.txt file).The frequency of the messages can be selected from level 0 (all internal debug messages) to level 2 (error messages only).

The **Tools menu** opens different dialog boxes with which your entire system is configured:



- **COM configuration**



The COM configuration dialog box allows you to assign the serial communication ports available on the AirBox to the peripheral equipment: The XT Series Server, the remote control panels and the different VTR machines. The Baud rate selection box allows you to define the transfer rate between the AirBox and the XT Series Server. Default is 115200. "Small Remote" checkboxes select the type of remote control panel to be used.

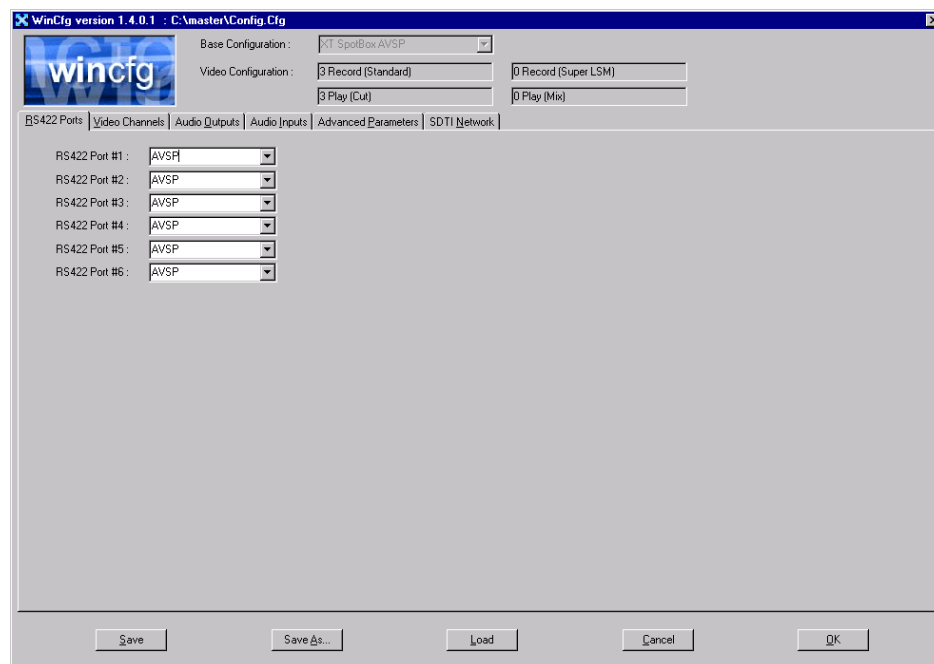
This box should be checked if using the type of remote as described in chapter 4 (Remote Panel Description). This box should be left unchecked when using the Remote D (larger remote with jog and t-bar).

Comment: Serial ports configuration has been tested to efficiently carry out its functions. Please do not modify the standard configuration. If you need to do so, just drag the com name into a particular control box.

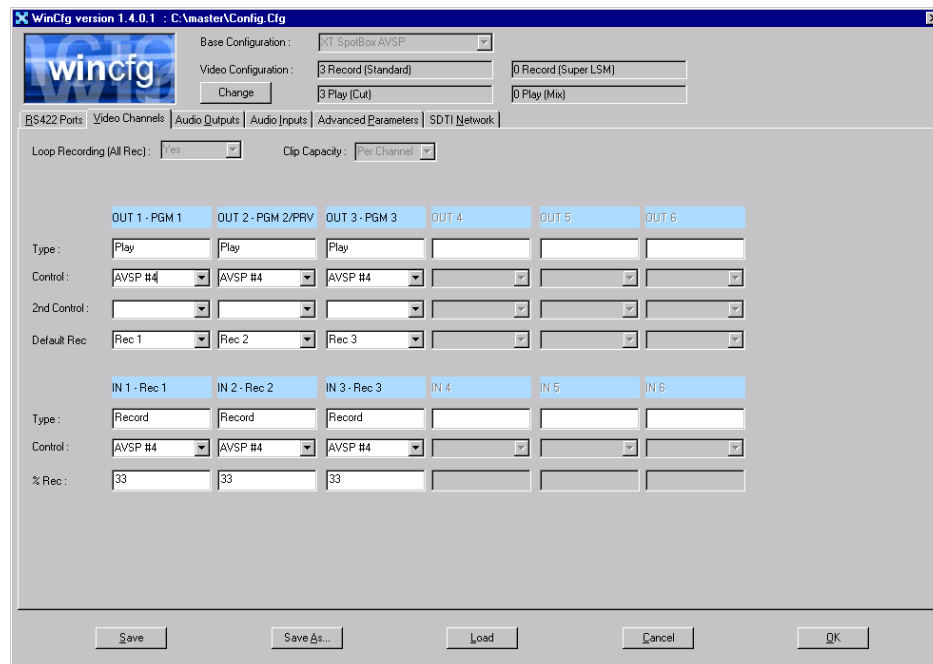
- **XT Server Configuration (WinCfg)**

The WinCfg dialog box allows you to set up the configuration of the XT Series Server from the AirBox. These parameters are also available from the EVS and AVCFG applications directly on the XT Series Server system monitor. For a more detailed description of these parameters, please refer to the "EVS Advanced Parameters" and "AVCFG" sections of the Technical Reference for XT Series Server.

RS422 Ports: To configure the COM ports of the XT Series Server. RS422 Port #1 must be assigned to the EVS AVSP protocol to work with the AirBox. When in the stand alone mode, the AirBox PC must be connected to the RS422 port #1 of the XT Series Server.



Video Channels: to configure the sharing of disk capacity between the record channels. Click on the “Change” button in the upper part of the window to change the number of rec and play channels.



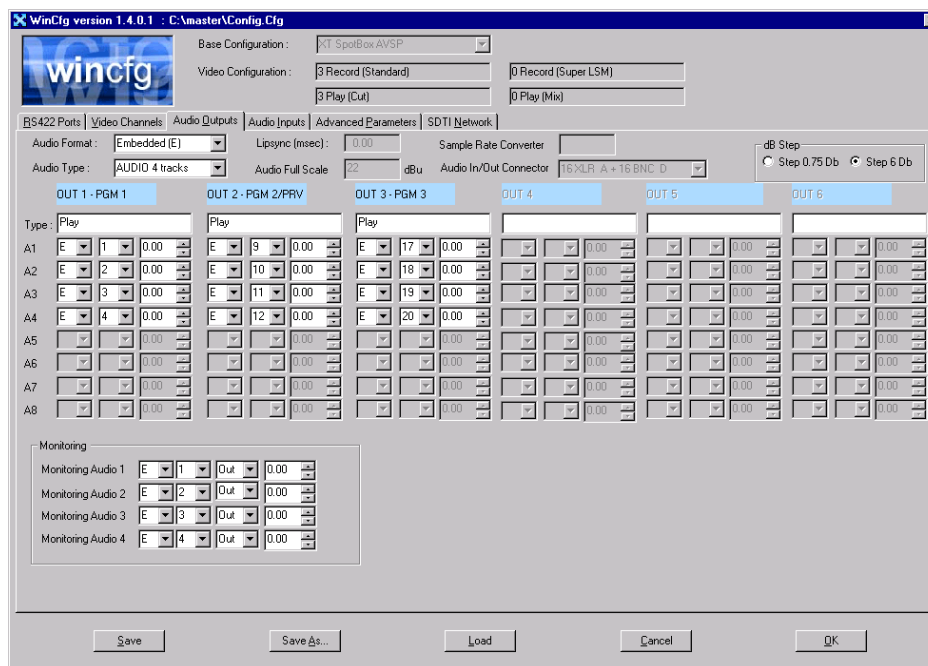
Channels Configuration (“Change” button): Click on the “Change” button to call the list of available configurations for your Air Box and XT Series Server. Depending on the number of video channels available on the XT Series Server controlled by the Air Box, different windows can appear:

For example, for a 6-channel XT Series Server:

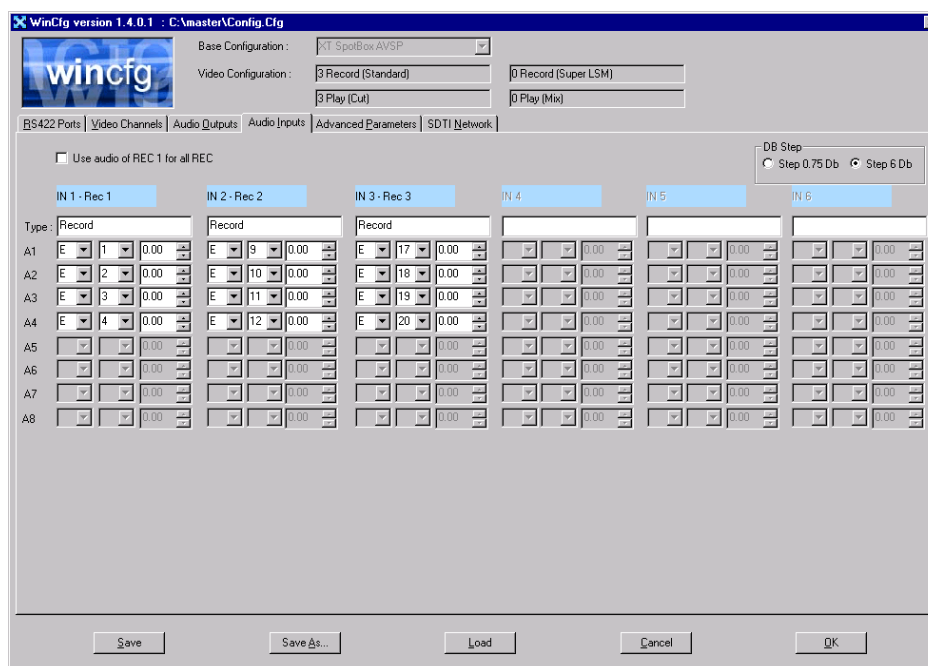


Transition effects (Dissolve, Wipes) require 2 video channels linked to form one “Play Mix” channel. Note that MultiAudio mode (2 stereo audio tracks per video channel) is not available in this version 02.00.50.

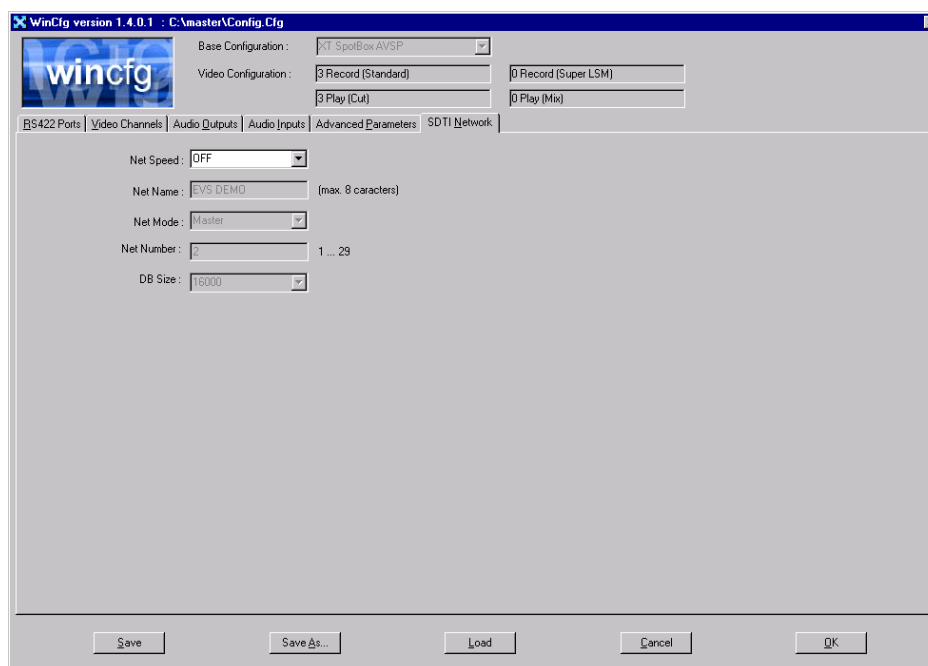
Audio Outputs : Displays the current assignment of audio output channels of the XT Series Server.



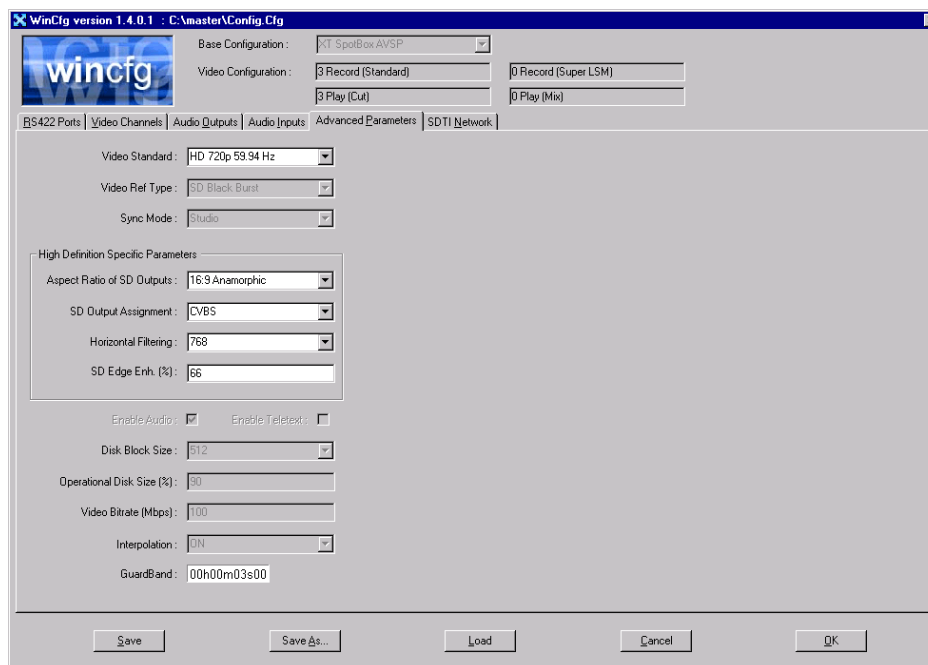
Audio Inputs : Displays the current assignment of the audio input channels of the XT Series Server.



SDTI Network : To define the parameters of the XNet SDTI Network.



Advanced Parameters : to configure the Guardband (duration of material beyond the IN and OUT point that will be automatically protected when creating a clip) and other video format and hardware configuration parameters.



It is advisable to Save the configuration when switching the number of channels specially because of the audio monitoring.

- **AirBox configuration**

The AirBox configuration item opens the following dialog box and allows you to define default settings for your AirBox application:



The image shows a 'Master Configuration' dialog box with a blue title bar and a close button. It contains various settings for the AirBox application. The settings are as follows:

- In Effect Duration Default:** 03s00
- Transition Duration Default:** 04s05
- ☒ Show 'Parameters Clip Edition' Dialog
- ☒ Show Edition player at Start-up
- ☒ Clip Create Simultaneously
- ☐ Default In Point: 00:00:00:00
- ☐ Play On Double-click
- ☐ Double-click disabled when Playing
- ☒ OSD Playlist
- ☒ Show LsmID on OSD
- ☐ Delete Clip On Database Event
- ☒ Delete Clip from Database Default
- Fast Jog:** 4 (1X..10X)
- ☒ Insert new clip in first position
- ☐ Autoedit select ID window
- ☐ GPI Cmd In Triggered on \

At the bottom, there are 'OK' and 'Cancel' buttons.

The In Effect Duration Default field defines the default duration of effects (Dissolve or Wipe) into a playlist.

The Transition Duration Default field defines the default duration of an effect defined in Start Mode. These parameters can be modified for each clip after it has been inserted in the playlist.

Show "Parameters Clip Edition" Dialog option displays/hides the parameters dialog box appearing after each clip creation. Note that this window never appears when the "Clip Create Simultaneously" is active (this option is described a few lines below).

Show Edition player at start-up displays/hides. The editing channel only remains active for clip edition.

Clip Create Simultaneously: when this option is enabled, clips will automatically be created simultaneously on all record channels. When this option is disabled, the clip is created on the selected record channel only.

Default In Point hh:mm:ss:fr enables or disables a default time code value for the in point for all clips when they are created.

Play on double click allows you to start the playback of the playlist by double clicking on a clip in the playlist window. The playlist will start from that clip. If this option is disabled, the clip will be preloaded but the playback does not start automatically.

Double-click disabled in Play mode: when this option is checked, double clicking on a clip inside a playlist when the playlist is playing will not stop the playlist to load the selected clip.

OSD Playlist when this option is checked, the name of the previous, current and the next 2 clips of the playlist will appear on the OSD.

Delete Clip On Database Event : when this option is checked, it automatically removes a clip from the AirEdit database when it is deleted from the server by another user. If this option is not checked, then a popup window appears to ask the operator whether or not he wants to keep this clip in the database even though it is not longer available on the XT Series Server.

Delete Clip from Database Default : if "Delete Clip On Database Event" is not selected, when a clip is deleted from the server by another user, a popup window appears to ask the operator whether or not he wants to keep this clip in the AirEdit database. If the "Delete Clip from Database Default" is checked, the the default choice in this window is to delete it from the database. If this option is not checked, the default choice in this window is to keep it in the database.

Fast Jog option allows you to set the speed of the Fast Jog function on the remote panel.

Insert new clip in fist position : if this option is selected, a new clip will be inserted in top position in the clip database. If this option is not selected, the position of a new clip in the clip database will be defined by the current sorting criteria.

Autoedit select ID window : if this option is selected, when creating a clip with VTR control, a popup window appears to allow the operator to define a name for the clip to be created. If this option is not selected, no popup window appears and the clip name is automatically generated.

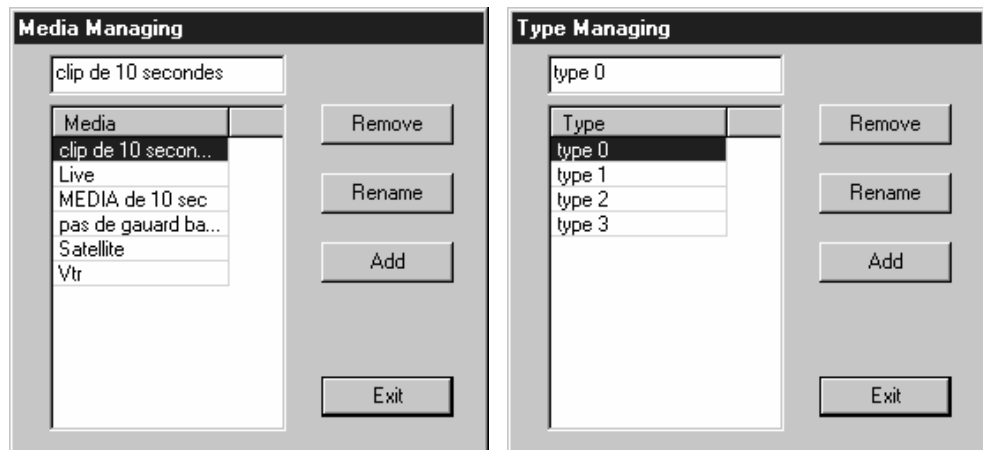
GPI Cmd In triggered on \ : when this option is checked, the NEXT command linked to the reception of a GPI signal by the AirBox will actually be performed when the GPI level goes from high to low. If it is not checked, the NEXT command will be performed when the GPI signal changes from low to high.

- **Configuration**

Not used in AirBox mode

- **Category**

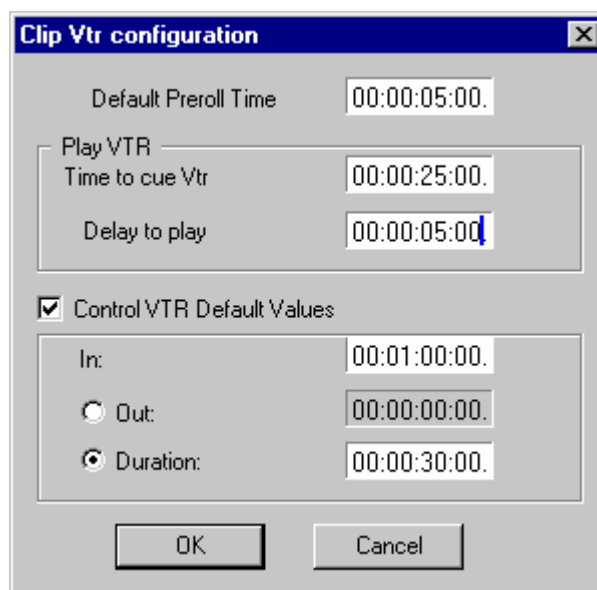
This item gives you access to the Media and Type management. These two key parameters are useful to organize, sort and find clips in the database.



- **Clip VTR Configuration**

The Clip VTR option allows you to play back a video clip from a VTR and insert it inside a playlist. That way you can combine clips from the XT Series Server and clips from tape inside the playlist.

Selecting the Clip VTR Configuration item opens the following dialog box:



Default Preroll Time: The Preroll command is sent to the VTR via the RS422 connection. Default: 10 seconds

Time to cue VTR: minimal duration to cue the VTR. Default 25

seconds

Delay to Play: defines the delay between the input and output channels of the server for a "Clip VTR". Default: 5 seconds

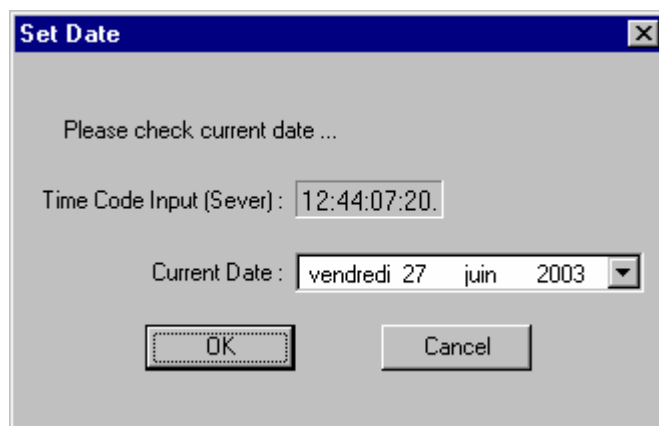
Control VTR Default Values: If this option is selected, the values for In, Out and Duration are used as default value to populate the corresponding fields in the VTR control window.

- **Redundancy**

This function is not yet available.

- **Set Date**

This item allows you to set date of the Air Box application at start up.



The **On Air Time** is always displayed with the date in the Menu bar in the top right corner of the VGA:

23h34m34s, 21 février 2000

- **Clear TC Table**

This item allows emptying the TC table files when it is full. In that case, the message **TC!** is showed on the OSD. This problem happens when the Time Code source is not referenced to the same signal used for the Video Server reference (Black Burst).

The Help menu opens the software information window. This window provides information about the software version of the Air Box application and about the compatibility with the version of the Multicam software that must be installed on the XT Series Server.

Chapter 3 – Software management

The Recorders



The recorder is represented by a Record button and the Record time, the duration already recorded and a lock/unlock record button. To start and to stop the record, press the Record button.

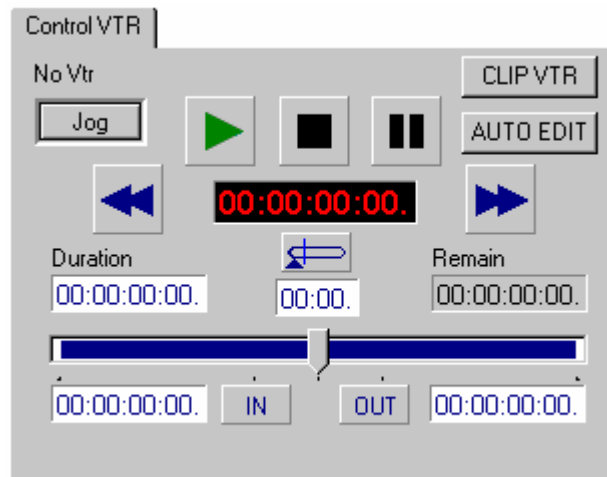
If no TimeCode reference is entered to the XT Series Server, then the internal PC clock of the XT Series Server is used as a reference.

Select the corresponding tab to view the desired record channel. Selecting 'All' displays all recorders.

The VTR control panel and Recorder List are accessible from each recorder tab. The standard functions needed to control a VTR are available here: Play, Stop, Still (pause), Rewind and Fast Forward, Preroll and its duration. The scrolling bar allows you to search the tape in Jog mode or in Shuttle mode. The current status of the VTR is continually sent back to the AirBox for better control. The status field indicates what the VTR is doing with a tape sequence (Idle, Playing, Rewinding...).

Important note: the TC of the VTR is sent to the Air Box through the RS422 connection between the VTR and the Air Box PC. Do NOT connect the LTC output of the VTR to the LTC input of the XT Series Server. The LTC input of the XT Series Server must only be used to lock the server to the station's timecode reference.

Right click on the "Control VTR" tab to select the VTR you want to control.



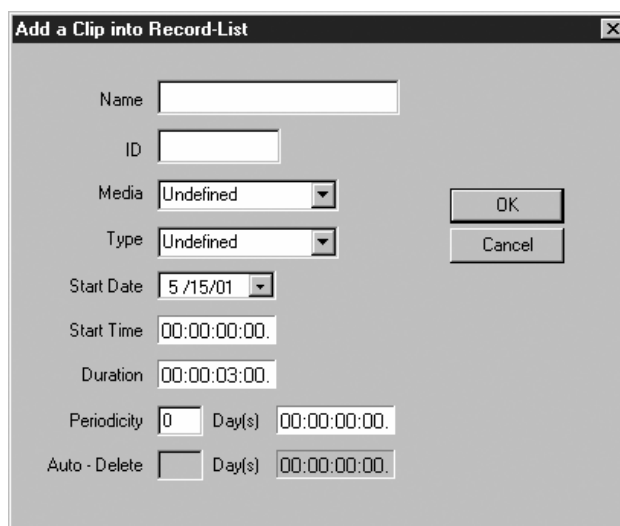
When IN and OUT points are defined, the Auto Edit button starts the playback of the VTR (from the IN point to the OUT point, taking into account the preroll duration) and the record of the XT Series Server at the same time.

The Clip VTR option allows you to blend sequences from disks and sequences from tapes into a same playlist. It creates a virtual clip (entry) into the database. This new Clip VTR has the same parameters (ID, Name, Type, Duration...) as clips coming from the disks and can be easily found in the database, and can be inserted in any playlists.

The Recorder List module is an automatic hands-free recorder. Sequences of recordings can be scheduled in advance.

RecorderList								
#	Name	In	Duration	Date	Frequency	Status	Comment	
0	TESTVTR	00:20:15:00	00:20:55:00	Wednesda...	(0)00:00:0...	To Do		
1	NEWS	00:14:50:00	00:15:50:00	Thursday, ...	(10)00:00:...	To Do		
2	LATENIGH	00:03:00:00	00:05:03:00	Friday, Jun...	(5)00:00:0...	To Do		

To create a new event (clip), press the New button. The following dialog box appears to enter the parameters:



The screenshot shows a dialog box titled "Add a Clip into Record-List" with a close button (X) in the top right corner. The dialog contains several input fields and two buttons. The fields are: "Name" (text box), "ID" (text box), "Media" (dropdown menu showing "Undefined"), "Type" (dropdown menu showing "Undefined"), "Start Date" (calendar icon showing "5 /15/01"), "Start Time" (time field showing "00:00:00:00."), "Duration" (time field showing "00:00:03:00."), "Periodicity" (spin box showing "0" followed by "Day(s)" and a time field showing "00:00:00:00."), and "Auto - Delete" (checkbox followed by "Day(s)" and a time field showing "00:00:00:00."). The "OK" and "Cancel" buttons are located on the right side of the dialog.

Parameters as Name, ID, Media, and Type are standard parameters to identify the new clip into the clips database.

Start Date, Start Time and duration are mandatory parameters to schedule a record sequence.

Periodicity/AutoDelete

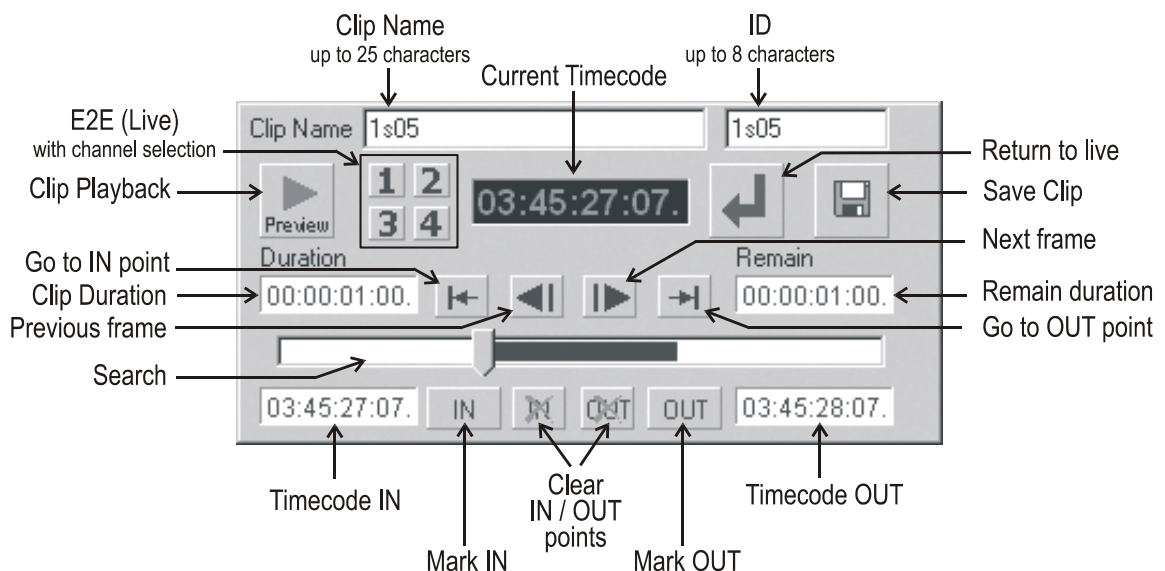
This function allows to record a live show every day and to re-broadcast it using the periodicity/autodelete parameters.

For example: The Weather Forecast recorded every day at a fixed-hour is re-broadcasted several times during the following hours. The day after, the new Weather Forecast is recorded and the old one is deleted, and so forth.

The Periodicity parameter defines the time (days, hours, minutes, seconds, frames) of the next recording. The AutoDelete parameter defines the time to automatically delete an old clip. Note that the AutoDelete of the "old" clip must be completed at least 3 seconds before the "new" clip is created according to the Periodicity parameters, otherwise an error message will warn the user.

The Clip Edition

The clip edition module is used to browse the recorded material and to create clips from this material.



The Current TimeCode field allows you to enter a defined TimeCode Reference and go to this TimeCode reference: Enter a new TimeCode position in the TimeCode field and press Enter to validate.

The IN, OUT and Duration fields are also editable and allows to enter a defined IN, OUT point or a defined duration.

Creating a clip

Press the corresponding LIVE button (1, 2, 3 or 4) to visualize the desired record channel.

Browse to the desired IN/OUT points, press the IN/OUT button to mark the first/last frame of the clip; this can be done "on the fly" or by accurately positioning the material with the scrolling bar (or with

the jog knob of remote). To clear an IN/OUT point, press the CLEAR IN/CLEAR OUT button.

When the IN and OUT points of the clip have been marked, press the Save Clip button to display the Clip Edition dialog box.

Important Note: *The number of characters for the clip name must not exceed 24 characters. In order to comply with the XT Series Server operating system, ID name (up to 8 characters) has been automatically linked to the Clip Name at the time of the creation of this one.*

The 'Edit Clip Parameters' dialog box is shown. It contains the following fields and controls:

- Name:** Text box containing 'Clip 1' with '(max. 24)' next to it.
- ID:** Text box containing 'Clip 1'.
- In:** Time code field containing '02:50:00:00'.
- Out:** Time code field containing '02:55:30:00'.
- Type:** Dropdown menu showing 'Foot'.
- Media:** Dropdown menu (empty).
- Duration:** Time code field containing '00:05:30:00'.
- Date:** Calendar field showing 'Sunday, March 05, 2'.
- Comment:** Large text area (empty).
- Rating:** Dropdown menu showing '**'.
- Archive Status:** Text label 'Not Archived'.
- Keywords:** A button labeled 'Keywords'.
- Keywords List:** A list box containing 'action_1', 'player_A1', and 'player_B1'.
- Archive Actions:** Three buttons: 'Send To Archive', 'Cancel Archive', and 'Reset Archive'.
- Save/Cancel:** Two buttons at the bottom: 'Save' and 'Cancel'.
- Filters:** A list box on the right titled 'send to bin(s)' containing 'Filter1', 'Filter2', 'Filter3', 'Filter4', 'Filter5', 'Filter6', and 'Filter7'.

Media, type, creation date, clip category, or various comments can be added to the clip for information. We can also add some default keywords previously imported into the server. Each file (.kwd) contains up to 200 keywords and we can assign a maximum of 3 keywords for each clip. The Rating is so to set a priority level to a clip (from 0 to 3 stars).

If we want a particular clip to go to a specific location (folder), we can also do so by choosing the name of that folder in this window (i.e: NAT for national). Bin rules are also available so that the clips made from one feed will go to the desire folder.

Press the SAVE button to enter the new clip into the Clips Database.

Media and type can be modified in the menu Tools/Category.

In the Master Configuration menu, it is possible to disable the automatic display of the Clip Edition dialog box. In this case, the clip is immediately save when clicking the SAVE button.

The Clips Database

The list of existing clips appears at the bottom of the screen in the database area with the information/attributes assigned to each clip. The attributes and clips are not permanent and can be modified.

Clicking on the title of a column re-organizes the list display (for example: clicking on Clip Name title or on one of the Keywords will sort the whole list in alphabetical order, clicking on the In title sort the clips according to the timecode of their IN point).

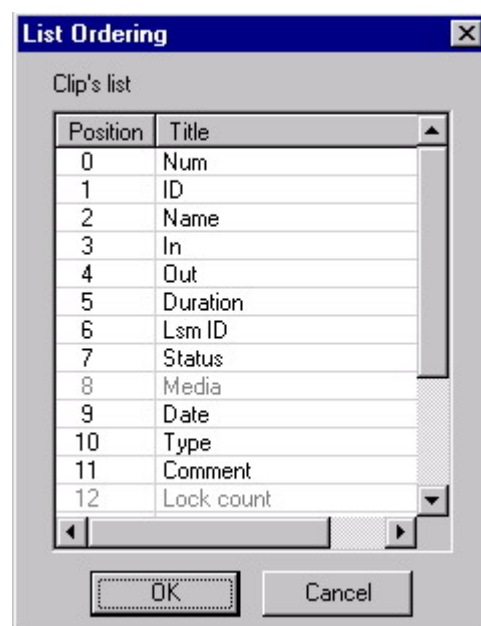


Status	Clip Name	Duration	In	Out	Date
●	Noname01	00:00:05:00	17:26:52:02	17:26:57:02	Fri, 07 Jul 2000
●	Noname02	00:00:05:00	17:27:58:11	17:28:03:11	Mon, 10 Jul 2000
●	Noname03	00:00:05:00	17:28:19:23	17:28:24:23	Fri, 07 Jul 2000
●	Noname04	00:00:05:00	17:28:39:08	17:28:44:08	Fri, 07 Jul 2000
●	Noname05	00:00:05:00	17:28:44:08	17:28:49:08	Fri, 07 Jul 2000

Filter bar: Rst Flt | ok | guard | bad | 4 | 5 | 6 | 7 | 10 sec | ☐ And

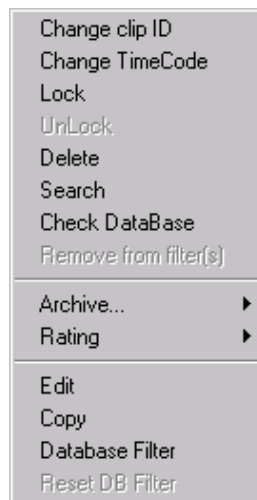
The **Status** column displays the current status for each clip: green sign means that the clip is present on the XT Series Server and into the clips database on the Air Box PC. A red sign means that data or a clip on the XT Series Server is missing for playback.

The operator can hide, show and re-order selected columns. Right-click into the title bar of the database to open the List ordering window:



A drag and drop facility allows you to move the fields and to re-order them as desired. Double-click on a field to hide/show the corresponding column in the database. A column is hidden when its name is grey in the List Ordering window.

Inside the clip database area, right-clicking on a clip will call the option pop-up menu:



The **Change clip ID** item allows changing the ID of the current clip.

The **Change TimeCode** item allows to re-define the timecode of the IN point of a clip. The timecode of the entire clip will be re-calculated accordingly, so that it remains continuous.

The **Lock/UnLock** item locks/unlocks the selected clip. This means that this clip can no be removed from the Database and modifications (name, IN and OUT points...) are not authorized. A padlock symbol is displayed in the status field.

The **Delete** item deletes the selected clip(s) from the database.

The **Search** function allows you to search for a clip in all databases

The **Check DataBase** item checks the validity of the database contents (Sequence-fields in the.mdb file). In order to check the validity of the video sources, the Check DataBase function compares the clips recorded on the disks of the XT Series Server and the clips listed in the database of the Air Box PC. The two lists must be identical to be valid. It is recommended to proceed with this checking process on a regular basis to identify/remove unavailable clips from the database. Indeed, when deleting clips from the server, the operator can select to keep the reference to these clips inside the database.

When selecting this option, the following window appears:

The 'Check DB' window displays the following information:

- Database Master's total clips : 112
- Total SDTI:
 - Valid Clips : 98
 - Warning Clips : 0
 - Not available : 7
- Local:

	Local	Backup
Number of clips :	7	
Valid Clips :	7	
Warning Clips :		
Not available :	0	
- Table:

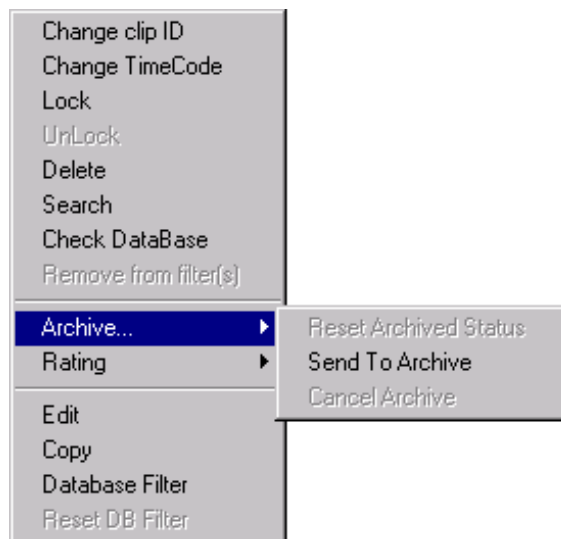
Name	Number	Status	Clips
10	10	Checked	6 Clip(s)
master	2	Checked	87 Clip(s)
- Action : Checked
- Buttons: Check All, Check Local, Exit, Clear Unavailable

The following buttons are available at the bottom of the window:

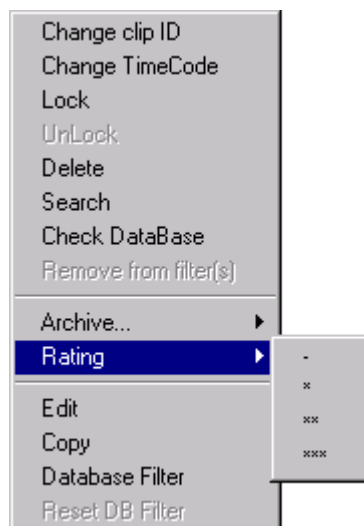
- Check all: check all servers present on the SDTI network.
- Check required: check only the required servers. When a new server appears on the network, a database check must be performed before using its clips.
- Check Local: check only the local server. The local server is the one directly connected to the Air Box PC through the RS422 connection.
- Clear Unavailable: allows the operator to clear the clips marked 'unavailable'
- Stop: stop the database check process.
- Exit: exit the database check window

Important note: The facilities for network functions (i.e. copying or moving a clip from one XT Series server to another) are not yet available in version 3.04.07. However it is possible to make a local copy of a network clip by loading the network clip and saving it again as a local clip.

The **Archive** item sets the archiving status for the selected clip(s) to export them to an EVS XFile or XStore system.



The **Rating** items is used to change the rating of the selected clip(s). Rating can be – (none) or 1, 2 or 3 stars.



The **Edit** item opens the clip parameters dialog box for modification.

The **Copy** item copies the selected clip(s) to the clipboard in order to paste it (them) later in a playlist. Several clips can be selected by holding the SHIFT key when clicking.

Filters

In the clips database, filters are available to refine the selection. It is possible to associate a clip to various filters, and then use these filters to sort the database and quickly locate the desired clips.



To view the entire database without applying any filter, click on the Rst Flt button ("Reset Filters")

To associate a clip to a filter, drag&drop this clip to the desired filter button. The clip is not duplicated, it is only associated to the corresponding filter inside the database. So you can create filters for Sports, Jingles, and Ads ...

Each filter button can be renamed: right-click on the filter button to rename, and select the Rename option. A dialog box appears where the new name of the filter can be typed.

To view only the clips associated to a filter, click on the corresponding filter button.

The AND checkbox:

If the AND checkbox is unchecked, the database area displays the sum of all clips contained in each of the filters currently applied.

Example: If Clip0001 is associated to filter 1, it will be displayed when viewing the database even when filter 1 and filter 2 are applied simultaneously.

While the AND box is checked, the database field displays a cross-selection of clips contained in the selected filters. (i.e. clips present in filter 1 AND filter 2).

Example: If Clip0002 is associated to filter 1 and filter 2, it will be displayed when viewing the database with filter 1 and filter 2 applied. If Clip0002 is associated to filter 1 but not to filter 2, it will not be displayed.

Keywords

1	2	3	4	5
<i>action_1</i>	<i>player_A1</i>	<i>player_B1</i>		
action_2	player_A2	player_B2		
action_3	player_A3	player_B3		
action_4	player_A4	player_B4		
action_5	player_A5	player_B5		
action_6	player_A6	player_B6		
action_7	player_A7	player_B7		
action_8	player_A8	player_B8		
action_9	player_A9	player_B9		
action_10	player_A10	player_B10		
action_11	player_A11	player_B11		
action_12	player_A12	player_B12		
action_13	player_A13	player_B13		
action_14	player_A14	player_B14		
action_15	player_A15	player_B15		
action_16	player_A16	player_B16		
action_17	player_A17	player_B17		
action_18	player_A18	player_B18		
action_19	player_A19	player_B19		
action_20	player_A20	player_B20		

Keyword 1 Keyword 2 Keyword 3

action_1 player_A1 player_B1

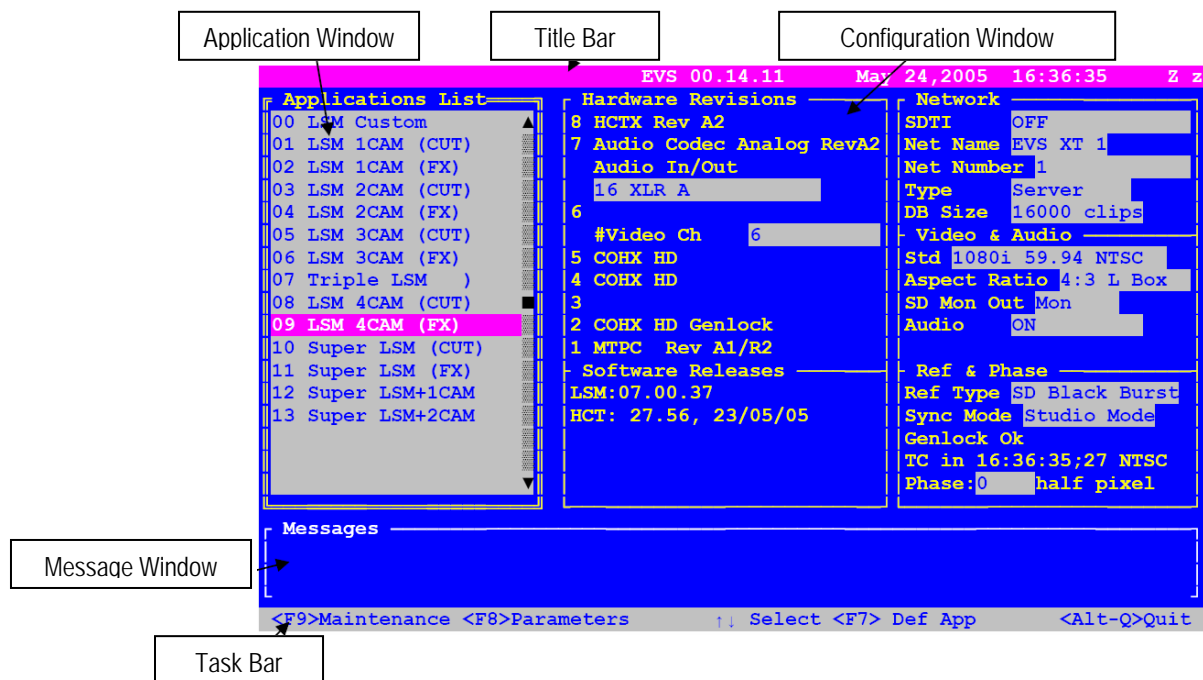
OK Cancel

To import the keywords into the system, we first need to create a document with the .kwd extension that will look like the example shown below.

1=R.Madrid
2=Luxemburgo
3=Raul
4=Zidanne
.....

Leave empty spaces to organize the grid. We then save the file into a disk or a USB memory pen that later we will insert into the XT. Before running the Multicam, we go to the Advanced Parameters (F9) in the EVS Maintenance Menu and choosing the option: import/export keywords.

Video server window:



Start the application and then press SHIFT + F2 to open the following window:



Then select the keyword file to use from the clip management area.

For more information regarding the settings of the video server, please refer to Technical reference manual.

Database Filter

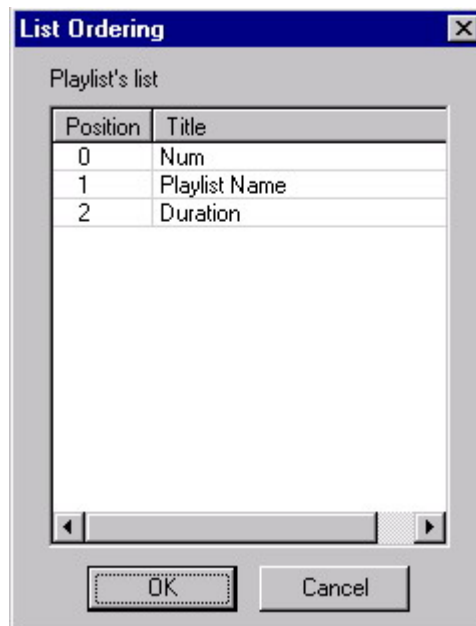
Using the Database Filter allows us to search media by their position on the XT's and, their camera angle, the different keywords already associated to the clips, the rating, TC, or even by a date interval in one or more Servers of the XNet.

The Playlist Database

Num	Playlist Name	Duration	Comment
63	verndredi 07/07/...	00:00:00:00	
64	mix samedi 08	00:00:00:00	
67	mix lundi 10	00:00:00:00	
65	cut 04 samedi 08	00:00:00:00	
68	cut 04 lundi 10	00:00:00:00	
66	cut 03 samedi 08	00:00:00:00	
69	cut 03 lundi 10	00:00:00:00	

Note: The playlist duration is displayed when its duration (clips duration + transition effects) can be calculated. If one parameter (GPI, Break, Loop...) makes the exact calculation impossible, the playlist duration is nil.

The attributes of playlists can be re-organized. The operator can hide, show and re-order selected columns. Right-click in the title bar of the database to order the columns.



This window works similarly to the List ordering window for Clips, already described in this manual.

In the Playlist Database area, right-click on a playlist to call the playlist contextual menu.



The **New** item opens a new playlist 01 in a player module. If no channel is available, the system will warn the user.

The **Duplicate** item copies the selected playlist with the automatic naming: playlist_name-copy. A dialog box opens to change the playlist name.

The **Delete** item removes the selected playlist(s) from the database. Multiple selections can be performed by holding the Shift key while clicking.

The **Rename** item renames the selected playlist.

The **Refresh** item forces the playlist database to be refreshed.

The Players

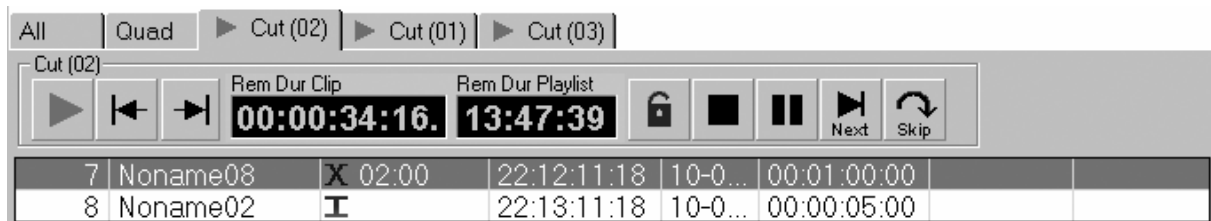


PLAY MIX: player channel with transition effects (cut, mix or wipe). This "dual" channel requires 2 video player channels. Only one PLAY MIX channel is available per configuration.

PLAY CUT 1, 2, 3, 4: up to 4 player channels available. The PLAY CUT channel plays back a playlist with only cut effects between clips (no mix or wipe).

Each player is divided into 3 modules: the Playout area, the Broadcast List area, and the Edition module.

Playout Area



This area displays the clip On Air and the next clip loaded. The PLAY, GOTO IN, GOTO OUT, LOCK, STOP, PAUSE, NEXT, SKIP buttons affect the loaded playlist.

The PLAY button starts the playback of the clip currently preloaded on the play channel.

The GOTO IN / GOTO OUT buttons allow jumping directly to the IN / OUT point of the current clip.

Useful tip: when previewing the playlist, you can recue to the IN point of the clip currently playing by clicking on the GOTO IN button.

The LOCK button disables the controls over the current playlist to secure the playback and avoid that an accidental click disturbs the playlist while on air, for example.

The STOP button stops the playlist and set the channel in idle mode.

The PAUSE button freezes the play of the playlist on the current picture.

The NEXT button allows you to force immediately the transition to the next item in the playlist

The SKIP button allows you to skip the next clip due to playback. For example, if you click on the SKIP button while playing the 3rd clip of a playlist, the next clip to play will be the 5th one instead of the 4th one.

To load a playlist to the playout area,

- Either select the desired playlist and drag&drop the playlist into the diffusion field
- Or double-click on the playlist/clip you want to load in the diffusion area.

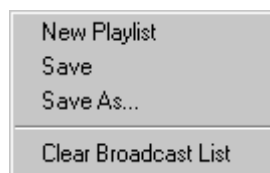
The Broadcast List Area

Playlist Name		Date	Time IN	Time OUT	Duration	Time Code			
PlayList1		lundi 23 juin 2003			
#	Effect	Mode	Name	On Air Time	Duration	ID	ID LSM	Date	Event
1	I		Clip0008	00:00:00:00	00:00:03:21(100%)	Clip0008	610D	23/06/03	
2	X 01:0		Clip0006	00:00:02:21	00:00:15:18(100%)	Clip0006	610B	23/06/03	
3	I		Clip0007	00:00:18:09	00:00:06:24(100%)	Clip0007	610C	23/06/03	
4	I		Clip0008	12:09:00:02	00:00:03:21(100%)	Clip0008	610D	24/06/03	
5	I		Clip0009	12:09:03:23	00:00:01:16(100%)	Clip0009	610E	24/06/03	
6	I		Clip0010	12:09:05:09	00:00:03:20(100%)	Clip0010	610F	24/06/03	
7	X 01:0		Clip0011	12:09:07:29	00:00:02:29(100%)	Clip0011	611A	24/06/03	
8	I		Clip0012	12:09:10:28	00:00:05:08(100%)	Clip0012	611B	24/06/03	
9	X 04:0		Clip0010	00:00:00:00	00:00:03:20(100%)	Clip0010	610F	23/06/03	
10	I		Clip0007	00:00:03:20	00:00:06:24(100%)	Clip0007	610C	23/06/03	

The name of current playlist is displayed in the first field in the top left corner of this area.

Creating a playlist

Right-click in the Playlist Name field and select the New Playlist option from the pop-up menu:



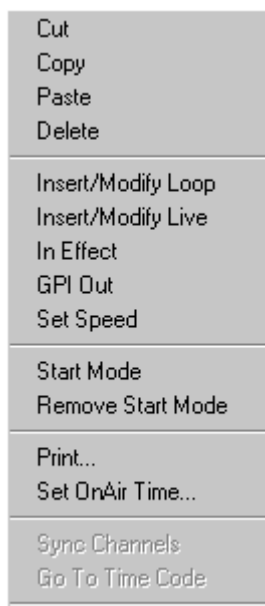
Or drag & drop a clip from the clips database to the clip field: a new playlist is automatically created. (To proceed as described, the playlist field must be empty, use the Clear Broadcast List item to remove the playlist from this area.)

Add other clips with drag&drop facility or use the copy/paste functions.

The SAVE option saves the new playlist into the playlist database.

Note that a playlist is not saved until this function has been called.

In the broadcast list, type of effect, duration of the effect, start mode and on air time can be defined. Right-clicking on a clip in the broadcast list will display the following pop-up menu to give you access to different options:



CUT: remove the selected clip(s) from the broadcast list and store it in the clipboard of the application.

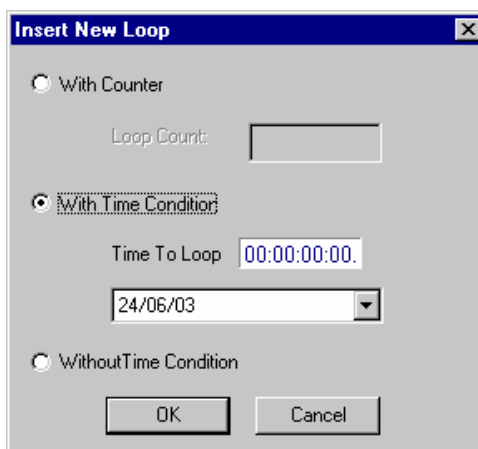
COPY: store the selected clip(s) in the clipboard of the application.

PASTE: insert the clip(s) previously stored in the clipboard of the application in the broadcast list at the current position.

DELETE: remove the selected clip(s) from the broadcast list.

Insert / Modify Loop

The INSERT/MODIFY item inserts a LOOP into the playlist.



With counter: Enter the number of times the section of the playlist inside the loop will playback before exiting the loop and continuing the rest of the playlist.

With Time condition: the number of loop is unknown but the deadline is known. Enter the Time and/or the date. When this time and date is reached while playing, the playlist will automatically exit the loop and continue the playback of the rest of the playlist.

Without Time condition: The playlist will loop indefinitely until manually stopped or forced to chain to the next clip after the loop inside the playlist.

Press ENTER to validate the selection. In the broadcast list area two LOOP lines (Start and End of the loop) appear. Drag & drop the Start Loop/End Loop lines to the desired positions. A playlist can include more than one loop but a loop sequence can not be included into another loop sequence.

Insert / Modify Live

"Live" sequence can be included in the playlist, but there is a minimum delay of 3 seconds between the pictures recorded at the input of the XT Series Server, and the moment the server is able to playback this picture. This delay can be increased by the operator if required. When inserting a "Live Clip" inside a playlist, the following parameters must be defined:

IN point:

Train: select the record channel on which the live feed is being recorded

Delay: define the delay to apply between the record and the playback of the "live clip"

TC In: instead of a delay, the operator can specify the time code of the picture to use as the IN point of the "live clip".

OUT point:

None: no OUT point is specified. The "live clip" will play until the operator or a JUMP start mode force the transition to the next item in the playlist.

Duration: the "live clip" will play for the specified duration

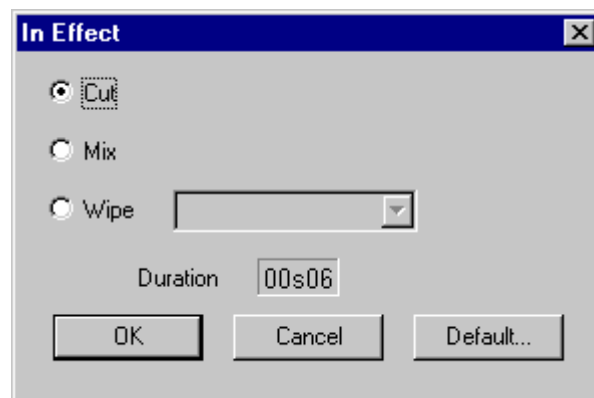
TC Out: the "live clip" will play to the picture corresponding to the TC Out defined by the operator

Start Mode

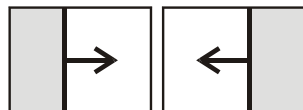
The parameters linked to the Start Mode are similar to those explained in the specific Start Mode paragraph.

IN Effect

The IN EFFECT item opens a dialog box in order to define a start effect to the current clip.



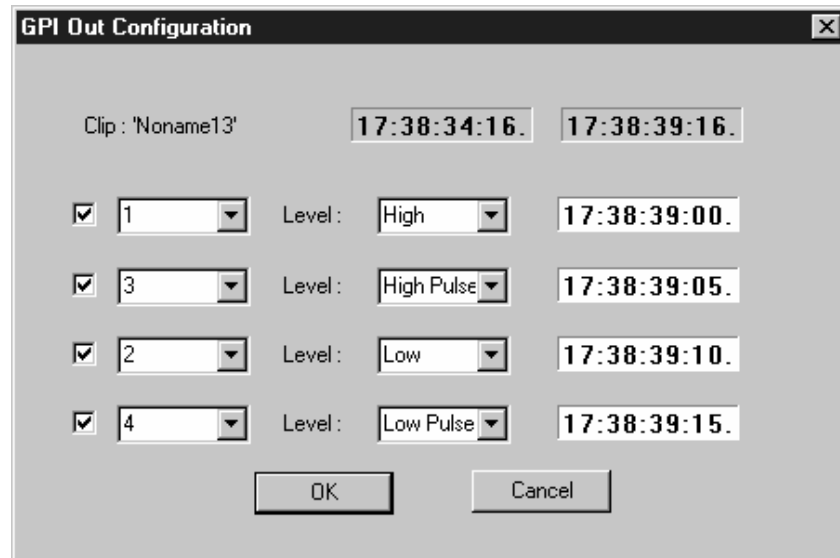
Three different effects are available: CUT, MIX, and WIPE. The Wipe effects available with your system are represented by the following icons:



When selecting a Mix or Wipe effect, the Air Box automatically proposes the duration defined as the default duration for Mix and Wipe effects in the configuration window (Tools Menu), but the duration of the effect can be modified for each clip. The operator can also assign as new default settings the effect type and duration currently displayed in the IN Effect window by clicking on the DEFAULT..." button.

GPI controls

The GPI out allow you to send GPI commands to peripheral equipment (Logo inserter, Switcher...). Up to 4 GPI commands are available per clip.



The TC IN and OUT for the selected clip is displayed in this window. Select the GPI associated to your peripheral equipment and the GPI level (high, high pulse, low, low pulse) and then select the TimeCode reference at which the GPI command must be sent.

Set Speed



The set speed item allows you to set speed of a clip (from 1% to 300%)

Start Mode

Inside a playlist, clips can be chained automatically (the next clip starts when the current clip ends), but it is also possible to freeze on the last or first field of a clip and wait for a particular action or time before resuming the playback.

The available STILL MODES are:

None: the next clip starts automatically when the current one ends. In this mode, the START TYPE area of the window is not available.

Jump: force the play back of a clip at a defined time even if a loop or another clip is playing. This option is useful to go out of a loop program or for playing back clock jingles at fixed-hour, for example.

Still first frame of the current clip: when the on-air clip ends, the Air Box will pause on the first frame on the next one

Still last frame of the previous clip: when the on-air clip ends, the Air Box will pause on the last frame of that clip

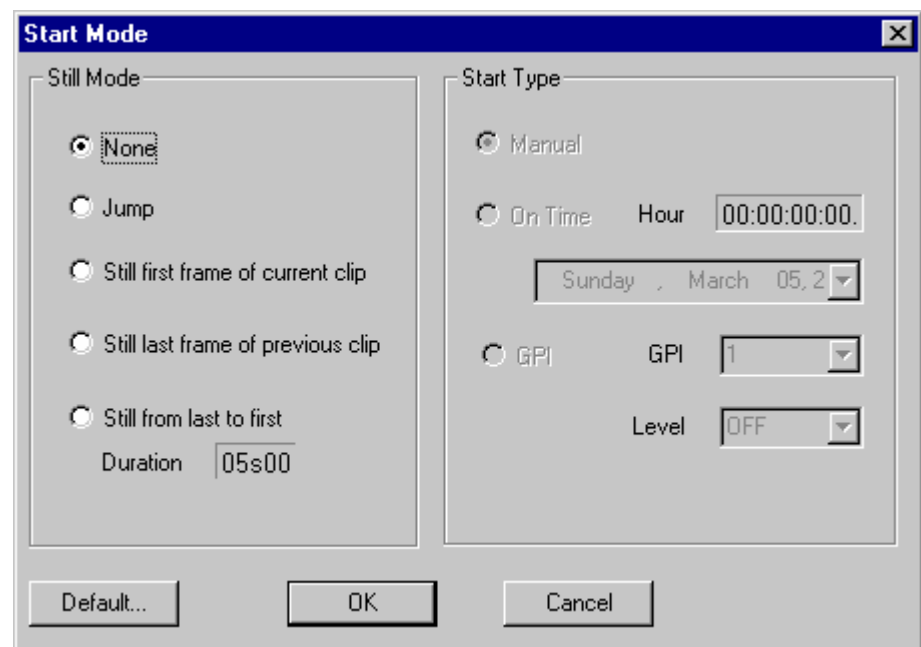
Still from last to first (with a defined duration): when the on-air clip ends, the Air Box will pause on the last frame of that clip for the set duration, then will chain to the first frame of the next clip and pause.

The START TYPE allows you to define how a clip should be started inside the playlist:

Manual: the operator has to click on the play button or press the play key on the remote to start the playback of the clip

On Time (with time and date): the clip will automatically start at the set time and date. Note that the reference for this command is the time code input of the XT Series Server.

GPI: the clip will start when the corresponding GPI is received by the XT Series Server.



The DEFAULT button saves the new parameters as default. Every time a clip is inserted inside a playlist, these default values will be used to define the Still Mode and Start Type of the transition between the new clip and the previous one.

After the playlist creation, save the current playlist (right click on the Playlist Name field and select the SAVE option) to enter the new playlist in the Playlist database.

Note: Changing time in 'Jump' mode is not allowed while a playlist is loaded or in play mode.

Print

The print option allows you to print the selected playlist.

Set On-Air Time

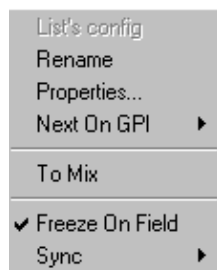
The Set On-Air Time option allows you to set an On-Air time and date for the current playlist, in order to simulate the schedule of the playlist as if started at this date and time. Note that this parameter is only used to simulate the schedule while building the playlist, but is not used to actually trigger the playback of the playlist.

Goto Timecode

The Goto Time code option allows you to jump to the corresponding time code inside the current element of the playlist.

Player Options

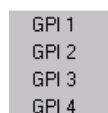
A right click on the player name (ie:Cut(03)) and the following popup appears:



Rename: This item allows renaming the Player. This name is also showed on the OSD.

Properties: This item allows selecting the remote dedicated to the current player.

Next On GPI: This item allows to enable the GPI on the Next function. The following popup appears:

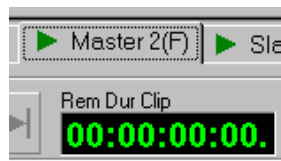


Select which GPI you want to affect on this player for the Next function. Only one GPI can be used per play channel. The GPI must be configured before in the MULTICAM Setup-up menu.

To Mix/to cut: This option allows to configuring the player as a Player Mix or a Player Cut. In Mix mode, 2 players are required.

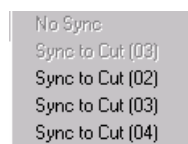
IMPORTANT: You must stop all the players to swap between the 2 modes.

Freeze On Field / Freeze On Frame : defines the video freeze mode. When "Freeze On Field" is selected, only 1 field is displayed when the player channel is in pause mode (clip preload, manual pause, start mode). When "Freeze On Frame" is selected, both fields are displayed when the player channel is in pause mode, resulting in a better resolution for still graphics. When a player channel is set in "Freeze On Frame" mode, a (F) appears next to its name in the tab. Left click on the "Freeze On Field" or "Freeze on Frame" option to switch from one mode to the other.



IMPORTANT: when several players are synchronized together, they must all use the same freeze mode. The freeze mode must be set individually for each channel.

Sync: This item allows synchronizing 2 or more channels together. The following popup appears:



Select the play channel that you want to synchronize, right click on the name of that channel inside the corresponding tab, select the "Sync To" option, then select which channel will be the "master" channel to synchronize to. Repeat this operation for every playback channel that you want to synchronize.

When several channels are synchronized, the following functions can be performed simultaneously on these channels: Play, Stop, Next, Skip.

To remove the synchronization on a channel, follow the same procedure but select "No Sync" instead of selecting a "master" channel.

Color Codes in the Broadcast List Area

The following screen shot give an explanation about the different colors used inside a playlist

Playlist Name	Date	Time IN	Time OUT	Duration	Time Code
Playlist001	Monday, June 09, 20	00:00:05:21	00:00:00:00

#	E.	Name	Duration
1		Loop In(3)	---
2	I		00:00:02:23(100%)
3		Loop To 1	00:00:02:23
4	I	INSERT LIVE	---(100%)
5	I	NOT AVAILABLE	00:00:01:00(100%)
6	I	RECORDER LIST RECORDING	00:00:01:00(100%)
7	I	RECORDER LIST PREROLL	00:00:01:00(100%)
8	I	ON AIR	00:00:02:23(100%)
→ 9	I	PREROLL	00:00:02:23(100%)

Pale green: start of a loop

Pale blue: end of a loop

White: normal clip

Light yellow: live insert

Red: clip not available (not present on disks)

Pink: the clip is inside a record list defined by the operator, and currently recording.

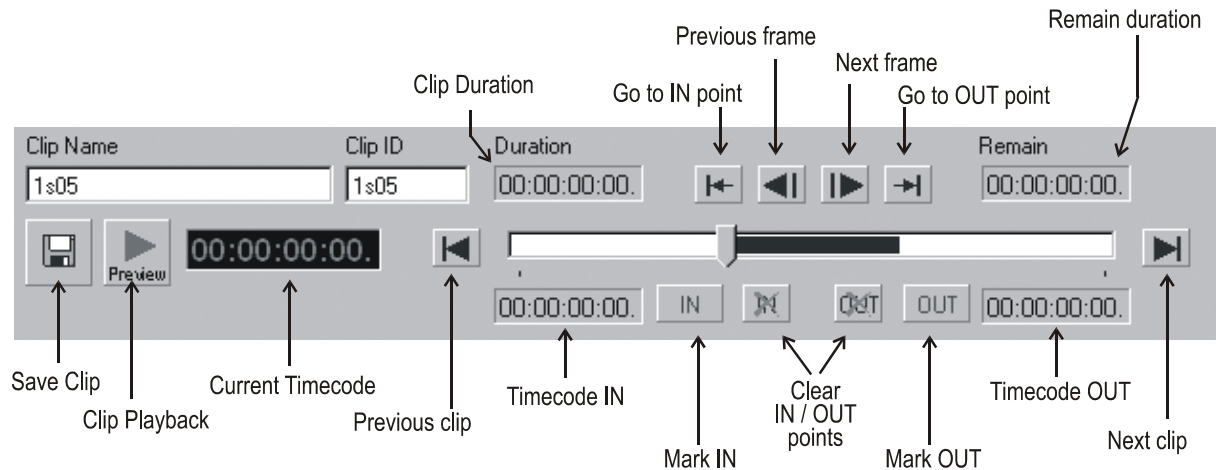
Orange: the clip is inside a record list defined by the operator, and the record channel is initializing to start the record.

Dark green: the clip is on-air

Green: the clip is preloaded and ready to chain.

The Edit Module of the Playlist

The Edition area allows you to modify the In and OUT points of a clip while a playlist is playing. Use the drag & drop functions to enter the selected clip into the edition module by dropping it inside the Clip Name field on the left side of this module.

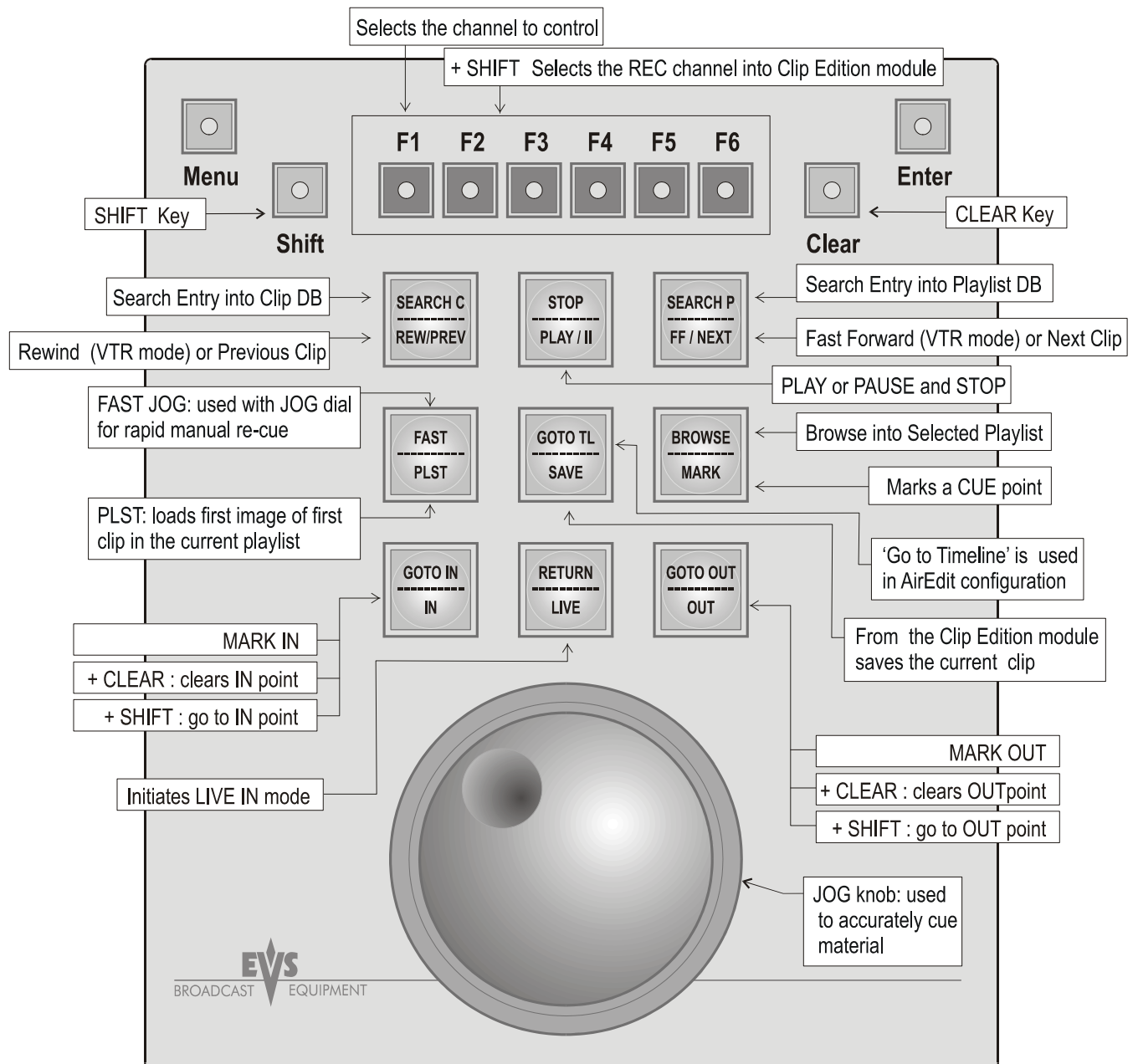


Use the different buttons to move inside the clip and mark new IN and/or OUT points as required. As soon as you press the Save button, the clip into the playlist is modified. The Airbox system will not take the modification into account if the clip is already loaded for playback.

The modification only affects the selected clip inside the current playlist. The original clip remains the same in the clips database.

Chapter 4 – Remote control panel

The remote control panel is designed to ease the Clip creation process and the VTR control.



Notes:

1. Search Entry into playlist DB is not available with this version.
2. Mark Cue Point is not available with Airbox application. For AirEdit only

Chapter 5 – Keyboard Short Cuts

Recorder.

CTRL + F1: record 1.
CTRL + F2: record 2.
CTRL + F3: record 3.
CTRL + F4: record 4.
Shift+R: Start / Stop records.

Control VTR.

ALT+V: select control VTR.
Space Bar: Pause.
<- ->: Search
Shift+<- ->: Search 5*.
Ctrl+<- ->: Search 50*.
P: Play.
I: Set In.
O: Set Out.
T: Goto In.
E: Goto Out.
S: Auto Edit

Clip edit:

ALT + E: select Clip Edit
F9: Live 1.
F10: Live 2.
F11: Live 3.
F12: Live 4.
Space Bar: Pause.
<- ->: Search
Shift+<- ->: Search 5*.
Ctrl+<- ->: Search 50*.
P: Play.
I: Set In.
O: Set Out.
T: Goto In.
E: Goto Out.
S: Save.
D: Duration.
R: Remain.
G: Goto TC
N: Name

Database:

ALT+B: select Database.
Del: Delete.
Enter: Edit clip.
Ctrl+U: Lock.
Alt +U: Unlock.
Ctrl+S: Search clip.
Ctrl + E: Edit clip.

Playlist:

F1: select Play 1.
F2: select Play 2.
F3: select Play 3.
F4: select Play 4.
Ctrl+Enter: Preload.
Alt+Space Bar: STOP.
<- ->: Search
Shift+<- ->: Search 5*.
Ctrl+<- ->: Search 50*.
P: Play.
Space Bar: Pause.
T: Goto In.
E: Goto Out.
N: Next.
K: Skip.
Ctrl+N: New Plst.
Ctrl+A: Save As.
Ctrl+X: Cut.
Ctrl+C: Copy.
Ctrl+V: Paste.
Del: Delete.
Ctrl+L: Loop.
Ctrl+E: Effect.
Ctrl+S: Speed.
Ctrl+Z: Start Mode.

Playlist Edit:

ALT+M: select Playlist Edit.
Enter: Playlist Edit.
<- ->: Search
Shift+<- ->: Search 5*.
Ctrl+<- ->: Search 50*.
P: Play.
I: Set In.
O: Set Out.
T: Goto In.
E: Goto Out.
S: Save.
N: Next.
B: Previous.

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