#### **INSTRUCTION MANUAL**

**Stand-Alone 8 Channel** 

## **DIGITAL VIDEO RECORDER**

**MODEL CDR0850** 



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### **About this manual**

This is the Instruction Manual for Stand-alone type DVR model CDR0850.

This Manual describes how to install and operate the Stand-Alone DVR and provides specifications and features.

Please read this manual thoroughly and follow the installation process before using Standalone DVR (Note: Be sure to correctly follow step 3. What to do at the time of installation).

Contact our dealers when you have any queries.

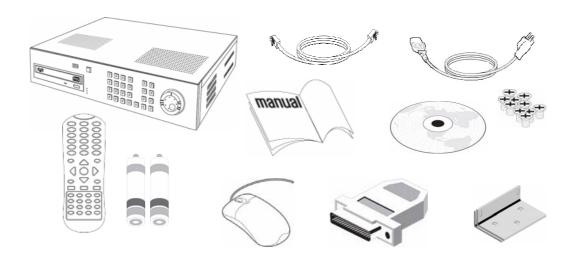


# 1 Unpacking

Care should be taken when unpacking to avoid damaging the unit.

Please check that the following items are included:

- ► Stand-alone DVR unit
- ▶ All Accessories : Bracket, Power Cable, Screws
- ► Remote Controller & Battery
- ▶ PS2 Mouse
- ▶ DSUB 26p Connector (Sensor Input, Relay Output Selection)
- ► Instruction Manual
- ► Host Program (SmViewer) on CD
- ▶ RJ-45 Cable



Note: Contact your dealer immediately if any components are missing.

#### Stand-alone DVR (Digital Video Recorder) Unit

**CDR0850** is the most reliable and functional embedded DVR system available today. The system displays 8 channels of live images in Real Time speed, compresses data digitally and records them to the Hard Disk Drive, which can be replayed and searched easily any time.

The **CDR0850** supports easy back up via USB port, DVD R/W, CD R/W and networking in both static & dynamic IP modes.

User can remotely view live images or search the recorded images.

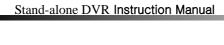
Under emergency situation, the remote operator can control, turn on and turn off the field installed alarms, such as a siren or light.

It is a very user- friendly DVR system. User can control the **CDR0850** by Mouse or Buttons on the front panel or Remote controller.

# 2 Features

#### Multi Functional Record

- -Powerful, multiple Record Modes available: Manual (Continuous), Timer, and Motion Detection Recording.
- ► User friendly GUI
  - -A few simple buttons for Easy control.
- **▶** Automatic System Recovery
  - -Automatic and Complete System recovery within 10 seconds.
- ► Easy PTZ control via RS port
  - -No need to use PTZ controller
  - -PTZ control from remote PC
- ➤ Simple Network Configuration -DHCP based automatic network set-up-Easy Network Configuration from Dynamic IP to Dynamic IP
- **▶ MPEG-4 Algorithm Compression** 
  - -The most advanced compression available today.
- ► Multiple Video Display
  - -Support CCTV monitor or TV and High resolution video display by VGA monitor-Important Image automatic display by spot monitor.
- ► Flexible Networking -Support TCP/IP and Remote Control on all DVR features-Up to 10 users can remote access simultaneously.
- ► Internet Explorer
  - -Up to 10 users can remote access simultaneously.
- ► Easy Data Playback in any PC
  - -Back Up data convertible to AVI file format.
- **▶** Back UP
  - -DVD R/W, CD R/W, External HDD, Stick memory, and through network access.
- **▶** Jog/Shuttle
  - -Frame by frame playback/playback / Control the playback speed for both forward and reverse by turning the shuttle to left or right.



# 3

# What to do at the time of Installation

#### Stand-alone DVR should be installed in the following order;

- 1. Make sure all the required hardware is available.
  - Stand-alone DVR unit (including HDD)
  - Up to 8 cameras (including power source)
  - CCTV or VGA monitor (or TV set)
  - Network cable if connecting to a PC
- 2. Connect the cameras, the DVR unit and monitor (Refer to [Fig 5-3]).
- 4. Confirm live video is displayed on the monitor before going to the next step.
- 5. Select the Setup Menu and set current date and time (Refer to Section 7-2.1).
- 6. Run the FACTORY DEFAULT setting in the SYSTEM menu.
- 7. Perform HDD formatting.
- 8. Escape from Setup Menu.
- 9. Set values for required options.
- Network cable should be connected to the DVR unit before turning the power on.
   Refer to [Fig 5-11] for the cable specification.



# 4 Specifications

	ITEM	DESCRIPTIONS		
	Television System	NTSC	PAL	
	Refresh Rate	60 fields/sec	50 fields/sec	
	Video Resolution	720x480	720x576	
VIDEO SIGNAL	Video Inputs	8 Cameras		
	Video Input Signal	Composite 1.0 Vp-p 75 Ohms		
	Video Outputs	8 looping, Main monitor, Aux monitor, SVHS, VGA		
	Video Output Signal	Composite 1.0 Vp	p-p 75 Ohms	
	Live	240 Frames/sec display	200 Frames/sec display	
	Zoom	2 times d	igital	
VIDEO FEATURES	Sequence	Sequence display in Full size		
VIDEO FEATURES	Display Format	1 screen(full), Quad p	), Quad pages split, 9 split	
	Video enhance	Brightness, Contrast co	ontrol each camera	
	VGA enhance	Brightness, Contra	ast, saturation	
AUDIO FEATURES	G.723	4ch Input / 1c	ch Output	
	Recording Speed	240 Frames/sec	200 Frames/sec	
	Recording resolution	720x480,720x240,360x240 (NTSC) / 1	720x576,720x288,360x288 (PAL)	
DECORD	Codec	Mpeg	4	
RECORD	Recording	Timer, Motion, Alarm, Ma	anual individually set	
	Pre record	0~5 se	ec	
	Material	3 IDE HDD(Auto	o overwrite)	
0545011	Manual, Timer ,Motion, Alarm, Each	Fast x128 , Slow, Forward, F	Povogo Frama by Frama	
SEARCH	Camera, All Camera	Fast X120 , Slow, Folward, F	Revese, Frame by Frame	
BACKUP	DVD R/W, CD R/W, HDD, Stick memory, through Network	(DVD R/W Installed) Each Camera, ALL Camera, Time range		
Recorded data rock	Data protect in overwrite HDD	Time range, Back up		
	GUI	RGB 24bit full color		
USER INTERFACE	Operating interface	Mouse, Keypad, IR remote controllor, Network		
	Operating Help	Instant on screen display		
NETWORK	Ethernet 10/100M Auto	TCP/IP, DHCP, MNS server		
	Remote viewer	Same as DVR monitor (Mouse or Key botton)		
PC Program	PC Player	DVD, CD, HDD bay, Stick memory, Internal		
USB	USB 2.0	for external DVD R/W, CD R/W, HDD, Stick memory		
SERIAL	RS232 / RS422 / RS485	8 camera Pan/Tilt, Remote control		
	Alarm Inputs	8 Inpu		
41.5	Alarm Outputs	4 Relay Outpu	it(3A max)	
ALARM	Alarm latch up	1 ~ 10 s		
	Buzzer Out	On/Off		
HDD	IDE(ATA)	3 HDD (1pc of 320	OGB Installed)	
	Input Voltage	AC 110V/ 220V(Sele	ctable) 50~60Hz	
POWER	Power consumption	Approx. 8	,	
	Video Inputs	8 BN0		
	Video Outputs	8 BNC(Looping)		
	Main, Aux monitor Output	2 BNC, 1 Y/C(mini DIN4P)		
	VGA monitor Output	15pin HD	SUB	
CONNECTORS	CONNECTORS  Alarm In/Out		26pin HDSUB	
	RS485 /RS422	9pin DSUB		
	Ethernet	RJ45 Goin Mini DIN		
	Mouse(PS2)			
	Dimension(m/m)	430(W)x375(		
MECHANICAL	Weight	Approx. 2	, , ,	
ENVIRONMENT	Operating Temperature	0 ~ 60° C 10 ~ 90%		
	Humidity	10 ~ 90	J /U	

[Fig 4-1. Specifications]

Design and the specifications are subject to change without notice.



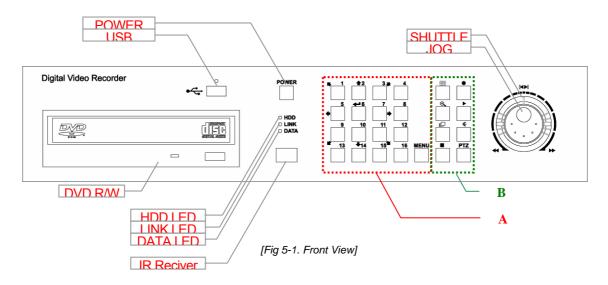
## Installation

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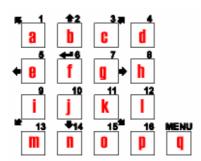
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#### 5-1. Controls and Connectors (For 8Ch & 16Ch DVR)

#### Front

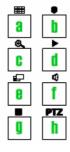


- A



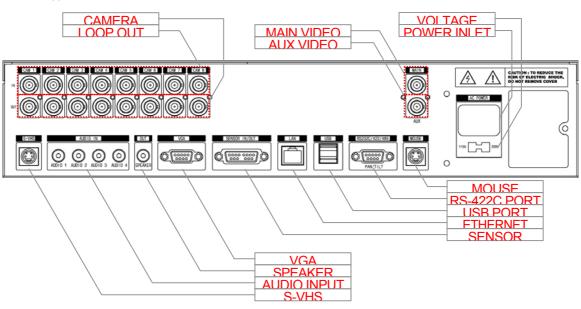
- a. 1 Channel(FULL Screen)
- b. 2 Channel(FULL Screen), UP Key
- c. 3 Channel(FULL Screen)
- d. 4 Channel(FULL Screen)
- e. 5 Channel(FULL Screen), LEFT Key
- f. 6 Channel(FULL Screen), ENTER Key
- g. 7 Channel(FULL Screen), RIGHT Key
- h. 8 Channel(FULL Screen)
- i. 9 Channel(FULL Screen)
- j. 10 Channel(FULL Screen), DOWN Key
- k. 11 Channel(FULL Screen)
- I. 12 Channel(FULL Screen)
- m. 13 Channel(FULL Screen)
- n. 14 Channel(FULL Screen)
- o. 15 Channel(FULL Screen)
- o. 16 Channel(FULL Screen)
- q. MENU

- B



- a. Display (Full / Split)
- b. Emergency Record
- c. Zoom
- d. Quick Replay
- e. OSD On/Off
- f. Audio
- g. Stop (ESC)
- h. PTZ

#### Rear



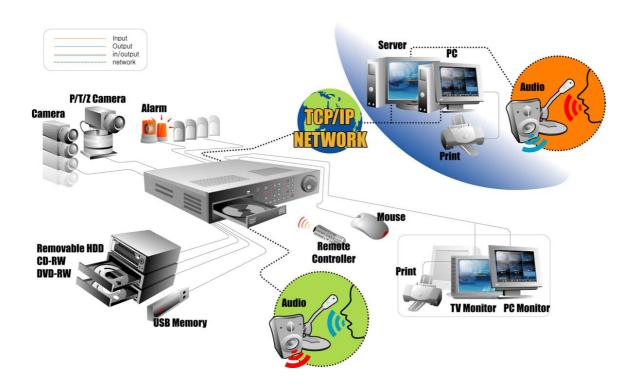
[Fig 5-2. Rear View]

#### 5-2. Note for Installation

- ◆ Install the system according to the instructions described in this manual.
- ◆ This product is designed for indoor use and should not be used outdoors.
- ◆ Avoid any area with high humidity or dust which can shorten lifetime of the unit.
- ◆ Choose a well ventilated area and keep minimum of 10" away from obstructions. Do not place the unit near heat generating devices. Do not place items on top of the unit.
- ◆ To secure the product, we suggest placing unit in a Wisecomm DVR Lockbox.
- ◆ Avoid any area with movement as this can interfere with the internal Hard Drive.
- ◆ Use a compatible input/output signal type of cameras and monitor.
- Contact your dealer if you are having any difficulty.

The Warranty may be voided in case of unauthorized disassembling, abuse or modification.

#### 5-3. System Connection



[Fig 5-3. System Connection]

#### 5-4. Installation

#### 5-4.1. Camera Connection

#### Connection of Normal Cameras

Connect the cameras to the Video Input (BNC connector) on the back of the unit as shown above [Fig. 5-3 System Connection].

#### Connection of Loop Output

The Camera or video output is available from the Video Output (Loop Output) on the back of the unit. (When BNC jack is connected to the Video Output, the termination resistance (75 $\Omega$ ) is automatically switched to impedance status so the external device must have termination resistance.)

#### 5-4.2. Monitor Connection

#### Connection of Main Monitor

Connect the composite monitor to "Main" on the upper part of BNC connector

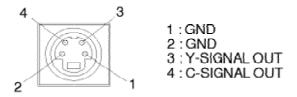
#### Connection of Auxiliary Monitor

Connect the auxiliary monitor to "Aux" on the lower part of BNC connector. The output of auxiliary monitor port is the same as the main monitor.

#### Connection of S-VHS Monitor

Connect the S-VHS monitor cable to "S-VHS" DIN jack on the rear of the unit. Output for S-VHS monitor is the same as that of main or auxiliary and works independently

#### Pin configuration of S-VHS connector.

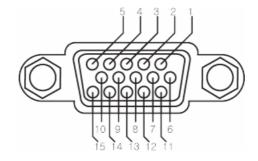


[Fig 5-4. S-VHS Connector PIN]

#### VGA Monitor Connection

Connect the VGA Monitor's connector to the "DSUB 15 Pin Connector" on the rear of the unit. Output for VGA Monitor is the same as that of the main screen, however it outputs a better quality signal.

#### Pin configuration of VGA Connector.



[Fig 5-5. VGA Connector PIN]

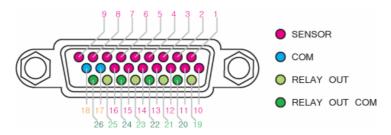
Number	Description	Number	Description
1	R(75Ω, 0.7Vp-p)	9	N/C
2	G(75Ω, 0.7Vp-p)	10	GND
3	B(75Ω, 0.7Vp-p)	11	GND
4	N/C	12	N/C
5	GND	13	HSYNC
6	GND	14	VSYNC
7	GND	15	N/C
8	GND		

5-4.3. Sensor Connection and RELAY IN &OUT

#### SENSOR Connection (SENSOR IN)

Connect the sensor to ALM (SENSOR) IN. The Sensor should be a contactor type and support NO (Normal Open).

Refer to [Fig. 5-6 SENSOR IN/OUT PIN] for connection.

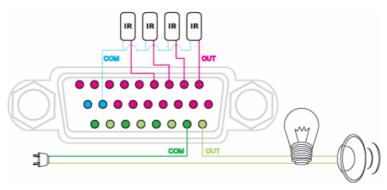


[Fig 5-6. SENSOR IN/OUT PIN]

#### RELAY OUT Connection

When necessary, use RELAY OUT. The Output of RELAY OUT is a relay contactor type and supports NO (Normal Open) & NC (Normal Close). The Output capacity is 220V 1A. A higher capacity can cause system failure.

Refer to [Fig. 5-7] for the connection to RELAY OUT.



[Fig 5-7]

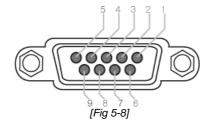
#### 5-4.4. RS232C Connection

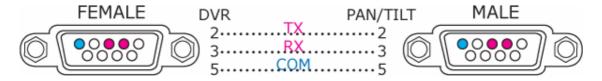
• Connect the cable to the "RS232C PORT" on the rear of the unit.

Specification of the RS232C connector is standard for "DSUB9"

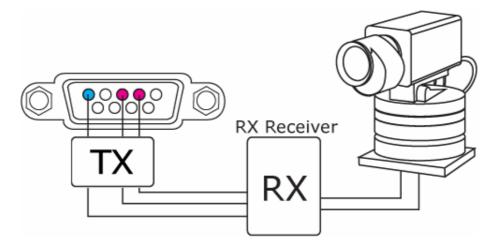
The Maximum Length of cable is 45 ft. When you want to use a longer distance, use "RS323 to RS422" converter

#### Refer to [Fig 5-8], [Fig 5-9], [Fig 5-10] for connection of Connector PIN





[Fig 5-9]



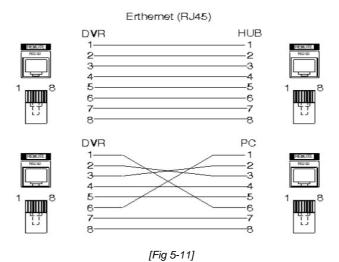
[Fig 5-10]

#### 5-4.5 Connection to an Ethernet (Optional) Network

Connecting the cable to Ethernet.

Our Ethernet connector is a RJ45 type. The maximum cable length is 300 ft. When you want to use a longer cable, we suggest using repeater.

#### Refer to [Fig. 5-11] for connector pin configuration.



#### 5-4.6. POWER CONNECTION

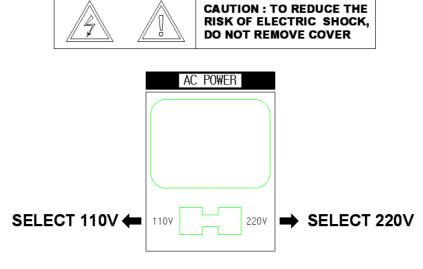
Select proper voltage (see fig 5-12) and connect to a reliable power source.

It should not be shared with other electrical equipment on the same line.

Poor performance can occur if the connected voltage is more than 10% plus or minus the required voltage.

Frequent power cuts can cause crucial failures, so if you have an unstable power source we recommend the use of an Uninterrupted Power Supply or other backup power source.

AC Input Voltage is AC110V 50/60Hz or AC220V 50/60Hz. AC power Source vary depends on countries. Factory default setting is AC110V 50/60Hz.



[Fig 5-12 Input power selection]

**Note**: Before you input the AC power to the system, make sure that the selector switch conforms to the correct input voltage.





## How to operate

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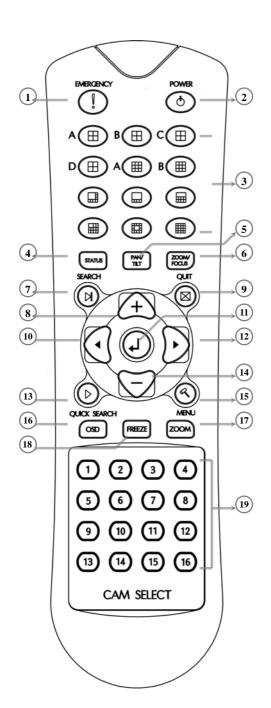
#### 6-1. General Information

- You can operate all functions of the system by use of the 28 buttons located on the front panel, remote controller and a mouse. Additionally, you can remotely control this unit via RS422C or the Ethernet port located on the back of the unit.
- System status is indicated by either LED lights on the operator buttons or the monitor.
- The system is protected from any accidental pressing of any operator buttons, but care should be taken when using the functions of HDD Formatting as this can lead to data loss.

#### 6-2. Operating Interface

There are 3 ways to operate the system by pressing the buttons on the front panel or buttons on the remote controller and clicking the mouse. A lot of users mostly prefer to use a mouse on these kinds of products such as DVRs, computers and computer-aided devices. Therefore we like to describe all the instructions in this manual based on using the mouse.

#### 6-3. IR Remote Controller



- 1. Record
- 2. Power On/Off
- 3. Display format (Split)
- 4. System status
- 5. Pan / Tilt
- 6. Zoom / Focus
- 7. Search for replaying
- 8. Up
- 9. Quit
- 10. Left
- 11. Enter
- 12. Right
- 13. Quick Replay
- 14. Down
- 15. Menu (Setup)
- 16. OSD On/Off
- 17. Zoom
- 18. Freeze / IR ID Config
- 19. No.1~8 Channel (Full Screen)

/ No. 1  $\sim$  16 IR ID Config

[Fig.6-1 IR Remote Controller]

#### 6-4. Power On/Off

#### **6-4.1. POWER ON**

#### On the front panel or the remote controller:

Press the **POWER** button on the front panel for approx. 3 seconds until the LED lights are turned on or just press the **POWER** button on the remote controller.

#### 6-4.2. POWER OFF

#### On the front panel or the remote controller:

Press the **POWER** button on the front panel for approx. 3 seconds until the LED lights are turned off or just press the **POWER** button on the remote controller and then the following message will be displayed on the screen.



[Fig.6-2Message of POWER off]

□ Press the ENTER (→) button to turn the power off.

#### By clicking the mouse:

- Click the **POWER OFF** button on the MENU bar (See Fig.6-3) and then the message (See Fig.6-2) will be displayed on the screen.
- Click the **OK** button to turn the power off.



#### 6-4.3. APPEARANCE OR DISAPPEARANCE OF POWER BUTTON

The Power On/Off button and the Audio buttons (See 6-7.4) as shown in Fig.6-3-1 will always stay on the MENU bar when the system is not connected through the **SmViewer** (Client Host Program or Internet Explorer). But the Power On/Off button and the Audio buttons on the MENU bar as shown in Fig.6-3-1 will be disappeared on the screen of the DVR and the client's computer when the system is connected through the **SmViewer** and the mouse pointer is on the **SmViewer** (See 6-3-2).

We designed this function so that users can not turn the power On/Off or control the audio functions on the DVR system through internet.



[Fig.6-3-1 Power & Audio buttons]



[Fig.6-3-2 No Power & Audio buttons ]

To appear the buttons (See Fig.6-3-1) on the MENU bar: just move the Mouse-pointer on the screen of the DVR system only, not on the SmViewer.

# 6-5. Menu Bar On/Off

Right-click on the screen in the LIVE or the RECORD mode and the MENU bar will be appeared. Right-click again and it will be disappeared.

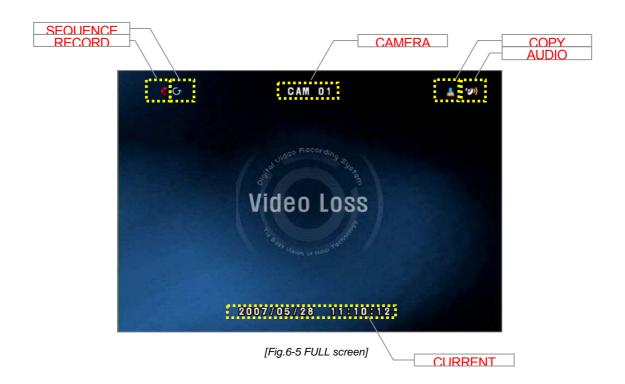




[Fig.6-4 LIVE Screen]

# 6-6. Display Screen

#### 6-6.1. FULL SCREEN



#### 6-6.2. SPLIT SCREENS



**FULL SCREEN** 



**SEQUENCING SCREEN** 



[4A] 1st QUAD SCREEN



[4B] 2nd QUAD SCREEN



**8 SPLIT SCREEN** 

## 6-7. LIVE

#### 6-7.1. FULL SCREEN

- Full SCREEN is available in the LIVE mode or the RECORD mode.
- Click on a certain camera's screen in the LIVE mode or in the RECORD mode, and a FULL SCREEN will be displayed.
- Click the FULL screen to return to the SPLIT SCREEN.

#### 6-7.2. SPLIT SCREEN

- SPLIT SCREEN is available in the LIVE mode or the RECORD mode.
- Click the DISPLAY icon on the MENU bar, and the DISPLAY pop-up screen will be displayed (See Fig.6-6).
- Click one of the SPLIT screens on the DISPLAY pop-up screen.



[Fig.6-6 DISPLAY pop-up screen]

#### 6-7.3. SEQUENCING SCREENS



Displaying the cameras in SEQUENCE is available in the LIVE mode or the RECORD mode.

Each of the channels will be displayed in sequence and the dwell time can be adjusted in the camera set up menu (Refer to 7-4.7).

- This ICON is displayed on the upper left hand corner of the screen while the system is in the Sequencing Mode.
- Click a Full screen to return to the SPLIT screen while the system is sequencing.



[Fig. 6-7 LIVE Menu DISPLAY pop-up window]



[Fig. 6-8 SEQUENCING screen]

#### **6-7.4. LIVE AUDIO**

- If cameras (up to 4 cameras) have audio function, it will sound in the live mode.
- Click the CHANNEL button you wish to listen on the MENU bar as shown below (See Fig.6-9). The CHANNEL can be changed by clicking the mouse repeatedly.
- Turn the AUDIO (speaker) ON by clicking the SPEAKER icon as shown below (See Fig.6-9). If the ICON turns in red by clicking, it represents that the AUDIO is turned OFF and if it turns in yellow, it represents that the AUDIO is turned ON.
- □ Adjust the Audio Volume by Clicking the ▲ or the ▼ button when the AUDIO is turned ON.



[Fig. 6-9 Audio buttons]



#### 6-7.5. ZOOM

The image on the screen will be zoomed up to 2 times when the ZOOM button is clicked in the LIVE mode (This function is available on the full screen mode only).

- Click the ZOOM button on the MENU bar in the LIVE mode.
- Move the mouse on the ZOOMED screen, and the 8-directional arrow marks will be appeared as shown below (Fig.6-10).
- Click the (EXIT) button to return to the LIVE Mode.



[Fig. 6-10 ZOOMED screen]



#### 6-7.6. OSD ON / OFF

OSD ON /OFF is possible in the LIVE mode or RECORD mode.

Click the OSD button on the MENU bar to turn the OSD (On Screen Display) ON or OFF.
When the OSD is in OFF position, all the texts on the screen will be disappeared.



[Fig.6-12 OSD OFF SCREEN]



#### 6-7.7. PAN / TILT

- Click the PAN/TILT button on the MENU bar in the LIVE mode to access the PAN/TILT cameras.
- □ Click the (EXIT) button to return to the LIVE mode.



[Fig.6-13 PAN/TILT button]



[Fig.6-14 PAN/TILT window]



[Fig.6-15 PAN/TILT CONTROL window]

#### Channel Selection and Screen Conversion

To change a channel, press the CHANNEL button on the front panel or click the CHANNEL button on the [Fig.6-15 PAN/TILT CONTROL window]. It will be converted a full screen.

To return to the LIVE mode, press the SPLIT button on the front panel or click the (EXIT) button.



#### ZOOM / FOCUS

Control the ZOOM and FOCUS of PAN/TILT camera.

Click the ZOOM/FOCUS button on the PAN/TILT CONTROL window [Fig. 6-15 PAN / TILT CONTROL window] or press the UP/DOWN/LEFT/RIGHT button on the front Panel.

#### PAN / TILT

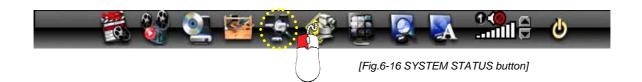
Control the PAN and TILT of PAN/TILT camera.

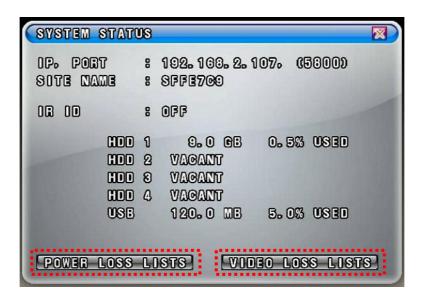
Click the PAN/TILT Button on the PAN/TILT CONTROL window [Fig.6-15 PAN / TILT CONTROL window] or press the UP/DOWN/LEFT/RIGHT button on the front Panel.



#### 6-7.8. SYSTEM STATUS

- Click the SYSTEM STATUS button on the MENU bar to see the system status as shown below (Fig.6-16).
- Click the (EXIT) button to return to the LIVE mode or RECORD mode.



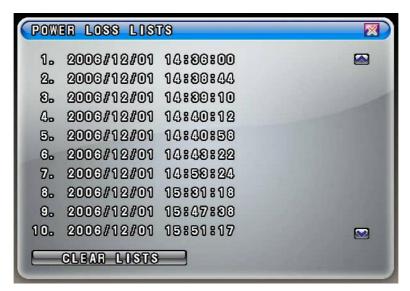


[Fig.6-17 SYSTEM STATUS window]

#### 6-7.9. POWER LOSS LISTS

The list indicates the time/date when the system power is turned OFF.

- Click the POWER LOSS LISTS button on the SYSTEM STATUS window to view the POWER LOSS LISTS.
- Each of the pages contains 10 lists. You can search the pages by clicking the UP/DOWN button.
- Click the (EXIT) button to return to the LIVE or RECORD mode.



[Fig.6-18 POWER LOSS LISTS window]

#### CLEAR LISTS button

Click the CLEAR LISTS button to clear the lists, you will be prompted to confirm changes.

When you click the OK button, the POWER LOSS LISTS will be deleted.

To cancel, click the CANCEL button



Fig.6-19 POWER LOSS LISTS Message

#### 6-7.10. VIDEO LOSS LIST

The list indicates the video loss channel and the time/date when the video signal is disconnected.

- Click the VIDEO LOSS LISTS button on the SYSTEM STATUS window to view the VIDEO LOSS LISTS.
- Each of the pages contains 4 lists. You can search the pages by clicking the UP/DOWN button.
- □ Click the (EXIT) button to return to the LIVE or RECORD mode.



[Fig.6-20 VIDEO LOSS LISTS window]



[Fig.6-21 VIDEO LOSS window]

#### CLEAR LISTS button

Click the CLEAR LISTS button to clear the lists, you will be prompted to confirm changes. When you click the OK button, the VIDEO LOSS LISTS will be deleted.

To cancel, click the CANCEL button



[Fig.6-22 VIDEO LOSS LISTS Message window]

#### 6-8. Record



This system provides Watchdog function.

When power goes off during recording and the power turns on, the system will automatically start to record.

#### 6-8.1. Manual (Continuous) recording

- Click the SETUP icon on the MENU bar in the LIVE mode.
- Click the RECORD button in the SETUP menu and the RECORD window will be displayed.
- Select the MANUAL RECORDING ( ) between the MANUAL RECORDING ( ) and the TIMER RECORDING ( ) as shown in Fig.6-23. All channels can be set at the same time by clicking the ALL ( ) or each of the channels can be set by clicking the MANUAL RECORDING ( ) on the CAM 1 through CAM 8.

  The MOTION ( ) and SENSOR ( ) as shown in Fig.6-23 should be turned **OFF** in this recording mode.
- Press the RECORD button on the front panel or click the RECORD icon on the MENU bar.



[Fig.6-23. Manual Recording setup]

#### 6-8.2. Manual Event Recording

- Click the SETUP icon on the MENU bar in the LIVE mode.
- Click the RECORD button in the SETUP menu and the RECORD window will be displayed.
- and the TIMER RECORDING ( ) between the MANUAL RECORDING ( ) and the TIMER RECORDING ( ) as shown in Fig.6-24. All channels can be set at the same time by clicking the ALL ( ) or each of the channels can be set by clicking the MANUAL RECORDING ( ) on the CAM 1 through CAM 8.

The MOTION ( and SENSOR ( as shown in Fig.6-24 should be turned **ON** in this recording mode.

Press the RECORD button on the front panel or click the RECORD icon on the MENU bar.



[Fig.6-24 Manual Event Recording setup]

#### 6-8.3. Timer Recording

- Click the SETUP icon on the MENU bar in the LIVE mode.
- Click the RECORD button in the SETUP menu and the RECORD window will be displayed.
- Select the TIMER RECORDING ( ) between the MANUAL RECORDING ( ) and the TIMER RECORDING ( ) as shown in Fig.6-25. All channels can be set at the same time by clicking the ALL ( ) or each of the channels can be set by clicking the TIMER RECORDING ( ) on the CAM 1 through CAM 8.
  The MOTION ( ) and SENSOR ( ) as shown in Fig.6-25 should be turned OFF in this recording mode.
- Choose one among WEEKDAY, SATURDAY and SUNDAY in the TIMER menu by clicking the mouse on () that turns to (). You can choose the value or by repeatedly clicking the mouse.
- Select the Starting Time and Ending Time by clicking the mouse, change the values with the mouse's wheel and click the mouse again on the changed values to complete as shown in Fig.6-27. The recording time can be set in military hour mode (24hour).
- Press the RECORD button on the front panel or click the RECORD icon on the MENU bar.



[Fig.6-25 Timer Recording setup]

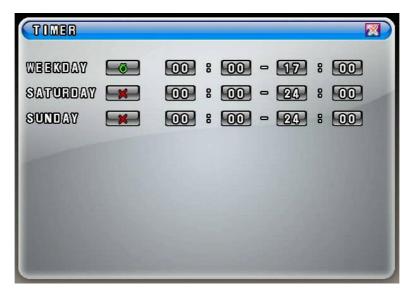
#### 6-8.4. Timer Event Recording

- Click the SETUP icon on the MENU bar in the LIVE mode.
- Click the RECORD button in the SETUP menu and the RECORD window will be displayed.
- Select the TIMER RECORDING ( ) between the MANUAL RECORDING ( ) and the TIMER RECORDING ( ) as shown in Fig.6-26. All channels can be set at the same time by clicking the ALL ( ) or each of the channels can be set by clicking the TIMER RECORDING ( ) on the CAM 1 through CAM 8.

  The MOTION ( ) and SENSOR ( ) as shown in Fig.6-26 should be turned **ON** in this recording mode.
- Choose one among WEEKDAY, SATURDAY and SUNDAY in the TIMER menu by clicking the mouse on () that turns to (). You can choose the value or
   by repeatedly clicking the mouse.
- Select the Starting Time and Ending Time by clicking the mouse, change the values with the mouse's wheel and click the mouse again on the changed values to complete as shown in Fig.6-27. The recording time can be set in military hour mode (24hour).
- Press the RECORD button on the front panel or click the RECORD icon on the MENU bar.



[Fig.6-26 Timer Event Recording setup]

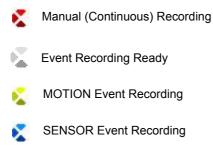


[Fig.6-27 Example for Timer Recording]

#### 6-8.5. Recording Icons

The Recording Icons depends on recording modes are displayed on the upper left hand corner of the screen.

To turn the Recording Icon OFF, click the DISPLAY ON in the RECORD menu and then it will be turned OFF. You can select the value **ON** or **OFF** by repeatedly clicking the mouse.



[Fig.6-28 Recording Icons]

### 6-9. REPLAY

#### 6-9.1. QUICK REPLAY

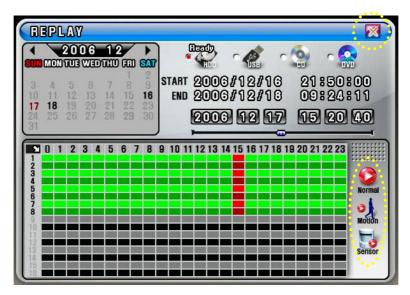
It is available only by pressing the PLAY button on the front panel or the QICK SEARCH button on the remote controller.

Press the PLAY button, and the recent recorded list will be played.

#### 6-9.2. REPLAY



- Click the REPLAY icon on the MENU bar, and the REPLAY window as shown in Fig.6-29 will be displayed.
- □ Click the (EXIT) button to return to the previous mode.

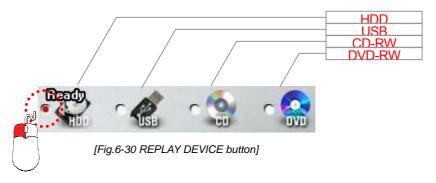


[Fig.6-29 REPLAY window]

#### 6-9.2.1. Playback Devices

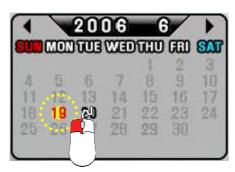
In order to payback, plug the USB devices such as external USB HDD, USB memory to the USB port or insert a recorded media (CD-R/W or DVD-R/W) into the DVD-R/W drive. When the devices are ready to playback, the **Ready** on the corresponding devices will be displayed in shown in Fig.6-30.

Click the mouse on a device among HDD, USB, CD-R/W and DVD-R/W that is displaying the **Ready** (See Fig.6-30). The corresponding LED will be lit in red when the device is selected.



#### 6-9.2.2. Set the Start Time

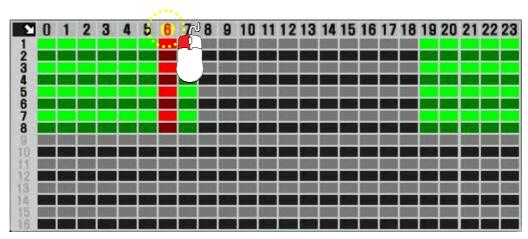
- Select the Date (year / month / day) on the calendar by clicking the mouse on the highlighted character in black that turns to highlighted character in red (See Fig.6-31).
   The highlighted character in black indicates the dates and times that recorded data exists, and the highlighted character in red indicates the selected dates and times.
- □ Select the month (year) by clicking the mouse on the ◀button or ▶ button.



[Fig.6-31 Calendar window]

 Select the hour on the Start Time Select Window (See Fig.6-32) by clicking the mouse on the Hour (0 – 23 hour) you wish to start to play.

The green active buttons indicate the HOUR that recorded data exists, and the red active buttons indicate the selected Start HOUR.



[Fig.6-32 Start Time Select window]

#### By using the Replay Time set-up buttons:

The time and date can also set on the Replay Time set-up button window (See Fig.6-33).

Select the values (year/month/date and hour/minute/second) by clicking the mouse, change the values with the mouse's wheel and click the mouse again on the changed values to complete as shown in Fig.6-33.



[Fig.6-33 Replay time set-up button]

#### By using the Replay Time set-up bar:

The starting time to play can also be set by clicking the slider on the bar and dragging it or clicking the bar.



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#### 6-9.2.3. Replaying

Replaying start time set-up can be possible within a recording time extent.

Replay buttons (NORMAL / MOTION / SENSOR)



NORMAL PLAY: Click the button to play all the recorded data.



MOTION PLAY: Click the button to play the recorded data by MOTION only.



SENSOR PLAY: Click the button to play the recorded data by SENSOR only.

6. How to Operate

#### How to control while replaying



[Fig.6-35 Replay screen]

1 Search Slider

It is possible to playback by clicking the slider on the bar and dragging it.

② PLAY / PAUSE



button to pause.



button to replay when in the pause mode.

③ REW/FF

button, or turn the shuttle ring on the During replaying, press the front panel for fast rewinding and fast forwarding up to 128 times.

button to accelerate the speed up to 128 times. Keep pressing the (Same as shuttle ring)

(4) PREV / NEXT

button to view previous frame in still image and press During replaying, press the



e button to view the next frame in still image.

⑤ Speaker ON / OFF Turn speaker ON or OFF.

⑤ Speaker Volume
Adjust the Audio Volume by clicking the ▲ or the ▼ button when the AUDIO is turned ON.

#### 6-9.2.4. Disappearance of Replay control buttons

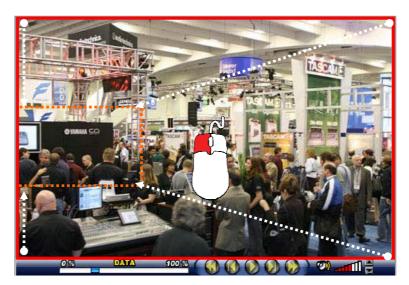
During replaying, the replay control buttons appear on the bottom of the screen. To disappear, drag the mouse pointer downward until the replay control buttons disappear and to appear, drag the mouse pointer upward until the replay control buttons appear.

- Click the mouse on one out of channels during replaying to view a full screen.
- Click the mouse on the full screen during replaying to return to the split screen.



[Fig.6-36 SPLIT screen during replaying]



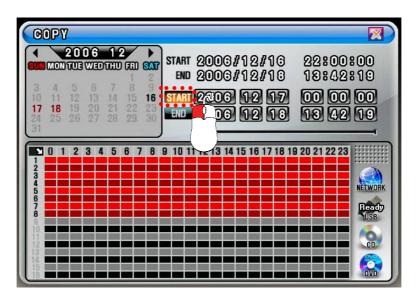


[Fig.6-37 FULL screen during replaying]

#### 6-10. COPY



- Click the COPY icon on the MENU bar, and the COPY window as shown in Fig.6-38 will be displayed.
- Click the (EXIT) button to return to the previous mode.



[Fig.6-38 COPY window]

#### 6-10.1. Copying devices

In order to copy the recorded data, plug the USB devices such as external USB HDD, USB memory to the USB port or insert a blank media (CD-R/W or DVD-R/W) into the DVD-R/W drive.

When the devices and Medias are ready to copy, the **Ready** on the corresponding devices and Medias will be displayed in shown in Fig.6-38.

We recommend you to format the USB devices prior to copy the recorded data as follows, but the Medias such as CD-R/W and DVD-R/W don't need to format.

- Connect the USB devices to the DVR
- Click the SETUP icon on the MENU bar, and the SETUP menu will be displayed.
- Click the DISK MANAGER in the SETUP menu, and the DISK MENAGER will be displayed.
- Click the mouse on the USB button in the DISK MANAGER, and you will be asked.
- Click the OK, and then the progressive bar will be shown along with FORMATTING USB....

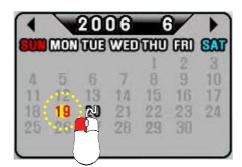
#### In regards to blank Medias (CD-R/W and DVD-R/W)

Most Medias can be used with the system, but some of them may be not compatible with. Refer to the included instructions related to Medias or visit the website of DVD/CD DRIVE unit manufacturer for more information.

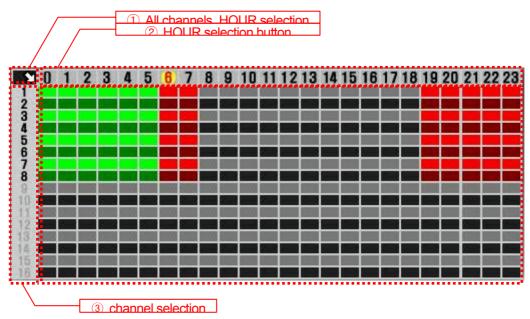
#### 6-10.2. Set the Copy Start Time (Copying extent)

- Select the Date (year / month / day) on the calendar by clicking the mouse on the highlighted character in red that turns to highlighted character in black (See Fig.6-39).
   The highlighted character in black indicates the dates and times that recorded data exists, and the highlighted character in red indicates the selected dates and times.
- Select the month (year) by clicking the mouse on the ◀button or ▶ button.
- Select the hour on the Copy Start Time and Channel Selection Window (See Fig.6-40) by clicking the mouse on the Hour (0 23 hour) you wish to start to copy.

The green active buttons indicate the HOUR that recorded data exists, and the red active buttons indicate the selected Start HOUR.



[Fig.6-39 Calendar for Copying]



[Fig.6-40 Copy Start time and Channel Selection window]

- 1 All channels, HOUR selection button.
  - Click the arrow button on the upper left corner as shown in Fig.6-40 to set the full extent of the recording and all the channels simultaneously.
- 2 HOUR selection button
  - Select the start time to copy by clicking the mouse on HOUR (0-23: in the military hour).
  - Thereafter the extent of the recording will be saved on.
- ③ Channel selection button
  - Some channels can be selected by clicking the mouse on the corresponding channels.

#### By using the Copy Start/End set-up buttons:

The time and date can also set on the Copy Start/End set-up buttons window (See Fig.6-41).

 Select the values (year/month/date and hour/minute/second) by clicking the mouse, change the values with the mouse's wheel and click the mouse again on the changed values to complete as shown in Fig.6-41.



[Fig.6-41 Copy Start/End setup buttons]

#### By using the Start/End set-up bar:

The starting time to copy can also be set by clicking the slider on the bar and dragging it or just click the bar.



[Fig.6-42 Copy Start/End setup bar]

#### 6-10.3. Set the Copy End Time (Copying extent)

Refer to the above explanation (See section 6.10.2.).

#### 6-10.4. Copying the recorded data during replaying

The system, CDR0850 allows users to copy the recorded data during replaying.

- Start replaying (See section 6-9).
- Right-click on the replaying screen, and the COPY DATA screen will be displayed (See Fig.6-43).
- To set the starting time and date to copy, select the values (year/month/date window and hour/minute/second) on the COPY DATA window by clicking the mouse, change the values with the mouse's wheel and click the mouse again on the changed values to complete.
- Select each of channels (1 through 8 in red) or "A" in black for all the channels on the
   COPY DATA window, and click on the SELECTED button to save.



[Fig.6-43 Start Copy Time Setup window]

- To set the ending time and date to copy, right-click on the replaying screen again, and the COPY DATA window that contains end time for copying will be displayed (See Fig.6-44). Set the ending time and date to copy as described above.
- To select the COPY MODE, click on the GO TO COPY button (See Fig.6-44), and the COPY window (See Fig.6-38) will be displayed. The time and date (starting time and ending time) to copy can be changed on the COPY window as well (See section 6-10.2).



[Fig.6-44 End Copy Time Setup window]

 Choose one among NETWORK, USB, CD and DVD which are ready to copy (See section 6-10.1).

#### **Select COPY Mode**

Only when the devices and medias are ready to copy, the **Ready** on the corresponding devices and medias will be displayed.



#### **NETWORK COPY**

Save the recorded data in **PC** through the **SmViewer** by Network.

Click the **Network** button on the **SmViewer** to start copy. It is available only on the **SmViewer** (not on the DVR) and the networking should be connected to the DVR.



#### **USB COPY**

Save the recorded data in USB Device.

Click the **USB Device** button to start copy.



#### **CD-RW COPY**

Save the recorded data on CD-R/W Medias.

Click the CD-R/W button to start copy.



#### **DVD-RW COPY**

Save the recorded data on DVD-R/W Medias.

Click the **DVD-R/W** button to start copy.

 As soon as one of the above button is clicked, copying will start along with displaying the icon shown in Fig.6-45.

The following icon indicates that copying is in process.



[Fig.6-45 Copying Icon]

# 7

# **SETUP**

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# **7-1. SETUP**





It is possible to set up the menus in the LIVE mode and partly in the RECORD mode.

- Click the "SETUP" button on the MENU bar and the SETUP menu will be displayed.



[Fig.7-2 SETUP menu]

# **7-2. SYSTEM**

- Click the "SYSTEM" button in the SETUP menu, and the SYSTEM menu shown in Fig.7-3 will be displayed.
- Click the EXIT" button to return to the SETUP menu.



[Fig.7-3 SYSTEM menu]

#### 7-2.1. TIME / DATE

- Click the "TIME/DATE" button in the SYSTEM menu, and the TIME/DATE menu will be displayed (See Fig.7-4).



[Fig.7-4 TIME / DATE menu]

#### TIME FORMAT

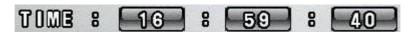
Click the mouse on the TIME FORMAT button to change and then select 24 HOUR or 12 HOUR by clicking the mouse.



[Fig.7-5 Time Format button]

#### TIME Settings

Select the values (AM or PM and hour/minute/second) by clicking the mouse, change the values with the mouse's wheel and click the mouse again on the changed values to complete.



[Fig.7-6 Time Setting]

#### DATE FORMAT

There are three formats to display the time and date as follow.

- MM / DD / YYYY: For U.S.A.
- YYYY / MM / DD: For Asian countries.
- DD / MM / YYYY: For European countries.

Click the mouse on the DATE FORMAT button to change, and then select a DATE FORMAT among YYYY/MM/DD, DD/MM/YYYY and MM/DD/YYYY.



[Fig. 7-7Date Format button]

#### DATE Settings

Select the month, date and year by clicking the mouse, change the values with the mouse's wheel and click the mouse again on the changed values to complete.

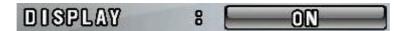


[Fig.7-8 Date Settings button]

#### DISPLAY

It enables you to display the time and date on the Live screen.

Click the DISPLAY button to set display on or off.



[Fig. 7-9 Display button]

Note: Setting the new time will cause loss of recording data. After setting the time, HDD should be formatted prior to start recording.

#### 7-2.2. SYSTEM CONFIG

- Click the "SYSTEM CONFIG" button in the SYSTEM menu, and the SYSTEM CONFIG menu will be displayed (See Fig.7-10).
- $^{\scriptscriptstyle \rm D}$  Click the  $\,$  "EXIT" button to return to the SYSTEM menu.



[Fig.7-10 SYSTEM CONFIG]

#### 7-2.2.1. FACTORY DEFAULT

 Click the "FACTORY DEFAULT" button in the SYSTEM CONFIG menu, and you will be asked as shown in Fig.7-12.

# FACTORY DEFAULT : FACTORY DEFAULT

[Fig.7-11 Factory Default button]

- Click the "OK" button in Fig.7-12 to reset to the Factory Default Values, and then the system will save the factory default values (settings).
  - Click the CANCEL button to cancel.



[Fig.7-12 Confirmation window of Factory Default]

# 7-2.2.2. LOAD CONFIG / BACKUP CONFIG

You can save up to four different settings in the BACKUP CONFIG and load the files in the LOAD CONFIG to change the settings to the system.

# LOAD CONFIG

This function is to load the changed settings to the system.

- Click the LOAD CONFIG button and the LOAD CONFIG window will be displayed (See Fig.7-14).
- Select a blank file among FILE 1, FILE 2, FILE 3 and FILE 4 by clicking the mouse and click the LOAD button to change the settings (See Fig.7-14).
- Click the CANCEL button to cancel.



[Fig.7-13 LOAD CONFIG button]



[Fig.7-14 LOAD CONFIG window]

#### BACKUP CONFIG

This function is to save the current settings to load the settings to the system. Save the current settings in the BACKUP CONFIG in order to load it to the system in the near future whenever you change the settings.

- Click the BACKUP CONFIG button and the BACKUP CONFIG window will be displayed (See Fig.7-16).
- Select a blank file among FILE 1, FILE 2, FILE 3 and FILE 4 by clicking the mouse and click the BACKUP button to save the current setting (See Fig.7-16).
- To delete, click the mouse on the saved file and click the DELETE button.
- Click the CANCEL button to cancel.



[Fig.7-15 BACKUP CONFIG button]



[Fig.7-16 BACKUP CONFIG window]

#### 7-2.3. PASSWORD

#### ON/OFF

Select ON or OFF by clicking the mouse.

If the ON is selected, the password has to be entered to get into the SETUP mode, RECORD mode, COPY mode, REPLAY mode, and when trying to connect the network through the **SmViewer**.

#### PASSWORD CHANGE

Click the password "\*\*\*\*\*\*\*" button and the On Screen Keyboard will be displayed as shown in Fig.7-17. The factory default password is "11111111".

Delete the existing password with the button on the On Screen Keyboard. Enter the new password by using the On Screen Keyboard and click on the OK button to save. **The password should be 8 digits.** 

If you executed the factory default setting, the existing password will be changed to "11111111".



[Fig.7-17 PASSWORD KEYBOARD window]



Note: Don't forget the password.

#### 7-2.4. IR REMOTE ID

Up to 16 DVR systems can be controlled by only one remote controller we provided, but IDs should be assigned on each of the systems. You don't have to assign any ID on the single unit and you can control the system with the provided remote controller without IR REMOTE ID, which is in the OFF mode (Skip this section).

 Click the IR REMOTE ID button and select one among OFF, 1 through 16 to assign an ID on the system by clicking the mouse.



[Fig.7-18 IR REMOTE ID button]

When an IR Remote ID is assigned on the system, click the "FREEZE" button and then on the remote controller, click the same channel button as assigned ID on the system to match the IDs between the system and the remote controller.

When the FREEZE button and the channel button are pressed on the remote controller,

- if the channel button is identical to the assigned ID, the DETECT IR ID as shown in Fig.7-19 will be displayed along with the IR ID number.
- if not, the IR ID DENIED as shown in Fig.7-20 will be displayed along with the IR ID number.



Fig.7-19 DETECT IR ID Message



Fig.7-20 IR ID DENIED Message

#### 7-2.5. FIRMWARE UPDATE

There are two ways to update the firmware through **USB memory** and the **SmViewer** (GUI). We recommend users to update the firmware only in the LIVE mode.

#### By USB memory

- Format the USB with your computer and save the firmware file on it (not including folder).
- Plug it on the USB port on the DVR.
- Click the mouse on the SELECT button in the SYSTEM menu and the FIRMWARE LIST will be displayed.
- Click on the list, and then You will be asked, OK or CANCEL.
- Click the OK button to update the firmware and the system will automatically start to reboot.
- Click the CANCEL button to cancel.

#### By SmViewer (GUI)

Refer to section 8-4.1 4 Firmware Update on page 136.

#### 7-2.6. SYSTEM INFO

- Click the "SYSTEM INFO" button in the SYSTEM menu and the SYSTEM INFO that contains the system version and the last updated date will be displayed.
- Click the (EXIT) button to return to the SETUP menu.



[Fig.7-21 SYSTEM INFORMATION window]

# 7-3. DISK MANAGER

- Click the "DISK MANAGER" button in the SETUP menu and the DISK MANAGER window will be displayed (See Fig.7-22).
- Click the (EXIT) button to return to the SETUP menu.
- A DVD R/W and 3 Hard Disk Drives can be installed, and all information in regards to the drives will automatically display on the DISK MANAGER window.

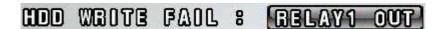


[Fig. 7-22 DISK MANAGER window]

#### 7-3.1. HDD WRITE FAIL

If HDD is in full and the OVERWRITE on the HDD is turned OFF in the recording mode, the system will activate the relay output (See section 5-4.3) for a siren or other device.

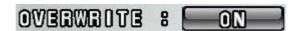
 Click the HDD WRITE FAIL button in the DISK MANAGER window and select one among RELAY 1 OUT, RELAY 2 OUT, RELAY 3 OUT, RELAY 4 OUT or DISABLE.



[Fig. 7-23 HDD Write Fail button]

#### 7-3.2. HDD OVERWRITE

Click the mouse on the OVERWRITE button to select the ON or the OFF. If the ON is selected, the system continues recording by overwriting start from the first index of the recorded file even though the space of HDD is in full. If the OFF is selected, the system will stop recording when the space of HDD is in full.



[Fig.7-24 Overwrite button]

#### 7-3.3. Format

When you install the new Hard Disk Drives (HDD), it should be formatted before recording. Formatting is possible only when the system is in the LIVE mode.

- Click the "HDD or USB" button to format and the HDD or USB FORMAT message box will be displayed (See Fig.7-25).
- Click the "OK" button, and you can see the formatting process of the HDD.
- Click the "CANCEL" button to return to the Disk Manager.



[Fig.7-25 HDD FORMAT window]

# 7-4. CAMERA

- Click the "CAMERA" button in the SETUP menu and the CAMERA menu will be displayed (See Fig.7-26). To change the settings in the CAMERA menu, stop recording by clicking the RECORD icon on the MENU BAR. It is possible only in the LIVE mode.
- Click the (EXIT) button to return to the SETUP menu.



[Fig.7-26 CAMERA menu]

#### 7-4.1. Camera ON/OFF

Click on each of the channels to select the "O" or "X" in the CAMERA menu. If the "O" is selected, the corresponding video channels (CAM 01 through CAM 08) will be displayed on the screen. If the "X" is selected, the corresponding video channels (CAM 01 through CAM 08) won't be displayed.



[Fig.7-27 Camera ON/OFF button]

# 7-4.2. Camera Name (Camera Title)

- Click the NAME (Camera Title) button in the CAMERA menu and the On Screen Keyboard will be displayed as shown in Fig.7-28.
- Delete the existing NAME (Camera Title) with the button on the On Screen Keyboard.
- Enter the new NAME up to 8 characters by using the On Screen Keyboard and click on the
   OK button to save. Click on the CANCEL button to cancel.
- Click the (EXIT) button to return to the SETUP menu.



[Fig.7-28 Camera Name Setting Keyboard window]

## 7-4.3. Buzzer

In order to alert users, the Buzzer will sound at that time video signal lost.

Click on each of the channels you wish to turn the buzzer "ON" or "OFF". If the "O" is selected, the buzzer will sound when video signal lost and if the "X" is selected, the buzzer won't sound.



[Fig.7-29 Buzzer button]

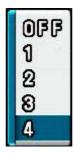
# 7-4.4. Relay

The system will automatically activate sirens or other devices through the Relay Outputs on the rear panel when video signal lost.

Click on each of the channels you wish to select the Relay Outputs among "OFF", "1", "2", "3" and "4".



[Fig.7-30 Relay button]



[Fig.7-31 Relay pop-up window]

# 7-4.5. Pan/Tilt Settings

- Click the PAN/TILT button on the corresponding channels in the CAMERA menu and the PAN/TILT window will be displayed as shown in Fig.7-33.
- Click the (EXIT) button to return to the CAMERA menu.



[Fig.7-32 PAN/TILT button]



[Fig.7-33 PAN/TILT window]

Pan/Tilt Vendor select

Click the "PAN/TILT & REMOTE" button in the PAN/TILT window and the vendor lists will show up. Select a vendor on the vendor lists by clicking the mouse.



Fig.7-34 PAN/TILT & REMOTE



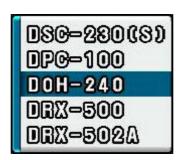
[Fig.7-35 PAN/TILT Vendor lists]

Model

Click the "MODEL" button in the PAN/TILT window and select the model on the pop-up lists by clicking the mouse.



[Fig.7-36 MODEL button]



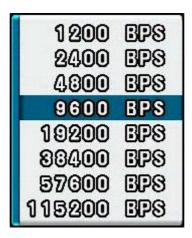
[Fig.7-37 PAN/TILT Model pop-up window]

#### Baud rate

Click the "BAUD RATE" button in the PAN/TILT window and choose a value among 1200bps, 2400bps, 4800bps, 9600bps, 19200bps, 38400bps, 57600bps and 115200bps on the Baud Rate pop-up window by clicking the mouse.



[Fig.7-38 BAUDRATE button]



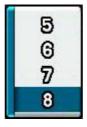
[Fig.7-39 Baud Rate pop-up window]

# Data Bits

Click the "DATA BITS" button in the PAN/TILT window and choose a value among 5, 6, 7 and 8 on the Data Bits pop-up window by clicking the mouse.



[Fig.7-40 DATA BITS button]



[Fig.7-41 Data Bits pop-up window]

## Stop Bits

Click the "STOP BITS" button in the PAN/TILT window and select 1 or 2 on the Stop Bits pop-up window by clicking the mouse.



[Fig.7-42 STOP BITS button]



[Fig.7-43 Stop Bits pop-up window]

## Parity Bit

Click the "PARITY BITS" button in the PAN/TILT window and choose a value among NONE, ODD, EVEN, STICK and ZERO on the Parity Bits pop-up window by clicking the mouse.



[Fig.7-44 PARITY BIT button]



[Fig.7-45 Parity Bit pop-up window]

# 7-4.6 Display

Click the DISPLAY button in the CAMERA menu and select the ON or OFF. If the "ON" is selected, the camera name (camera title) in the LIVE mode will be displayed on the screen. If the "OFF" is selected, the camera name (camera title) in the LIVE mode won't be displayed.



[Fig.7-46 Display ON/OFF button]

# 7-4.7 Sequencing dwell time

 Click the "SEQUENCING DWELL" button in the CAMERA menu and choose a value among 1, 2, 3, 4 and 5 seconds on the dwell time pop-up window by clicking the mouse.

# SEQUENCING DWELL TIME : 1 SECOND

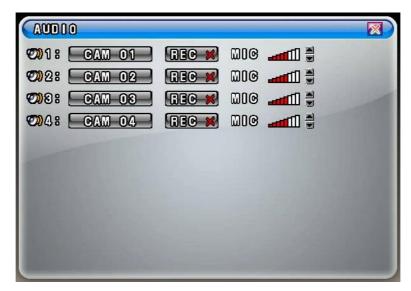
[Fig.7-47 Sequencing Dwell Time button]



[Fig.7-48 Sequencing Dwell Time pop-up window]

# **7-5. AUDIO**

- Click on the AUDIO button in the SETUP menu and the AUDIO menu will be displayed on the screen.
- □ Click the (EXIT) button to return to the SETUP menu.



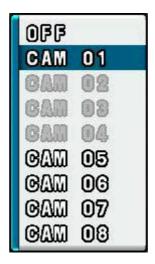
[Fig.7-49 AUDIO menu]

#### 7-5.1. Camera Channel

Click the Camera Channel button in the AUDIO menu and select up to 4 cameras among CAM 01 through CAM 08 which has audio function by clicking the mouse on the camera channel pop-up window.



[Fig.7-50 Camera Channel button]



[Fig.7-51 Camera Channel pop-up window]

# 7-5.2. Audio Recording ON/OFF

Click the REC (audio recording) button in the AUDIO menu and select the "O" or "X" by clicking the mouse. If the "O" is selected, the corresponding channel's audio will record along with video signal. If the "X" is selected, the corresponding channel's audio won't record but video signal will record continuously.



[Fig.7-52 Record ON/OFF button]

# 7-5.3. Microphone Volume

□ Adjust audio volume by clicking the ▲ or ▼ button.



[Fig.7-53 Microphone Volume control button]

# 7-6. RECORD

- Click the "RECORD" button in the SETUP menu and the RECORD menu will be displayed as shown in Fig.7-54.
- Click the (EXIT) button to return to the SETUP menu.



[Fig.7-54 RECORD menu]

#### 7-6.1. Record ICON Display

- The Recording Icons depends on recording modes are displayed on the upper left corner of the screen.
- To turn the Recording Icon OFF, click the DISPLAY ON in the RECORD menu and then it will be turned OFF. You can select the value **ON** or **OFF** by repeatedly clicking the mouse.



[Fig.7-55 Record ICON Display button]

# 7-6.2. All Manual / Timer recording button

- Click the All Manual / Timer recording button in the RECORD menu and the All Manual / Timer recording button will be displayed as shown in Fig.7-57.
- Select the Manual Recording button or Timer Recording button for all the channels by clicking the mouse in Fig.7-57.
- See section 6-8.1 through 6-8.5 on page 53 through 56 for more information related to recording.



[Fig.7-56 All Manual / Timer button]



[Fig. 7-57 All Manual / Timer pop-up window]

#### 7-6.3. All Motion ON / OFF, Sensitivity and Velocity Setting

- Click the button in the RECORD menu and the ALL MOTION setup pop-up window will be displayed as shown in Fig.7-59.
- By clicking the mouse, select the BUABLE on the pop-up window (See Fig.7-59) to enable the system to start recording by motion detection for all the channels.
- By clicking the mouse, select the ΔΔΔ 🚜 DOSABLE on the pop-up window (See Fig.7-59) to disable the system to start recording by motion detection for all the channels.
- By clicking the mouse, select the SEDSUTUVUTY DOGO on the pop-up window (See Fig.7-59) and choose one of the sensitivity among LOW, 1, 2, 3 and HIGH for all the channels with the mouse's wheel, and then click it to save.
- By clicking the mouse, select the WELOGOTY WOOD on the pop-up window (See Fig.7-59) and choose one of the velocity among LOW, 1, 2, 3 and HIGH with the mouse's wheel, and then click it to save.
- See section 6-8.1 through 6-8.5 on page 53 through 56 for more information related to recording.



[Fig.7-58 All Motion Setup button]



Fig.7-59 All Motion Setup pop-up window



[Fig.7-60 All Motion Sensitivity setup button]

# 7-6.4. All Sensors ON / OFF

- Click the button in the RECORD menu and the ALL SENSOR setup pop-up window will be displayed as shown in Fig.7-62.
- By clicking the mouse, select the BNABLE on the pop-up window (See Fig.7-62) to enable the system to start recording by Sensor (Passive Infrared sensor) for all the channels.
- By clicking the mouse, select the DOSABLE on the pop-up window (See Fig.7-62) to disable the system to start recording by Sensor (Passive Infrared sensor) for all the channels.



[Fig.7-61 All Sensor Setup button]



[Fig.7-62 All Sensor Setup pop-up window]

# 7-6.5. Size (Recording Resolution)

Select the size of the screen for recording. The larger the size selected, the better display quality is but the larger the data becomes.

- Click the SIZE (Recording Resolution) button on each of the channels in the RECORD menu and the SIZE (Recording Resolution) pop-up window will be displayed as shown in Fig.7-64.
- Select one of the Resolution among D1 (720x480), HALF D1 (720x240) and CIF (360x240) on the pop-up window by clicking the mouse.



[Fig.7-63 Record Size button]



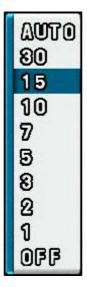
[Fig.7-64 Record Size pop-up window]

# 7-6.6. Recording Speed

- Click the F/S (Frames Per Seconds: Recording Speed) button on each of the channels in the RECORD menu and the Recording Speed pop-up window will be displayed as shown in Fig.7-66.
- Select one of the Recording Speed among AUTO, 30, 15, 10, 7, 5, 3, 2, 1 and OFF on the pop-up window by clicking the mouse.
- If the AUTO is selected on all the channels, the Recording Speed on all the channels should be the same. If the OFF is selected, the corresponding channel won't be recording.



[Fig.7-65 Record Speed button]



[Fig.7-66 Record Speed pop-up window]

NTSC	30
	15
	10
	7
	5
	3
	2
	1
	OFF

	25
	12
	8
	6
PAL	5
	3
	2
	1
	OFF

[Fig.7-67 Recording Speed for each channel]

# 7-6.7. Recording Quality

- Click the QUALITY button on each of the channels in the RECORD menu and the QUALITY pop-up window will be displayed as shown in Fig.7-69.
- Select one of the Recording Quality among LOW, NORMAL, HIGH and BEST on the popup window by clicking the mouse.



[Fig.7-68 Record Quality button]



[Fig.7-69 Record Quality pop-up window]

## 7-6.8. Recording Mode

The factory default setting for Recording is the Manual Recording (or called Continuous Recording), which keeps recording continuously if the OVERWRITE is set ON in the DISK MANAGE menu. This Manual Recording mode is not only one of the most popular Recording modes for users, but also one of the most convenient Recording modes to use.

Users can select one of the following Recording modes depends on their application.

## 7-6.8.1. Manual Recording

See section 6-8.1 on page 53.

## 7-6.8.2. Manual Event Recording

See section 6-8.2 on page 53.

## 7-6.8.3. Timer Recording (Schedule Recording)

See section 6-8.3 on page 54.

#### 7-6.8.4. Timer Event Recording

See section 6-8.4 on page 55.

#### 7-6.9. Recording by Motion Detection

When the menu of motion properly setup (See section 7-6.3 on page 101 for all the channels and this section for each of the channels) and detects motion of objects, the system begins to record automatically. The recording icon on the MENU bar should be selected in this recording mode. If not, it won't be recording.

- Click the mouse on the button for each of the channels in the RECORD menu and the MOTION menu will be displayed on the screen as shown in Fig.7-70.
- Click the (EXIT) button to return to the RECORD menu.



[Fig.7-70 MOTION menu]

#### ON/OFF

The system will start to record when MOTION is detected and the ON is selected in the MOTION menu by clicking the mouse. If the OFF is selected, the system won't be recording.



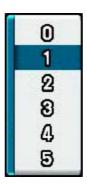
[Fig.7-71 MOTION ON/OFF button]

# Pre-Alarm Time Setup

Allows you to record a section of video just prior to Motion or Sensor activation. Click the mouse on the PRE in the MOTION menu and choose one of the values among 0, 1, 2, 3, 4 and 5 seconds with the mouse's wheel, and then click it to save.



[Fig.7-72 Pre-Record Time setup button]



[Fig.7-73 Pre-Alarm Time Setup pop-up window]

# Motion Hold Time Setup

The system continues recording for the MOTION HOLD TIME and finishes the recording. Click the mouse on the HOLD in the MOTION menu and choose one of the values among 1 through 30 seconds with the mouse's wheel, and then click it to save.



Fig. 7-74 Hold-Record Time Setup button]

## Spot Setup

If the "ON" is selected by clicking the mouse on the SPOT button in the MOTION menu, a full screen will display when a motion is detected. If the "OFF" is selected, the full screen won't be displayed even though motion of objects is detected.



[Fig.7-75 Spot Setup button]

#### Region

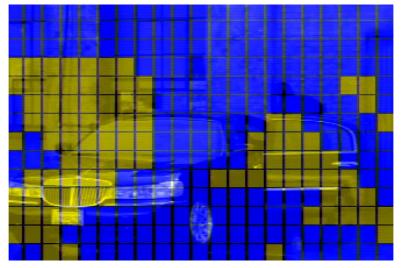
The Motion Detection Area displays in blue on the screen, and it turns to yellow color when the motion is detected. The white color on the screen represents none of detection area. There are three kinds of REGION settings as follows.

## By All Set

Click the ALL SET button in the MOTION menu on each of the cameras and the Motion Detection Area displays in blue on the screen as shown in Fig.7-77. Right-click on the blue screen to return to the MOTION menu. The factory default value is the ALL SET.



[Fig.7-76 ALL SET button]



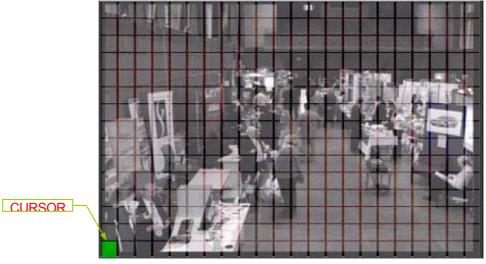
[Fig.7-77 All Set screen]

## - All Clear

Click the ALL CLEAR button in the MOTION menu in order to clear the Motion Detection Area, and the window turns to white color as shown in Fig.7-79. Right-click on the current window to return to the MOTION menu.



[Fig.7-78 ALL CLEAR button]



[Fig.7-79 All Cleared screen]

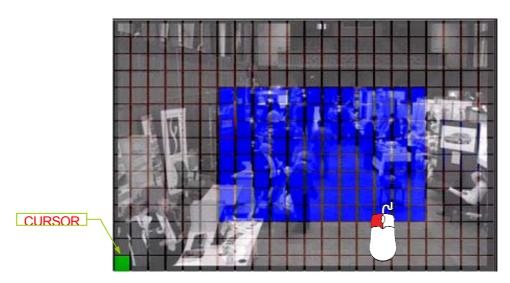
## By Window Set

Click the WINDOW SET button in the MOTION menu on each of the cameras and click one of cells (330 cells in total) for the starting point of the area which you would like to designate, and then click the other one of cells for the ending point of area until the motion detection area is the size you want it to be. The multiple motion areas can be set on each of cameras.

The motion detection by Window Set will be made on the designated area only. Right-click on the current window to return to the MOTION menu.



[Fig.7-80 WINDOW SET button]



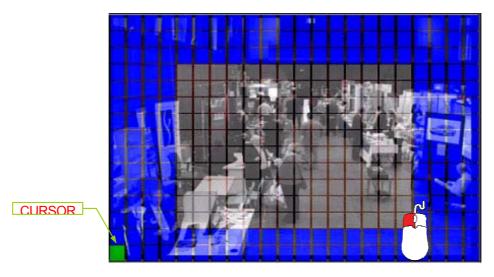
[Fig.7-81 Window Set screen]

## - Window Clear

Click the WINDOW CLEAR button in the MOTION menu in order to clear the Motion Detection Area, and the window you already created the motion detection area will be displayed. Click the starting point and the ending point as much as you wish to clear or it can be cleared by ALL CLEAR as described above (See ALL CLEAR). Right-click on the current window to return to the MOTION menu.



[Fig.7-82 WINDOW CLEAR button]



[Fig.7-83 Window Clear setup screen]

## By Each Cell

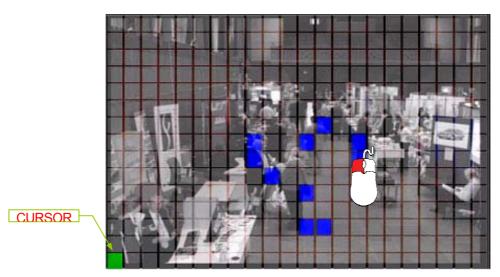
Click the EACH CELL button in the MOTION menu on each of the cameras and click the mouse on each of the cells as much as you would like to designate the Motion Detection Area.

To clear, click the designated cells.

Right-click on the current window to return to the MOTION menu.



[Fig.7-84 EACH CELL button]



[Fig.7-85 Each Cell Setup screen]

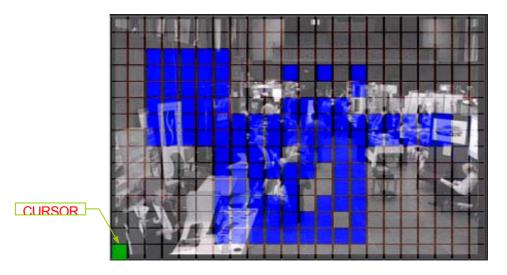
Map View

Click the MAP VIEW button in the MOTION menu to view the current settings for Motion detection area.

Right-click on the current window to return to the MOTION menu.



[Fig.7-86 MAP VIEW button]



[Fig.7-87 Map View screen]

Note: Please pay attention to the following directions in order to use the Motion Detection function properly:

- Adjust the sensitivity level and motion area to fit your requirements.
- Do not use this function in an area where many objects are continuously moving. In case of this, change the recording mode to the Continuous (Manual) Recording mode.
- Use a high quality camera that does not generate video static or "noise". The motion detection algorithm recognizes this "noise" as a motion and records the noise even if there was no actual motion.
- Do not point the camera toward a strong and changing lighting source; it can activate false motion detection.

## 7-6.10. Recording by Sensor (PIR Sensor)

- Click the mouse on the button for each of the channels in the RECORD menu and the SENSOR menu will be displayed on the screen as shown in Fig.7-88.
- □ Click the (EXIT) button to return to the RECORD menu.



[Fig.7-88 SENSOR window]

## ON/OFF

The system will start to record when Alarm is detected and the ON is selected in the SENSOR menu by clicking the mouse. If the OFF is selected, the system won't be recording.

If you select "OK", it will be recorded when only sensor is detected.



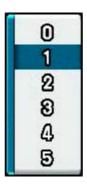
[Fig.7-89 SENSOR ON/OFF button]

## Pre-Alarm Time Setup

Allows you to record a section of video just prior to Sensor activation. Click the mouse on the PRE in the SENSOR menu and choose one of the values among 0, 1, 2, 3, 4 and 5 seconds with the mouse's wheel, and then click it to save.



[Fig.7-90 Pre-Alarm Time Setup button]



[Fig.7-91 Pre-Alarm Time Setup pop-up window]

## Alarm Hold Time Setup

The system continues recording for the Alarm HOLD TIME and finishes the recording. Click the mouse on the HOLD in the SENSOR menu and choose one of the values among 1 through 30 seconds with the mouse's wheel, and then click it to save.



[Fig.7-92 Alarm Hold Time Setup button]

## Spot Setup

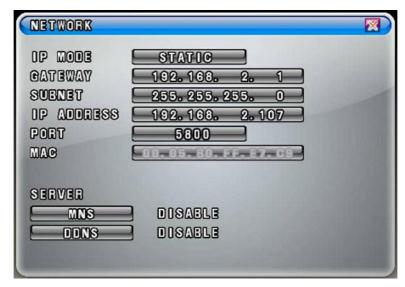
If the "ON" is selected by clicking the mouse on the SPOT button in the SENSOR menu, a full screen will display when a motion is detected. If the "OFF" is selected, the full screen won't be displayed even though alarm is detected.



[Fig.7-93 Spot Setup button]

# 7-7. NETWORK

- Click the "NETWORK" button in the SETUP menu and the NETWORK menu will be displayed on the screen as shown in Fig.7-94.
- Click the (EXIT) button to return to the SETUP menu.



[Fig.7-94 NETWORK menu]

#### 7-7.1. IP Mode

□ There are two kinds of IP MODE, "DYNAMIC IP" and "STATIC-IP" in the NETWORK menu.

**DYNAMIC IP**: automatically receives IP address from the router or gateway. With Dynamic IP, It doesn't need to enter the GATEWAY ADDRESS, SUBNET MASK, IP ADDRESS. **STATIC IP**: requires you to enter the GATEWAY ADDRESS, SUBNET MASK, IP ADDRESS.

- Click the "IP MODE" button in the NETWORK menu and the IP mode pop-up window will be displayed on the screen (See Fig.7-96).
- Select the STATIC or DYNAMIC by clicking the mouse, pressing the buttons on the front panel or remote controller depends on your networking.



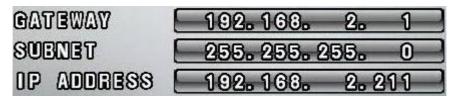
[Fig.7-95 IP Mode button]



[Fig.7-96 IP Mode pop-up window]

## 7-7.2. GATEWAY, SUBNET, IP ADDRESS

- Click the GATEWAY / SUBNET / IP ADDRESS button in the STATIC IP MODE and the On Screen Keyboard will appear.
- Delete the current values with the button and enter the address numbers by using
   On Screen Keyboard, and then click **OK** button to set with new address.
- Click the CANCEL button to return to the original values.



[Fig.7-97 Address Setup window]



[Fig.7-98 On Screen Keyboard]

#### 7-7.3. Port

- PORT is the TCP address of the program, which is used to connect to the network viewer.
   It can be set from 1 to 65535 values.
- Click the PORT button and the On Screen Keyboard will show up.
- Delete the current port number with the button and enter the new port number by using On Screen Keyboard, and then click "OK" button to set with new port number.
- Click the "CANCEL" button to return to the default value.



[Fig.7-99 Port Setup window]



[Fig.7-100 Port Setup Keyboard window]

## 7-7.3.1 Port Forwarding

- Router has to be set as a virtual server (or port forwarding) in order to utilize the
   MNS (Mac Name Server) or the DDNS service to use Internet Explorer (See section 8-3) on this product.
- Do not use the public port numbers.

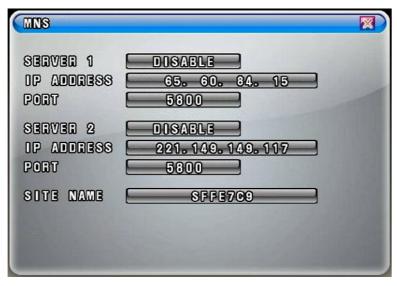
#### 7-7.4. MAC ID

MAC ID is connecting address for Ethernet, every unit has 12 digit address (HEX 6 byte).
 MAC ID was already assigned with the factory default value. User can not change it.

## 7-7.5. MNS (MAC NAME SERVER)

As a sort of DDNS, two servers in our company (CLOVER) are being operated so that our client can access DVR with a Dynamic IP address. If one of servers stops to operate, the other one will automatically start to work.

- Click the MNS button in the NETWORK menu with a mouse (buttons on the front panel or remote controller) and then the MNS window will show up as below (See Fig.7-101).
- □ To return to the **NETWORK** window, click the **(EXIT)** button in the **MNS** menu.



[Fig.7-101 MNS window]

#### DISABLE / ENABLE

You can select the **DISABLE** or **ENABLE** button on both SERVER 1 and SERVER 2 by clicking the mouse or pressing the **ENTER** button on the front panel or remote controller.

"DISABLE": MSN (MAC NAME SERVER) is not working.

"ENABLE": MSN (MAC NAME SERVER) is working.



[Fig.7-102 DISABLE/ENABLE button]

#### IP ADDRESS / PORT

DO NOT CHANGE THE IP ADDRESS AND PORT NUMBER IN THE MNS MENU IF YOU DON'T HAVE ANY SPECIAL SERVER TO ACCESS YOUR DVR WITH A DYNAMIC IP ADDRESS. IF YOU CHANGE THEM, YOU CAN'T NOT ONLY USE OUR MNS (MAC NAME SERVER), BUT ALSO YOUR NETWORKING WILL BE DISCONNECTED.

#### SITE NAME

The SITE NAME is one of the important factors to access the DVR through MNS (MAC NAME SERVER) with the SmViewer (GUI).

- Click the SITE NAME button, the On Screen Keyboard will show up (See Fig.7-104).
- Delete the current SITE NAME with the button and enter the new SITE NAME by using the On Screen Keyboard, pressing the buttons on the front panel or remote controller and then click **OK** button to save it.
- Click the "CANCEL" button to return to the previous value.



[Fig.7-103 SITE NAME Setup button]



[Fig.7-104 SITE NAME Setup: On Screen Keyboard]

## 7-7.6. DDNS (DYNAMIC DOMAIN NAME SYSTEM)

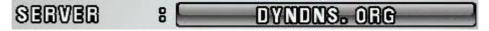
- Select the DDNS button in the NETWORK menu by clicking the mouse, pressing the buttons on the front panel or remote controller. The DDNS menu will show up as shown in Fig.7-105.
- □ To return to the NETWORK menu, Click the (EXIT) button.
- If you were in the middle of entering values on the DDNS menu, you can't exit by clicking the mouse. Choose the SERVER button in the DDNS menu by clicking the mouse and select the DESABLE, and then click the (EXIT) button.



[Fig.7-105 DDNS menu]

## SERVER

 Choose the SERVER button in the DDNS menu by clicking the mouse, pressing the buttons on the front panel or remote controller and select the DYNDNS.ORG provided by www.dyndns.org at no cost.



[Fig.7-106 SERVER button]

## HOST NAME

Click the HOST NAME in the DDNS menu and enter the HOST NAME that is registered
to the DDNS service provider such as DYNDNS.ORG and NO-IP.ORG by using the On
Screen Keyboard.

- After changing the values, click on the OK button.



[Fig.7-107 HOST NAME button]

## USER ID

- Click the USER ID in the DDNS menu and enter the USER ID that is registered to the DDNS service provider by using the On Screen Keyboard.
- After changing the values, click on the OK button.



[Fig.7-108 USER ID button]

#### PASSWORD

- Click the PASSWORD in the DDNS menu and enter the PASSWORD that is registered to the DDNS service provider by using the On Screen Keyboard.
- After changing the values, click on the OK button.



[Fig.7-109 PASSWORD button]

#### 7-7.7. HOW TO SETUP AND USE THE DDNS

#### 7-7.7.1. Router.

It has to be set as a virtual server (or port forwarding) in order to utilize the DDNS. There are a lot of manufacturers on the market. Please read the provided manual thoroughly before setting or visit our website at <a href="https://www.cloverusa.com">www.cloverusa.com</a> in regards to do it.

We, the manufacturer of DVR systems will not support the solution to your individual network issues.

\*\* DDNS (Dynamic Domain Name System) is a method of keeping a domain name linked to a changing IP address. This is a useful feature since many computers do not use a static IP address.

## 7-7.7.2. Registration to the DDNS server

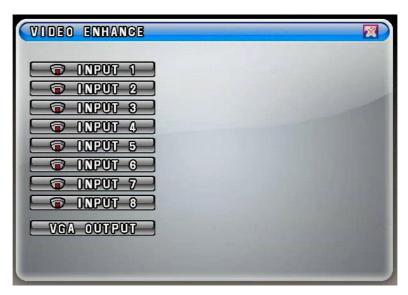
Visit at <a href="https://www.dyndns.org">www.dyndns.org</a> to register.

## **Registration to DYNDNS.ORG**

- 1. Visit at <a href="https://www.dyndns.com">www.dyndns.com</a>.
- 2. Sign up for a new user name and a password: Click the Create Account on the upper right hand corner.
- 3. After signup new user, check your e-mail and confirm an e-mail from dyndns.com.
- 4. Go back to www.dyndns.com and log in with the ID and the Password.
- 5. After log in on dyndns.com front page, click on my services.
- 6. Click on the Add Host Service (Next to Host Level Service).
- 7. Click the Add Dynamic DNS Host on the Dynamic DNS.
- 8. The window to input Host Name will pop up, and select the dyndns.org or the dvrdns.org on the pop-up window.
- 9. To complete, click the Add Host button on the bottom.
- After registration, go to the NETWORK menu on the DVR and enter the HOST NAME, USER ID and the PASSWORD you just registered in the DDNS menu (See section 7-7.6).

# 7-8. VIDEO ENHANCE

- Click the VIDEO ENHANCE button in the SETUP menu to enhance the picture quality on each of channels and VGA OUTPUT such as Brightness, Contrast and Saturation. The VIDEO ENHANCE menu will show up (See Fig.7-110).
- □ To return to the SETUP menu, click the (EXIT) button.



[Fig.7-110 VIDEO ENHANCE]

## 7-8.1. VIDEO ENHANCEMENT ON EACH CAMERA

- Click on an INPUT button in the VIDEO ENHANCE menu.
- The CONTRAST and BRIGHTNESS sliders will be displayed along with camera picture as shown in Fig.7-111.
- Adjust Contrast and Brightness with the sliders by clicking the mouse.
- □ To return to the VIDEO ENHANCE menu, Click the (EXIT) button.



[Fig.7-111 CAMERA INPUT]

## 7-8.2. VIDEO ENHANCEMENT ON VGA OUTPUT

- Click on the VGA OUTPUT in the VIDEO ENHANCE menu.
- The CONTRAST, BRIGHTNESS and SATURATION sliders will be displayed along with camera picture.
- Adjust Contrast, Brightness and saturation with the sliders by clicking the mouse.
- □ To return to the **VIDEO ENHANCE** menu, Click the **(EXIT)** button.



[Fig.7-112 VGA OUTPUT]





# **Remote Host Program**

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## 8-1. Remote Program Overview

The Remote Host Program allows you to view live video, search archived video, control PTZ cameras and to set up the exact same menus as the DVR does.

The DVR system can have up to 10 simultaneous Remote Connections. Each user can performs on the DVR system and will not affect the other users. The only exception to this is accessing Setup. Only one user is allowed to access Setup at any time.

In order to log in to the DVR system, users should be requested to enter the password if the password is already turned **ON** in the **SYSTEM** menu (Click **SETUP – SYSTEM**). This ensures that only authorized personnel are allowed to log in.

#### Remote system minimum requirements

- Microsoft Windows 2000 or XP Operating System
- Pentium-4 2.0GHz or higher
- 256MB System memory
- 1024 x 768 Display Resolution, 32Bit color
- Internet or LAN Connection
- TCP/IP installed
- Microsoft DirectX 9.0c

It is recommended to have DirectX 9.0c version in client PC. DirectX 9.0 is available for download from Microsoft homepage (www.microsoft.com/windows/directx).

# 8-2. Installing the Program to PC

Install the program into PC by using program CD (supplied) as follows.

## How to install the program

- 1. Start the operating system (Windows 2000/XP).
- 2. Insert the program CD into CD-ROM drive.
- 3. Open My Computer, and then select CD-ROM drive.
- 4. Double click **Setup.EXE**. The software installation will begin.
- 5. After the installation has been completed, the **SmViewer** icon will be created on your desktop screen as shown below.
- 7. Double click the **SmViewer** icon and the **SmViewer** screen appears.



[Fig.8-1 SmViewer icon]

## How to set Screen Resolution and Color Quality

- 1. Click Start, point to Control Panel and then click on it.
- 2. Double-click Display icon.
- 3. In Display Properties Window, select Settings.
- 4. Set Colors as True color (32 bit) and Screen area as 1024 by 768 pixels.

## 8-3. Internet Explorer

When you are trying to use this function, it is highly recommended that the password should be turned **ON** in the SYSTEM menu not to enable unauthorized personnel to access your DVR system (See section 7-2.3).

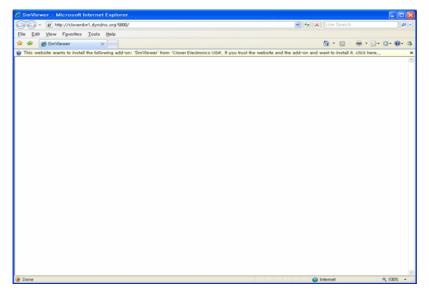
Up to 10 users can remotely access your DVR with the HOST NAME.

## How to setup the Internet Explorer

- Registration to the www.dyndns.org (See section 7-7.6 on page 122).
- In the IP address box of Microsoft Internet Explorer, type the HOSET NAME (See Fig.8-2) you entered in the DDNS menu and the PORT NUMBER of the DVR, and then you will be asked to install the AciveX control software (See Fig.8-3). You should type the protocol (http://), the host name (example: cloverdvr1.dyndns.org) and the port number (:5800) in the IP Address box as follows.



[Fig.8-2 Host Name]



[Fig.8-3 SmViewer- Windows Internet Explorer]

- Click on the click here on the following message.
   This site wants to install the following add-on: 'SmViewer' from 'Clover Electronics USA'.
   If you trust the website and the add-on and want to install it, click here....
- Click on the click install ActiveX Control.... on the pop-up screen and the following window will be displayed.



[Fig.8-4 Install the SmViewer]

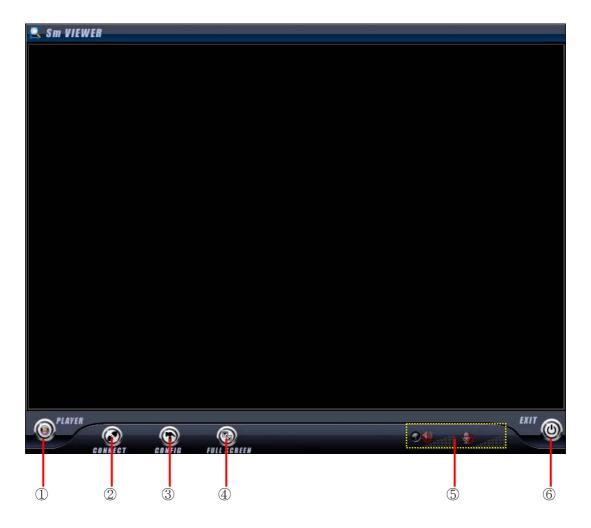
• Click on the **Install** button on the above window (See Fig.8-4) and the **SmViewer** will be shown. Refer to the following pages in regards to the **SmViewer**.



**Note**: We have been developing the new software in order to access the remote DVR systems via the web browser. It will be uploaded to <a href="https://www.cloverddns.com">www.cloverddns.com</a> after finalizing.

 Please visit our web site at <u>www.cloverusa.com</u> or <u>www.cloverddns.com</u> for more detailed information.

# 8-4. Remote Host

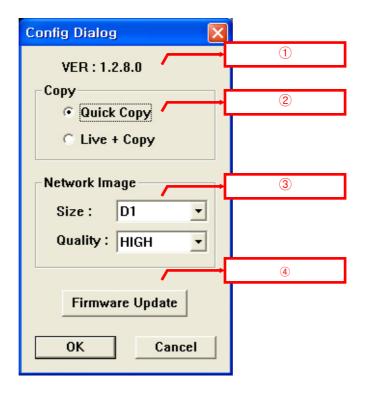


[Fig.8-5 SmViewer]

## **Buttons of Remote Host Program**

- 1 Player button
- ② Connection button
- ③ Setup (Config) button
- 4 Full Screen button
- 5 Speaker / Microphone volume control
- 6 EXIT button

## 8-4.1. Setup



[Fig.8-6 HOST CONFIG window]

## 1 Version number

It represents the current version number of the Firmware.

## 2 Copy

Refer to Section 8-4.5 in regards to copying methods after selecting one between the Quick Copy and the Live + Copy.

## Quick Copy

Click on the Quick Copy for faster copying the recorded data from the DVR to the Host Program (SmViewer) without live images. The copying speed of the Quick Copy is faster than the Live + Copy.

## Live + Copy

Click on the Live + Copy for copying the recorded data from the DVR to the Host Program (SmViewer) with live images. The copying speed of the Live + Copy is lower than the Live + Copy.

## ③ Network Image

## Size

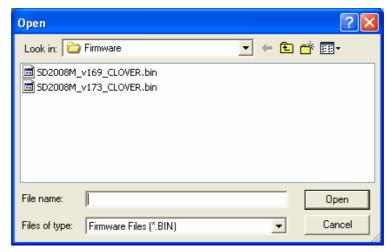
Choose a Size (Resolution) among D1, Half D1 and CIF you wish to display on the SmViewer by clicking the mouse. This setting does not affect the DVR.

## Quality

Choose one among LOW, NORMAL, HIGH and BEST you wish to display on the SmViewer by clicking the mouse. This setting does not affect the DVR.

## 4 Firmware Update

- Save the latest Firmware to the System Files (Open Windows Explorer click My
   Computer click the Program Files click StandAlone MPEG4 DVR click System Files).
- Click the Firmware Update button on the Fig.8-6 and you will be asked "Do you want to update a firmware?"
- Click the Yes to update.
- Double click the latest firmware as shown in Fig.8-7 and then you will be asked "Shall I update firmware?"
- Click the OK to update. The DVR will display the "Firmware Updating....." along with the progressive bar on the screen and it will automatically reboot.



[Fig.8-7 Firmware Files]

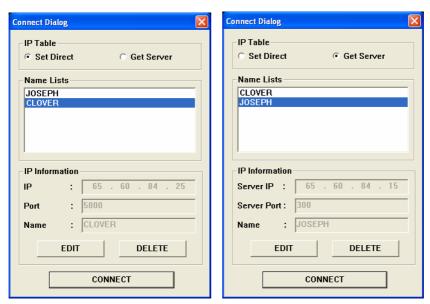
#### 8-4.2. Connection

There are two ways to access the DVR through the **SmViewer** as follows.

- With Set Direct setting
  - Click the "CONNECT" button on the SmViewer and the SmViewer will be displayed.
  - Click the mouse on the "Set Direct" in the Connect Dialog menu and click the "EDIT" button and enter the IP address and Port number, which must be the same as DVR has. Click the "EDIT" button again and the connection list will be created in the Name List (up to 20 lists).
  - Choose a Site Name in the Name Lists and then click the "CONNECT" button In order to access the DVR.

## With Get Server setting

- Click the "CONNECT" button on the SmViewer and the SmViewer will be displayed.
- Click the mouse on the "Get Server" in the Connect Dialog menu and click the "EDIT" button and enter the IP address, Port number and Site Name, which must be the same as DVR has (SETUP-click NETWORK-click MNS in the NETWORK menu: Refer to section 7-7.5 MNS on page 120). Click the "EDIT" button again and the connection list will be created in the Name Lists (up to 20 lists).
- Choose a Site Name in the Name Lists and then click the "CONNECT" button in order to access the DVR.



[Fig.8-8 Connect Dialog]

## 8-4.3. Switch the Normal Screen to Full Screen

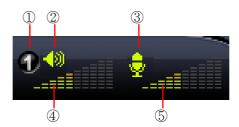
- Click the "FULL SCREEN" button on the SmViewer and the current screen size will be enlarged to fit the monitor's screen size, but the resolution will be lowered.
- Click the "FULL SCREEN" button again to go back to the NORMAL SCREEN.





[Fig.8-9 Switch the Normal Screen to Full Screen]

## 8-4.4. Speaker / Microphone



[Fig.8-10 Speaker / Microphone]

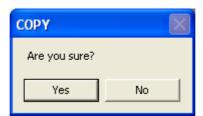
## **Buttons of Remote Host Program**

- ① Audio Input channel selection: Select the same audio channel as the DVR has.
- 2 PC Speaker ON/OFF: Turn the Speaker ON or OFF by clicking the mouse.
- 3 PC Microphone ON/OFF: Turn the Microphone ON or OFF by clicking the mouse.
- 4 PC Speaker Volume Control: Adjust the Speaker Volume by clicking the amount of audio volume. It is available when the Speaker is turned ON.
- (5) Microphone Volume Control: Adjust the Microphone Volume by clicking the amount of audio volume. It is available when the Microphone is turned ON.

## 8-4.5. Copy

There are four icons such as NETWORK, USB, CD and DVD in the COPY menu of the SmViewer. The recorded data will be saved in the Backup Files (Open Windows Explorer – click My Computer - click the Program Files – click StandAlone MPEG4 DVR – click Backup Files) through the NETWORK, but the other icons such as USB, CD and DVD will only show what the DVR functions on these icons. Therefore it is impossible to copy the recorded data to client computer with these icons.

- Click the COPY button on the menu bar and the COPY menu will be displayed on the screen.
- In order to set the Copy starting time and the Copy ending time, select the values (year/month/date and hour/minute/second) by clicking the mouse, change the values with the mouse's wheel and click the mouse again on the changed values to complete.
- Click the mouse on the icon only when the network is connected and you will be asked as shown in Fig.8-11.
- Click the Yes to copy and the SmViewer will show the progressive status to copy (See Fig.8-12).
- Click the OK to complete the copy (See Fig.8-13).



[Fig.8-11 Copy Confirmation]

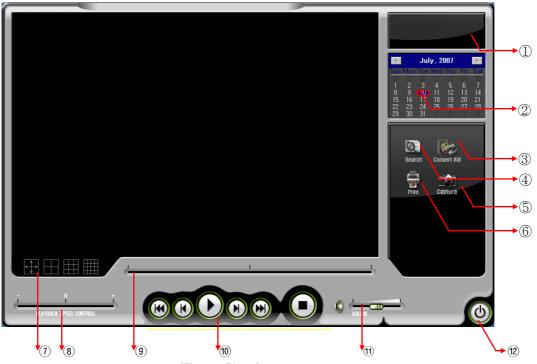


[Fig.8-12 Copying on the SmViwer]



[Fig.8-13 Copy Completion]

# 8-5. PLAYER



[Fig.8-14 Player]

## **Chart. Button of Player Program**

- ① Status window (Play mode, Date, Time)
- 2 Calendar
- 3 Convert to AVI File
- 4 Search button for replaying
- ⑤ Capture button
- 6 Print button
- O Division button
- 8 Playback (Replay) speed Control
- 9 Search slider for replaying
- ® Replay Control
- 11 Volume Control
- ② Exit program button

① Status window (Play mode, Date, Time)
It indicates the play mode, date and time.



[Fig.8-15 Status window]

#### 2 Calendar

It shows the date currently being replayed.



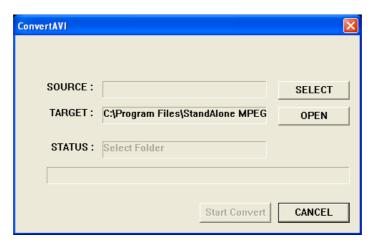
[Fig.8-16 Calendar]

## 3 Convert AVI File



Convert the recorded files to AVI files.

- Click the Convert AVI button on the Player and the Convert AVI window will be displayed (See Fig.8-17).
- Click on the SELECT button on the Convert AVI window and the Browse for Folder will be displayed (See Fig.8-18 and Fig.8-19).
- Select the folder that contains the recorded data and select one of the channels by clicking the mouse and click the OK (See Fig.8-20).
- Click the Start Convert button on the Convert AVI window and click the CLOSE button after verifying the status "Complete" (See Fig.8-21).



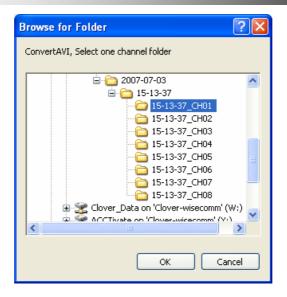
[Fig.8-17 Convert AVI window]



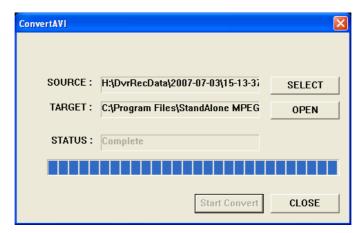




[Fig.8-19 DvrRecData by USB]



[Fig.8-20 Select one of the Channels]



[Fig.8-21 Start Convert Button]

#### How to play the AVI files

By using Windows media player:

Click the OPEN button on the Convert AVI window and double click one of the AVI files to play.
 The AVI files will save in the AVI Files folder (Open Windows Explorer – click My Computer - click the Program Files – click StandAlone MPEG4 DVR – click AVI Files).

#### 4 Search button for Replaying



- Click the Search button on the Player and the Browse for Folder will be displayed.
- Select the folder that contains the recorded data and click the OK button on the Browser for Folder. One channel or all the channels can be replayed depends on the selection.

#### ⑤ Capture button



 Click the Capture button when a full screen is replaying on the Player and the current images will be saved in the Printed Files (Open Windows Explorer – click My Computer click the Program Files – click StandAlone MPEG4 DVR – click Printed Files) in JPEG file format.

#### 6 Print button



- Click the Print button when a full screen is replaying on the Player and the current images will print out along with comments if you write down some comments in the Print Comment Dialog as shown in Fig.8-22.
- Click the OK button in the Print Comment Dialog regardless of the comments to print.



[Fig.8-22 Print command window]

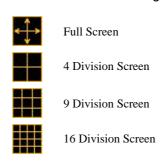


[Fig.8-23 Print image]

#### ⑦ Division button



Select one of the following divisions while replaying.



[Fig.8-24 Division button]

#### 8 Playback (Replay) Speed Control

Move the slider with the mouse to control the replaying speed.

The "0" represents the normal speed, "-"and "+" represents slow speed and fast speed respectively.



[Fig. 8-25 Replay Speed Control Slider]

#### 9 Search slider for replaying

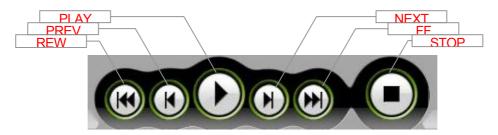
The slider can be moved left and right by clicking the slider on the bar and dragging it or just click the bar to search the recorded data.



[Fig.8-26 Replay Search Slider]

#### ® Replay Control

Refer to section 6-9.2.3.



[Fig.8-27 Replay Control buttons]

#### 11 Volume Control.

Control the volume when replaying on the full screen mode



[Fig.8-28 Replay Volume Control Slider]

### ② Exit button



Click the Exit button on the Player to exit.



# **Installation of additional HDDs**

#### **CONTENTS**

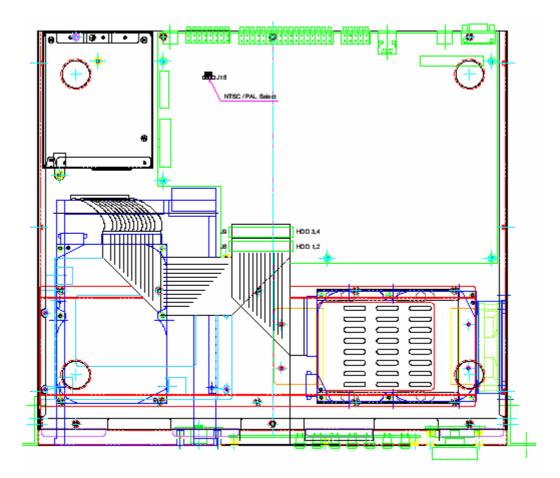
9-1. HDD (HARD DISK DRIVE) INSTALLATION	150
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## 9-1. HDD (Hard Disk Drive) INSTALLATION

► Three of internal Hard Disk Drives (HDD) and a CD R/W or DVD R/W can be installed in the system. DVR manufacturer already installed a 320GB of Hard Disk Drive (IDE) and a DVD R/W. To install additional hard disk drives, refer to the following pages.



Note: Jumper settings for all the Hard Disk Drives and the DVD R/W should be made on "Cable Select". Do not set the jumper settings as Master or Slave on any of IDE Drives, the system won't be working properly



[Fig 9-1 System in]

#### 9-2. Installation of an additional HDD

▶ Set the jumper setting to "Cable Select" position on the additional HDD.



Note: Be sure that the jumper setting is correct. If not, the system will not recognize the additional HDD.

- ▶ Turn off the power. Unscrew and remove the cover.
- ▶ Install the additional HDD in the space as shown in Fig.9-1.
- ▶ Connect the power connector and the flat cable to the HDD.
- ▶ Reassemble the cover.
- ► Turn on the system and confirm that the system recognizes the additional HDD. If the system fails to recognize the HDD, check the correct jumper settings and secure cable connections.



Note: After installing the additional HDD, formatting on the new drive should be performed. Refer to section 7-3.3. for more details.



# **APPENDIX**

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# Recording time table

HDD: 300GB

Recording Resolution: Half D1 (720 x 240)

Based on 8 cameras HOURS

Each	15 fps	10 fps	7 fps	5 fps	3 fps	2 fps	1 fps
(Total)	(120fps)	(80fps)	(56fps)	(40fps)	(24fps)	(16fps)	(8fps)
BEST	69.00	104.00	149.00	208.00	347.00	521.00	1041.00
HIGH	232.00	348.00	497.00	696.00	1160.00	1741.00	3481.00
NORMAL	541.00	812.00	1160.00	1624.00	2706.00	4059.00	8119.00
LOW	1098.00	1647.00	2353.00	3294.00	5491.00	8236.00	16472.00

DAYS

Each	15 fps	10 fps	7 fps	5 fps	3 fps	2 fps	1 fps
(Total)	(120fps)	(80fps)	(56fps)	(40fps)	(24fps)	(16fps)	(8fps)
BEST	2.90	4.30	6.20	8.70	14.50	21.70	43.40
HIGH	9.70	14.500	20.70	29.000	48.30	72.50	145.00
NORMAL	22.60	33.80	48.30	67.70	112.80	169.10	338.30
LOW	45.80	68.60	98.00	137.30	228.80	343.20	686.30

# **Factory default settings**

#### (1) LIVE SCREEN

8 SPLIT

OSD ON

#### (2) TIME / DATE

DISPLAY: ON

TIME FORMAT: 24 HOUR

DATE FORMAT: YYYY/MM/DD

#### (3) LOAD / BACKUP CONFIG

NONE LISTS

#### (4) USER ACCOUNT

PASSWORD: SET YOUR PASSWORD (THE PASSWORD IS NULL)

PASSWORD ON/OFF: OFF

### (5) IR REMOTE ID

OFF

#### (6) HDD OVERWRITE

ON

### (7) CAMERA

ACTIVE: ALL ON

 $\mathsf{NAME} : \mathsf{CAM} \ \mathsf{XX}$ 

**BUZZER: ALL ON** 

RELAY : ALL OFF

PAN/TILT VENDOR: PELCO

**DISPLAY: ON** 

SEQ DISPLAY DWELL: 1 SEC

#### (8) AUDIO

AUDIO 1 : RELATED CAMERA CH 1, RECORD OFF, MIC 5
AUDIO 2 : RELATED CAMERA CH 2, RECORD OFF, MIC 5
AUDIO 3 : RELATED CAMERA CH 3, RECORD OFF, MIC 5
AUDIO 4 : RELATED CAMERA CH 4, RECORD OFF, MIC 5

#### (9) RECORD

RECORD ICON DISPLAY : ON SIZE : ALL HALF D1 (704 X 240)

FPS : ALL 15 fps QUALITY : ALL HIGH

MODE: ALL MANUAL RECORD MODE

SENSITIVITY: LOW (19)

#### - TIMER RECORD

ACTIVE : ALL OFF TIMER : ALL 00 : 00

#### - MOTION

DETECT: OFF
PRE: 1 sec.
HOLD: 1 sec.
SPOT: OFF

**REGION: ALL SET** 

#### - SENSOR

DETECT : OFF
PRE : 1 sec.
HOLD : 1 sec.

SPOT : OFF

#### (10) NETWORK

TYPE: DYNAMIC

PORT: 113

SERVER 1 MODE: DISABLE

SERVER 1 IP ADDRESS: 65.60.84.25

SERVER 1 PORT: 300

SERVER 2 MODE: DISABLE

SERVER 2 IP ADDRESS: 221.149.149.117

SERVER 2 PORT: 300

SERVER SITE NAME: SXXXXXX (MAC ADDRESS)

#### (11) VIDEO

- CAMERA INPUT

BRIGHTNESS : 128 (Max. 255)
CONTRAST : 128 (Max. 255)

- VGA OUTPUT

BRIGHTNESS : 20 (Max. 40)
CONTRAST : 20 (Max. 40)
SATURATION : 20 (Max. 40)



# **FAQ**

#### **CONTENTS**

### I cannot login

- ▶ Please check if the link LED of DVR and LAN port of PC are lit.
- ▶ Please check if the IP address on DVR and the PC is identical.

Check SYSTEM STATUS by pressing STATUS button of DVR

(Available on LIVE mode and RECORD mode.)

MY IP: xxx.xxx.xxx

Check Target IP Address by clicking CONF button of PC host program.

**TARGET IP ADDRESS: xxx.xxx.xxx.xxx** 

▶ Please check whether there is a response upon PING test with DVR IP.

Type "PING -t xxx.xxx.xxx.xxx" in DOS COMMAND window and execute.

(xxx.xxx.xxx.xxx is the DVR IP)

Request timed out → Check IP address

Reply from: xxx.xxx.xxx: Check Port number. Check if other user is using this.

▶ Please check the Port number of DVR and PC is identical.

Check Port number at MENU-SETUP → SYSTEM → NETWORK IP CONFIG.

PORT: 5800 ( on DVR )

**TARGET PORT NUMBER: 5800 (on Host Program)** 

▶ Please confirm the Password of DVR and PC is identical.

Check Password at MENU → SETUP → SYSTEM → PASSWORD

▶ Please check whether DVR is connected another PC.

Check SYSTEM STATUS by pressing STATUS button.

FROM: xxx.xxx.xxx : IP which is presently connected.

MY IP: xxx.xxx.xxx : DVR is waiting for connection.

▶ Please check whether firewall is installed in the network.

Ask the network administrator to reconfigure the firewall.

# **Limited 2Year Warranty**

This warranty gives the original purchaser specific legal rights and you may also have other rights, which may vary from state to state. If our products do not function because of any defect in material or workmanship, we will repair it for free for 2 year on parts and labor from the date of original purchase. This warranty does not cover modification, abuse, incidental or consequential damages unless the state of owner's residence specially prohibits limitations on incidental or consequential damages.

# **How to obtain Factory Service**

- Original purchaser must fill out the warranty card and mail it to the factory with the model number, serial number and the date of purchase.
- We will repair or replace, and return the system to the owner under this limited warranty.
- Please pack the system carefully and securely using the original packing materials, and send it prepaid and insured to: 13073 E. 166th St, Cerritos, CA 90703.

Please include a check for \$40.00 to cover the cost of return postage and handling. If the system is returned within the warranty period, please include a proof of purchase. If the system is out of warranty, you will receive an estimate of the repair cost for your approval before repair work will be started.

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