

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	Above Intel Pentium 4 CPU 3.00GHz
Main Memory	1GB
VGA CARD	MEMORY: More than 64MB / DAC: More than 350MHz
O/S*	Windows XP , Windows Vista
DirectX	Above DirectX 9.0C
Resolution	1,024 X 768 / 1,152 X 864

Chapter 2: Supported O/S

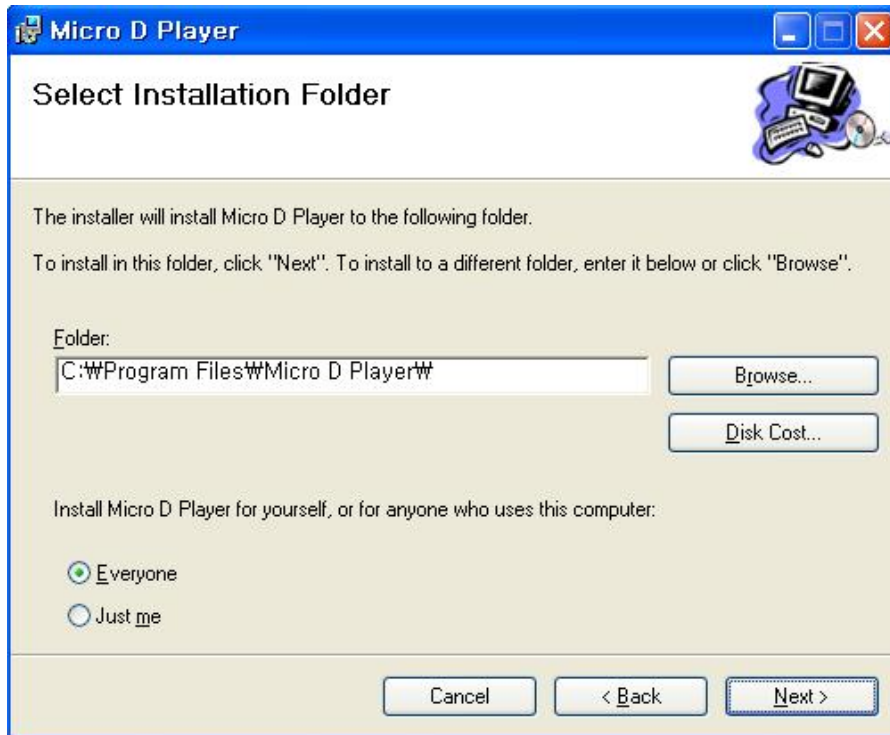
- ✓ Windows XP Professional / Windows XP Home Edition(Korean OS, English OS, Japanese OS)
- ✓ Windows Vista (Korean OS, English OS, Japanese OS)

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.

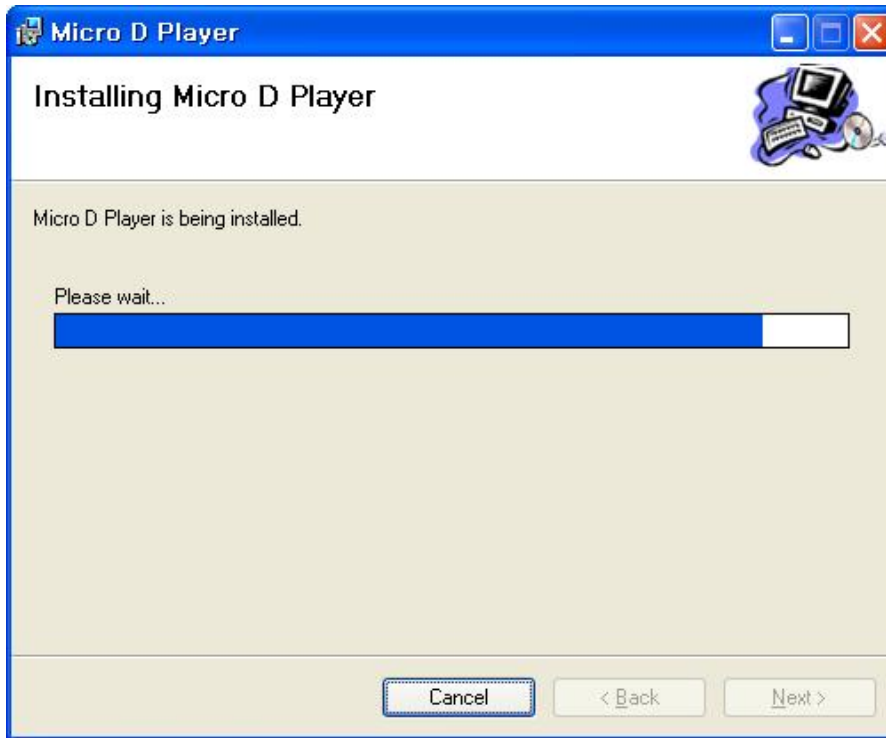


Pic. 3.2 Select Installation Folder

1. Then select the folder where the program is to be installed. The route is changeable using 'Browser'.
2. To install in the default folder, click 'Next' and go to the next step.
3. Start Installation.



Pic. 3.3 Confirm Installation

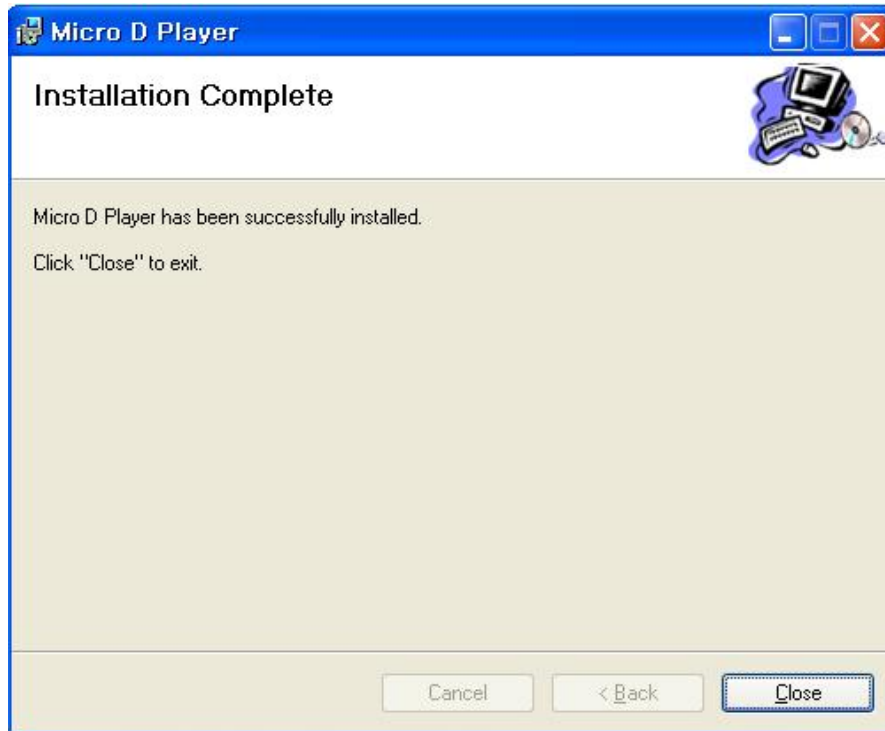


Pic. 3.4 Installing Micro D Player



Pic. 3.5 Micro D Player Information

Users who are using Vista Operating System without Administrator's account, should register OCX as shown in the picture 3.5.



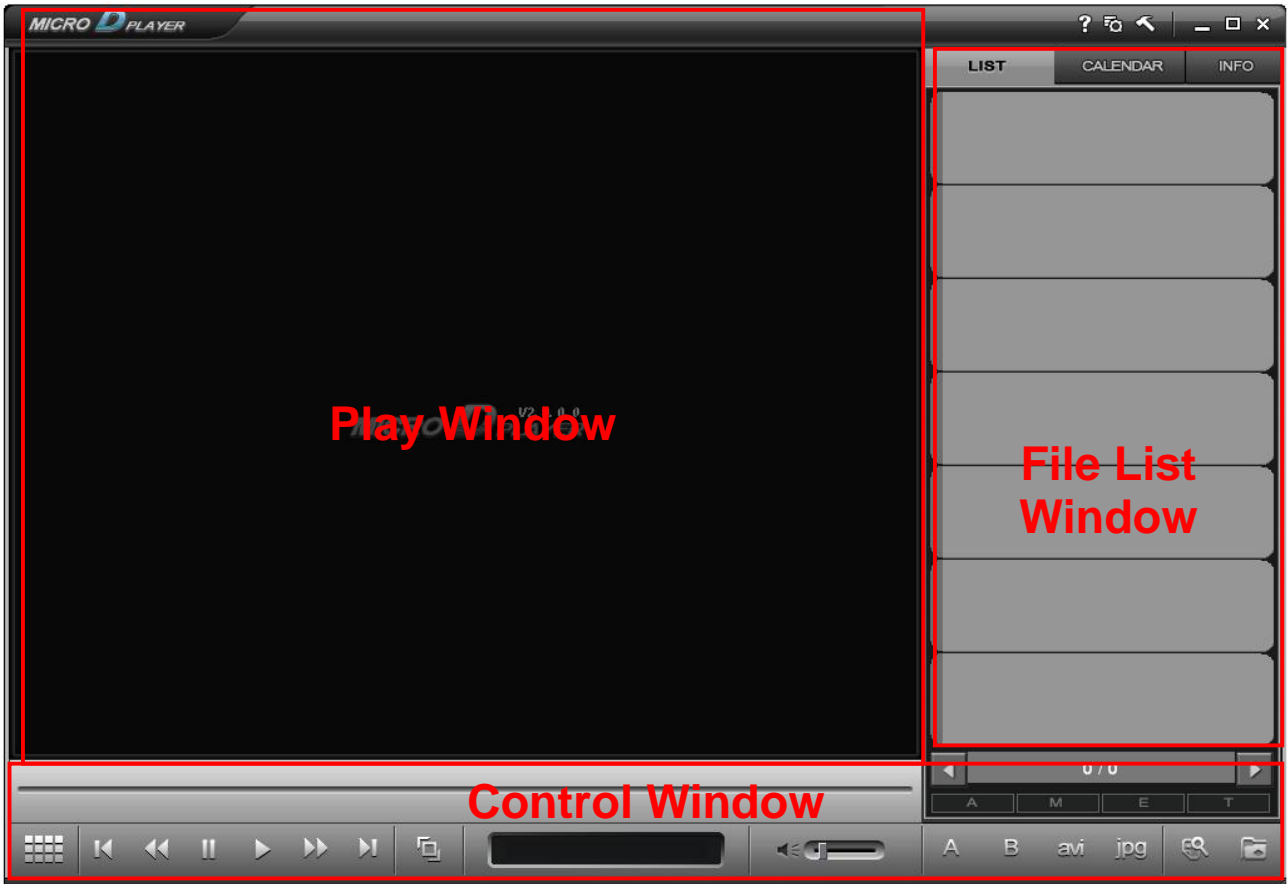
Pic. 3.6 Installation Complete

When installation is completed, click '**Close**' Button.

Chapter 4: How to Use Micro D Player

Upon installation, there will appear an icon of 'Micro D Player' 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, select File Folder
	Open, select a file
	Screenshot (JPEG file)
	Save as AVI file (section A and B)
	Setup AVI File End Point
	Setup AVI File Start Point
 ① ② ③ ④ ⑤ ⑥	① Move to previous frame ② Rewind ③ Stop ④ Play/Pause ⑤ Fast Forward ⑥ Move to Next frame

	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
	Move the file list to Backward and Forward (Current list Page/ Entire list Page)
	A scale having the interval of 1 minute.
	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

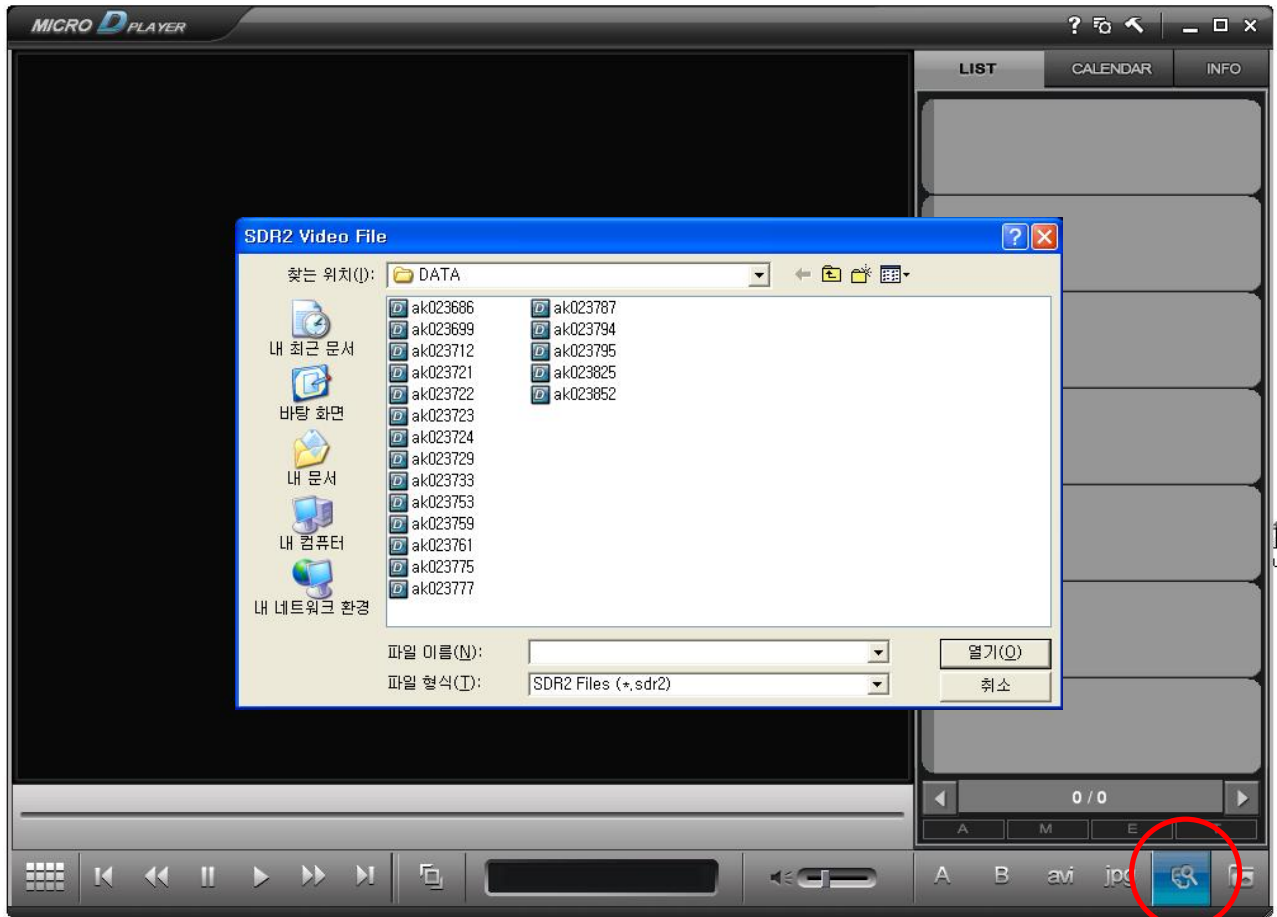


- ① Thumbnail: The first frame is used as thumbnail image.
- ② File Property Icon
 - A: Activated when the SDR2 file is generated by sensor-trigger.
 - R: Activated when the SDR2 file is generated by emergency full recording.
 - M: Activated when the SDR2 file is generated by motion event.
 - T: Activated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

Pic. 4.1-2. Movie List

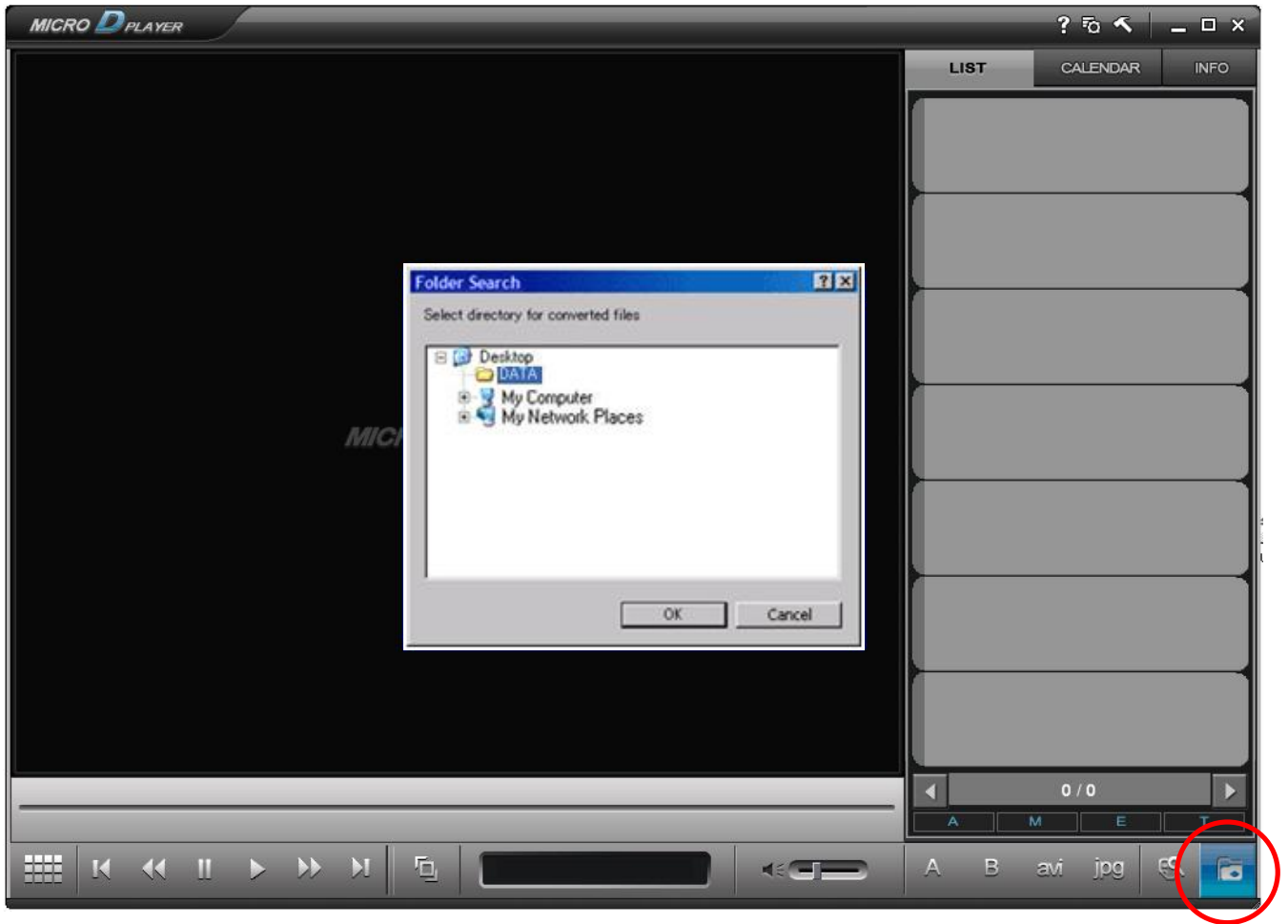
4.2 Open Files

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 and select 'File Open'.
4. Choose an 'sdr2 file' from SD card or a folder from the pc.



Pic. 4.2-1 File Open

4.3 Folder Open



Pic. 4.3-1 Folder Open

Click the red circled button to bring data from PC or removable drive.

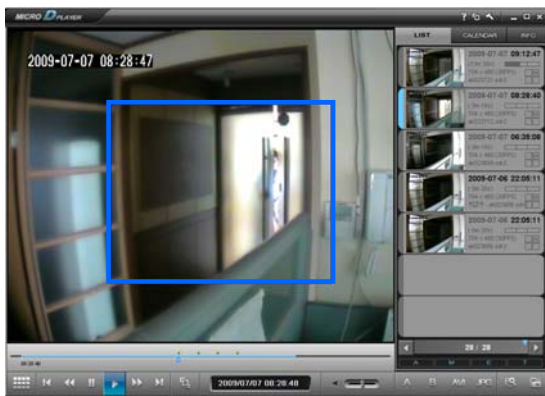
4.4 Load SDR2 Files



Pic. 4.4-1 Load SDR2 Files

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. 4.4-2 Mouse-Dragged status

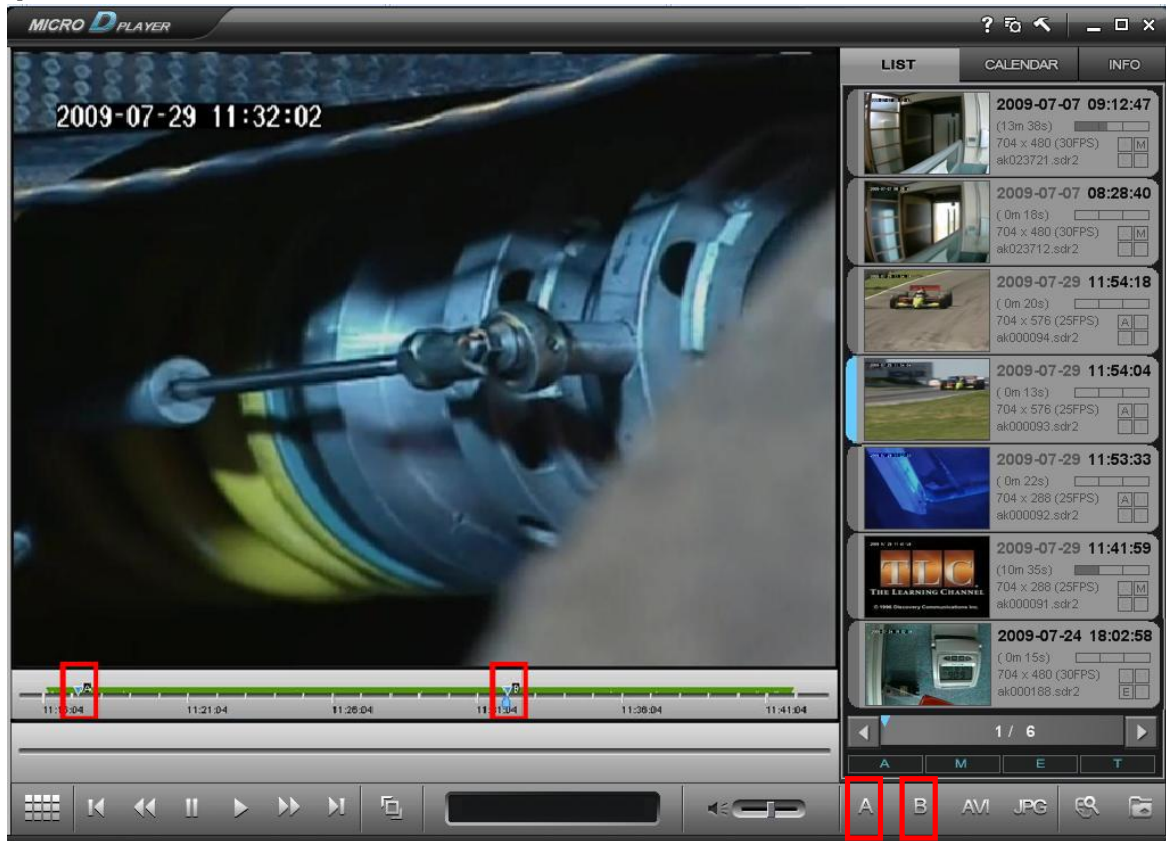


Pic. 4.4-3 Extended Status

User can see the extended playback image by using left side mouse button.
Drag left side mouse button and blue square tool box appears on the part where user selected.
Double-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.

4.5 Setup AVI File Start and End Point



Pic. 4.5-1 Setup AVI File Start and End Point

If users click button **A**, it forms 'section A'. Button **B** functions same as button **A**. After setup section A and B, appear bars pointing on the slide bar.

4.6 Save as AVI file



Pic. 4.6-1 Save as AVI file


1. 'Video Export' window opens when click on  button.
And it includes two monitor windows as shown in [Pic. 4.6-1].
Monitor A shows the first frame and monitor B shows the end frame of the selected movie file that you wish to convert into AVI format.



- ① Return to First Frame
- ② 1 Min: Shows frame per 1 minute
- ③ 10 Sec: Return to First Frame
- ④ 1 Sec: Shows frame per 1 second.
- ⑤ Goes to Last Frame

2. Choose area for converting to AVI File by designating section A and section B.
(Press button 'A' and then button 'B'.)


Press the button 'avi' to start the process of conversion.


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


4.7 Save as JPG file



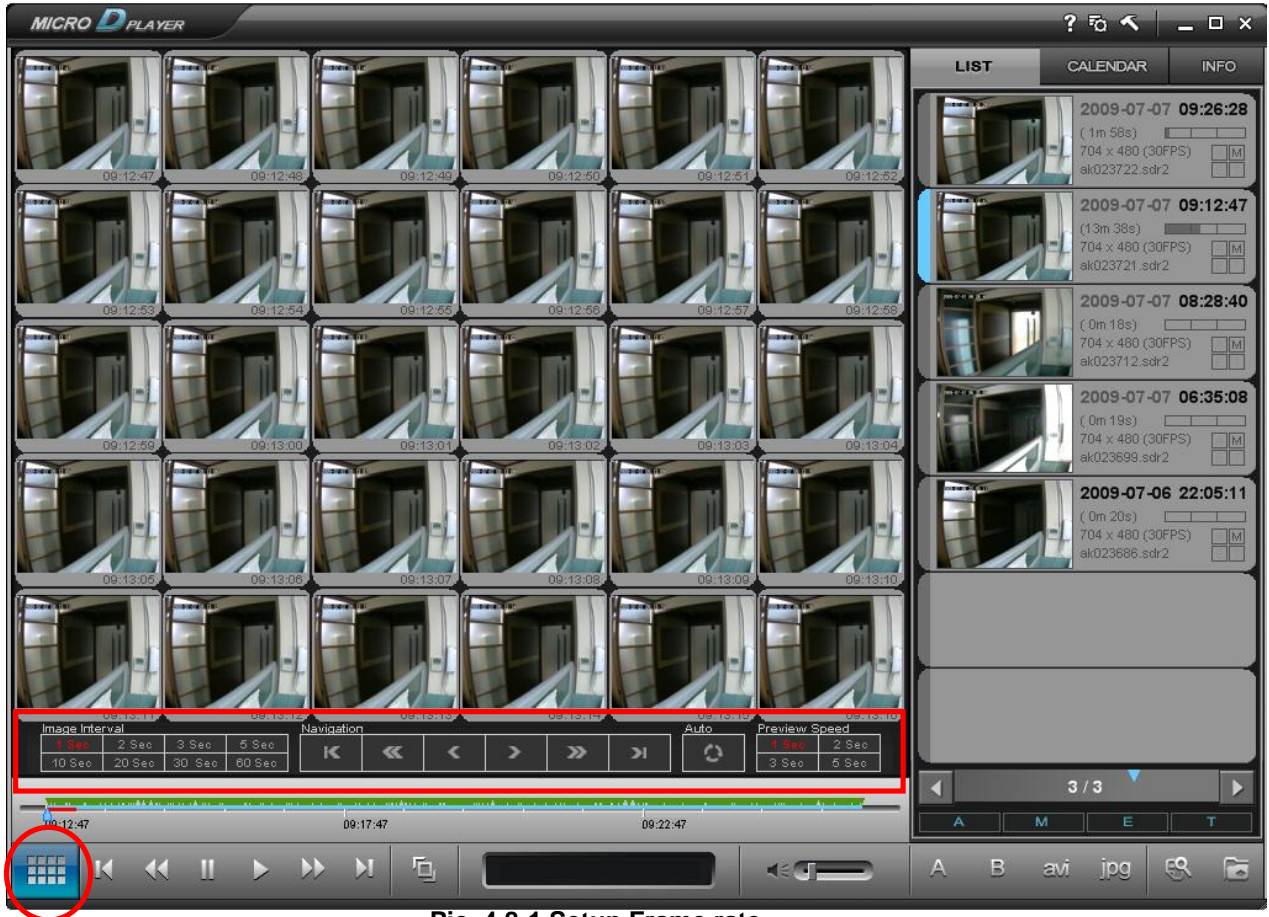
Pic.4.7-1 Save as JPG file

Click  button to convert the SDR2 file into JPG file.
The size of JPG image can be selected in 704*480/ 352*240 / Original.


Caption: Users can put the title for each JPG file.
Caption Position: the caption can be placed at one of 8 corners of the file.
Select the position and press 

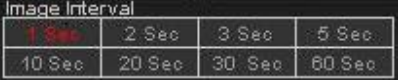



Press  to save the JPG file in the designated folder.

4.8 Set up Frame Rate



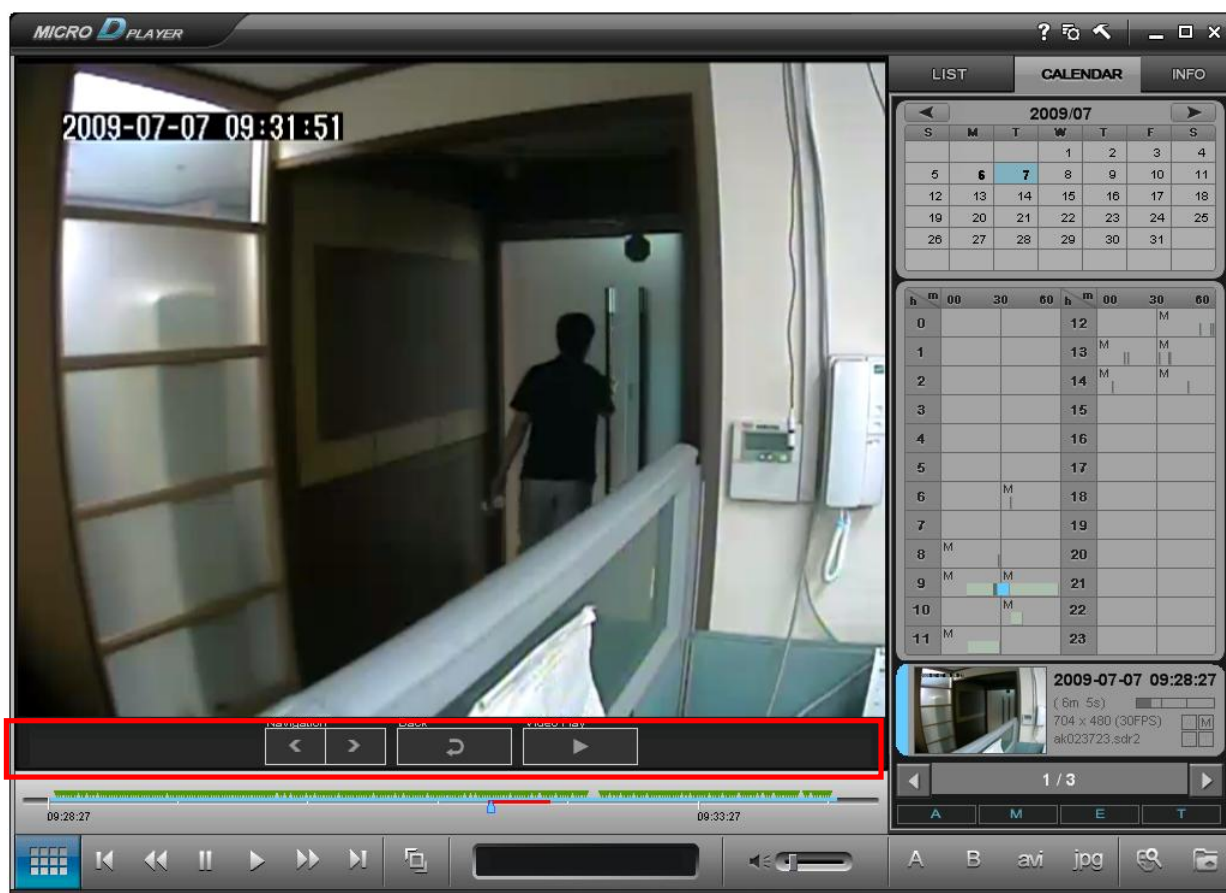
Pic. 4.8-1 Setup Frame rate

Press  button to check file images per second. Please refer to the table below.

	<p>Show images at the interval of 1/2/3/5/10/20/30/60 Sec</p>
	<p>① Move to first page ② Move to the previous page ③ Move to the previous frame ④ Move to the previous frame ⑤ Move to the previous page ⑥ Move to first page</p>
	<p>Automatically rotates file lists per selected preview speed.</p>
	<p>Selects preview speed in the range of 1/2/3/5 sec.</p>

※Notice: Upon pressing  choose preview speed.

Click the file image to take a look at file image in more detail.



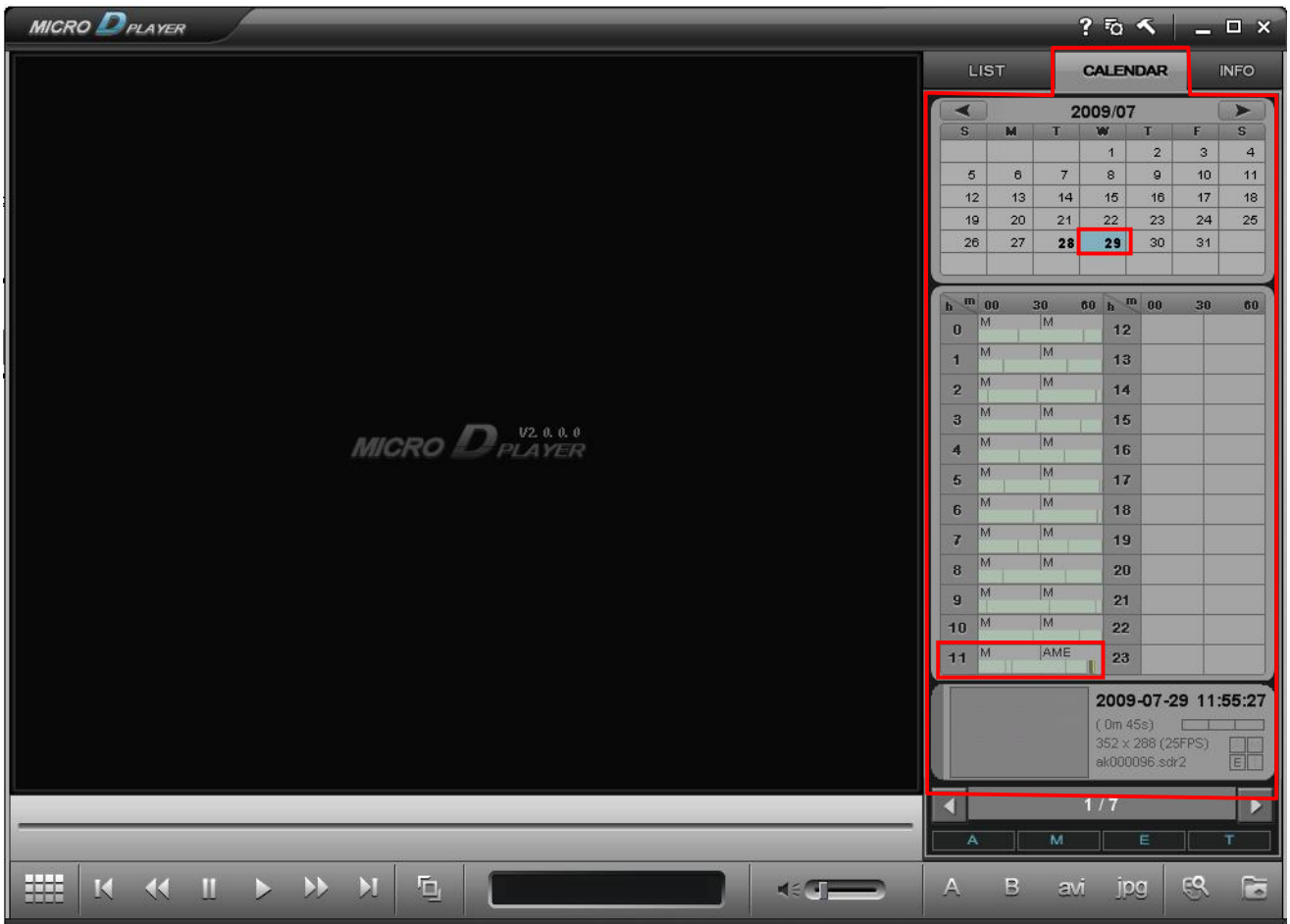
Pic. 4.8-2 Setup Frame rate

Use ① and ② to check file images per frame.

	<p>① Return to previous Image at the interval of 1/2/3/5/10/20/30/60 Sec</p> <p>② Move to next image at the interval of 1/2/3/5/10/20/30/60 Sec</p>
	<p>Return to preview window</p>
	<p>Playback from the selected frame</p>

4.9 Calendar

To search for specific video clips by dates, click 'Calendar' and select relevant date and time.

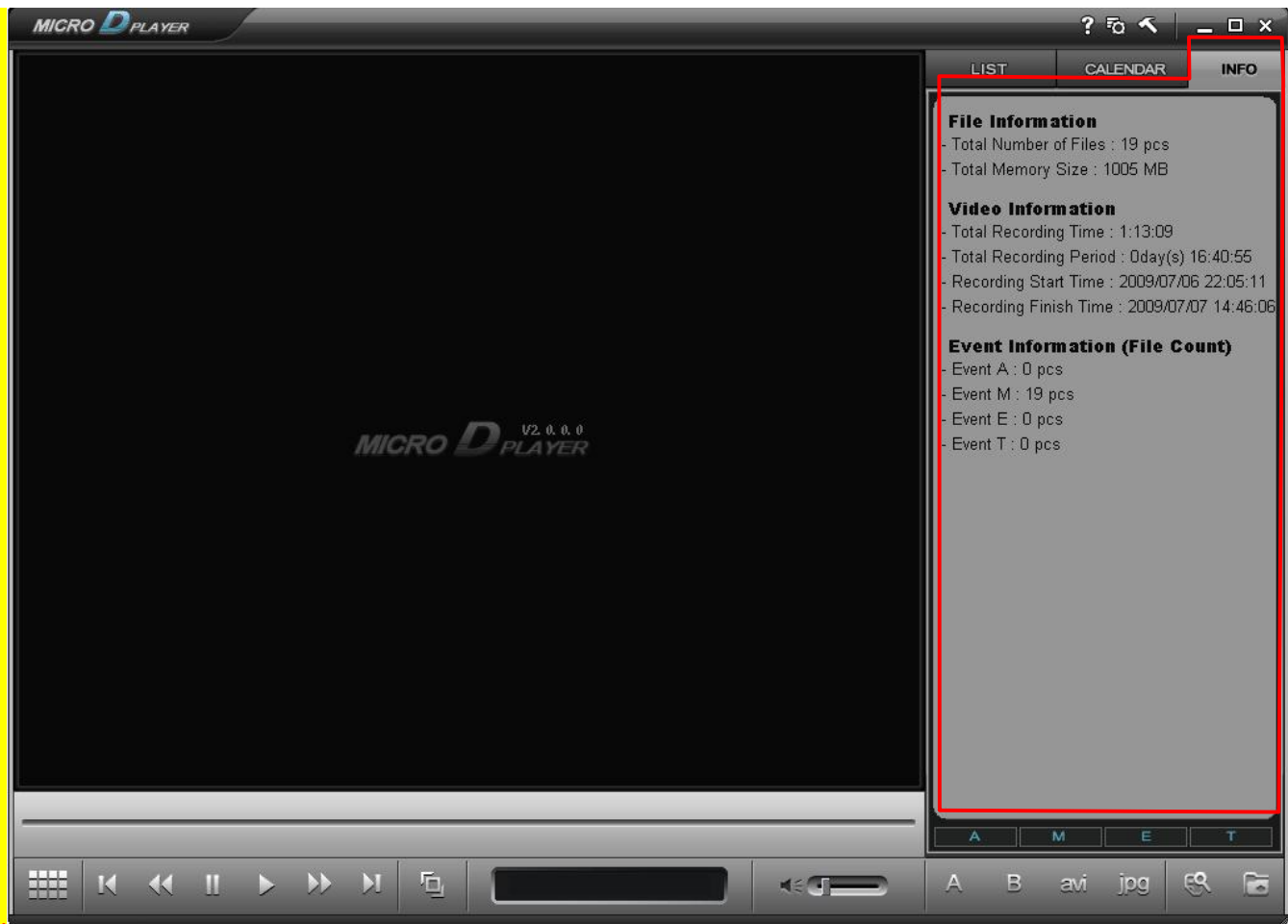


Pic. 4.9-1 Calendar

- ① Click 'Calendar' button to see the files classified by dates.
- ② Below the calendar, time table and relevant data files display the recording contents.

4.10 Information

To check the Micro D Player's data information, click 'INFO'.

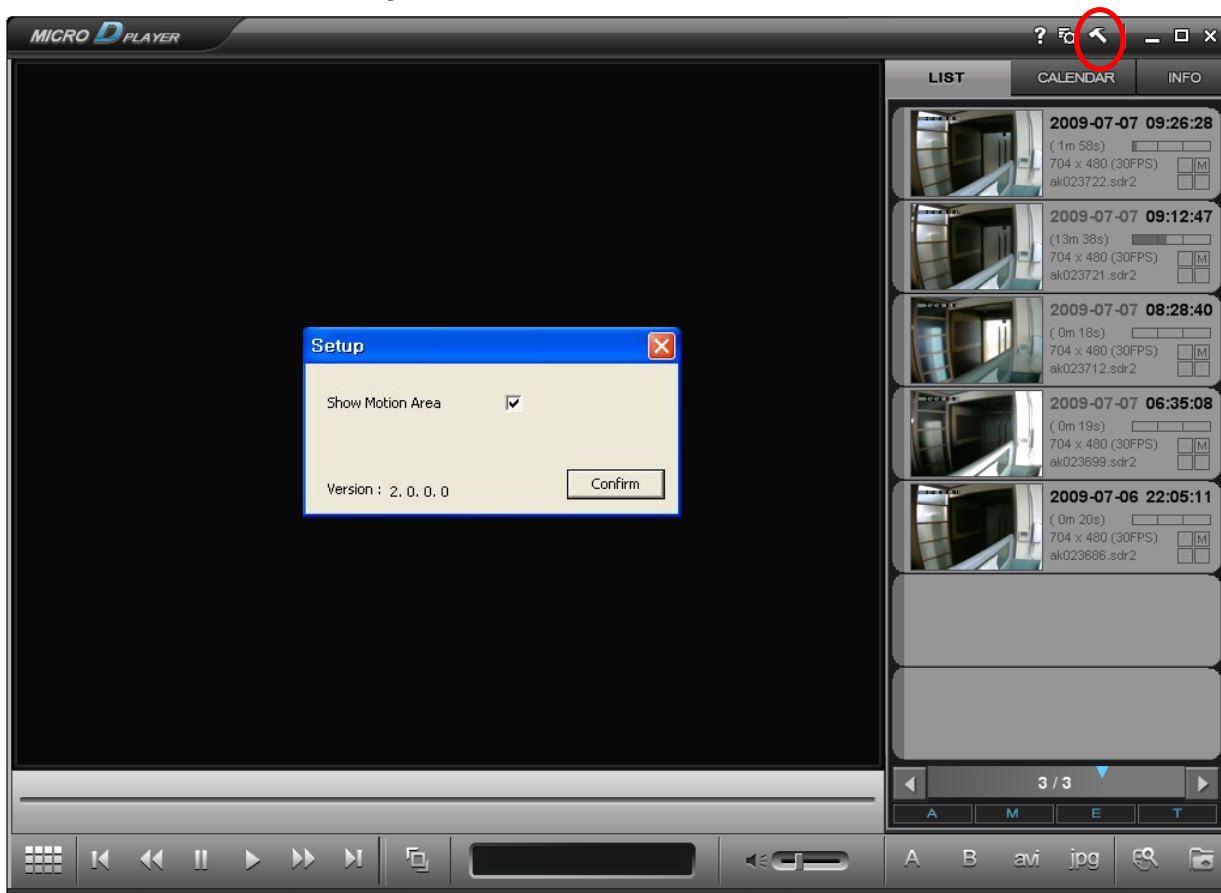


Pic. 4.10-1 Information

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
 - Recording Start Time
 - Recording End Time
- C. Remove individual files. Event Information(File Count)
 - Event A
 - Event M
 - Event E
 - Event T


5. Show Motion Area Setup



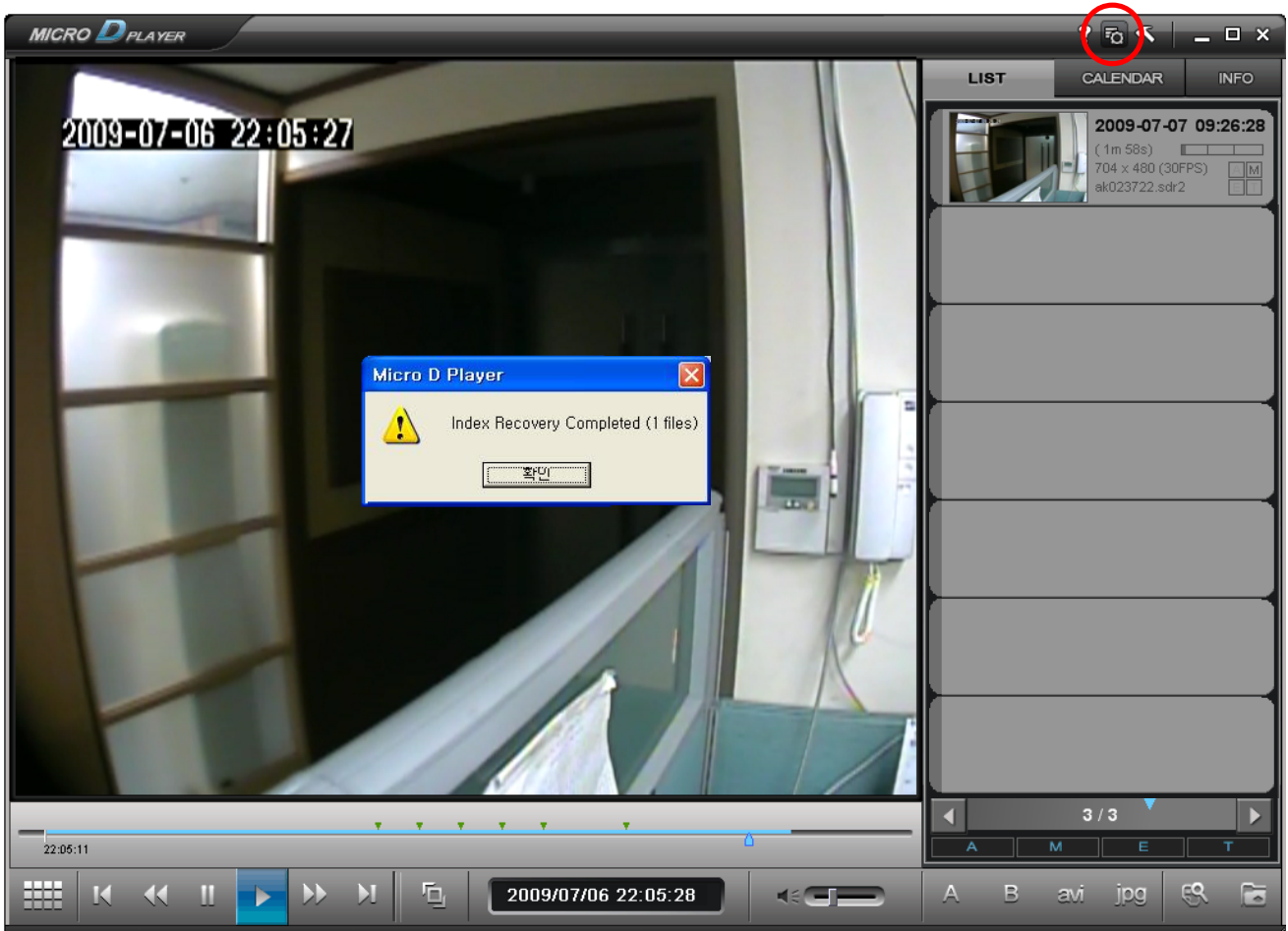
Pic. 5.1-1 Show Motion Area Setup



Pic. 5.1-2 Confirm 'Show Motion Area' File

Click setup button  to activate the motion mark and 'confirm'
 Check the checkbox to activate the motion mark and 'confirm'
 Red motion marks appear on the screen.
 To remove the motion marks, uncheck the checkbox and confirm.

6. File Index Renew



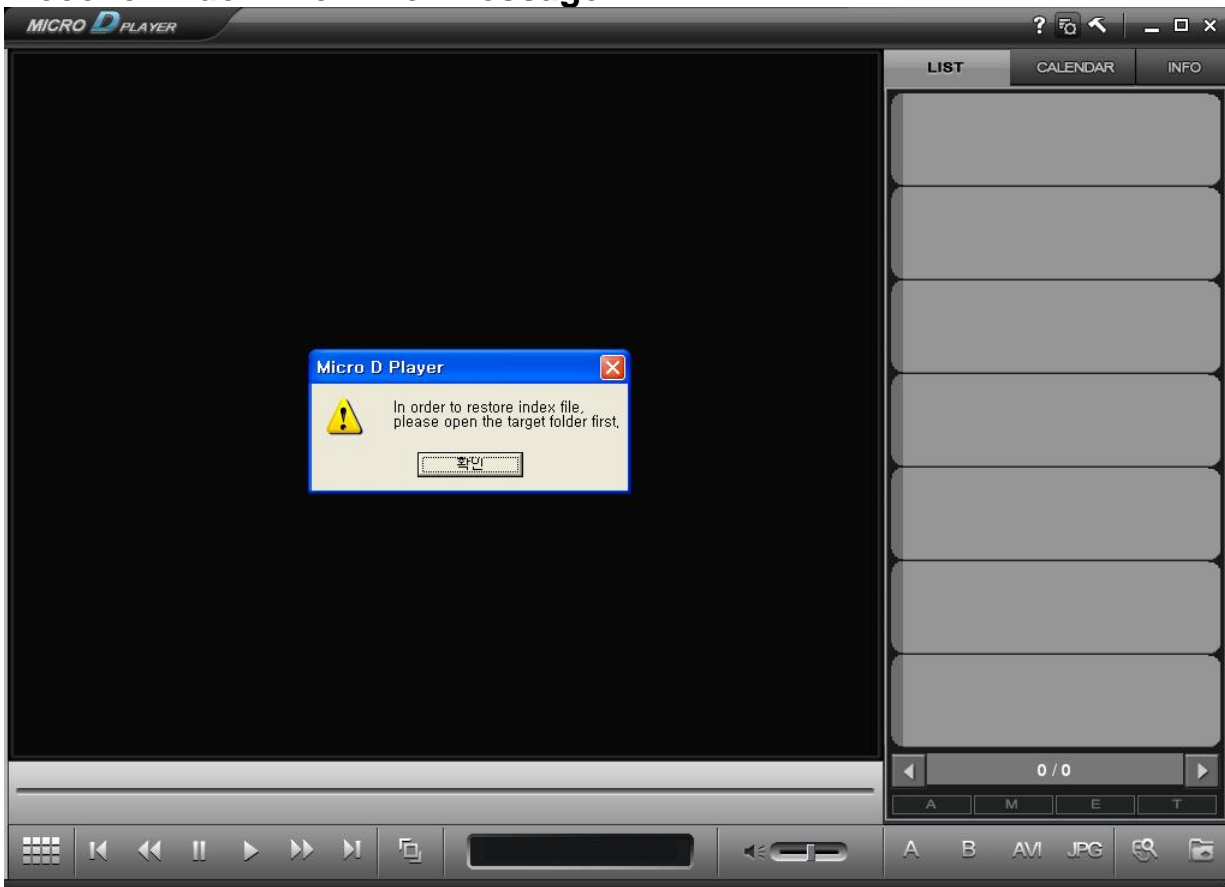
Pic 6.1 File Index Renew

Press button  as shown in [Pic.6.1].

The 'FILE INDEX RENEW tool' has the same function as 'SUB MENU>FILE INDEX RENEW' provided as OSD menu in Micro-D products.

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 actually stored in the SD card, users can synchronize the index file list with the actual file list. While synchronizing, the process percentage is displayed.

6.1 'Recover Index File' Error Message



Pic 6.2 File Index Renew

※ Remark

If user clicks 'Recover Index File' button without choosing targeting folder, dialog message is shown as [Pic 6.2].