# Micro D Player User's Manual

MICRO D PLAYER	Ð	? 🗟 🔨	_ 🗆 ×
	LIST	CALENDAR	INFO
			1
	<b>-</b>		
<b>1</b> 14 d a d			
MICRO D PLAYER			
		0/0	
		M	
	A B	AVI JPG	S 🖻

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

## Chapter 2: SUPPORTED O/S

- ✓ Windows XP
- Windows Vista  $\checkmark$
- ✓ Windows 7

## **Chapter 3: PROGRAM INSTALLATION**

🖗 Micro D Player	
Welcome to the Micro D Player Setup Wizard	
The installer will guide you through the steps required to install Micro D Player on yo	our computer.
WARNING: This computer program is protected by copyright law and international Unauthorized duplication or distribution of this program, or any portion of it, may rest or criminal penalties, and will be prosecuted to the maximum extent possible under t	treaties. ult in severe civil the law.
Cancel < Back	Next >

PIC. 3.1 MICRO D PLAYER SETUP WIZARD

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

Micro D Player	
Select Installation Folder	
he installer will install Micro D Player to the following folder.	
Fo install in this folder, click "Next". To install to a different folder, enter it be	elow or click "Browse".
Folder:	
C:₩Program Files₩Micro D Player₩	Browse
	Disk Cost
Install Micro D Player for yourself, or for anyone who uses this computer:	
O Just me	

PIC. 3.2 SELECT INSTALLATION FOLDER

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



PIC. 3.3 CONFIRM INSTALLATION

🖗 Micro D Player			
Installing Micro D Player			
Micro D Player is being installed.			
Please wait			
	Cancel	K <u>B</u> ack	Next >

PIC. 3.4 INSTALLING MICRO D PLAYER

🕲 Micro D Player	
Micro D Player Information	
If you use Vista and don't have Admin please register OCXs by running <b>Start</b> > <b>Register OCX</b> .	istrator's account, > Micro D Player
Cancel	< <u>B</u> ack Next>

#### 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.

Micro D Player	
Installation Complete	
Micro D Player has been successfully installed.	
Click "Close" to exit.	

## 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				
_ <b>—</b> ×	Minimize Window / Maximize Window / Close Window			
	Open the selected File Folder			
8	Open the selected files			
JPG	Screenshot (JPEG file)			
AVI	Convert to AVI file (section A and B)			
в	Setup AVI File End Point			
A	Setup AVI File Start Point			
I     I     I     I       1     2     3     4     5     6	<ol> <li>Frame Back</li> <li>Rewind(-2X/-4X/-8X/-16X)</li> <li>Pause</li> <li>Play</li> <li>Fast Forward(2X/4X/8X/16X)</li> <li>Frame Forward</li> </ol>			

	Show images at the interval of 1/2/3/5/10/20/30/60 Sec
rīg.	Change Video Ratio
A	Alarm Event
M	Motion Event
	Emergency Event
т	Time Event
<ul> <li>2/3</li> </ul>	Shift the file list to Backward and Forward ( Current list Page/ Entire list Page)
15:15:17	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.
01100	MICRO D PLAYER MENU
(0m 38s) 704 x 460 (30FPS) ak000009 sdr2	Thumbnail: The first frame is used as thumbnail image.
2010-04-28 11:28:25         (0m 5s)         704 × 480 (30FPS)         ak000008.sdr2         2010-04-28 11:28:09         (0m 6s)         704 × 480 (30FPS)         (0m 6s)         704 × 480 (30FPS)         (0m 6s)         704 × 480 (30FPS)         (0m 6s)         704 × 480 (30FPS)	<ul> <li>File Property Icon <ul> <li>A: Activated when the SDR2 file is generated by sensor-trigger.</li> <li>R: Activated when the SDR2 file is generated by emergency</li> <li>M: Activated when the SDR2 file is generated by motion event.</li> <li>T: Activated when the SDR2 file is generated by time event.</li> </ul> </li> </ul>
2010-04-28 11:27:20 (On 5s)	<ul> <li>File Name</li> <li>Display file name</li> </ul>
ak000006.sdr2	<ul> <li>File Recording Started Date and Time</li> <li>File recording started Date and time is displayed as 'YYYY-MM-DD hh:mm:ss.</li> </ul>
2010-04-28 11:22:31	<ul> <li>File Playback Duration Time</li> <li>Playback duration time for each recorded file is displayed as 'XX m XX s'.</li> </ul>
CONT4\$) 704 x 480 (30FPS) al(000003.sdr2 E 2010-04-28 11:17:34 (4m 36s) 704 x 480 (30FPS) al(000002 sdr2 E E	<ul> <li>Resolution and Framerate</li> <li>Resolution and Framerate is displayed as 'XXX x XXX (XXFPS)'</li> </ul>
PIC. 4.1-2. MOVIE LIST	8

## **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 subtron (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).

MICRO D PLAYER	Ð	? 50 <	<u> </u>
	LIST	CALENDAR	INFO
PIN CODE PIN CODE を入力してくださ NUCRO DPAAY		2012-08-01         (bm 25s)         c           362 x 240 (396)         sid         2012-08-01           2012-08-01         (bm 37s)         c           2012-08-01         (bm 37s)         c           362 x 240 (396)         sid         3000003 sdid	10:04:03
		1/1 1/E	3

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

**PIC. 4.3-3 EXTENDED STATUS** 

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.



### **4.3-2 PLAYBACK PREVIEW**

#### PIC. 4.3-2-1 PLAYBACK PREVIEW

Clickbutton for 'Playback Preview'. Refer to the table below for the details of each icon		
Image Interval 1999: 2.Sec 3.Sec 5.Sec 10.Sec 20.Sec 30.Sec 60.Sec	Show images at the interval of 1/2/3/5/10/20/30/60 Sec	
	① Move to First page	
Navigation	② Move to the Previous page	
к « < > » э	③ Move to the Previous frame	
	④ Move to the Next frame	
	⑤ Move to the Next page	
	⑥ Move to Last page	
Auto	Automatically rotates 'Playback Preview' page as per selected Preview Speed	
Preview Speed <b>1 Sec</b> 3 Sec 5 Sec	Select 'Playback Preview' Page Transition Rate at the interval of 1/2/3/5 sec	
Auto		

\*Notice: Upon pressing

(SING)

, 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.

	<ol> <li>Go to Previous frame</li> <li>Go to Next frame</li> </ol>
	Return to 'Playback Preview'
Video Play	Playback from the current selected frame.

# 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 button to convert the SDR2 file into JPG file. Click 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

to save the JPG file in the designated folder.

## **4.4-2 CONVERTING TO AVI FILE**



PIC. 4.4-2 CONVERTING TO AVI FILE

AVI

1. 'Video Export' window opens when click on shown in [Pic. 4.4-2].



button. And it includes two monitor windows as

- 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

Export

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

NICRO D PLAYER				»	? ि 🔨	_ 🗆 ×
				LIST	CALENDAR	INFO
Baekup (Ba	ckup to D:\DATA\)					19:29
<ul> <li>ak020473.sdr2(4MB)</li> <li>ak019137.sdr2(3MB)</li> <li>ak003306.sdr2(72MB)</li> <li>ak003305.sdr2(72MB)</li> </ul>	2010.04/20 10:19:29 (00:18) 2010.04/19 23:10:03 (00:15) 2010.03/31 09:24:59 (30:04) 2010.03/31 08:54:58 (30:04)					24:59
< > Select All	Remove All Select Marked	formal:AVI	Choo	se Folder St	art Backup	
					1/ 1 M E	Þ
<b>₩ K K II →</b>	>> > 5		-	A B	AVI JPG	es 🖻
	PIC. 4.4-2-1 BACK	(UP ALL F	ILES TO AV	I FILES		



# 4.4-2-2 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 Export 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

button to designate the start point and select the end point of AVI converting file by clicking

button. After starting point and end point is designated, 🖾 marks display on the bar.Click button to complete converting to AVI file selectively.

Click

# 4.4-3 CONVERTING to WMV FILE

A CAMARA			》 ? ゐ <	
		LIS	BT CALENDAF	R INF
	(up to D:\DATA\)			X
<ul> <li>ak020473.sdr2(4MB)</li> <li>ak019137.sdr2(3MB)</li> <li>ak003306.sdr2(72MB)</li> <li>ak003305.sdr2(72MB)</li> </ul>	2010/04/20 10:19:29 (00:18) 2010/04/19 23:10:03 (00:15) 2010/03/31 09:24:59 (30:04) 2010/03/31 08:54:58 (30:04)			24 54
				-
< > Select All	Remove All Select Marked	Choose Folder	Start Back	18
< > Select All	Remove All Select Marked	Choose Folder	Start Backt	40

#### PIC4.4-3-1 CONVERTING to WMV FILE



Start Backup

Choose Format WMV and press Start Backup button to start backup as WMV file. Backup completed massage 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 witton.

RO		»? 5 < _ E
		LIST CALENDAR INF
		2010-04-20 10:19
Backup (Backup	to D:\DATA\)	×
O ak020473.sdr2(4MB)	2010/04/20 10:19:29 (00:18)	
O ak019137.sdr2(3MB)	2010/04/19 23:10:03 (00:15)	p a start
O ak000703.sdr2(1MB)	2010/04/05 17:27:04 (00:39)	
O ak000701.sdr2(72MB)	2010/04/05 16:40:38 (30:04)	
O ak000700.sdr2(72MB)	2010/04/05 16:10:31 (30:04)	
0 x000699.sdr2(72MB)	2010/04/05 15:40:24 (30:04)	4
0 x000698.sdr2(72MB)	2010/04/05 15:10:17 (30:04)	
Q ak000697.sdr2(72MB)	2010/04/05 14:40:09 (30:04)	
O ak000696.sdr2(72MB)	2010/04/05 14:10:02 (30:04)	
O ak000695.sdr2(72MB)	2010/04/05 13:39:55 (30:04)	P
O ak000694.sdr2(61MB)	2010/04/05 13:04:08 (25:45)	
O ak000693.sdr2(72MB)	2010/04/05 12:34:01 (30:04)	
O ak000692.sdr2(72MB)	2010/04/05 12:03:54 (30:04)	
o ak000691.sdr2(71MB)	2010/04/05 11:33:48 (30:04)	P
O ak000689.sdr2(17MB)	2010/04/05 10:12:52 (07:14)	
O ak000688.sdr2(61MB)	2010/04/05 09:43:10 (25:46)	
O ak000687.sdr2(1MB)	2010/04/05 09:41:07 (00:35)	
O ak003306.sdr2(72MB)	2010/03/31 09:24:59 (30:04)	P
O ak003305.sdr2(72MB)	2010/03/31 08:54:58 (30:04)	
O ak003304.sdr2(72MB)	2010/03/31 08:24:55 (30:04)	
O ak003303.sdr2(72MB)	2010/03/31 07:54:51 (30:04)	
< > Select All Re	move All Select Marked Format:SDR2	Choose Folder Start Backup
		1/3
		A M E T
		A B AM 100 60

#### 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 Choose Folder button. After selecting Formate WMV, press Start Backup button to save as AVI files. Once procedure starts, progress appears on the screen in red as to the backup start backup in the backup start backup start backup starts.

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 setup button and 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 <u>'SUB MENU>FILE INDEX RENEW'</u> 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 to synchronize. While synchronizing, the process percentage is displayed on the screen.

INFO

## 7. LOADED FILE INFORMATION

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



**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

MICRO D PLAYER	_	<b>N</b>	? 5 <	_ 🗆 ×
		LIST	GALENDAR	INFO
		1		
Micro D Playor				
In order to restore index file,				
please open the target folder first.		<u></u>		
확인				1
		4	0 / 0	Þ
		[ A ] 1	M E	T
IIII K ({ II > >> >I 🖳 🚺 🖛	B	A B	AVI JPG	S 🖻

#### 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]