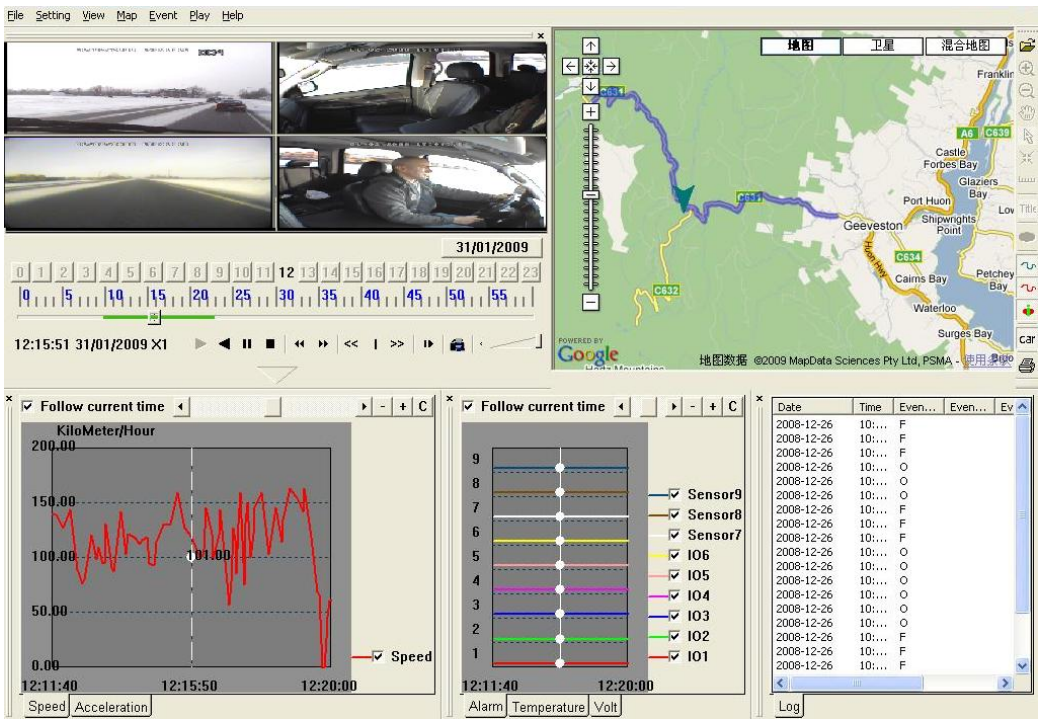
User Manual
For PAS Operation
MDVR Systems

Playback Analysis Software



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NOTICE

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without any notice.

The purpose of this manual is to kindly aid the user for Playback Analysis Software.

Copyright

1. Software Introduction

Playback Analysis software is used to playback the video file for Streaming MDVR .NVR file, and .H.264 file. Support MapInfo map and Google map; analyze the speed, metadata GPS location etc. It is very good software for video playback and metadata analysis.

2. Installation Environment

PC Software: Windows 2000, XP, Vista
PC Hardware: Pentium 4 processor 1.8 or above. Memory 512M

You can install the PAS in Windows XP OS or Vista OS, we tested this software both in XP OS and Vista OS, both are run ok, when you run the PAS on VISTA operating system, please turn off UAC, USER ACCOUNTS==>> Turn off USER ACCOUNT CONTROL , and then restart the PC, otherwise you can't playback the record files normally.

3. Installation

3.1 PAS Installation

The installation for PAS is very simple; please kindly click the installation program icon 

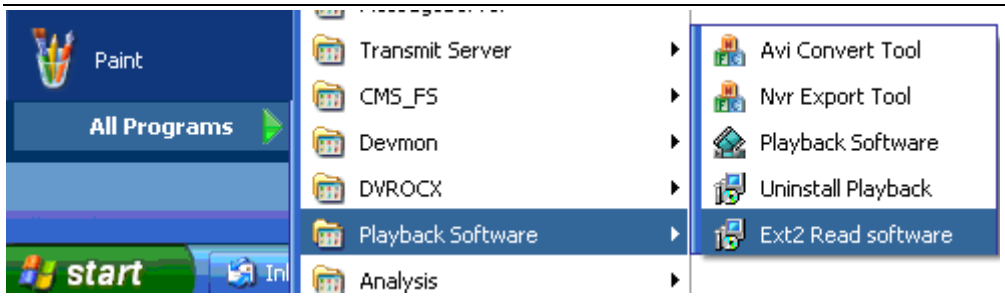
to start installation and then click "NEXT" for next steps. The system will install automatically and after successful installation, you can see a icon 

on the desktop (if create icon on desktop)

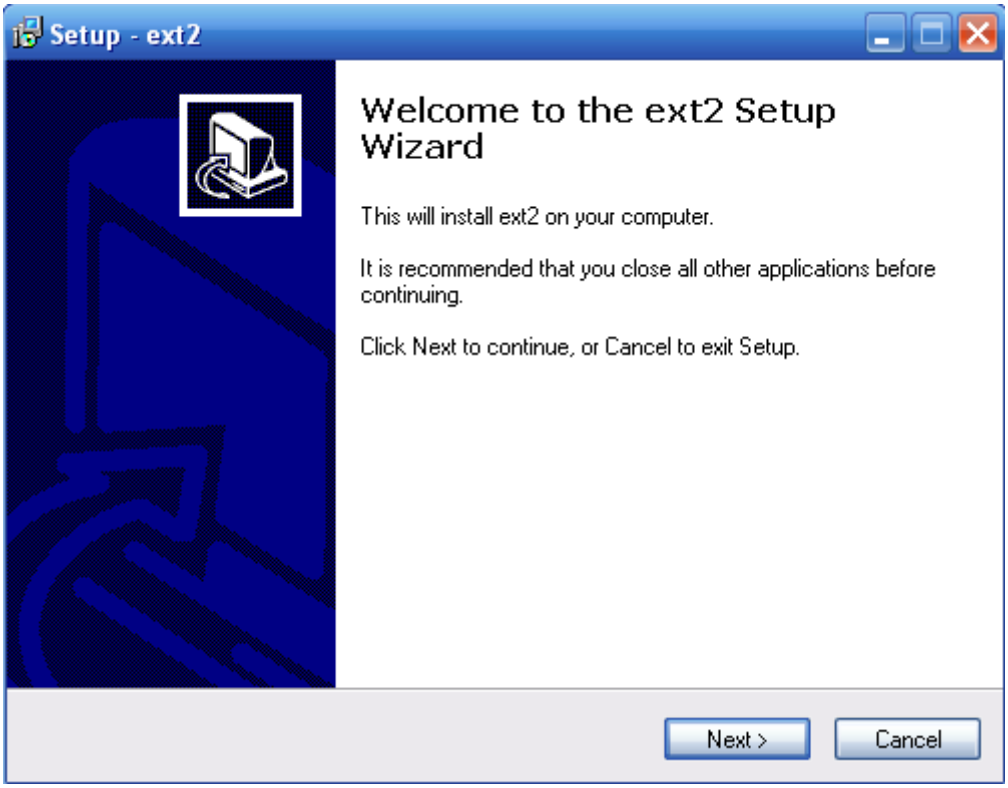
3.2 Ext2 Installation

After install PAS successful, please go to Start>>>>All programs>>>>Playback software, select Ext2 read software to install Ext2 Plug-in, which is a special Plug-in to help your PC to read the special file system of our MDVR record files.

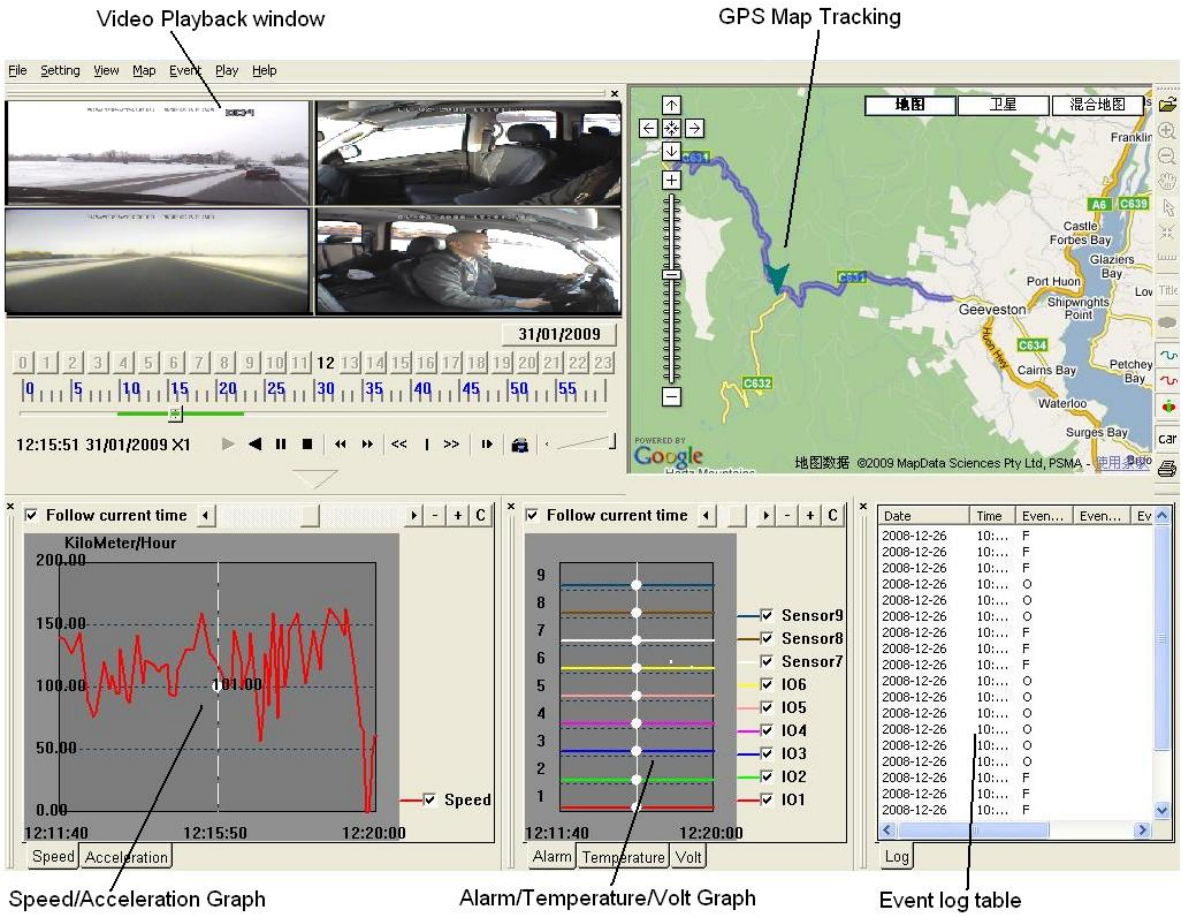
Please make sure you have installed this Plug-in before you connect HDD or SD card to your PC, otherwise your PC can't detect it.



Just need to click NEXT to finished the installation.



4. Main Display Screen

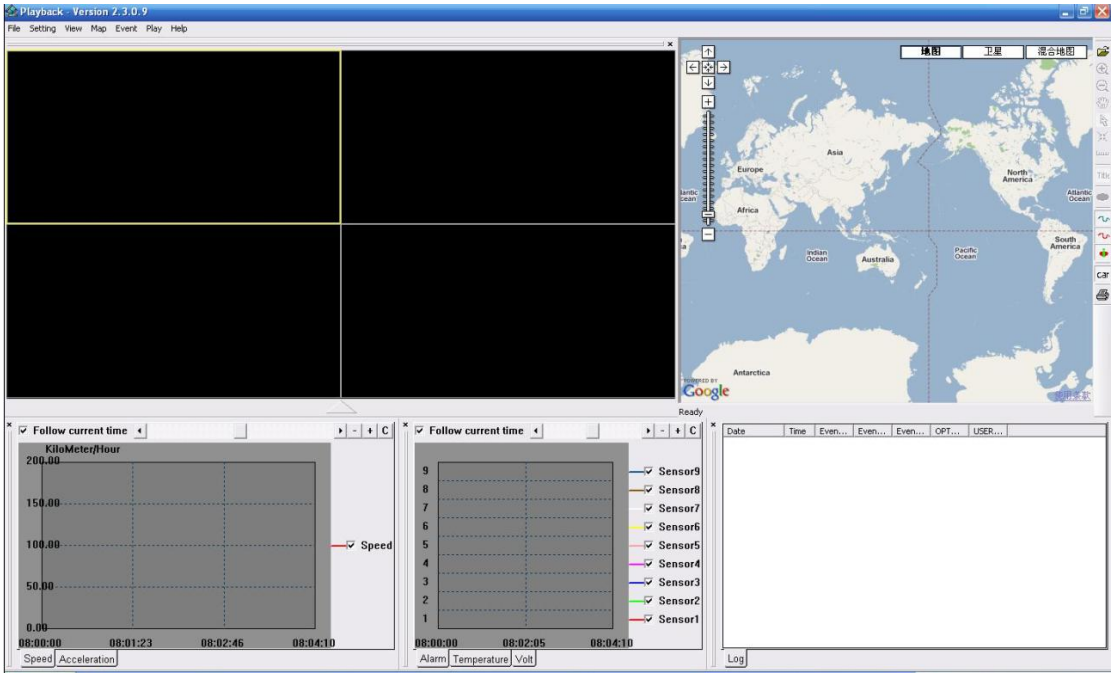


5. Client Profile

After successful installation, the icon 

will display on the desktop.

Double click the icon to enter the operation menu

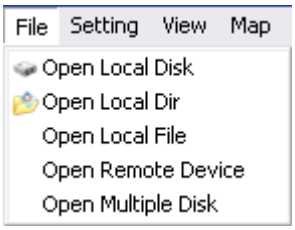


Function Contents

1. Video Playback
2. Parameter Setting
3. View
4. Map
5. Event
6. Play
7. Speed/Acceleration Table
8. Alarm/Temperature Table
9. Event Table

5.1 Video Playback

There are three ways to open the video file for playback.



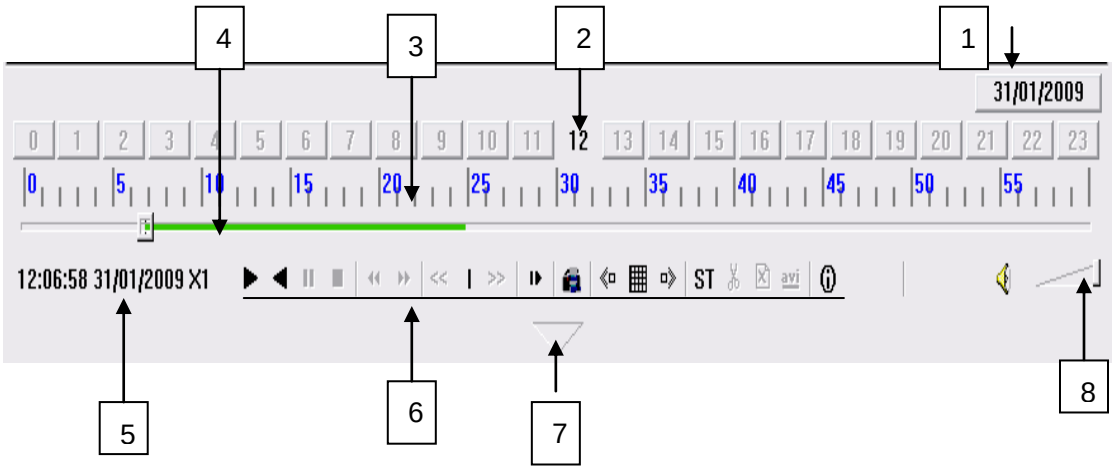
a) Open Local Disk: Open files in a disk (HDD or SD card), it will add all the files in the disk to playback software, if the file in it is very large, please don't do that, because it will take a long time.

b) Open Local Dir: Open a file folder that includes the video files in it., like 

c) Open Local File: Open single video file (.NVR file in HDD or .264 file in your PC).

d）Open Remote Device: this function just for debugging.

e) Open Multiple Disk: you can playback the record files from different disk at the same time.

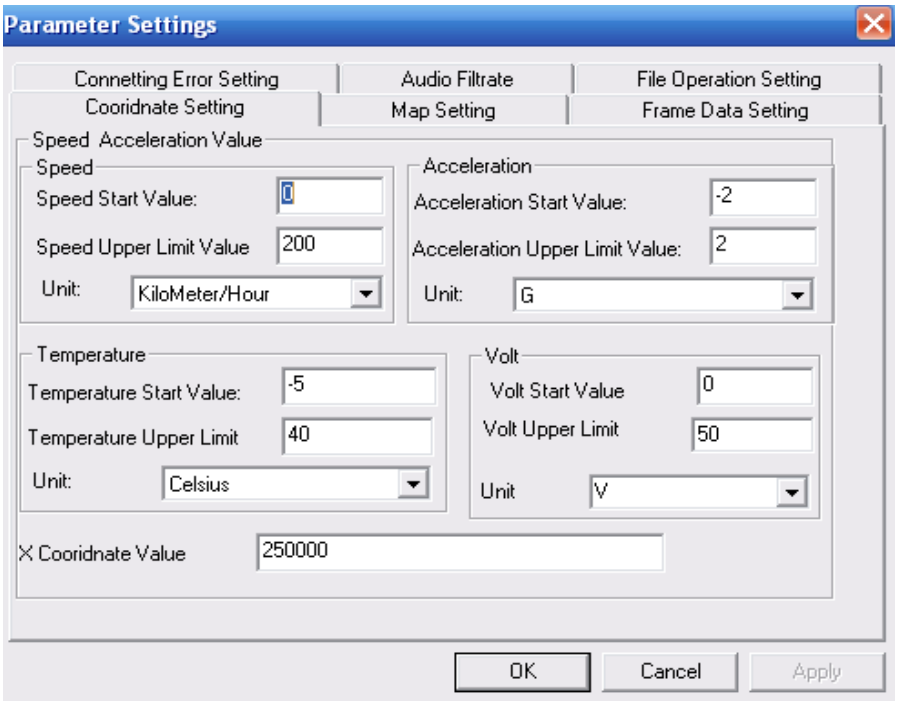


1. Date Bottom: To select the date that MDVR recorded from the calendar. Generally, if this day MDVR recorded, it is selectable in the calendar.
2. Hour Bottom: The time when the video recorded. Red in bottom refers to this time have the record.
3. Minute bar: The 60 minutes in this hour.
4. Player process line: The bar shows the process when playing video. When the line in grey, it refers to no record in this period; in red, refers to alarm record; in green, refers to normal record.
5. Record information: display the time and date for the video file
6. Operation buttons: from left to right are Play, pause, stop, play last frame, play next frame, decrease play rate, increase play rate, skip to next available rate, display all channel in the window, delete the selected channel in window, capture snapshot, start operation (To start cut the clip), end to cut the clip, delete the clip, convert the clip to AVI format.
7. Hide Bottom: Fold or unfold the play bar when you press it. If you hide all the operation bar, then the screen for video playback will be bigger.
8. Volume control bar

5.2 Setting

5.2.1 Parameter Setting

Select the ‘parameter setting’ in menu bar, and pop up the window as follow,



a) Coordinate setting

In this table, set the suitable value and unit to analyze the relevant data express by the Speed/Acceleration/Alarm/Temperature table.

Simulant Value:

1) Speed

Speed Start Value: Set the start value that display in the Speed/Acceleration table.

Speed Upper Limit Value: Set the limited value that display in the Speed/Acceleration table.

Unit: Speed unit. Kilometer/Hour and Mile/Hour are available.

2) Acceleration:

Acceleration Star Value: Set the start value that display in the Speed/Acceleration table.

Acceleration upper Limit Value: Set the limited value that display in the Speed/Acceleration table.

Unit: Acceleration unit. G is available.

3) Temperature

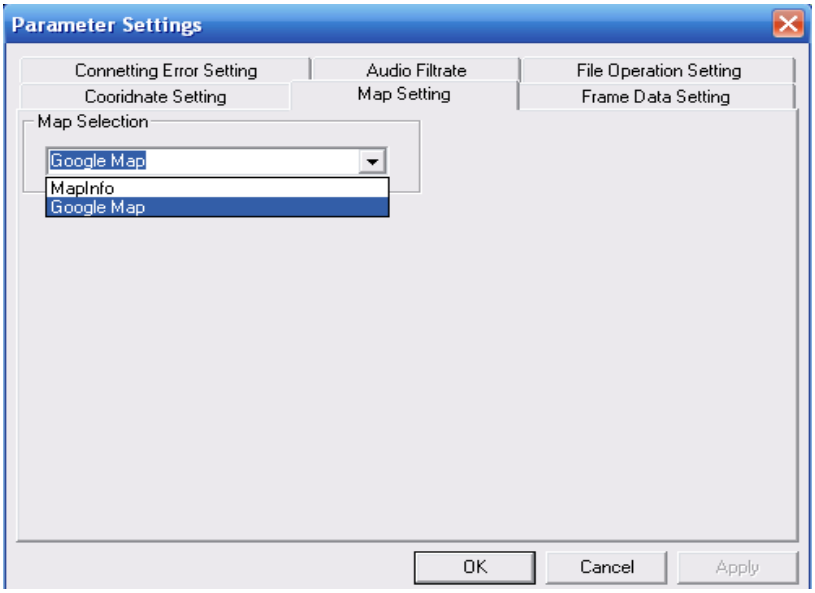
Temperature Start Value: Set the start value that display in the Temperature/Alarm table.

Temperature upper Limit Value: Set the limited value that display in the Temperature/Alarm table.

Unit: Temperature unit. ℃ & F are available.

b) Map Settings

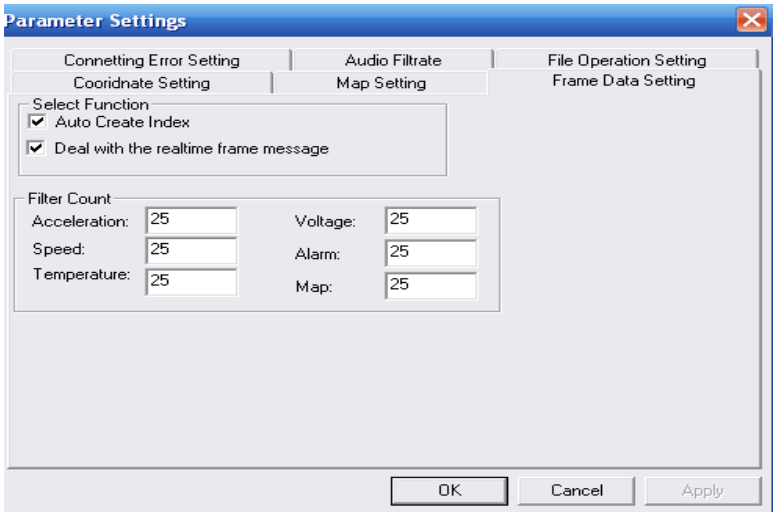
You can choose the map format in this part, when you change the map format, it will remind you to restart the software, and the default map format is Google Map.



c) Frame data Setting

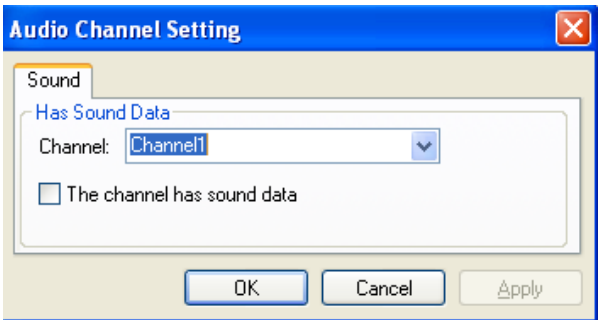
You should select the Auto Create Index selected, or else it can't show the speed value and tracing line on the map when playback the video.

D) And the other options, such as Audio Filtrate, Connecting Error Setting and File Operating Setting just use the default value, no need to setup.



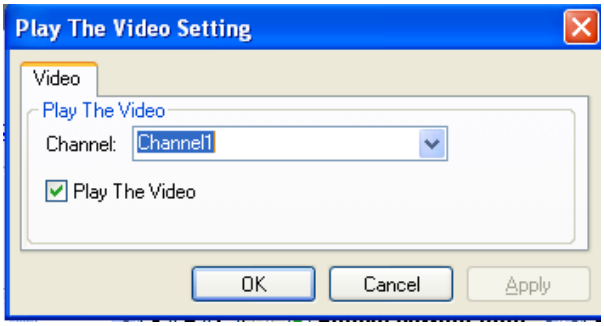
5.2.2 Audio channel setting.

When playback the video file, pause it, then you can select the channel which have audio input, and then apply, so you can playback audio and video synchronously. The default setting is no channel open audio.



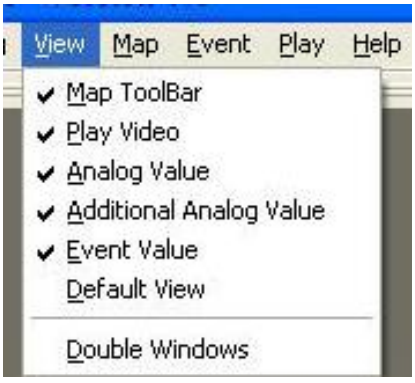
5.2.3 Play the video setting

The default setting is opened 1~4 channel, you can select the channel you want to playback, such as you can only open channel1 or channel2.



5.3 View

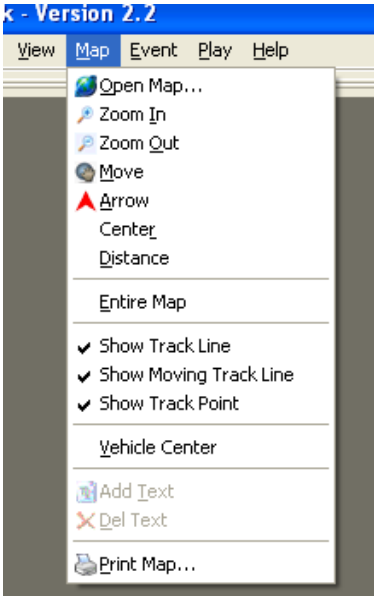
Click the 'View' in menu bar



a) Map Toolbar: To hide or show the Map Toolbar in right of the interface for GPS map.
b) Play Video: To hide or show the play window and menu of the interface.
c) Analog Value: To hide or show the speed/acceleration table of the interface.
d) Additional Analog Value: To hide or show the temperature/alarm table of the interface.
e) Event Value: To hide or show the log table of the interface.
f) Default View: Return to default view.
g) Double Windows: To play record in double window.

5.4 Map

The Map window is on the right of the software interface. This menu function is same as the functions in Map Toolbars.

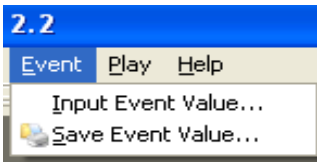


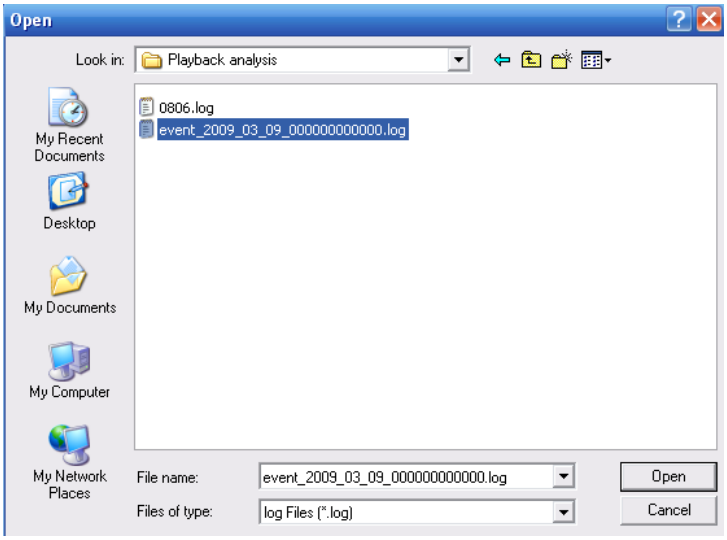
a) Open Map: open the map files from your folder. (.gst map file from MapInfo and google_map_en.html file from Google map)
b) Zoom In: Zoom in the map
c) Zoom Out: Zoom out the map
d) Move: When the cursor moves on the map, it turns to be a palm. Click the mouse and drag the map.
e) Arrow: The cursor turns to be an arrow.
f) Vehicle Center: Set the vehicle in the center of the map when the map flashes.
g) Add Text: add the mark in the map when click the site in the map.
h) Del Text: Delete the added text in map.
i) Print Map: print the map in current page.

Print map for printing what is display on the map, not the whole map. But you can move the map and choose which part you want to print.

5.5 Event

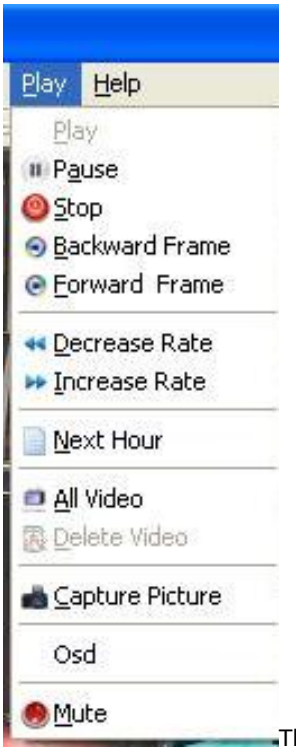
In this menu, you can input the event value and export the log table into a excel format.
a) Input event value: open an event value from a path. (Usually it is .log files.)
b) Save even value: Save the current value and export to be a excel format





5.6 Play

The function of this menu is same as the operation buttons in the play bar.



The function of extra menu strip in it is as following,

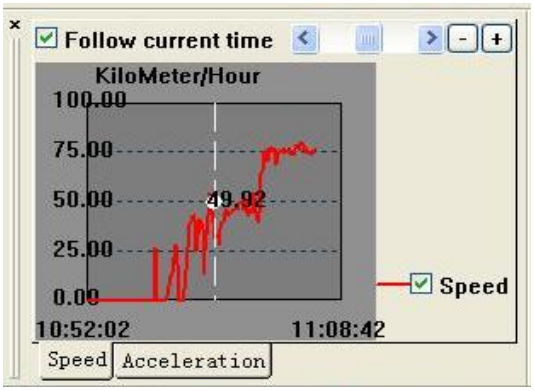
OSD: Display the channel name of each channel when playback.
Mute: Set the volume to be mute.

5.7 Speed/Acceleration Table

5.7.1 Speed Table

Information in this table shows the speed of the vehicle when playback.

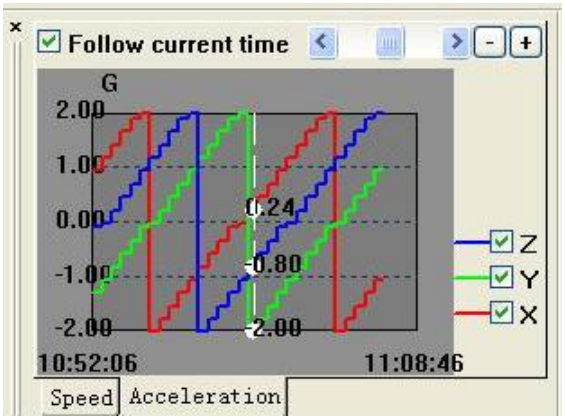
a) The red line is the speed value curve in the period vehicle has run.
b) The white spot shows the current speed value.
c) Click '-' or '+' to fuzzy or exact analysis the data.
d) Set the spot of current time in the center of the table when select 'Follow current time'.



5.7.2 Acceleration Table

Information in this table shows the info of inertia sensor when playback.

a) The red, green and blue lines are respective the acceleration value curves of X,Y & Z of inertia sensor in the period vehicle has run.
b) The white spot shows the current acceleration value.
c) Click '-' or '+' to fuzzy or exact analysis the data.
d) Set the spot of current time in the center of the table when select 'Follow current time'.

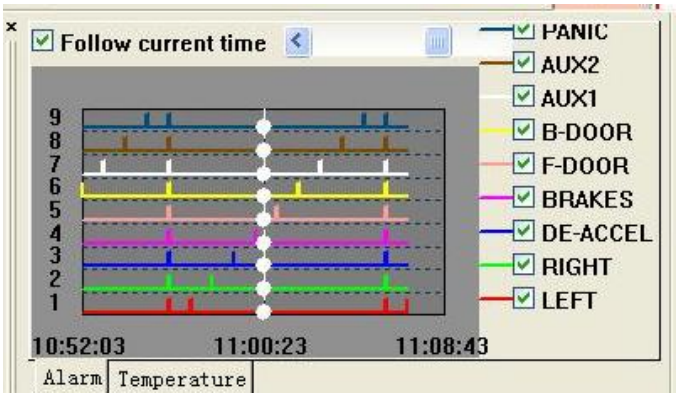


5.8 Alarm/Temperature Table

5.8.1 Alarm Table

Information in this table shows the alarms event of all sensors when playback.

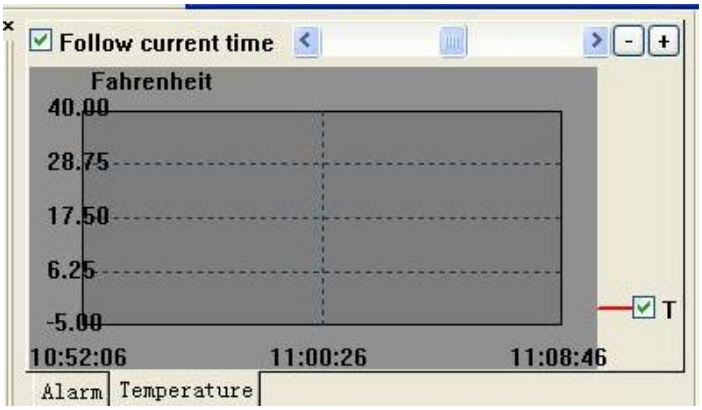
a) Different color line refers to different sensor, and when there is an alarm in the sensor the flat line has rise in this time.
b) The white spot shows the current alarm value of the vehicle (Triggered or non-triggered).
c) Click '-' or '+' to fuzzy or exact analysis the data.
d) Set the spot of current time in the center of the table when select 'Follow current time'.



5.8.2 Temperature Table

Information in this table shows the temperatures of hard driver in mobile DVR when playback.

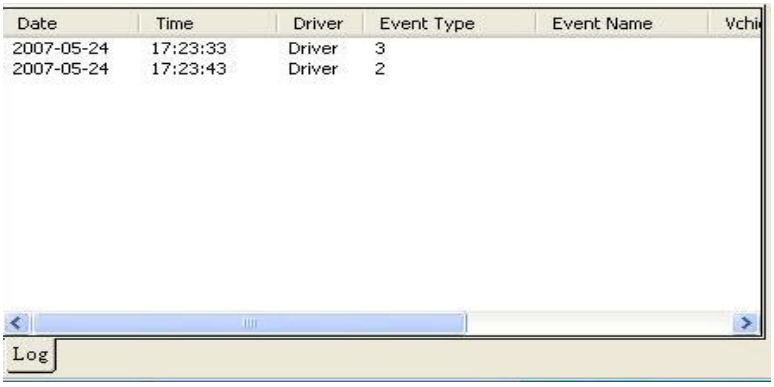
a) Red line refers to temperature curve in the period that vehicle has run.
b) The white spot shows the current temperature value of the vehicle.
c) Click '-' or '+' to fuzzy or exact analysis the data.
d) Set the spot of current time in the center of the table when select 'Follow current time'.



5.9 Event Table

When user play the record in hard driver of MDVR, the event log file (the current month) will open

automatically.



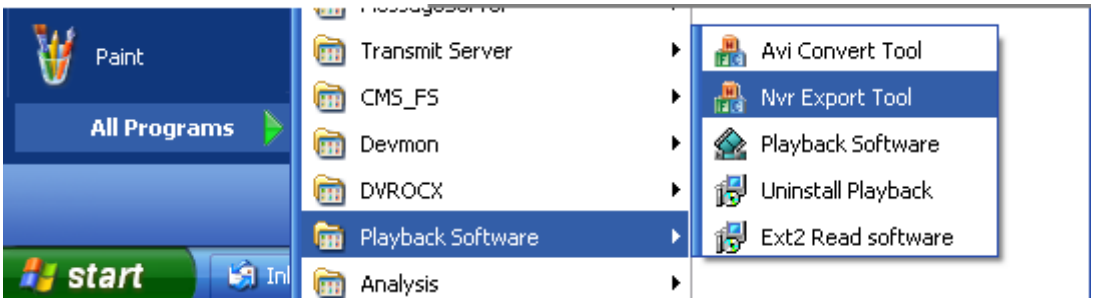
Appendix:

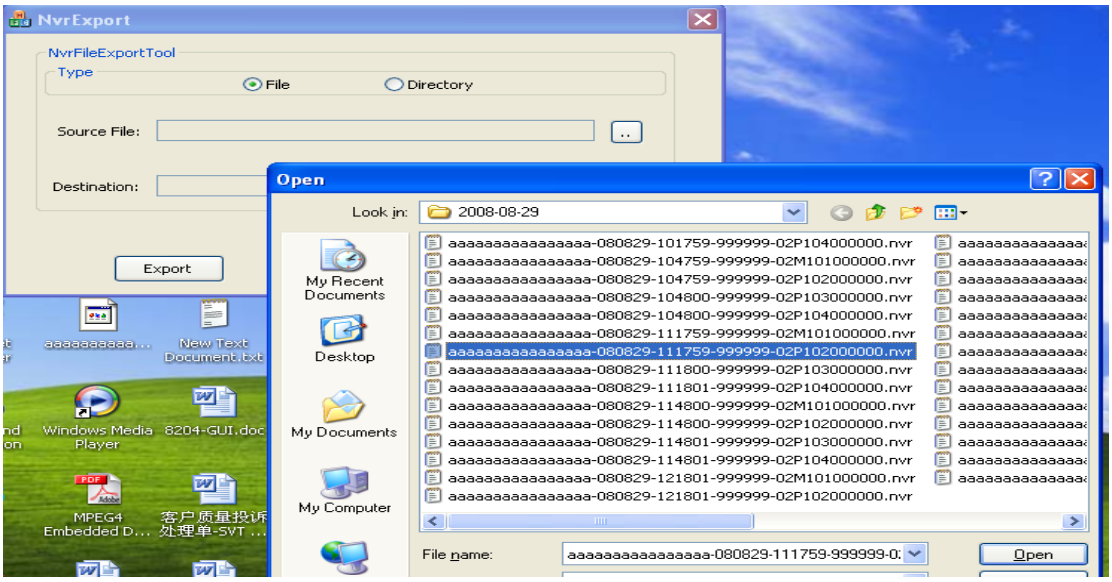
Guideline for Export the record file

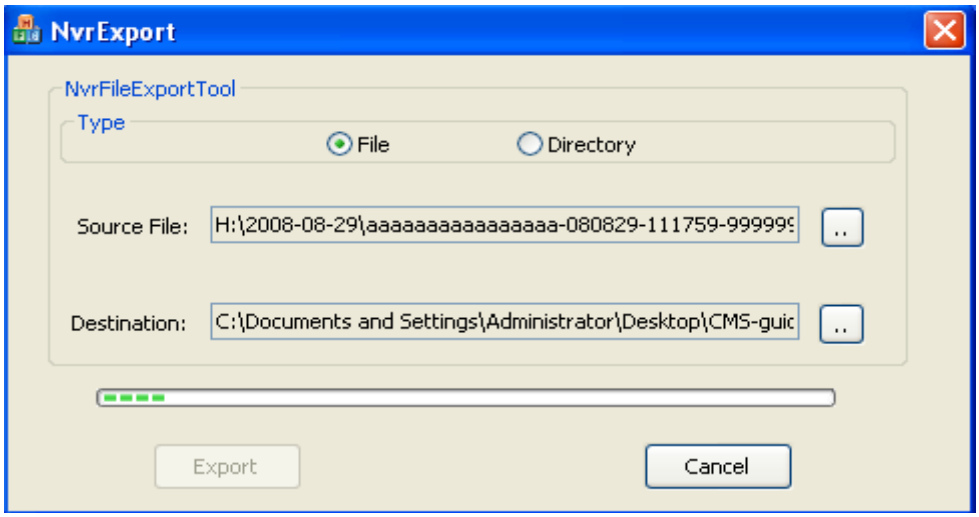
1. Firstly, export '.nvr' file from SD card, make sure select right path you want to backup, if you select 

, means export the file one by one or export several files you want, if you select 

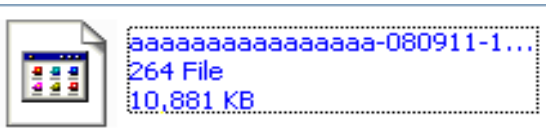
, means you can export the whole folder.



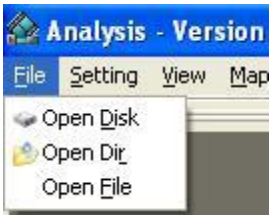


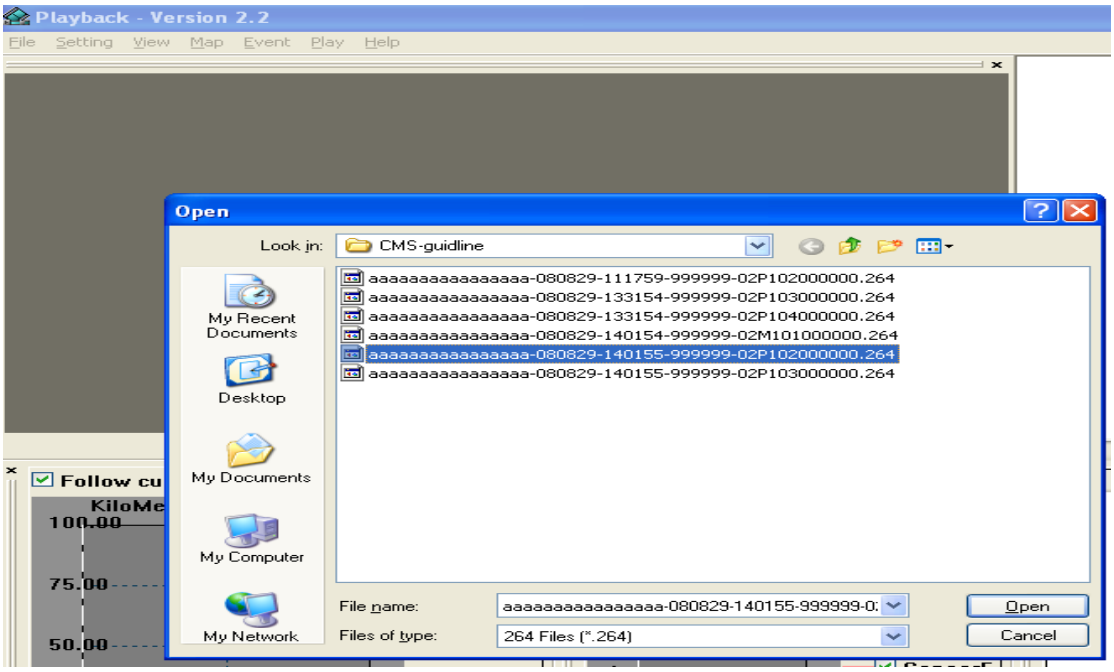


If you select the right path, then press export and it will export the file automatically, the exported file is ".264" format

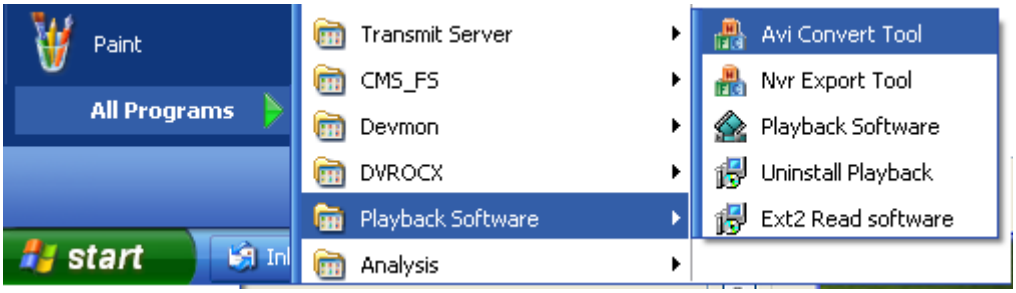


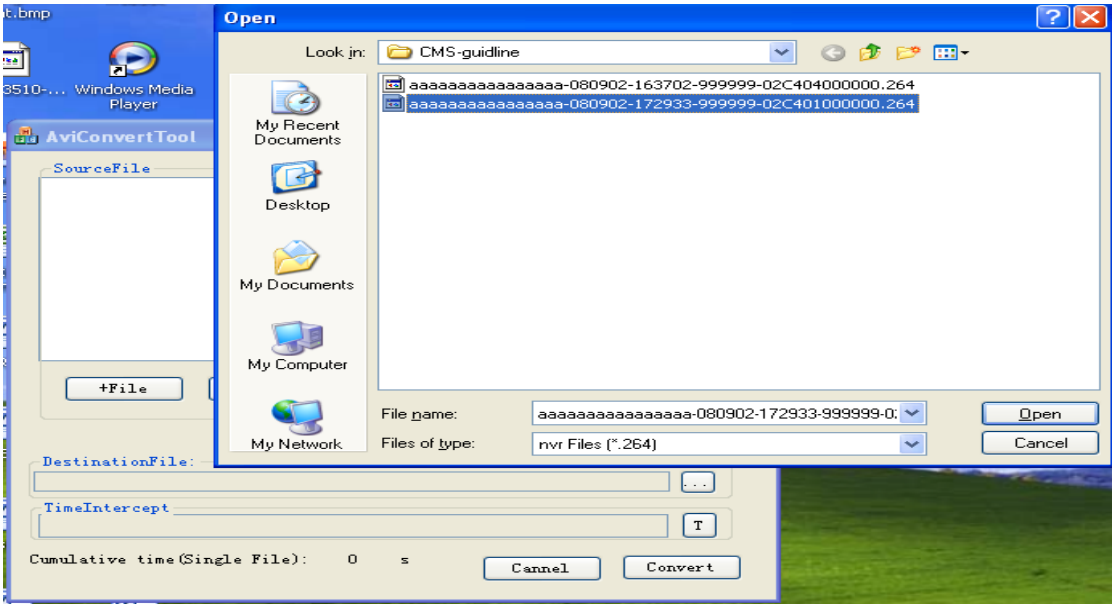
2. Secondly, after exported the file you want to playback, you can run the playback analysis.exe, then open the file you just exported to playback.

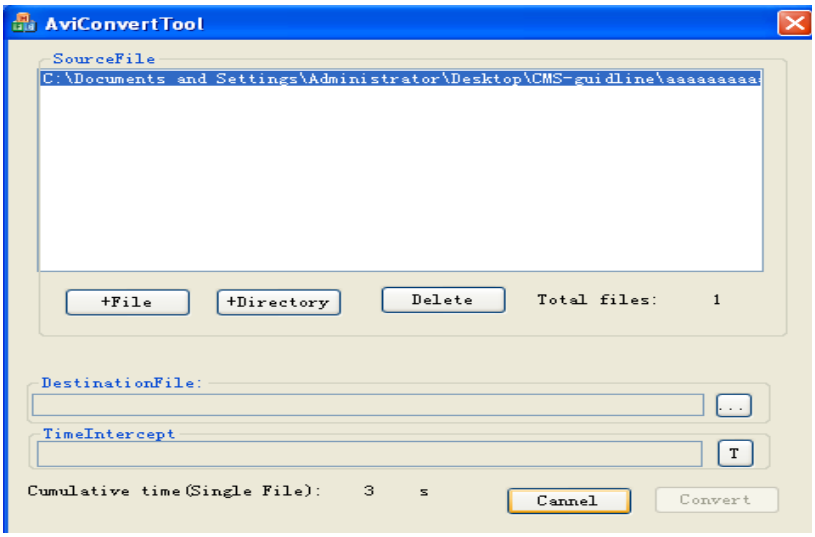




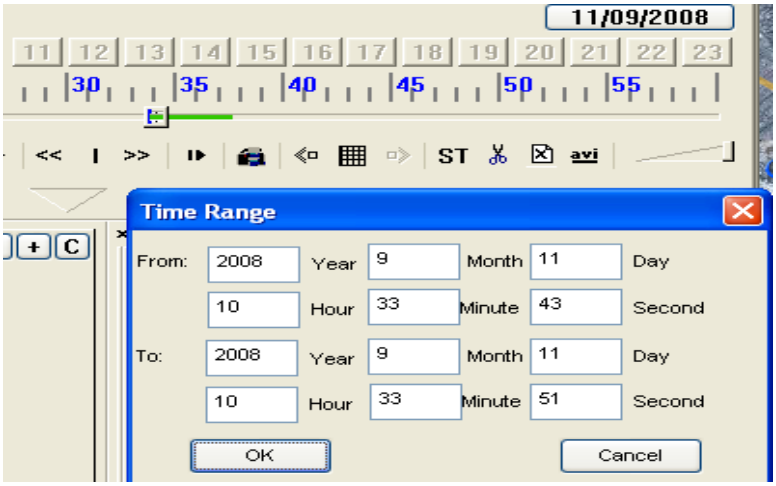
3, you can also convert the .264 file to .avi file, as follow:



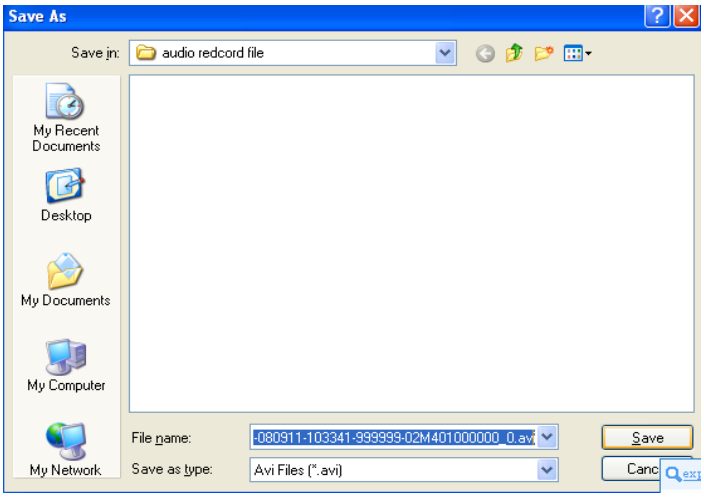


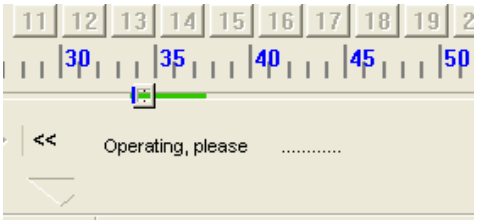


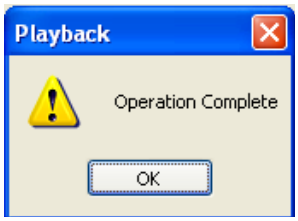
4. You can also convert the .264 file to .avi file on playback software, as follow: After opened the record file, then click the **ST** button, and then click avi button, it'll pop-up the box as follow, you can select the time period you want to convert.



When you press ok, it will remind you to select a save path.







When operation complete, you can see the .avi file in the save path.