

TIME SHIFTER

Transmission Time Shifting

(Rev. 2.2 ENG)



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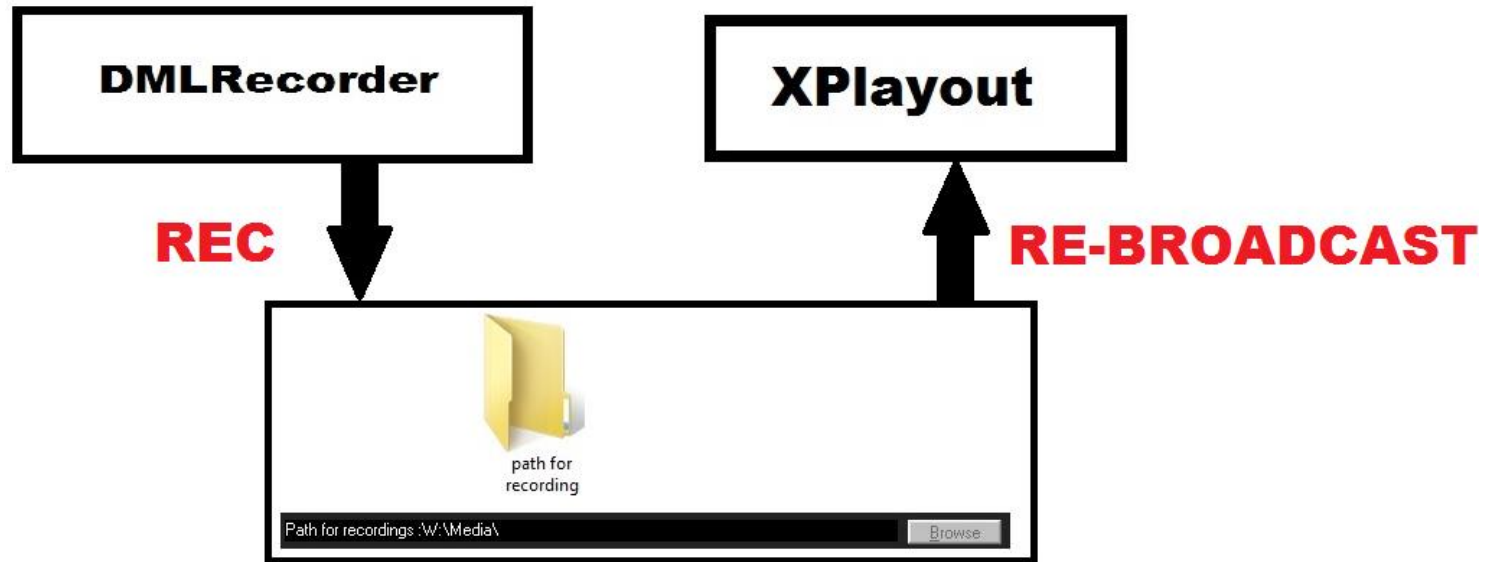
1 INTRODUCTION

Axel Technology's **Time Shifter TV** is a powerful automatic system that manages ingest and playback of TV transmission to be re-broadcasted with time delay.

All in 1 compact rackmount unit to easily create new channels(+1h,+2h...+24h etc.) or to re-broadcast the transmission in different time zones.

Time Shifter also features a high quality logo generator to add graphical content like station ID, clock and tickers.

The system is fully automated, no needing user intervention, to produce new channels at zero costs.



Time Shifter TV is the special interaction between the Axel Technology's **DMLRecorder**(assigned to video recordings) and a specific Axel Technology's **XPlayout** setting(assigned to video playback).

DMLRecorder stores the realized recordings in a specific folder defined by the user, in our case W:/Media. After some minutes defined by the user, **XPlayout** in Time Shifting Mode, progressively re-broadcasts the same files saved in that folder(W:/Media in our case).

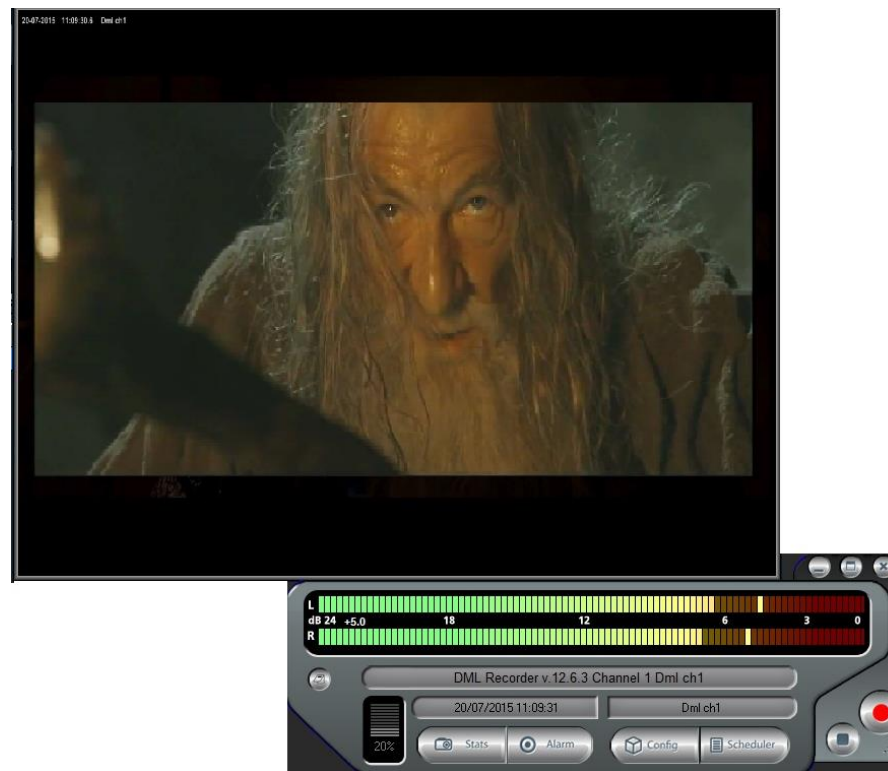
2 DML RECORDER SETTINGS

Firstly you have to set in **DMLRecorder** the folder path in which files will be saved.

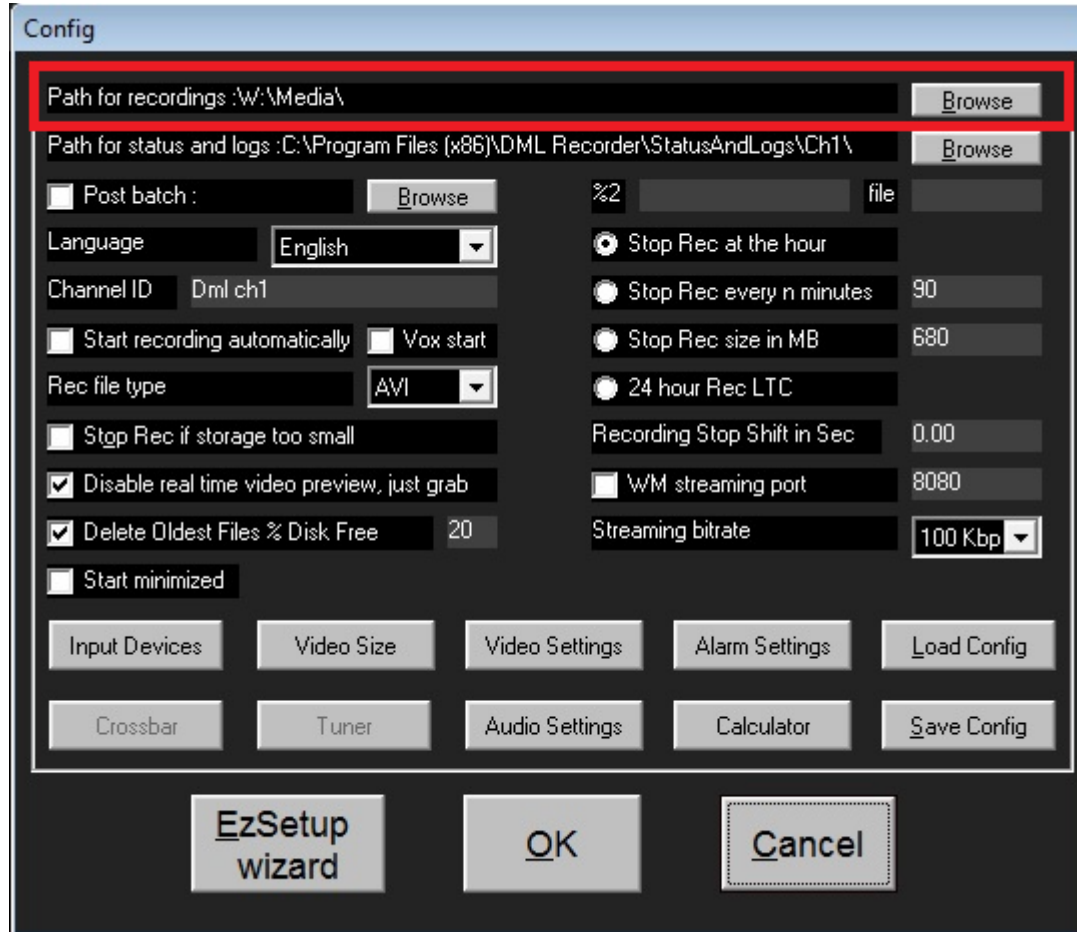


Run the **DMLRecorder** from your desktop icon.

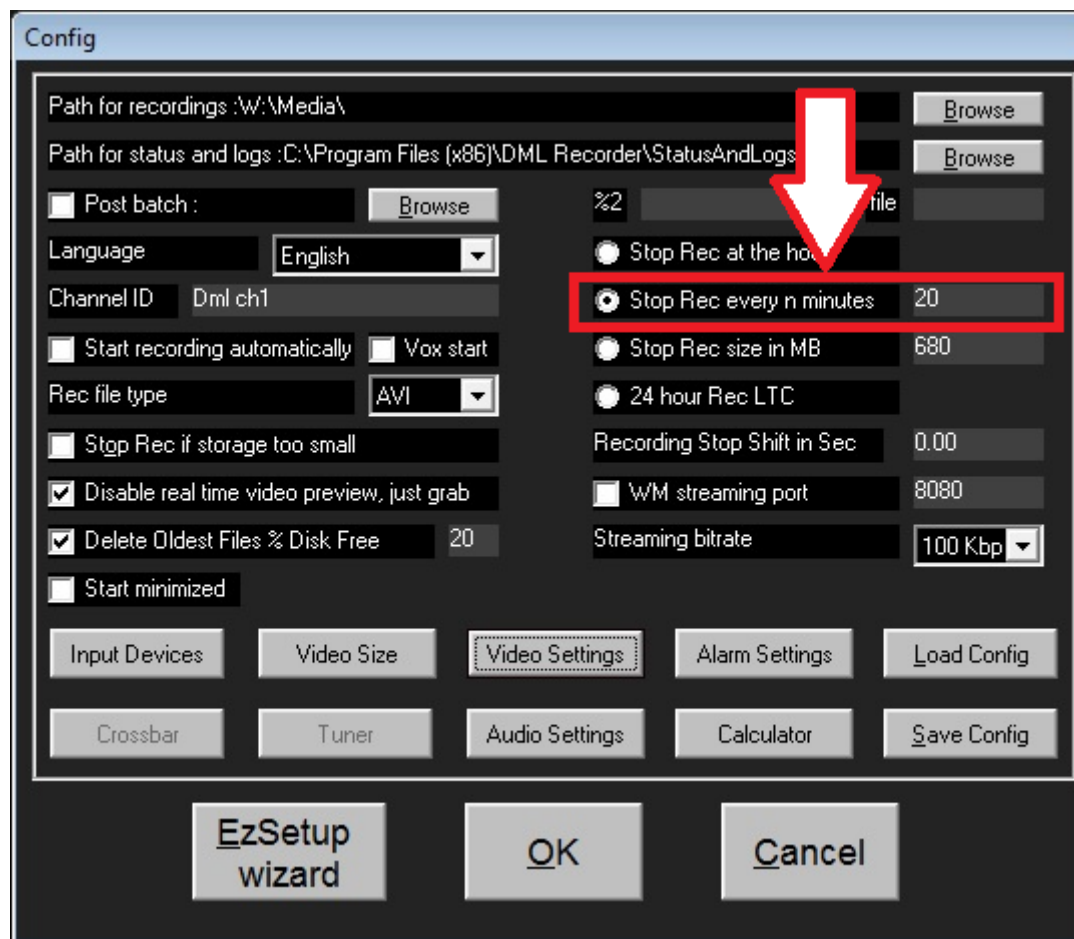
From the **DMLRecorder** main window click on the **Config** button as shown in the following picture.



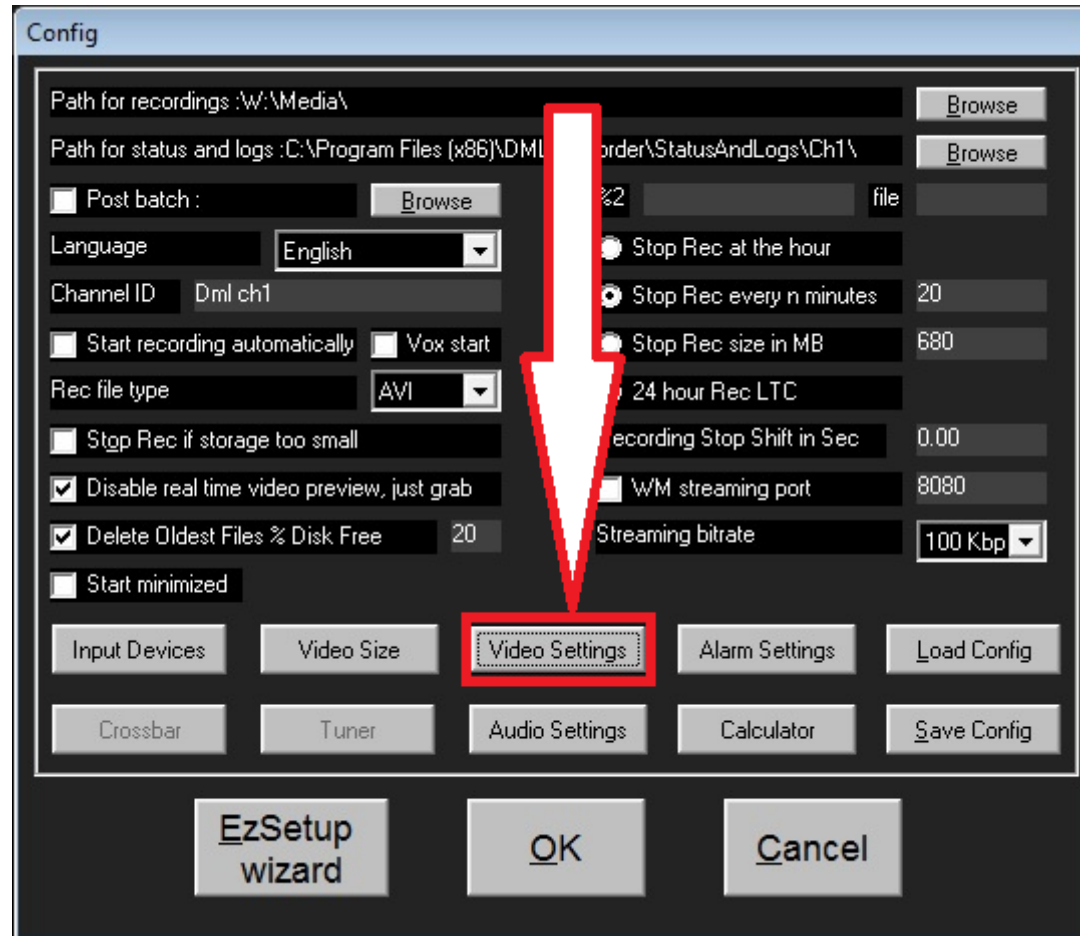
Type from your keyboard the folder path in which your video recordings will be saved, or press the **Browse** button to select the folder with the mouse.



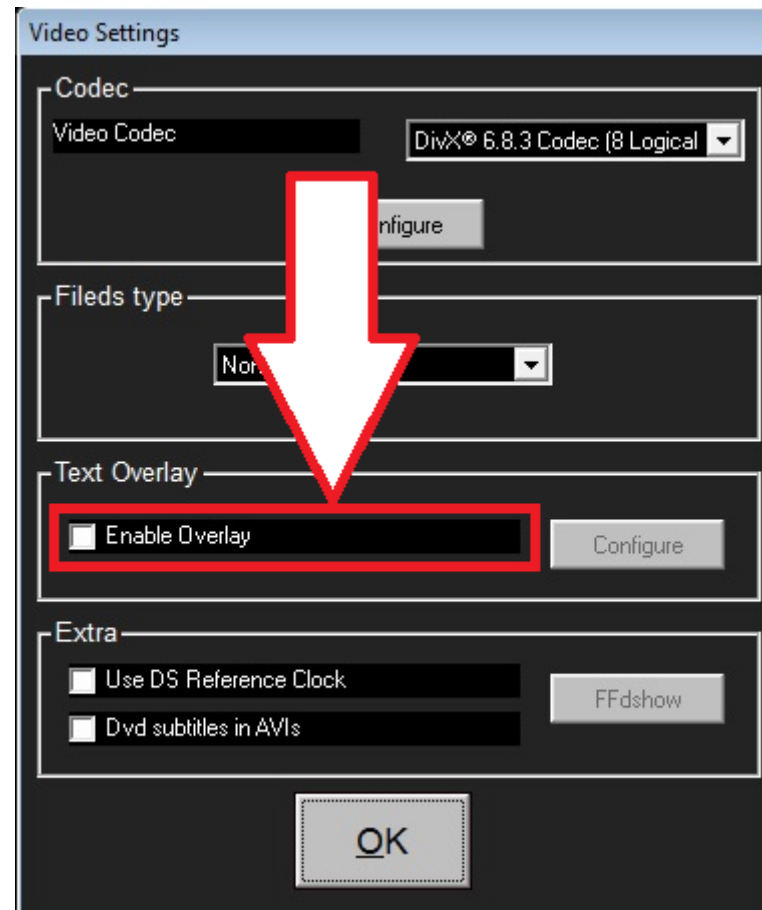
Be sure you have selected the option “Stop Rec every n minutes” and type the minutes time, we suggest you tu set it at **20** as shown in the following picture.



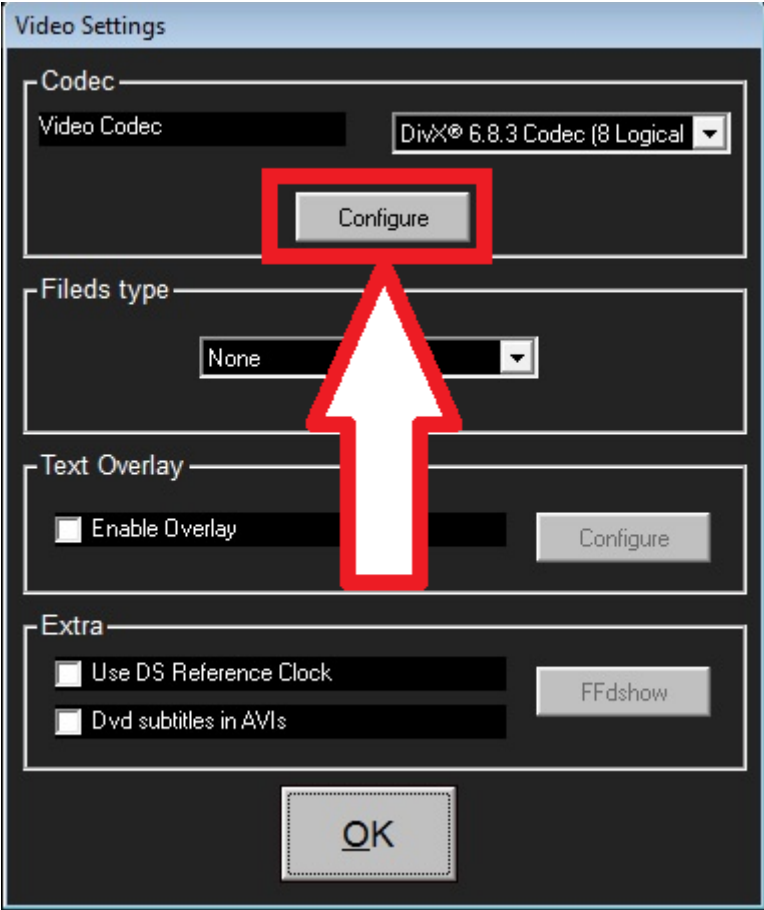
Click on the **Video Setting** button as shown in the following picture.



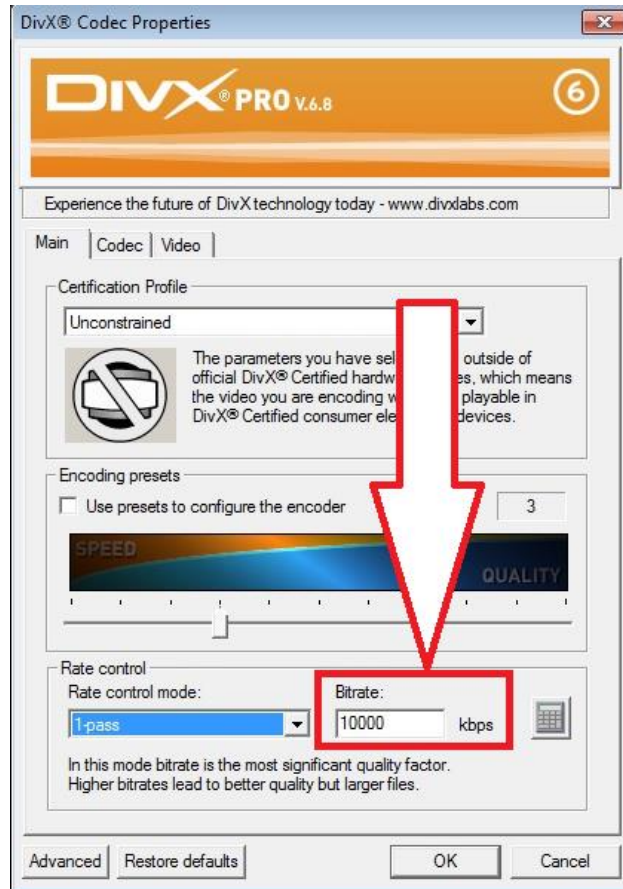
The **Video Setting** panel will be opened.
Uncheck the “Enable Overlay” option to do not show recordings date and time from your recorded video files.



From the **Codec** section of the **Video Settings** panel, click on **Configure** to set your recording codec(We suggest you the DivX codec)



Change the bitrate of your recordings, depending on the free space you have on your storage device. More bitrate you select, more video quality you will have and more hard disk space will be used for a single video file.



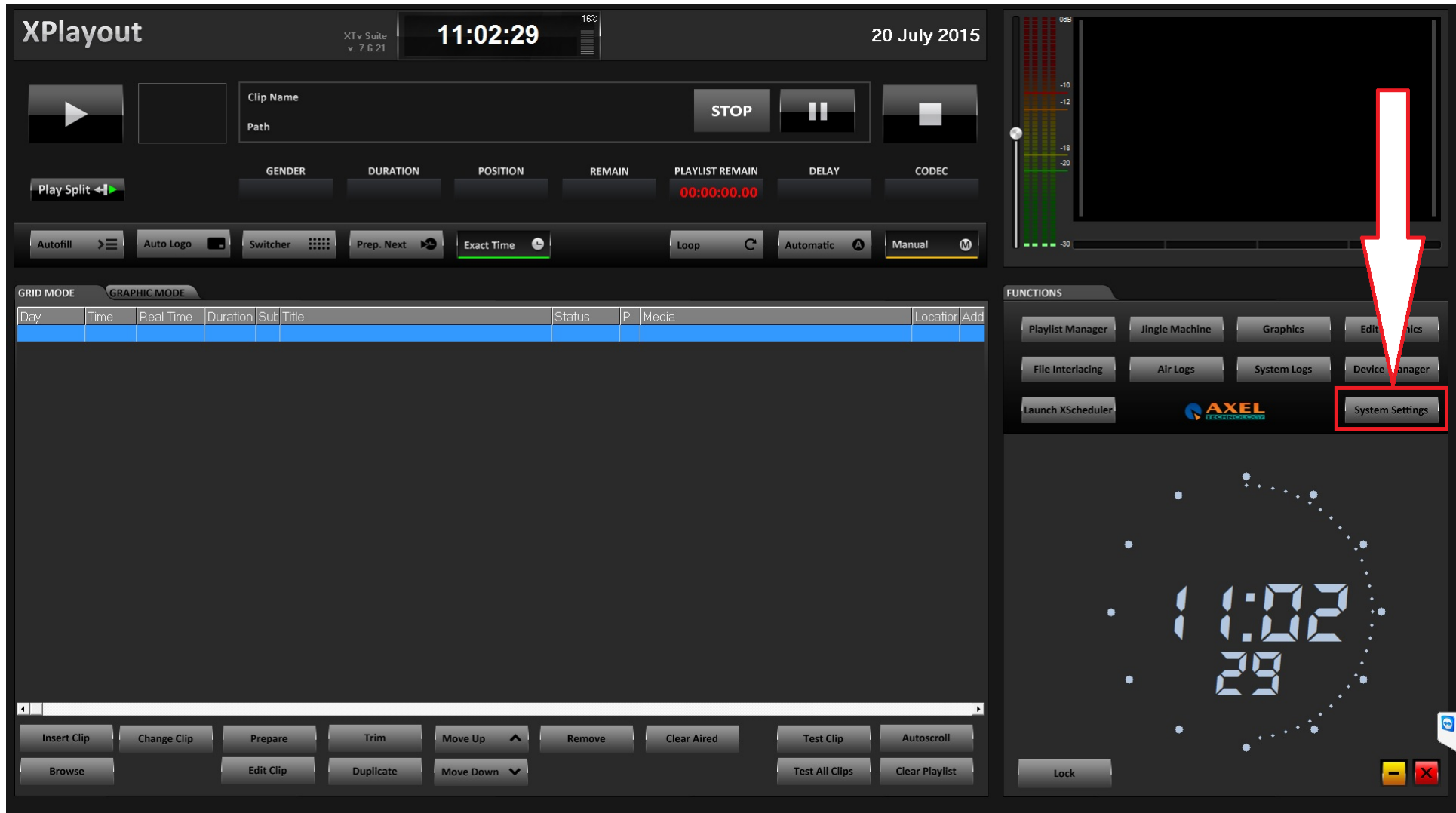
3 XPLAYOUT SETTINGS



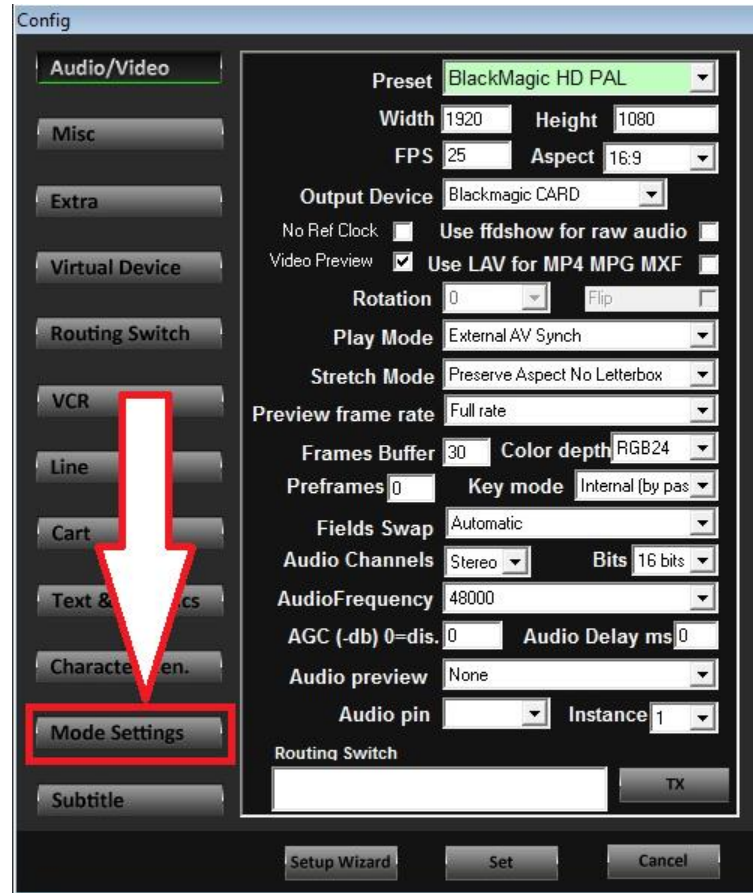
By clicking on your desktop XPlayout icon, launch the software to re-broadcast your DML recorded video files

The screenshot shows the XPlayout software interface. At the top, it displays 'XPlayout', 'XT v Suite v. 7.6.21', the time '11:02:29', and the date '20 July 2015'. Below this is a control panel with buttons for 'STOP', a play button, and a 'Play Split' button. A 'Clip Name' and 'Path' field are also present. A row of buttons includes 'GENDER', 'DURATION', 'POSITION', 'REMAIN', 'PLAYLIST REMAIN' (showing '00:00:00.00'), 'DELAY', and 'CODEC'. Further down are 'Autofill', 'Auto Logo', 'Switcher', 'Prep. Next', 'Exact Time', 'Loop', 'Automatic', and 'Manual' buttons. The main area is divided into 'GRID MODE' and 'GRAPHIC MODE'. The 'GRID MODE' section contains a table with columns: Day, Time, Real Time, Duration, Sct, Title, Status, P, Media, and Locator. The 'GRAPHIC MODE' section features a large digital clock showing '11:02' and '29'. To the right of the main interface is a 'FUNCTIONS' panel with buttons for 'Playlist Manager', 'Jingle Machine', 'Graphics', 'Edit Graphics', 'File Interlacing', 'Air Logs', 'System Logs', 'Device Manager', 'Launch XScheduler', and 'System Settings'. The 'AXEL' logo is also visible. At the bottom of the interface are several control buttons: 'Insert Clip', 'Change Clip', 'Prepare', 'Trim', 'Move Up', 'Remove', 'Clear Aired', 'Test Clip', 'Autoscroll', 'Browse', 'Edit Clip', 'Duplicate', 'Move Down', 'Test All Clips', and 'Clear Playlist'. A 'Lock' button is located at the bottom right of the main interface area.

Click on the **System Settings** button to set your **XPlayout** in Time Shifting Mode as shown in the following picture



From the **Config** panel, enter in the **Mode Settings** section as shown in the following picture.

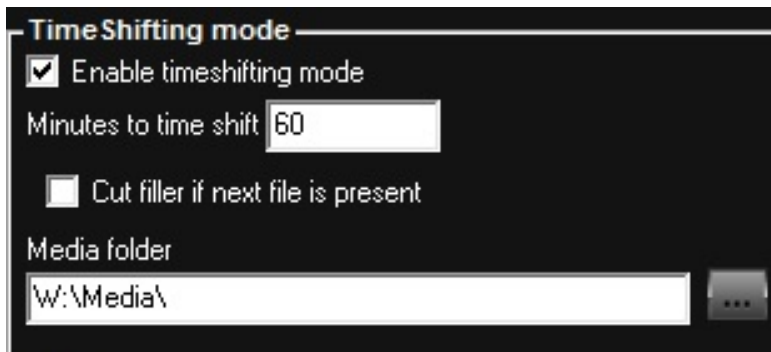


The next screen will be opened, as shown in the following picture



In the following picture, the panel zone for Time Shifter settings is the red squared zone.





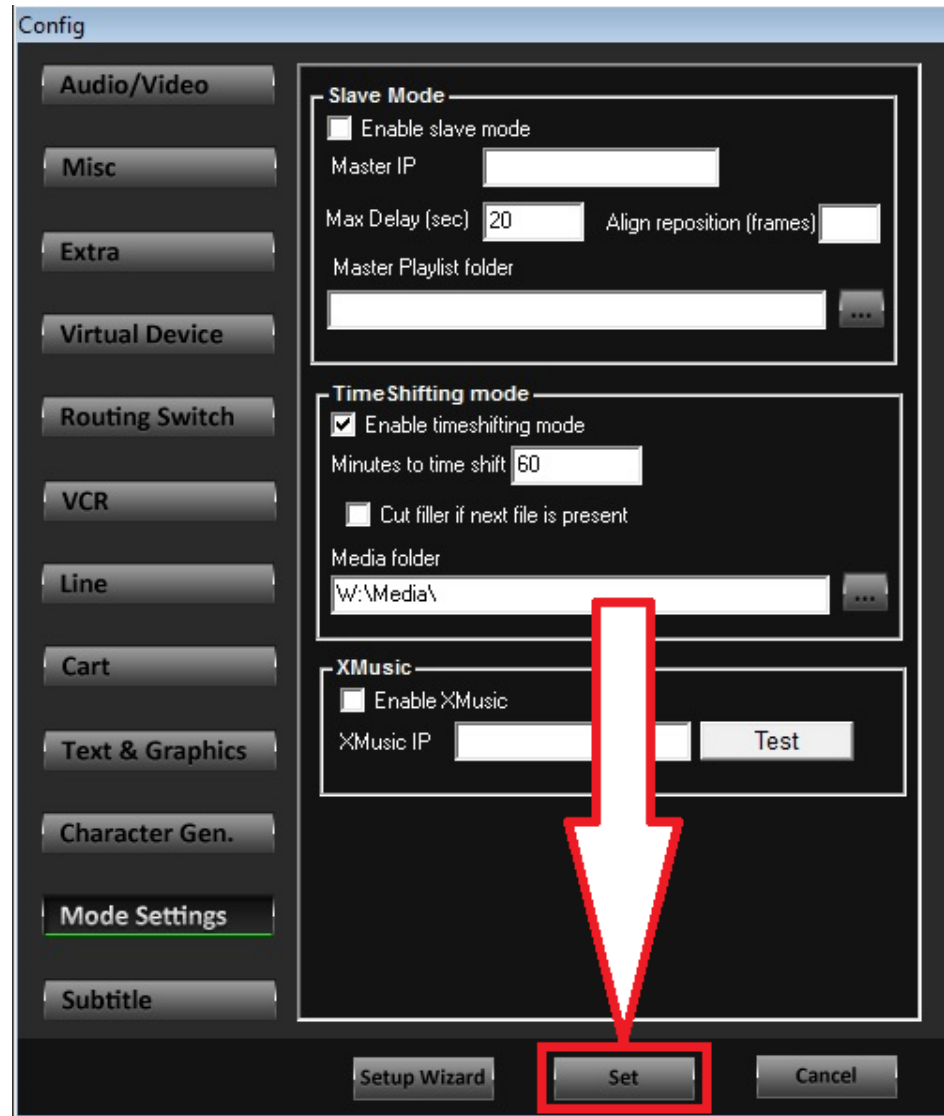
Enable timeshifting mode: enabling this parameter you turn the XPlayout as a Time Shifted playout software.

Minutes to time shift: Assign here the time shift for the re-broadcast. Minutes will be calculated from the starting point of the original video broadcast(in our example we have 60 minutes: to give you an example of a +1 channel)

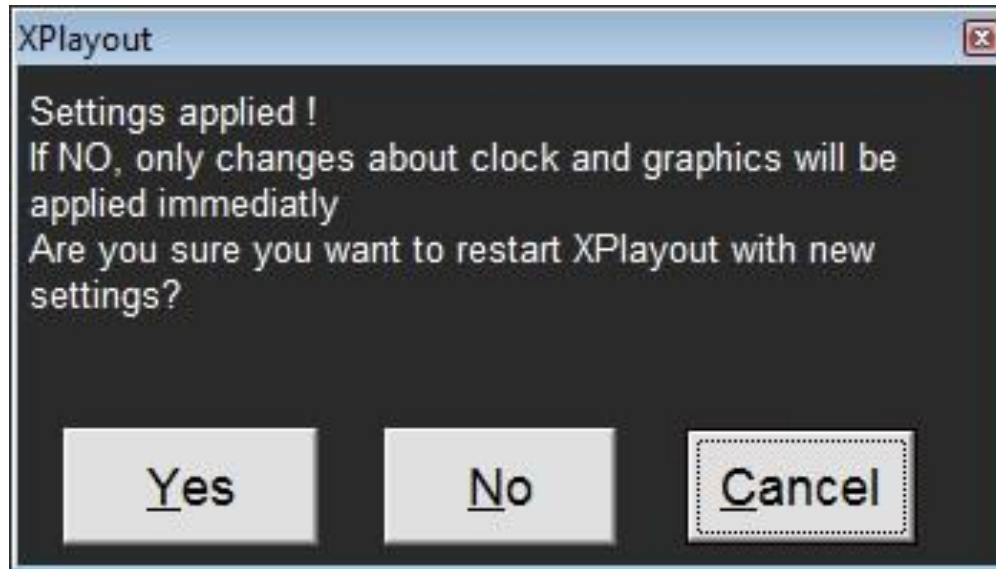
Cut filler if next file is present: check this parameter if you want to cut filler if next file is present.

Media folder: Assign here the folder path from which you want to automatically re-broadcast your video files. It has to be the same of the **DMLRecorder** folder path.

Click on **SET** to confirm **Time Shifting mode** settings as shown in the picture.



To confirm the Time Shifting mode, XPlayout will be restarted. So, click on Yes in the following window.



Once the XPlayout will be restarted, you will see the green **Time Shifting Mode** words.

The screenshot displays the XPlayout software interface. At the top, the title 'XPlayout' is on the left, 'XTv Suite v. 7.6.21' is in the center, and the time '11:06:50' and date '20 July 2015' are on the right. A red box highlights the text 'Time Shifting Mode' in green, with a red arrow pointing to it from below. The interface includes a control panel with buttons for 'STOP', 'Play Split', 'Autofill', 'Auto Logo', 'Switcher', 'Prep. Next', 'Exact Time', 'Loop', 'Automatic', and 'Manual'. Below this is a table with columns for 'Day', 'Time', 'Real Time', 'Duration', 'Sut', 'Title', 'Status', 'P', 'Location', and 'Add'. A 'FUNCTIONS' panel on the right contains buttons for 'Playlist Manager', 'Jingle Machine', 'Graphics', 'Edit Graphics', 'File Interlacing', 'Air Logs', 'System Logs', 'Device Manager', 'Launch XScheduler', and 'System Settings'. At the bottom right, there is a large digital clock display showing '11:06 50' and a 'Lock' button. The bottom of the interface features a row of buttons: 'Insert Clip', 'Change Clip', 'Prepare', 'Trim', 'Move Up', 'Remove', 'Clear Aired', 'Test Clip', 'Autoscroll', 'Browse', 'Edit Clip', 'Duplicate', 'Move Down', 'Test All Clips', and 'Clear Playlist'.

4 TIME SHIFTER PLAYOUT

The playout of your DML recorded file will start after the previously set minutes in System Settings > Time Shifting Mode

Minutes to time shift

(60 minutes in our example) as shown in the following picture.

XPlayout XTv Suite v. 7.6.21 **10:00:13** 66% 21 July 2015
Time Shifting Mode

Clip Name **09:00:00 21/07/2015** **ON-AIR**

Path W:\Media\ 2015-07-21 09:00:00 2015-07-21 08:00

GENDER	DURATION	POSITION	REMAIN	PLAYLIST REMAIN	DELAY	CODEC
	00:19:59.22	00:00:22.11	00:19:37.11	00:19:37.11	Manual	DivX 5.0 codec

Day	Time	Real Time	Duration	Sut	Title	Status	P	Media	Location	Add
Manual	Manual	09:46:18	00:14:33:01		08:45:27 21/07/2015	Aired		W:\Media\ 2015-07-21 08:45:27 2015-07-21 07	HDR1	
Manual	Manual	09:59:51	00:20:00:01		09:00:00 21/07/2015	On Air		W:\Media\ 2015-07-21 09:00:00 2015-07-21 08	HDR1	

FUNCTIONS

- Playlist Manager
- Jingle Machine
- Graphics
- Edit Graphics
- File Interlacing
- Air Logs
- System Logs
- Device Manager
- Launch XScheduler
- AXEL
- System Settings

10:00
13

