

TIME SHIFTER

Transmission Time Shifting

(Rev. 2.1 ENG)



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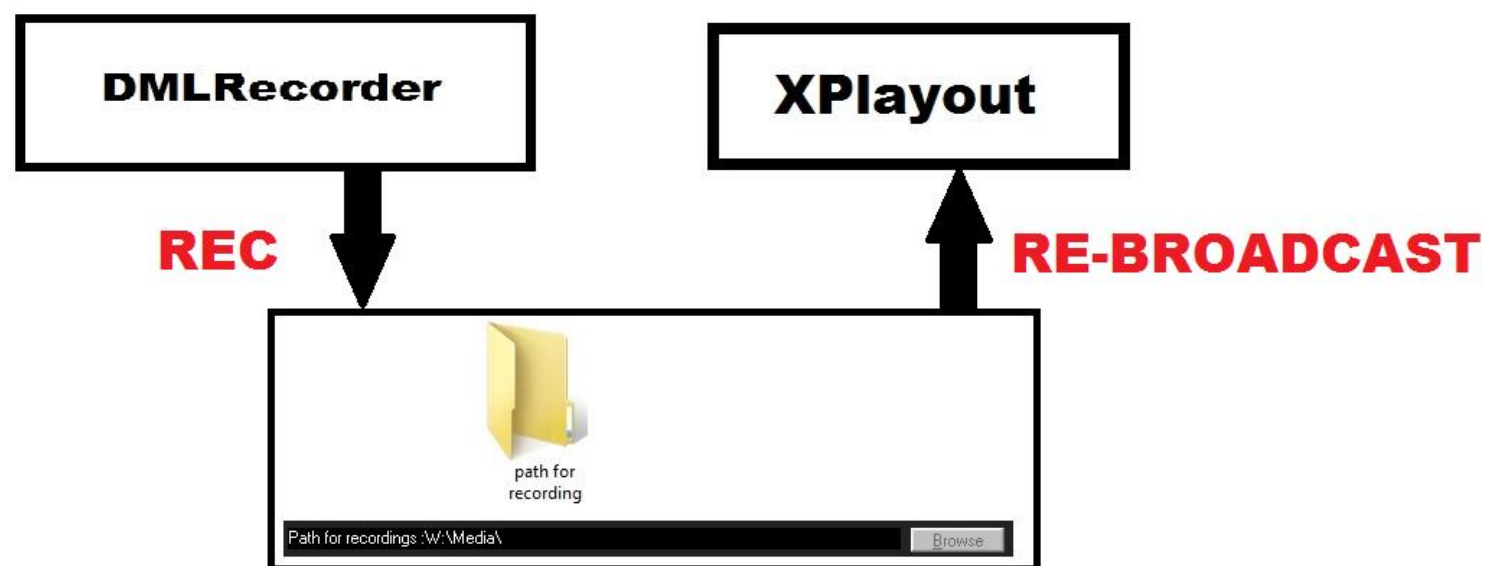
1 INTRODUCTION

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).

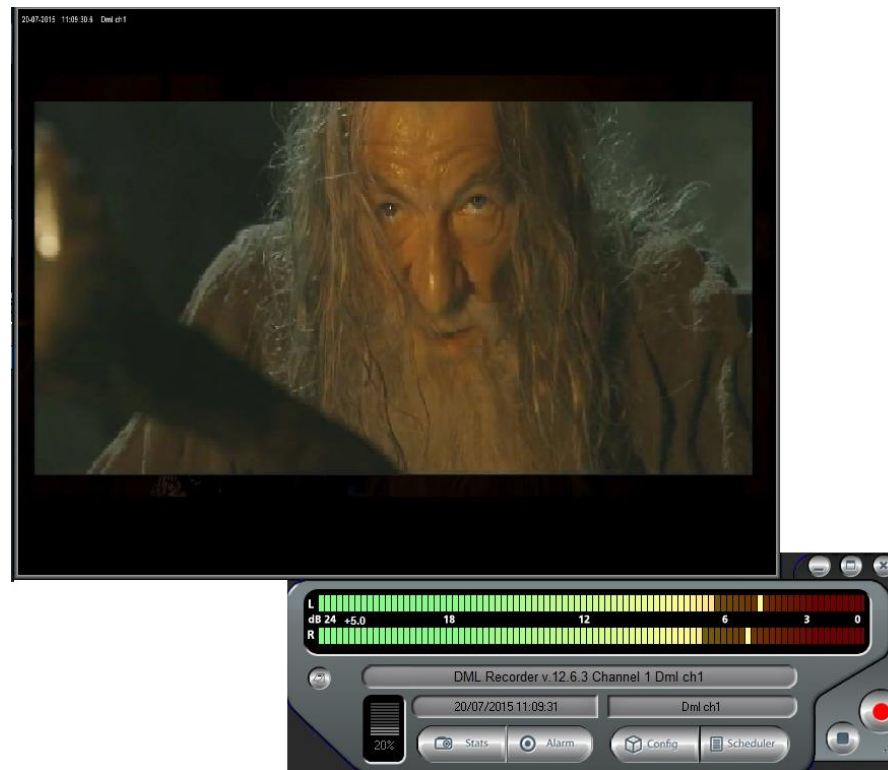
2 DML RECORDER SETTINGS

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

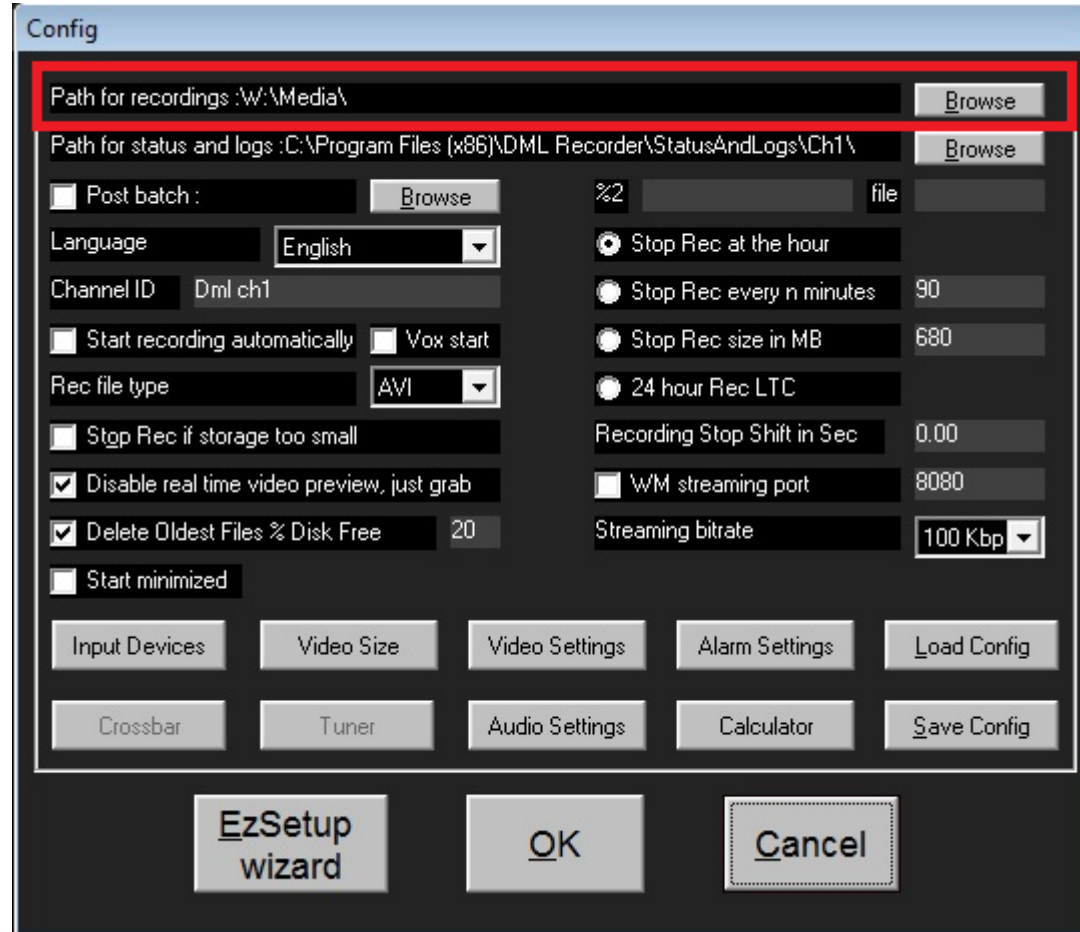


Run the **DMLRecorder** from your desktop icon.

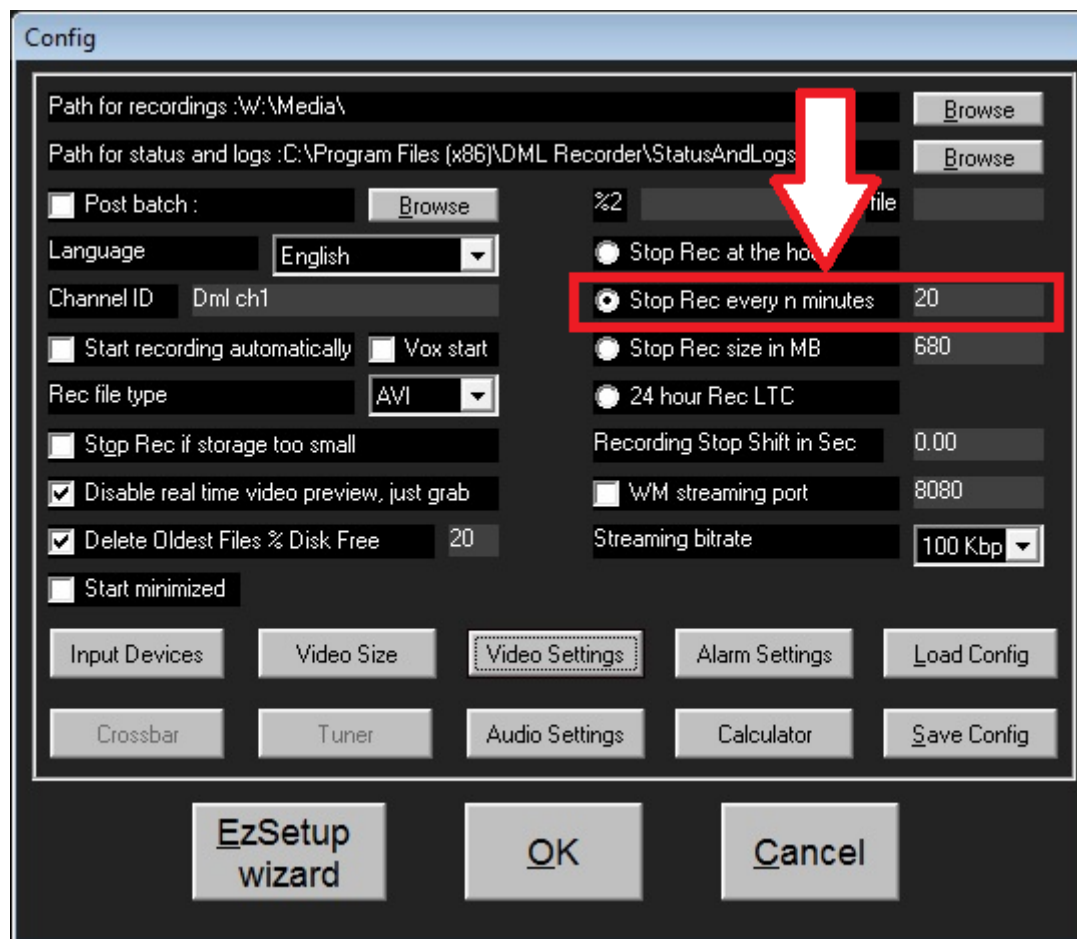
From the **DMLRecorder** main window click on the **Config** button as shown in the following picture.



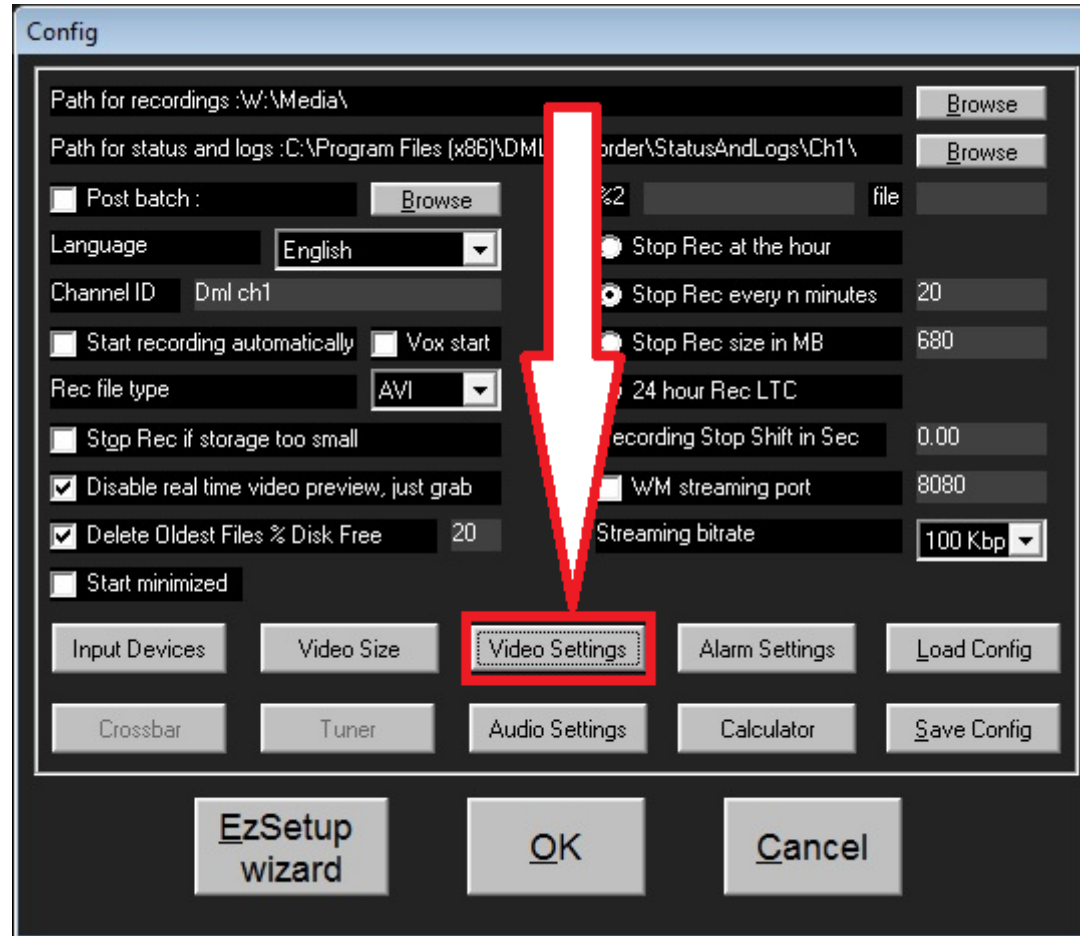
Type from your keyboard the folder path in which your video recordings will be saved, or press the **Browse** button to select the folder with the mouse.



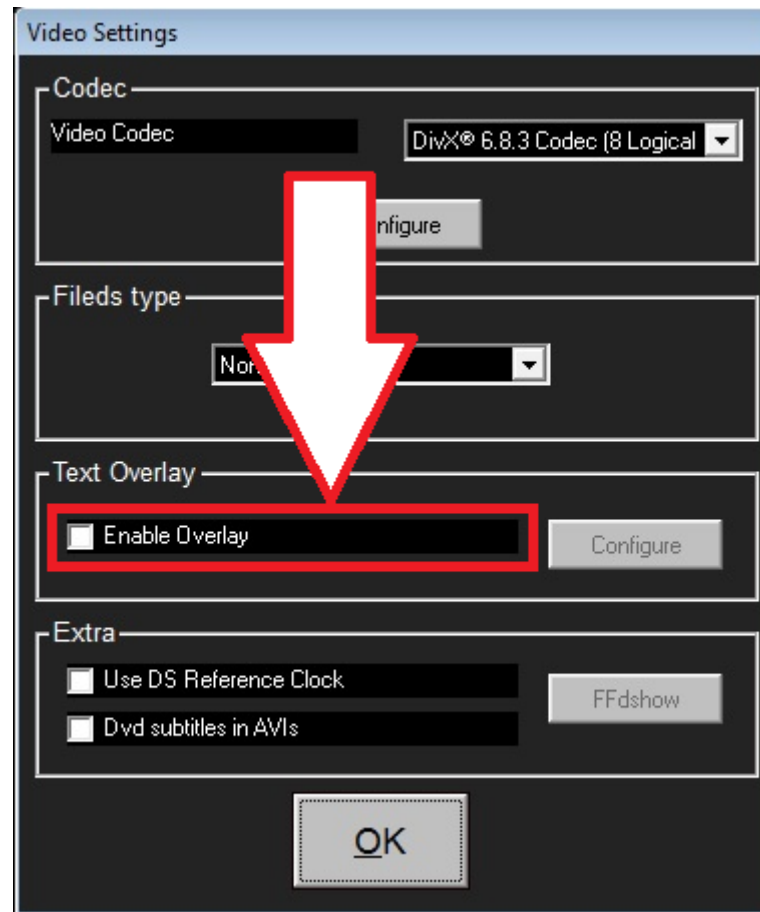
Be sure you have selected the option “Stop Rec every n minutes” and type the minutes time, we suggest you tu set it at **20** as shown in the following picture.



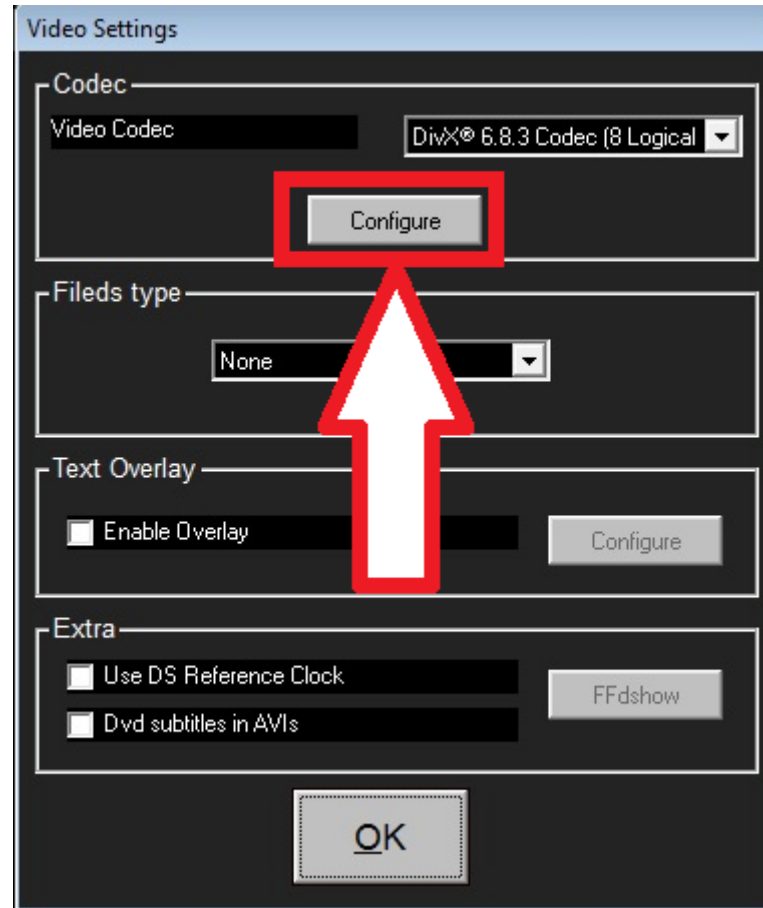
Click on the **Video Setting** button as shown in the following picture.



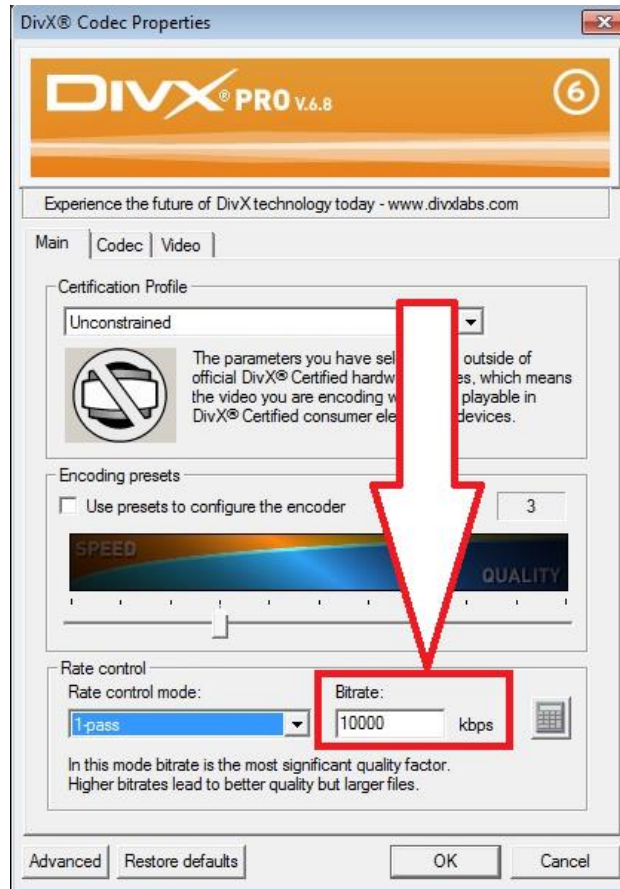
The **Video Setting** panel will be opened.
Uncheck the “Enable Overlay” option to do not show recordings date and time from your recorded video files.



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

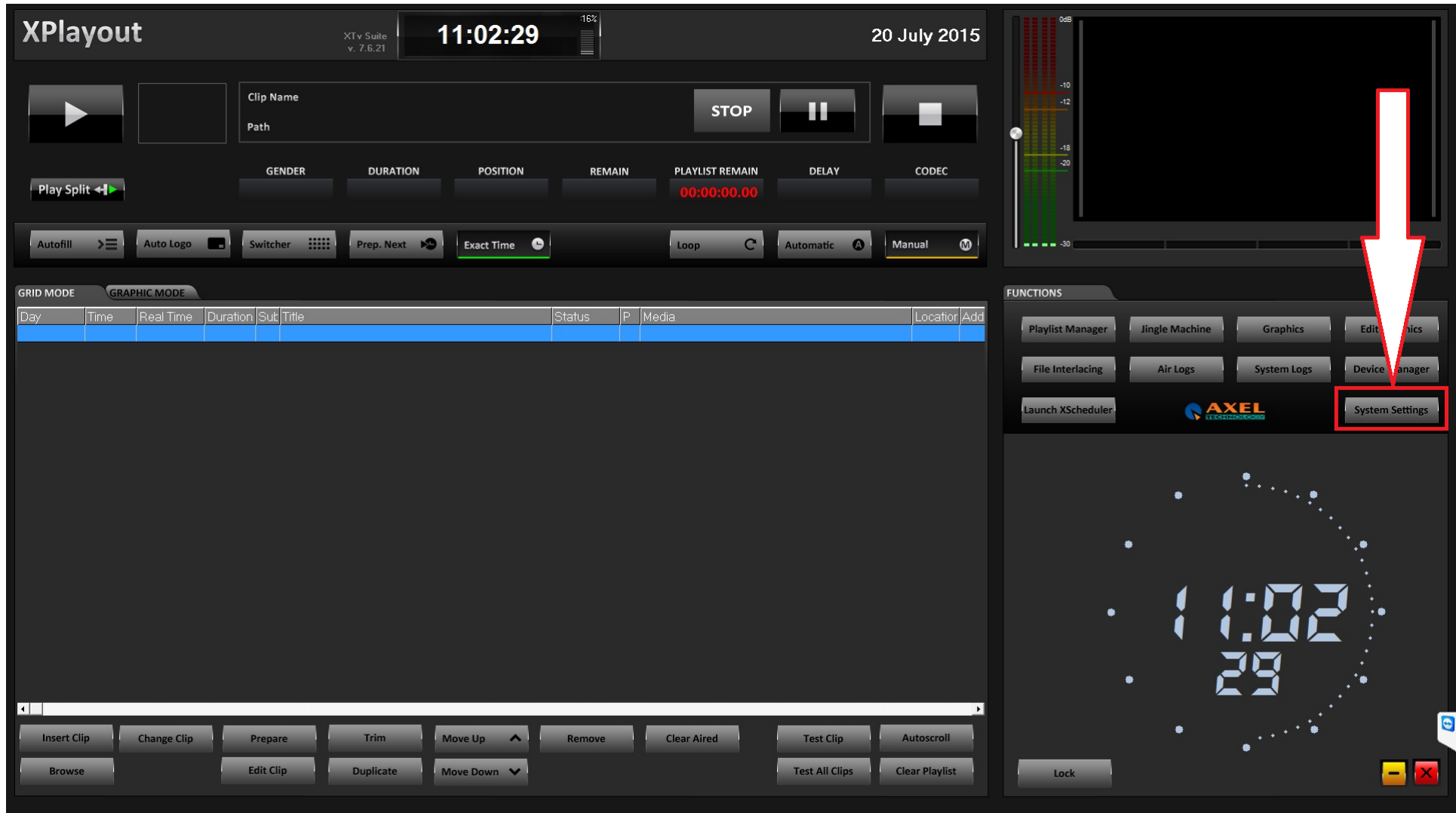


By clicking on your desktop XPlayOut icon, launch the software to re-broadcast your DML recorded video files

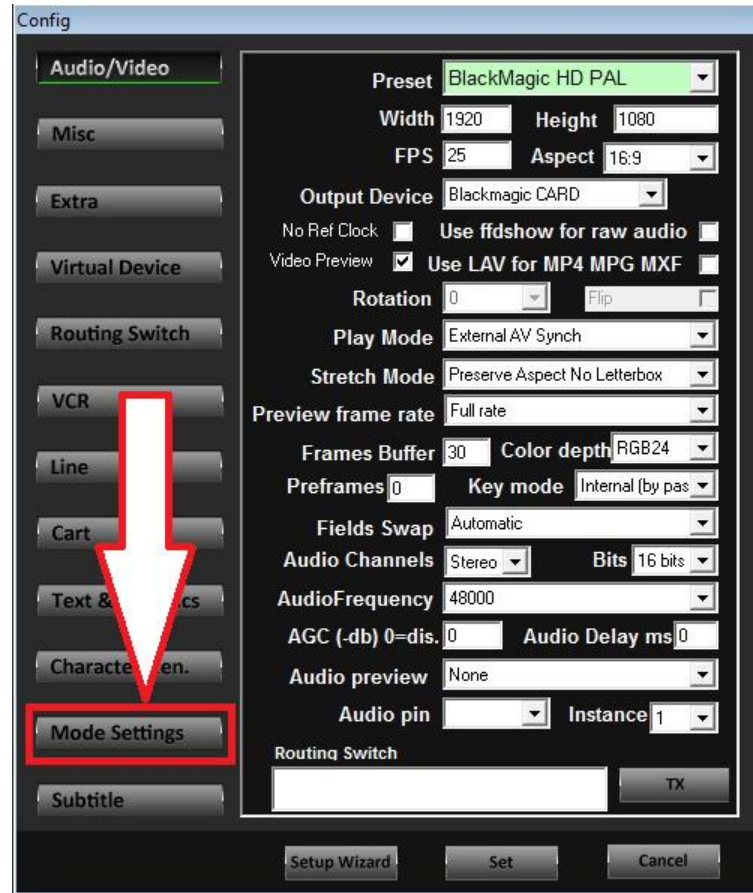
The screenshot displays the XPlayOut software interface. At the top, it shows the title 'XPlayOut', version 'XT v Suite v. 7.6.21', a large digital clock '11:02:29', and the date '20 July 2015'. Below this is a control panel with play, stop, and pause buttons, along with fields for 'Clip Name' and 'Path'. A 'PLAYLIST REMAIN' indicator shows '00:00:00.00'. The interface includes a 'GRID MODE' table with columns for Day, Time, Real Time, Duration, SUT, Title, Status, P, Media, and Locator. A 'FUNCTIONS' menu 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, there are buttons for Insert Clip, Change Clip, Prepare, Trim, Move Up, Remove, Clear Aired, Test Clip, Autocroll, Browse, Edit Clip, Duplicate, Move Down, Test All Clips, and Clear Playlist. A large digital clock display in the bottom right corner shows '11:02 29'.

Day	Time	Real Time	Duration	SUT	Title	Status	P	Media	Locator	Add

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.

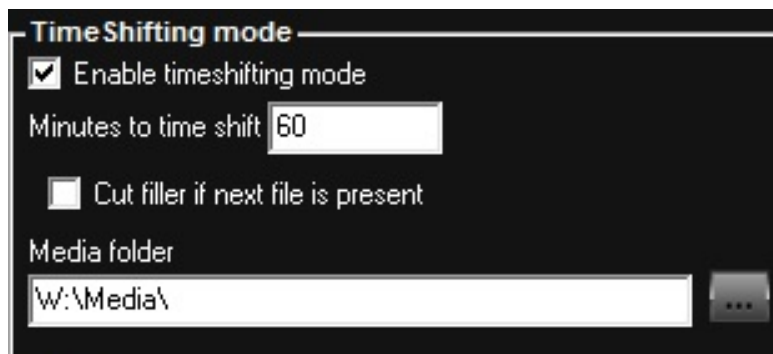


The next screen will be opened, as shown in the following picture



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





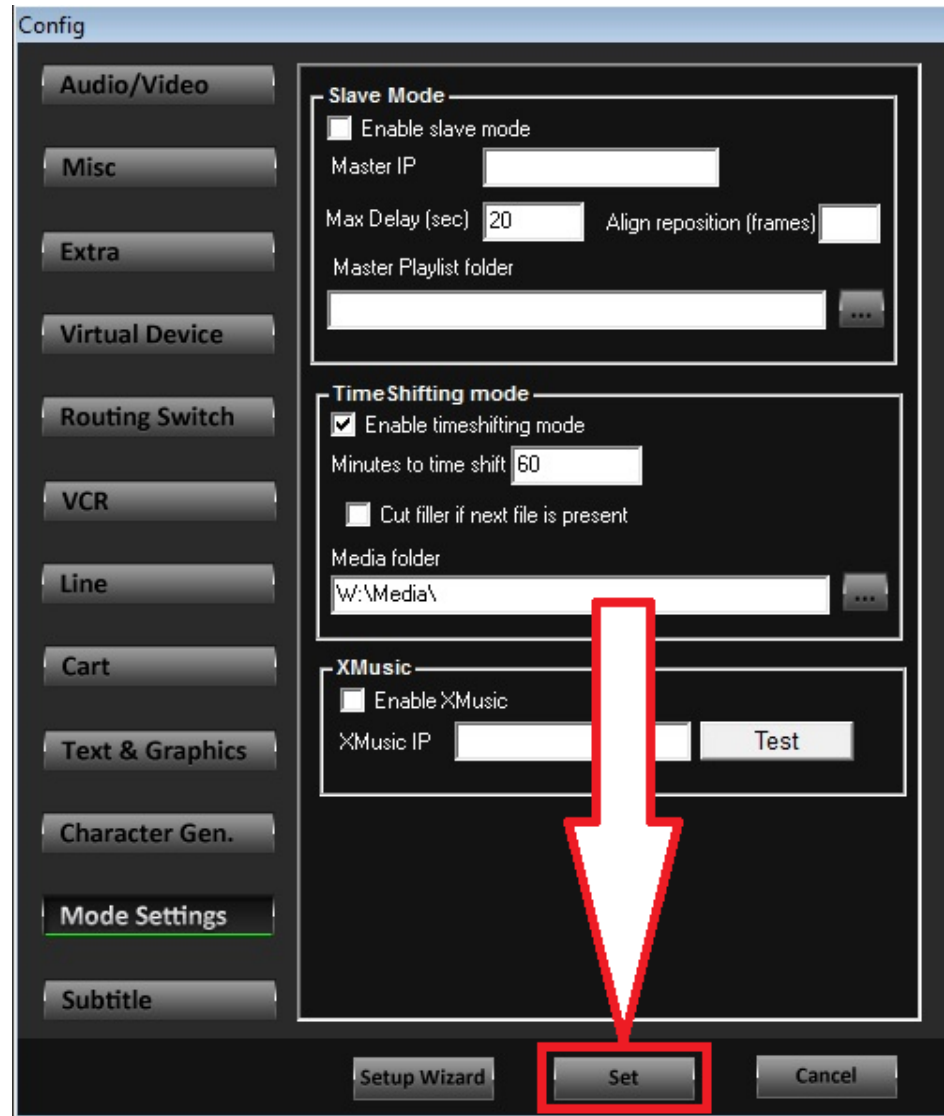
Enable timeshifting mode: enabling this parameter you turn the XPlayout as a Time Shifted playout software.

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)

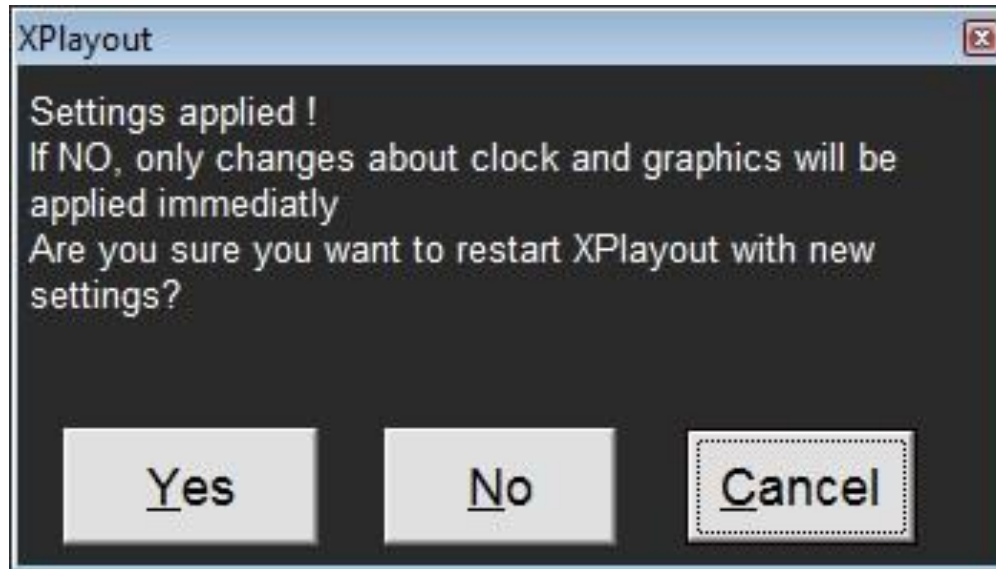
Cut filler if next file is present: check this parameter if you want to cut filler if next file is present.

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 left, the title 'XPlayout' is shown. The top center features a large digital clock displaying '11:06:50' and a volume indicator at '-15%'. To the right of the clock, the text 'Time Shifting Mode' is highlighted in green and enclosed in a red box, with a red arrow pointing upwards towards it. The top right corner shows the date '20 July 2015'. Below the top bar, there are several control buttons including 'STOP', a pause icon, and a square icon. A 'Clip Name' field and a 'Path' field are also visible. A 'Play Split' button is located on the left. Below these are various mode and function buttons: 'Autofill', 'Auto Logo', 'Switcher', 'Prep. Next', 'Exact Time', 'Loop', 'Automatic', and 'Manual'. A central table is shown with columns for 'Day', 'Time', 'Real Time', 'Duration', 'Sut', 'Title', 'Status', 'P', 'Location', and 'Add'. The bottom section contains a grid of buttons for clip management: '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'. On the right side, there 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 present. At the bottom right, there is a large digital clock display showing '11:06 50' and a 'Lock' button.

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)

