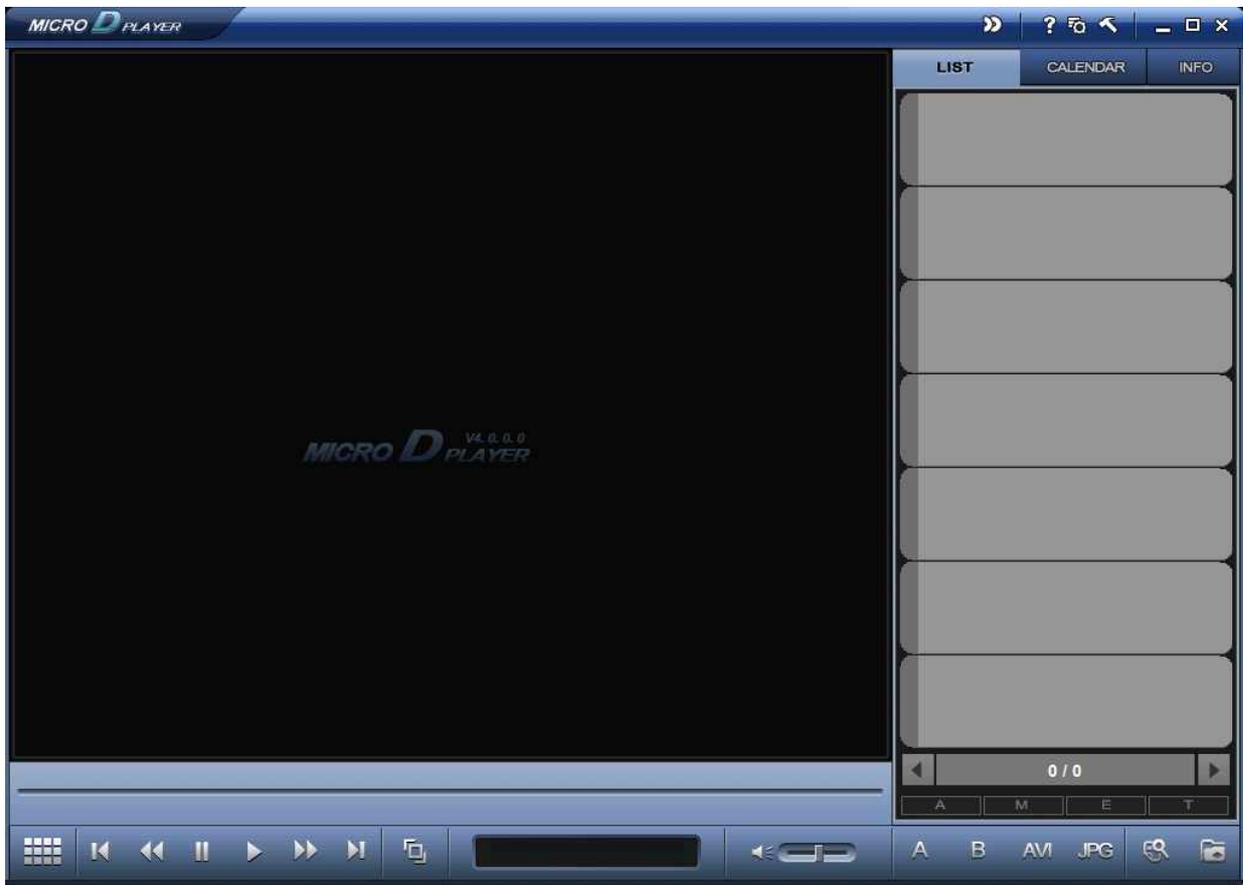


Micro D Player User's Manual



※ The contents of the manual can be modified without prior notice to customers

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Chapter 1: REQUIRED SPECIFICATION OF PC AND OS

ITEM	Recommended Specifications
CPU	Intel Pentium 4 CPU more than 3.00GHz
Main Memory	1GB
VGA CARD	MEMORY: More than 64MB / DAC: Above 350MHz
O/S*	Windows XP , Windows Vista, Windows 7
DirectX	Above DirectX 9.0C
Resolution	More than 1,024 X 768

Chapter 2: SUPPORTED O/S

- ✓ Windows XP
- ✓ Windows Vista
- ✓ Windows 7

Chapter 3: PROGRAM INSTALLATION

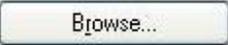
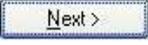


PIC. 3.1 MICRO D PLAYER SETUP WIZARD

1. Insert the installation CD into your PC.
2. Click a setup file and the install shield wizard window will appear.
3. Click 'Next' Button.



PIC. 3.2 SELECT INSTALLATION FOLDER

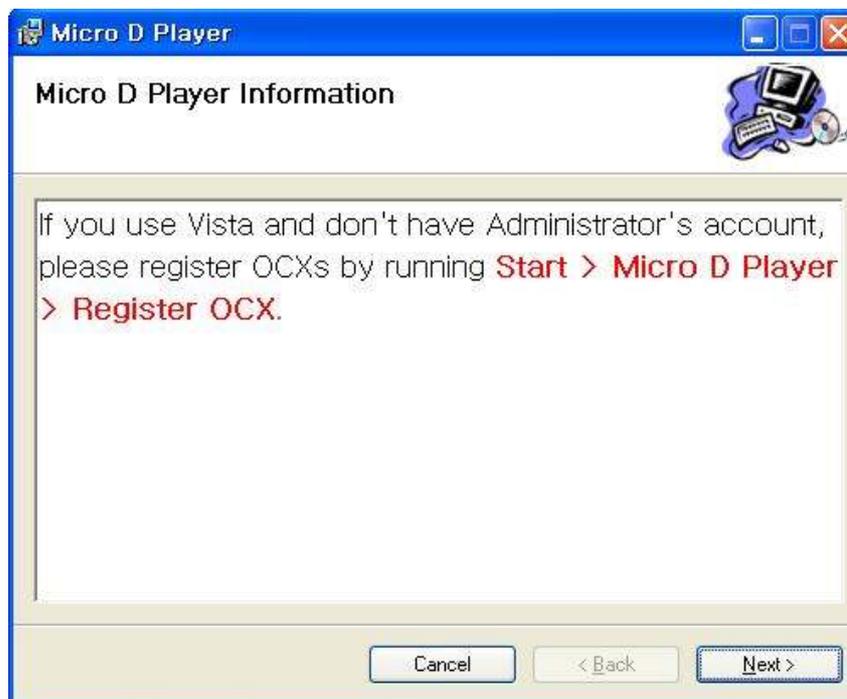
1. Then select the folder where the program is to be installed. Click  Button to change the designated folder.
2. To install in the default folder, click  button.
3. Start Installing



PIC. 3.3 CONFIRM INSTALLATION

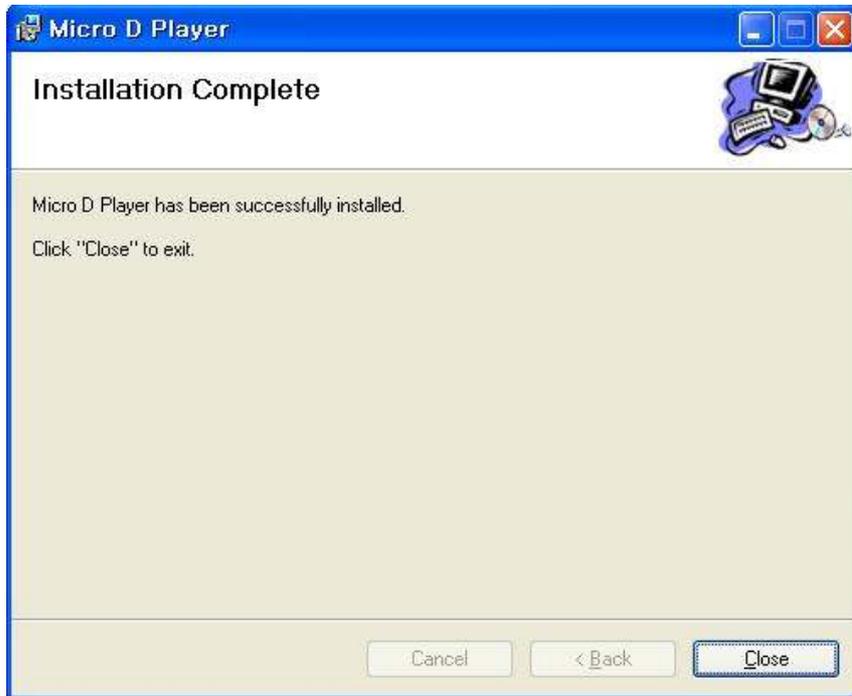


PIC. 3.4 INSTALLING MICRO D PLAYER

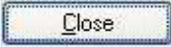


PIC. 3.5 MICRO D PLAYER INFORMATION

Users who is using windows Vista or Windows 7 Operating System without Administrator's account should register OCX as shown in the picture 3.5.



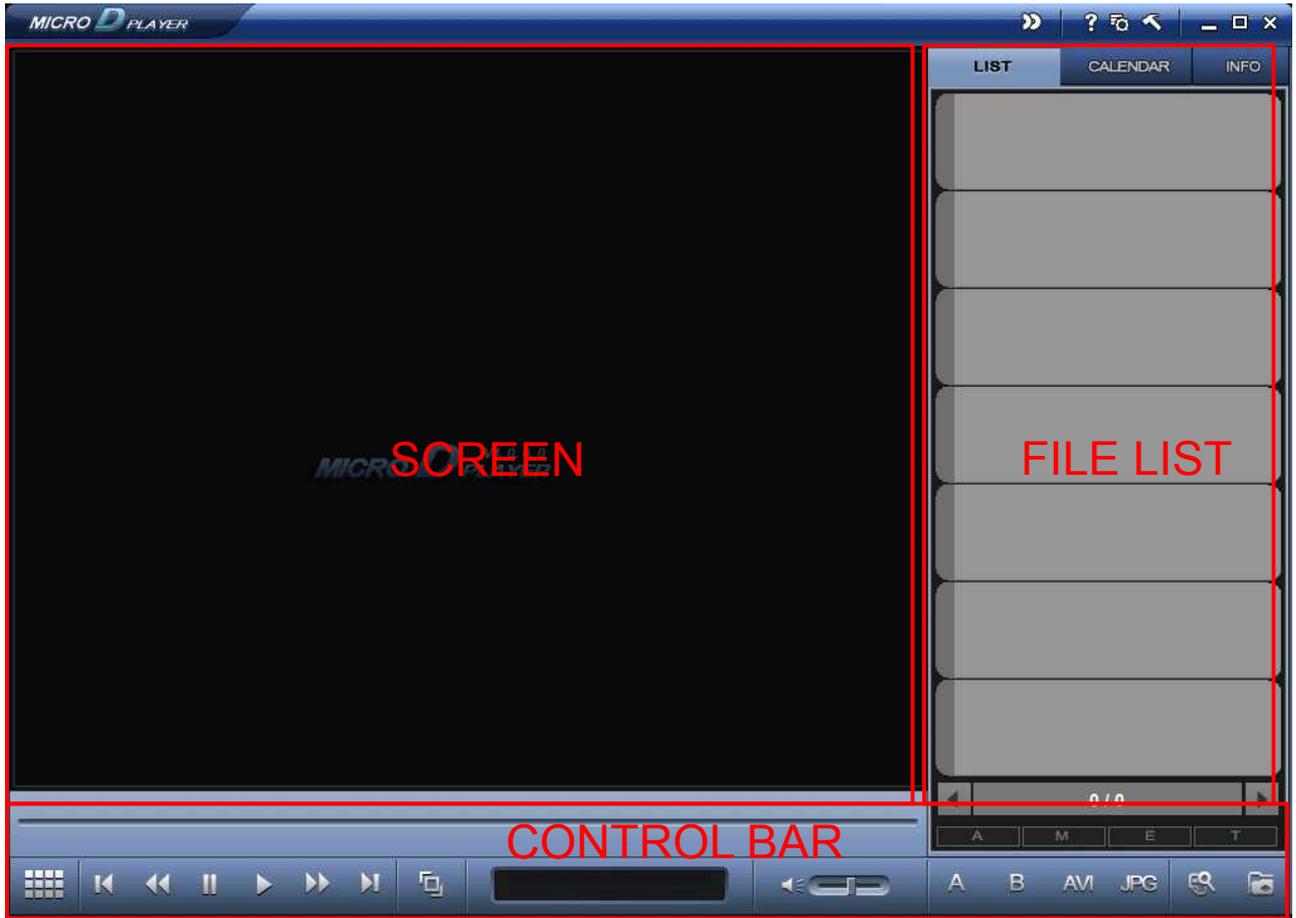
PIC. 3.6 INSTALLATION COMPLETED

When installation is completed click  button.

Chapter 4: HOW TO USE MICRO D PLAYER

After installation,  icon will appear on the desktop of your PC. Double-click the icon to run the Program, and then program will run as shown in [Pic. 4.1-1] below.

4.1 MICRO D PLAYER SCREEN



PIC. 4.1-1. PLAYER SCREEN

	Minimize Window / Maximize Window / Close Window
	Open the selected File Folder
	Open the selected files
	Screenshot (JPEG file)
	Convert to AVI file (section A and B)
	Setup AVI File End Point
	Setup AVI File Start Point
 ① ② ③ ④ ⑤ ⑥	① Frame Back ② Rewind(-2X/-4X/-8X/-16X) ③ Pause ④ Play ⑤ Fast Forward(2X/4X/8X/16X) ⑥ Frame Forward

	Show images at the interval of 1/2/3/5/10/20/30/60 Sec
	Change Video Ratio
	Alarm Event
	Motion Event
	Emergency Event
	Time Event
	Shift the file list to Backward and Forward (Current list Page/ Entire list Page)
	A scale displays at the intervals of 5 min/10min
	Event indicator: It displays the points where events occur. The events can be triggered by motion or sensor input.
	Sound control bar.



MICRO D PLAYER MENU

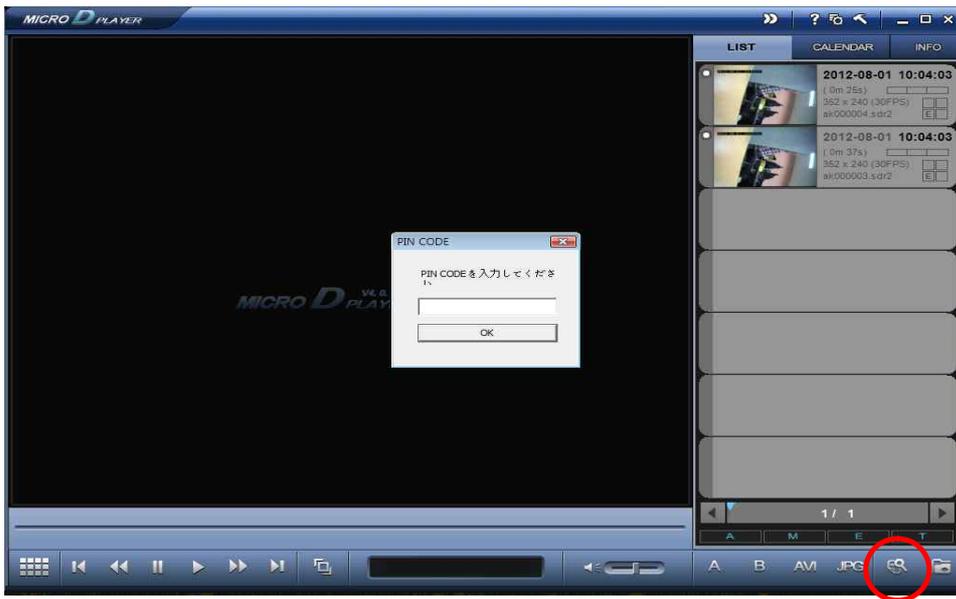
- ① Thumbnail: The first frame is used as thumbnail image.
- ② File Property Icon
 - A: Activated when the SDR2 file is generated by sensor-trigger.
 - R: Activated when the SDR2 file is generated by emergency
 - M: Activated when the SDR2 file is generated by motion event.
 - T: Activated when the SDR2 file is generated by time event.
- ③ File Name
 - Display file name
- ④ File Recording Started Date and Time
 - File recording started Date and time is displayed as 'YYYY-MM-DD hh:mm:ss'.
- ⑤ File Playback Duration Time
 - Playback duration time for each recorded file is displayed as 'XX m XX s'.
- ⑥ Resolution and Framerate
 - Resolution and Framerate is displayed as 'XXX x XXX (XXFPS)'

PIC. 4.1-2. MOVIE LIST

4.2 OPEN

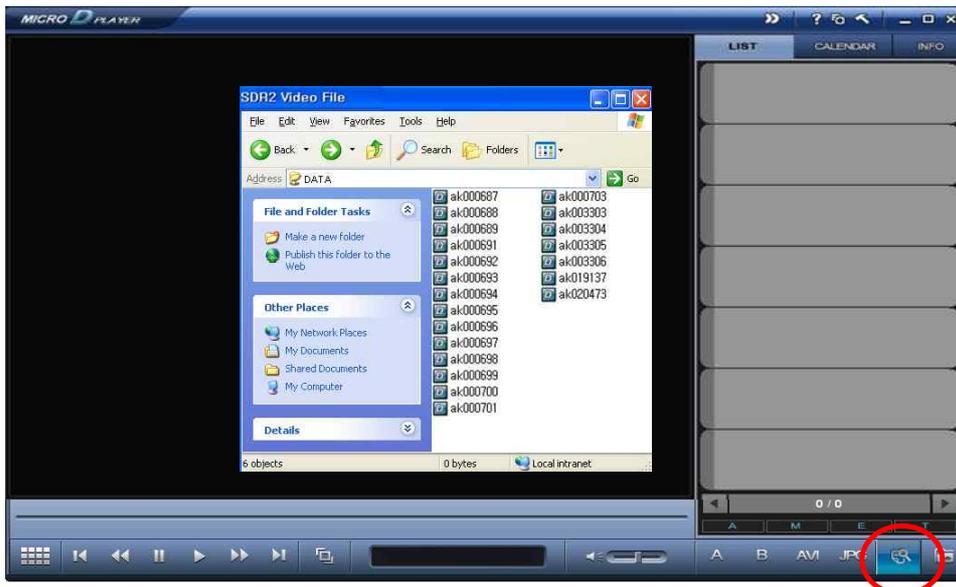
4.2-1 OPEN FILES

1. Remove the SD card from the Micro DVR.
2. Insert the SD card into the SD card reader on your PC.
3. Click the  button (File Open) and enter into same 'PIN CODE' when you made in sub menu.
(If you skip PIN CODE process initial setting stage, you are requested to pass PIN CODE procedure).



PIC. 4.2-1 OPEN FILES

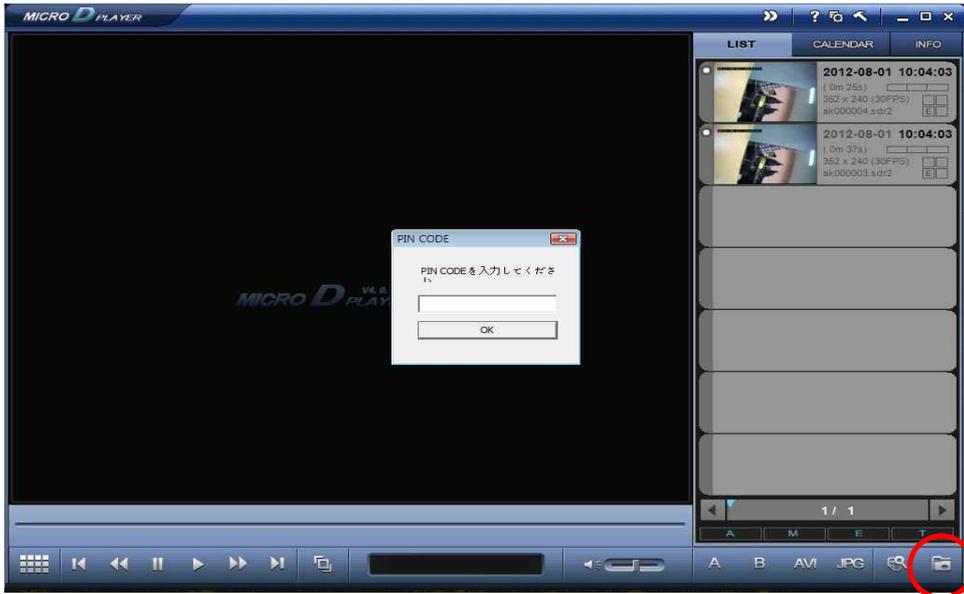
4. Choose an 'sdr2 file' from SD card or a folder from the pc.



PIC. 4.2-2 OPEN FILES

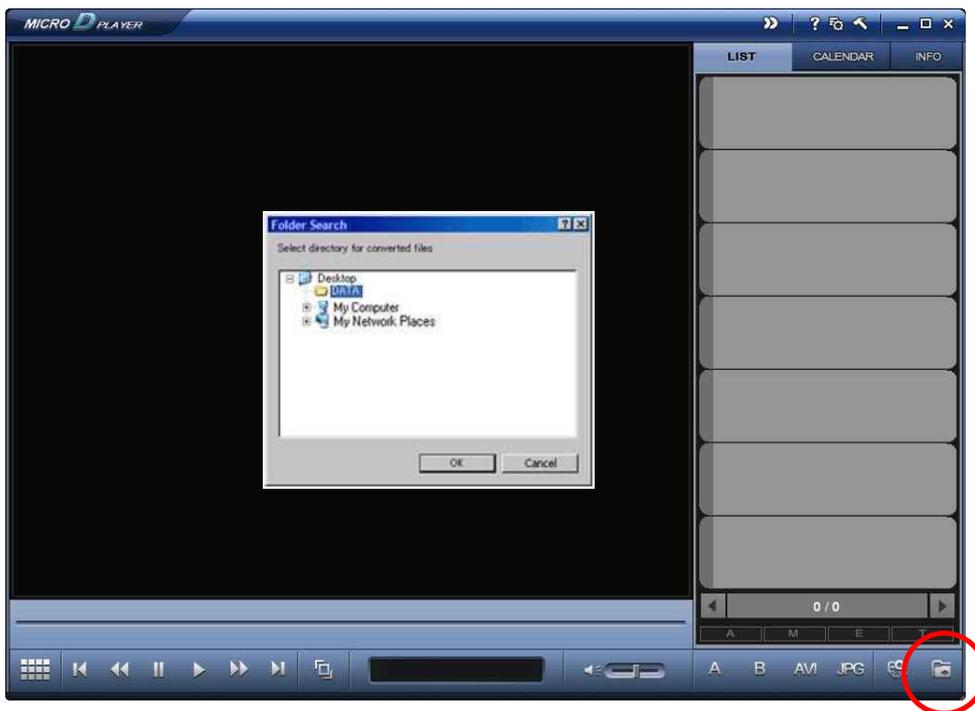
4.2-2 OPEN FOLDERS

1. Click the  button (Folder Open) and enter into same 'PIN CODE' in case you made in sub menu.
(If you skip PIN CODE process initial setting, you are requested to pass PIN CODE procedure).



PIC. 4.2-1 OPEN FOLDERS

2. Click  button to bring data from PC or USB drive.



PIC. 4.2-2 OPEN FOLDERS

4.3 PLAYBACK

4.3-1 PLAYBACK AS SDR2 FORMAT



PIC. 4.3-1 PLAYBACK SDR2 FORMAT

LIST FILE displays as pic.4.3-1 when open SDR2 files. Click the thumbnail to playback the file. Displays Time of current playback file by 'YYYY/MM/DD HH:MM:SS' on the middle of the table below.

※Attention: Click right mouse button on the time display area and choose 'Read from right to left'. Time display status changes from 'YYYY/MM/DD HH: MM: SS' to 'HH: MM: SS' YYYY/MM/DD'



PIC. 4.3-2 DRAG BY MOUSE

User can see the extended playback image by using mouse left button. Designate the area for extension by using left side mouse button and blue square tool box appears on the part where user selected. Click the left side mouse button to return to original size. The smaller the size, the larger extended area will be shown.

※ Attention: Click right side mouse button onetime on the playback image to see it in full screen.



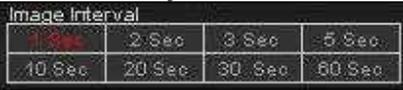
PIC. 4.3-3 EXTENDED STATUS

4.3-2 PLAYBACK PREVIEW



PIC. 4.3-2-1 PLAYBACK PREVIEW

Click  button for 'Playback Preview'. Refer to the table below for the details of each icon

	<p>Show images at the interval of 1/2/3/5/10/20/30/60 Sec</p>
 <p>① ② ③ ④ ⑤ ⑥</p>	<p>① Move to First page ② Move to the Previous page ③ Move to the Previous frame ④ Move to the Next frame ⑤ Move to the Next page ⑥ Move to Last page</p>
	<p>Automatically rotates 'Playback Preview' page as per selected Preview Speed</p>
	<p>Select 'Playback Preview' Page Transition Rate at the interval of 1/2/3/5 sec</p>

***Notice:** Upon pressing , please choose Image Interval Speed.

Click on a desired image on 'Playback Preview' page and then Pic. 4.3-2-2 is shown as below.



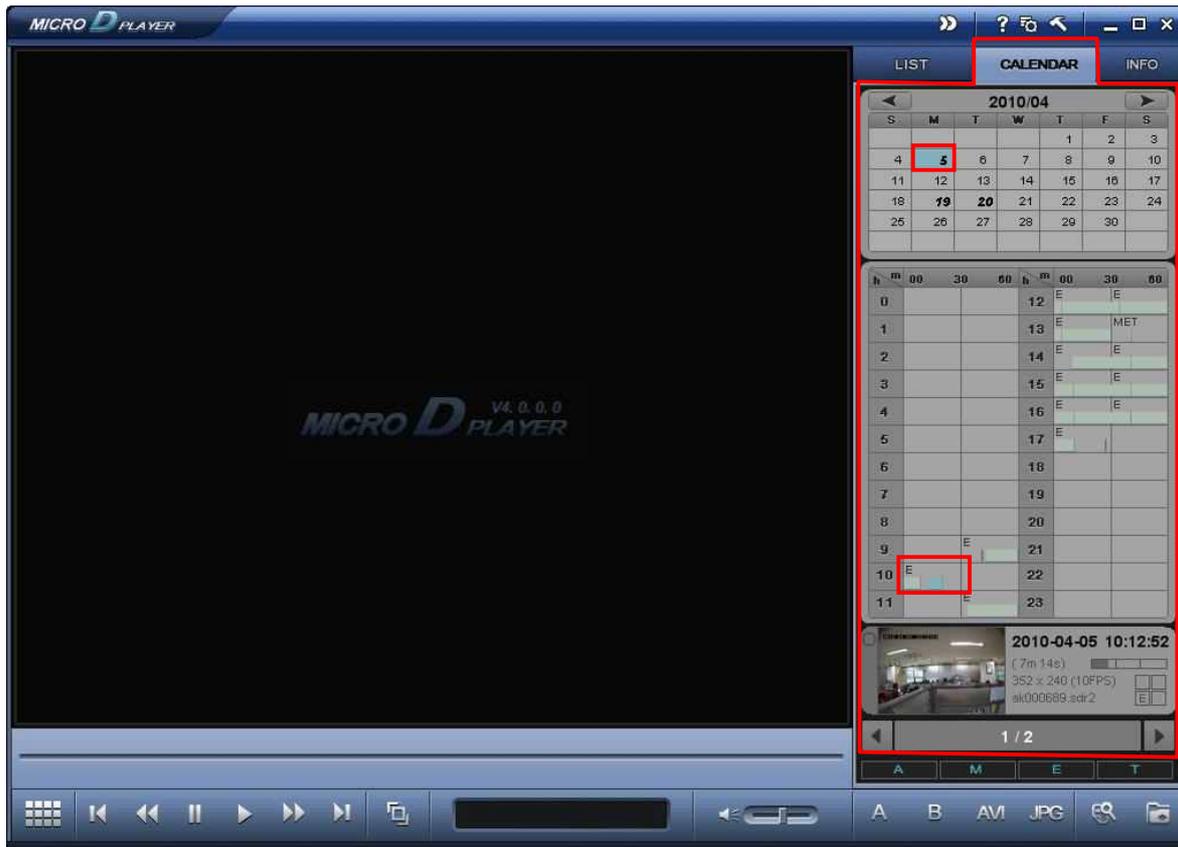
PIC. 4.3-2-2 PLAYBACK SINGLE FILE

Use ① and ② to check file images per frame.

	<p>Navigation</p>  <p>① ②</p>	<p>① Go to Previous frame ② Go to Next frame</p>
	<p>Back</p> 	<p>Return to 'Playback Preview'</p>
	<p>Video Play</p> 	<p>Playback from the current selected frame.</p>

4.3-3 PLAYBACK /SEARCH BY CALENDAR

Click **CALENDAR** and find the relevant data according to the date & time.



PIC. 4.3-3 -1 PLAYBACK /SEARCH BY CALENDAR

- ① Click **CALENDAR** and check the files categorized by date
- ② Below the calendar, time table and relevant data files display the recording contents.
- ③ Click the thumbnail to playback.

4.4 Convert

4.4-1 CAPTURING AS JPEG FILE



PIC. 4.4-1 CAPTURING AS JPEG FILE

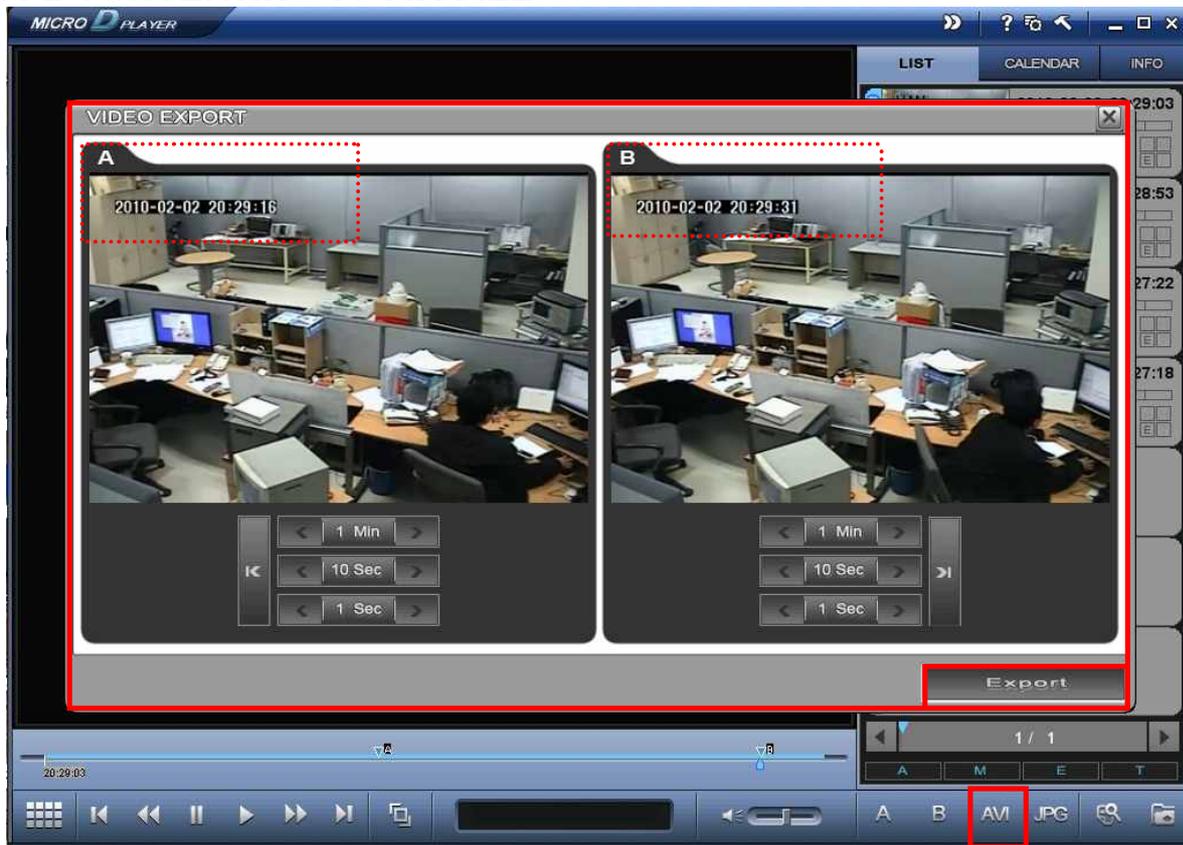
Click **JPG** button to convert the SDR2 file into JPG file. Click **Export** button to complete the process. The size of JPG image can be selected among 704*480(704*576)/352*240(352*288)/Original.

Caption: Users can insert the title for each JPG file.

Caption Position: the caption can be placed at one of 8 corners of display.

Select the position and press **Apply**. Press **Export** to save the JPG file in the designated folder.

4.4-2 CONVERTING TO AVI FILE



PIC. 4.4-2 CONVERTING TO AVI FILE

1. 'Video Export' window opens when click on  button. And it includes two monitor windows as shown in [Pic. 4.4-2].

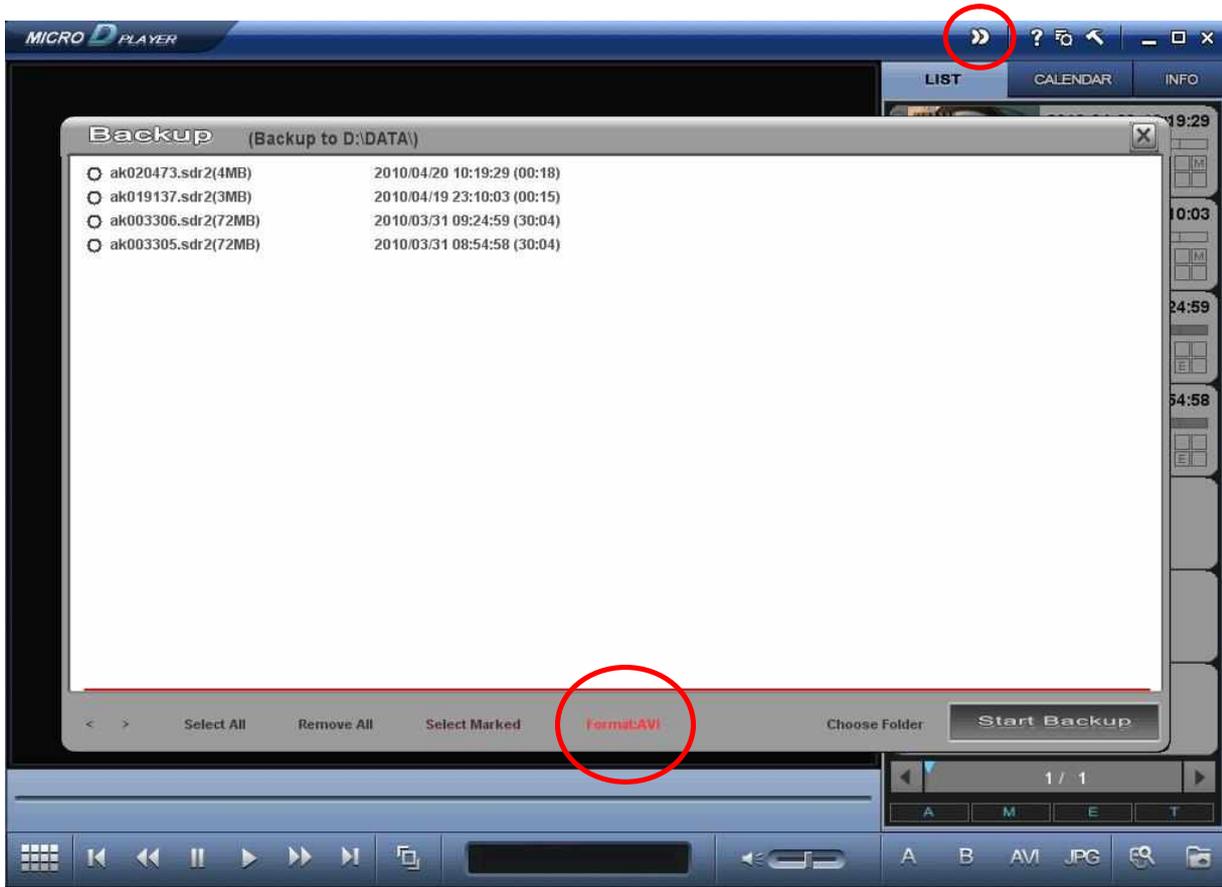


- ① Go to the First Frame
- ② 1 Min: Go to the Previous(Next) 1 Minute Image
- ③ 10 Sec: Go to the Previous(Next) 10 second Image
- ④ 1 Sec: Go to the Previous (Next) 1 second Image.
- ⑤ Go to the Last Frame

2. Select the section for converting to AVI FILE

If users click button , designated section A to B is saved as one independent file in AVI format.

4.4-2-1 BACKUP ALL FILES TO AVI FILES



PIC. 4.4-2-1 BACKUP ALL FILES TO AVI FILES

Click  button.

Selected file is indicated by  icon. Click  and choose the place for saving.

After selecting  AVI, press  button to save as AVI files.
Backup completed message appears in the screen once the process is done.

4.4-2-2 INDIVISUALLY CONVERTING TO AVI FILES



PIC. 4.4-2-1 INDIVISUALLY CONVERTING TO AVI FILES

Click  button and selected file will appear as PIC. 4.4-2-1. User can export a recording file to AVI format by selective section.

Click  button to export the selected file.

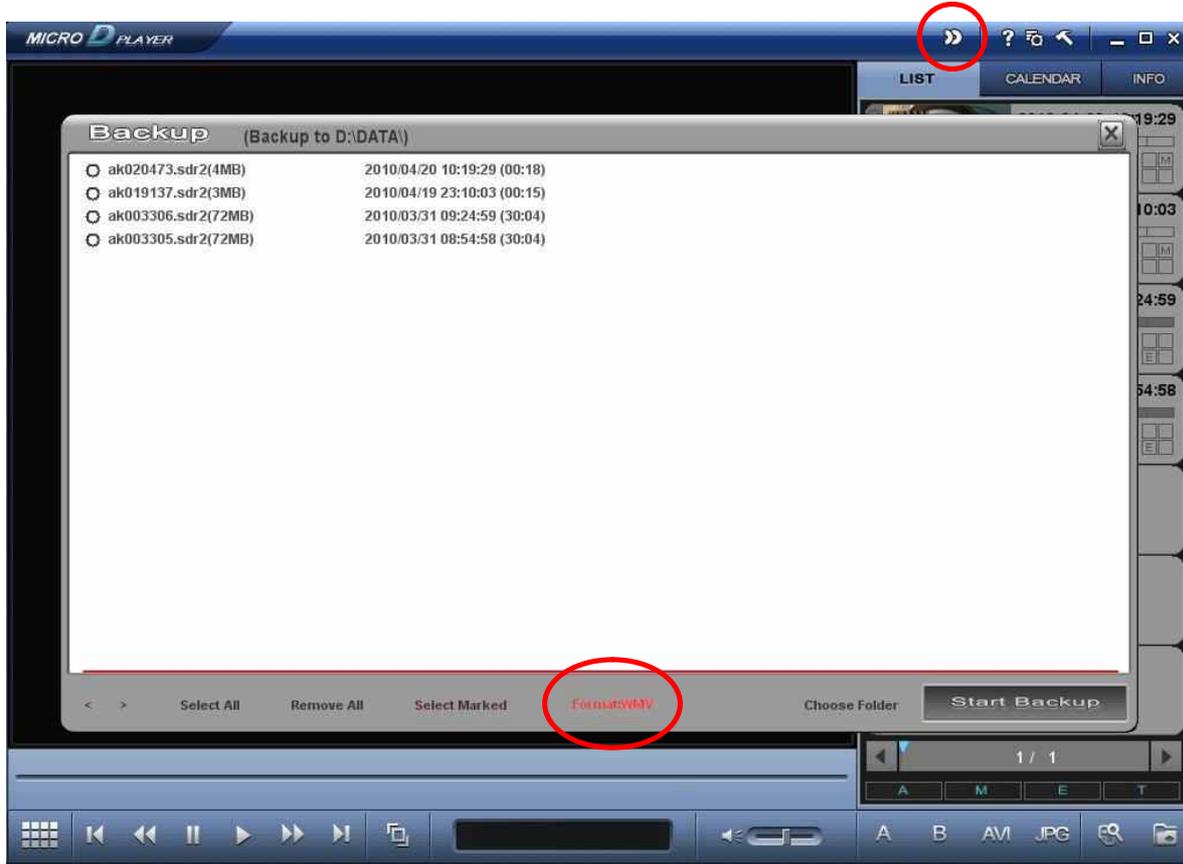
4.4-2-3 CONVERTING DESIGNATED SECTION TO AVI FILE



PIC. 4.4-2-3 CONVERTING DESIGNATED SECTION TO AVI FILE

Click **A** button to designate the start point and select the end point of AVI converting file by clicking **B** button. After starting point and end point is designated, **AVI** marks display on the bar. Click **AVI** button to complete converting to AVI file selectively.

4.4-3 CONVERTING to WMV FILE



PIC4.4-3-1 CONVERTING to WMV FILE

Click  button.

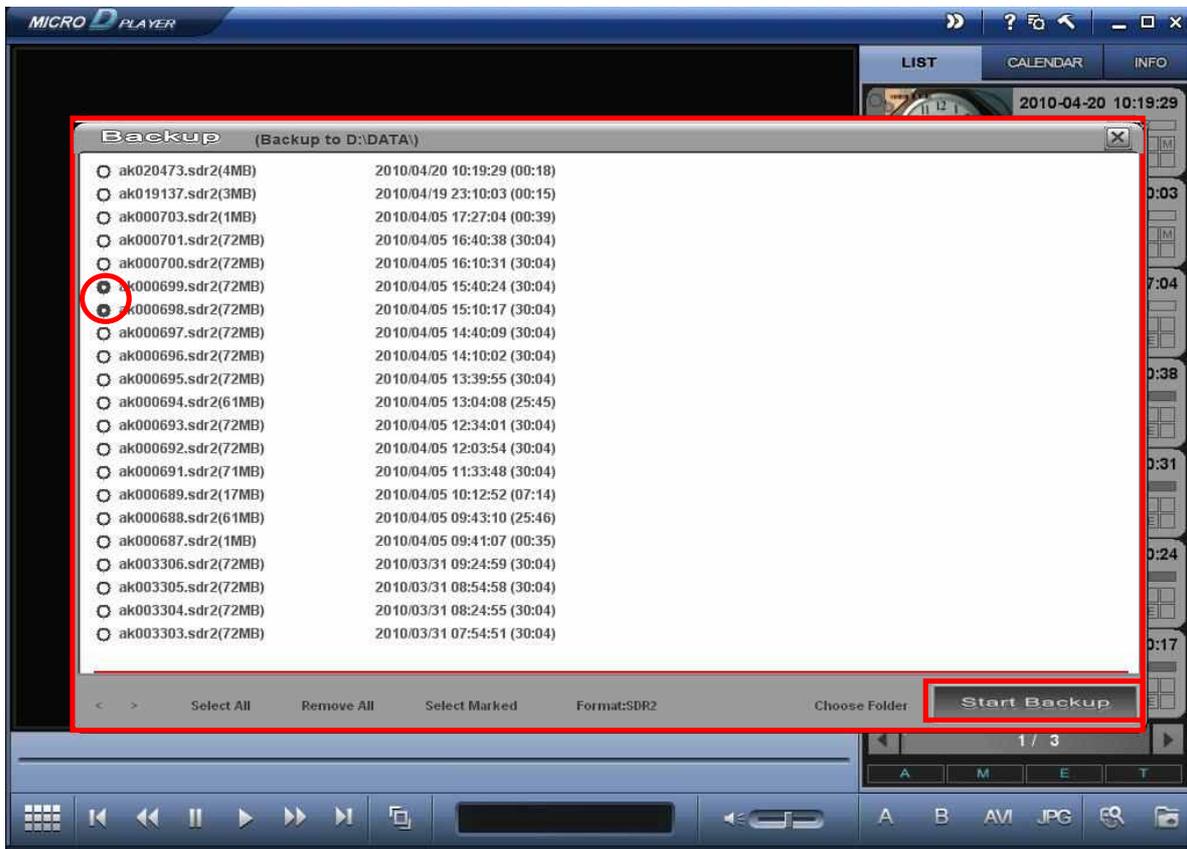
Choose  WMV and press  button to start backup as WMV file. Backup completed message appears on the screen once the process is done

5. BACKUP



PIC 5.1 BACKUP

'Thumbnail Circle' turns to white once user selects the thumbnail check button. Click  button.



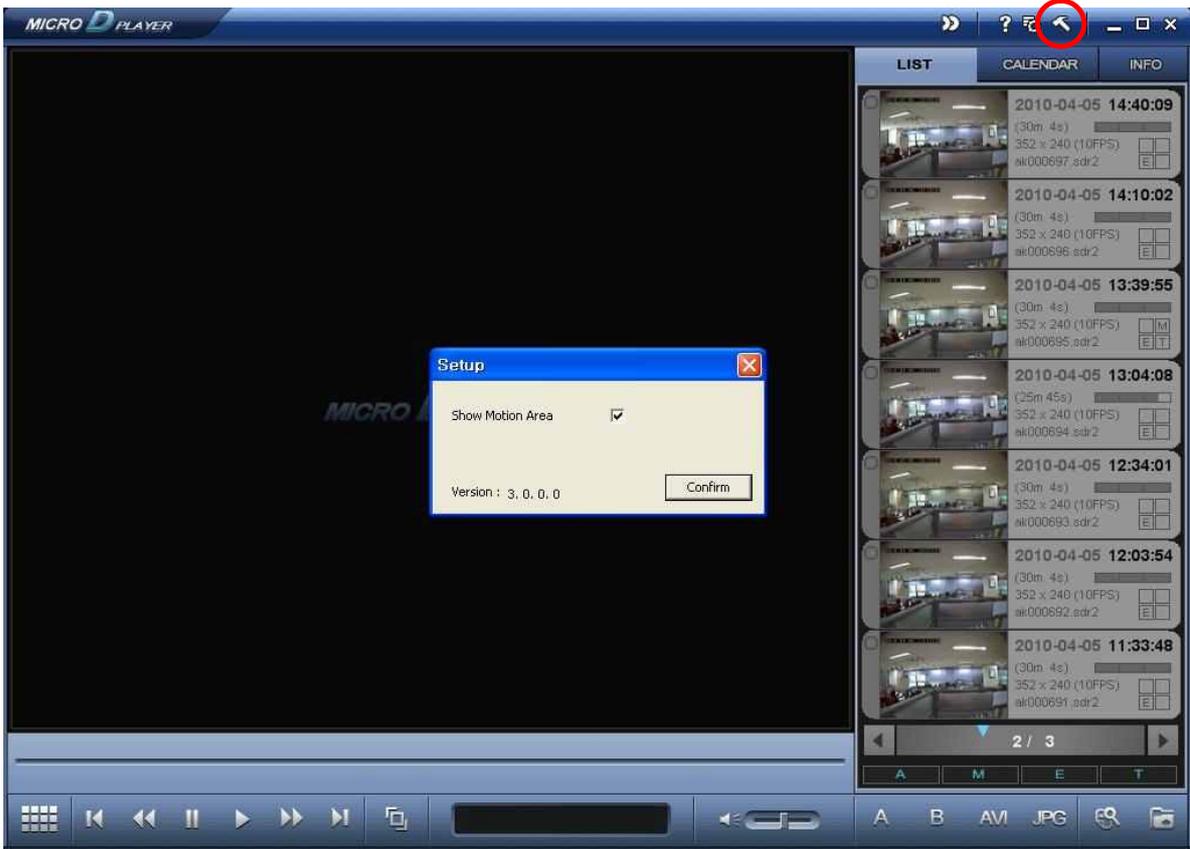
PIC5.2 BACKUP

Select All	Choose all the files
Remove All	Undo the 'Select All'
Select Marked	Book mark
Format:	Choose the format for exporting ; SDR2/ AVI/WMV file

Selected file is indicated by  icon. Designate the files for saving after clicking  button. After selecting , press  button to save as AVI files. Once procedure starts, progress appears on the screen in red as . Check the backup file from designated area after whole process is completed.

6. SETUP MOTION

6.1-1 DISPLAY MOTION

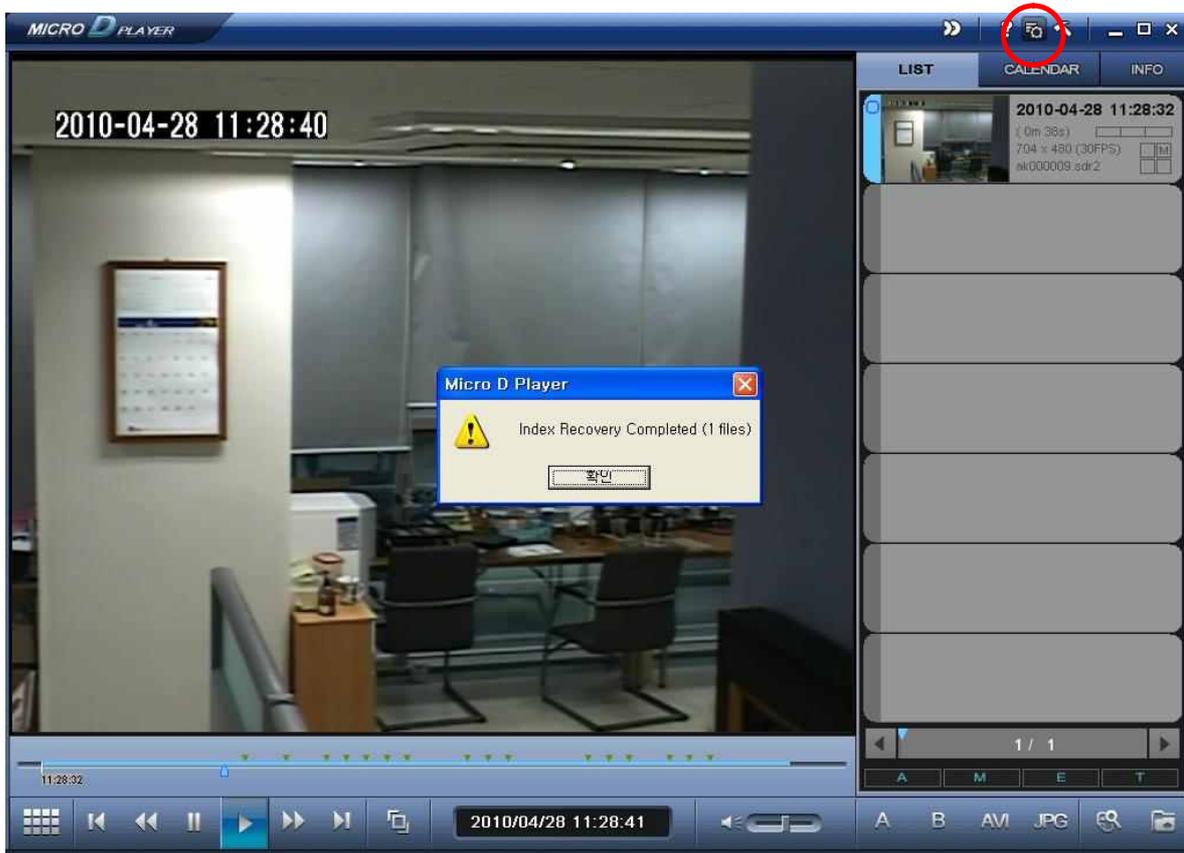


PIC. 6.1-1 DISPLAY MOTION



Click setup button  and check Show Motion Area to activate the motion mark. Check the checkbox to activate the motion mark and 'confirm'
Red motion marks appear on the screen whenever there is movement during playback the selected file.
To remove the motion marks, undo the checkbox and click

6.1-2 FILE INDEX RENEW



PIC 6.1-2-1 FILE INDEX RENEW

Press button  as shown in [Pic.6.1-2].

The 'FILE INDEX RENEW tool' has the same function as 'SUB MENU>FILE INDEX RENEW' provided as OSD menu from MICRO DVR.

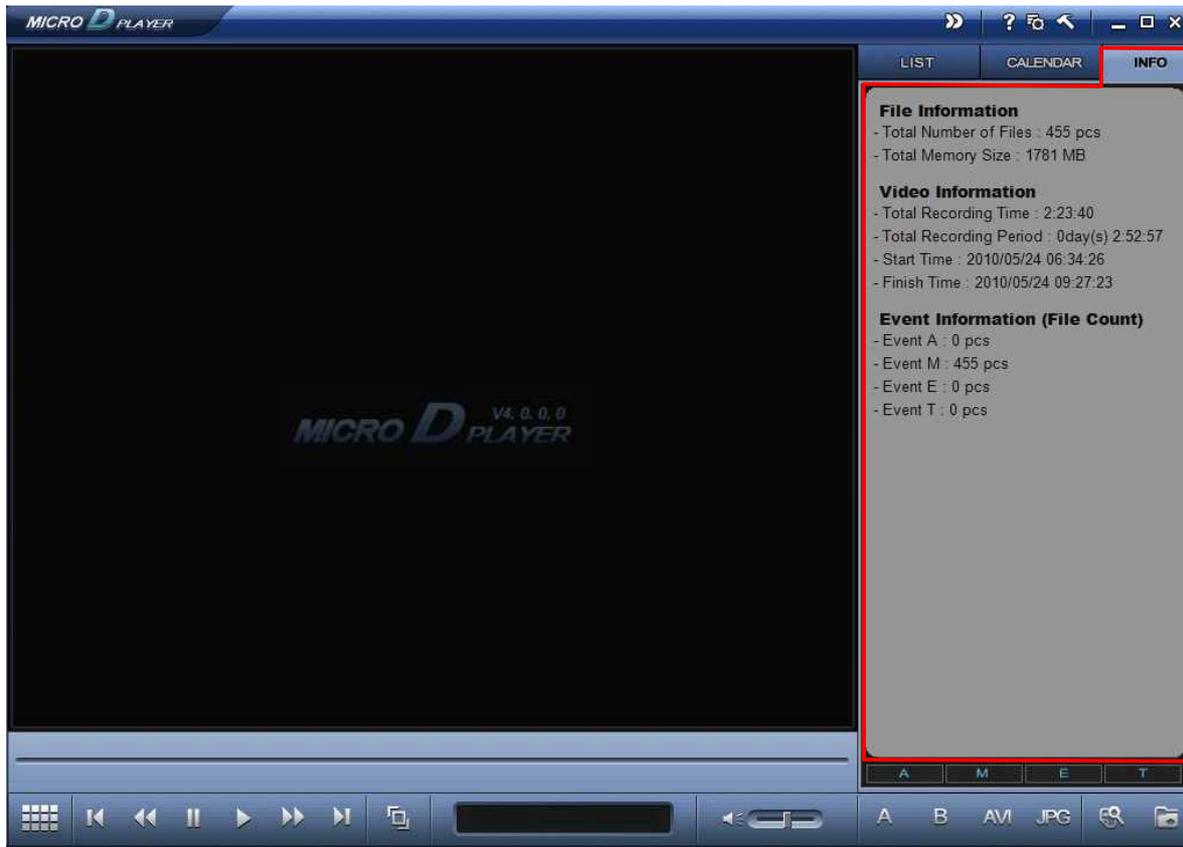
The index file is automatically generated and stored in the SD card when inserted into the Product.

If the index file does not match the files with stored files in the SD card, click  button to synchronize. While synchronizing, the process percentage is displayed on the screen.

7. LOADED FILE INFORMATION

To check the MICRO D PLAYER's data information, click

INFO

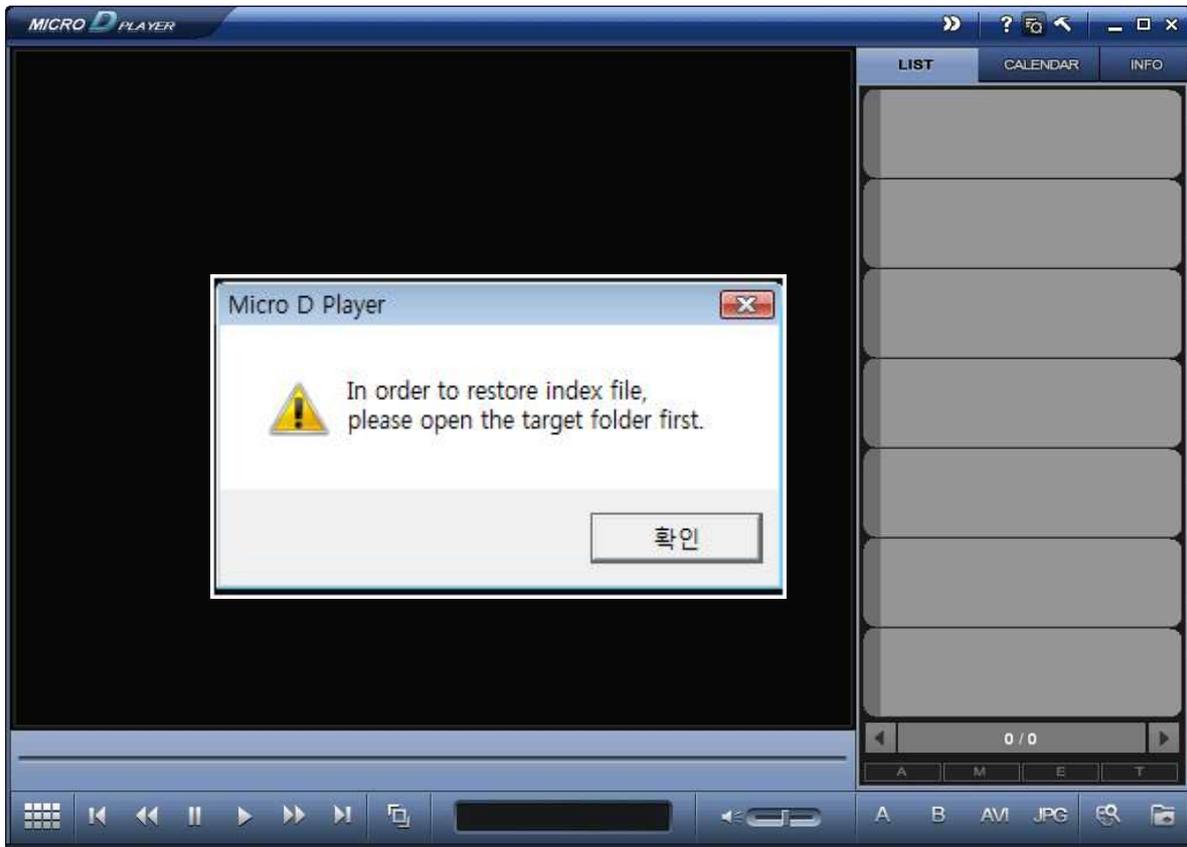


PIC 7.1 MEMORY INFORMATION

The information of current data appears. You can check;

- A. File Information
 - Total Number of Files
 - Total Memory Size
 -
- B. Video Information
 - Total Recording Time
 - Total Recording Period
 - Start Time
 - End Time
- C. Remove individual files. Event Information(File Count)
 - Event A
 - Event M
 - Event E
 - Event T

8. ERROR MESSAGE



PIC 8.1 ERROR MESSAGE

If user clicks  button without choosing the appropriate folder in which SDR files are existed dialog message is shown as [Pic 8.1]