Real time Digital Video recorder

DIGITIAL VIDEO RECORDER

USER'S MANUAL



CEFE RoHS

Important Safety Instructions.

- Read and Keep these instructions
- Heed all warnings
- Follow all the instructions
- Do not use this apparatus near water and Clean only with dry cloth
- Do not install near any heat sources such as radiators, heat registers, or other apparatus that produce heat
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Unplug this apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE.

NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (Servicing) instructions in the literature accompanying the appliance

FCC For Class A digital device

A CLASS A digital device that complies with Parts 15 of the FCC Rules. Operation is subject to the following two conditions.

- 1. This device may not cause harmful interference, and
- This device must accept any interference received, Including interference that may cause undesired operations.

CONTENTS

1. Product Overview

1.1 Packing Contents		
1.2 Front		
1.3 Rear		
1.4 Remote Controller		
2. Installing Product		
2.1 Installing HDD ·····		
2.2 Connecting Camera and Audio Device		
2.3 Connecting Monitor)
2.4 Connecting Optional Device)
2.5 Connecting Network ······)
2.6 Connecting Power Supply)
3. Operation		
3.1 Turning On ·····		•
3.2 Initial Screen ·····		
3.3 Screen Layout ·····		
3.4 Other Functions of Remote Controller		j
3.5 Mouse		,
3.6 Mobile Viewer ·····		,
4. MENU		
4.1 How to display Menu window ·····)
4.2 Setup Menu ·····)
4.2.1 Display ·····	21	
4.2.2 Camera		•
4.2.3 Record		;
4.2.4 Event ·····		,
4.2.5 Storage ·····)
4.2.6 Network ·····		

4.2.7 System ·····	32
4.3 Search	37
4.3.1 Search by Time ·····	37
4.3.2 Search by Calendar	37
4.3.3 Search by Event ·····	38
4.3.4 Go to First	38
4.3.5 Go to Last	38
4.4 Function ·····	38
4.4.1 PTZ	38
4.4.2 Audio	39
4.4.3 Backup ·····	39
4.4.4 Log View ·····	40
4.5 OSD OFF	40
4.6 REC	40
4.7 Log Out Control ·····	41
5. Central Monitoring Software(CMS)	
5.1 General Information	43
5.2 Program Installation	43
5.3 Log In	43
5.4 How to use CMS	44
6. Specification	52
Trouble shooting	53

1. Product Overview

Packing Contents 1.1

Once opening the product box, please check out whether there are all contents as follows, and there are some visible damages. If any of these items is missing or damaged, contact your supplier immediately before using the product.







Software / User's Manual CD







1.	USB PORT	USB Devices(Mouse, Memory Stick) can be connected
2.	POWER LED	The Light turned on when Power is on
3.	REC LED	The Light turned on while DVR records something
4.	NETWORK LED	The Light turned on during network connection

1.3 REAR

۲ ۳		•
Made in KUI		
1.	DC 12V POWER	Connect Power Adaptor included in Box
2.	ETHERNET	10/100MB LAN port
3.	USB PORT	USB Devices(Mouse, Memory Stick) can be connected
4.	NTSC/PAL SWITCH	N for NTSC, P for PAL
	485 PORT	485 port has +, and - terminals
5	GROUND	G for Ground used for earth
5	ALARM	A for Alarm, which signal occurs
	SIGNAL	S for Signal
6.	VGA PORT	Connected with LCD Monitor
7.	VIDEO OUT	Connected with CRT Monitor
7.	AUDIO IN/OUT	One channel Audio IN/OUT
9.	VIDEO IN	VIDEO INPUT PORTS for 4 Channels
10	. VIDEO IN	VIDEO INPUT PORTS for 8 Channels
11	. VIDEO IN	VIDEO INPUT PORTS for 16 Channel

1.4 Remote controller



- 1) **REC** : Record button
- 2) **DVR-ID**
- 3) Number button
- 4) AUDIO : Audio ON / Mute
- 5) **BACKUP**:

Back up recorded data to other device

6) **MENU**:

Go to 'MENU' mode to setup values

- 7) OSD : Show or Hide OSD
- 8) **PTZ** : Control Pan/Tilt/Zoom camera.
- 9) Digital Zoom
- 10) Direction $(\blacktriangle, \blacktriangledown, \triangleleft, \blacktriangleright)$

Move cursor or control PTZF camera

ENTER

Select sub item in system setup mode

- 11) SEARCH : Search recorded video
- 12) LOG : Show running status of DVR system
- 13) ◀◀ : Reverse play
- 14) I: Play or Pause during playback
- 15) ► ► : Fast forward play
- 16) 🔳 : Stop playback and go to Live mode
- 17) SPOT : Not Operated in this model
- 18) **PIP** : Go to PIP mode
- 19) POP : Enlarge specific channel in Live mode
- 20) SEQ : Show each camera rotation
- 21) Full screen mode
- 22) Quad screen mode
- 23) 9 Division screen mode

Operated only for 8ch or 16 channels

24) 16 Division screen mode

Operated only for 16 channels

2. Installing Product



2.1 Installing HDD

- One HDD can be installed inside the product.
- If HDD was not installed in the product, please install HDD first as follows.
- Be careful not to be harmed by sharp edges of the product.

(1) Loosen screws on both sides and back to (2) Lift the end of top cover and pull out from detach the product cover. product.





(3) To install HDD, you should upside down (4) Connect HDD Power and cable to HDD. the set, and HDD can be installed onto bottom with screw.



(5) Insert top cover to product as side picture and tighten screws again.



2.2 Connecting camera and audio device

- Connect video signal cable shaped as BNC into VIDEO IN port on rear of the product.
- Connect RCA cable from microphone into AUDIO IN port on rear of the product.
- Connect RCA cable into AUDIO OUT port on rear of the product and into audio device.



2.3 Connecting monitor

■ Connect Video out port and VGA port in DVR to monitor



2.4. Connecting Optional device

■ You can connect and control the PTZ device supporting RS-485 communication.

2.5 Connecting Network

Connect LAN cable (RJ45) to Ethernet port on rear of the product.



2.6 Connecting power supply

- Connect provided power cable to AC-DC adaptor.
- Connect the adaptor to DC power port on rear of the product.
- Connect AC power plug to the plug socket.



3. Operation





3.1 Turn on

• Please connect Power Adaptor included in Box into power DC terminal.

There is no separate power switch, so The DVR shall turn on automatically as soon as it is connected.

3.2 INITIAL SCREEN

The below screen will be shown after booting is over.

LOG IN X	ENTER PASSWORD \times
LOGIN ID ADMIN - PASSWORD LOG IN	

Please move the pointer into password window with mouse or up/down key of remote controll, and then press enter button in remoter controller or right button of mouse. The below enter password window will be shown, and you input "0000" 4 digits. The default password is "0000" 4 digit. After input "0000", the Log-in window will be shown again. Select LOGIN Icon, and you can start to use DVRs

3.3 Screen Layout

You can see the below items according to your selection on function.



3.3.1 Icons in Live Display Mode

In Live display mode, icons will be indicated on the screen to notify the system mode or status. Below are the icon categories, which are indicated on the monitor.

	lcon to be shown		Icon to be shown
at rig	ght-upper corner on each channel	at l	eft-bottom corner on full screen.
GH	Selects specific 1ch with full screen	22	When Motion Detected
	Screen-Division mode	3	When Sensor Activated
) 100%	HDD capacity usage status	P ₽	PTZ
Ø	When USB memory stick & HDD	-	Recording
	When DVR is accessed via network		
	When ID of remote control is set		
	lcon to be shown i	n 1ch full so	creen mode
Ŀ	Channel sequence mode		
Ξ	Digital x2 Zoom		

3.3.2. Playback Buttons

If you select search mode, the status will be shown in the upper side of screen.

		- This rectangular show the now status of playback.
	Now status	- If you select \blacktriangleright , the mark will be changed to \blacktriangleright ,
		-And the mark will show $\blacktriangleright ightarrow$, when $\blacktriangleright ightarrow$ is selected
	Rewind	- Control rewind speed.
	Rewind	- Move frame by frame reversely in pause mode
►II	Play/Pause	- Play or Pause the video
	Fast Forward	- Control rewind speed.
	rast roi wai u	- Move frame by frame forwardly in pause mode
_	Stop	Stop the playback and go to Live mode
	Stop	Menu button also stop playing.
P	Quick Search	- If you click this Icon, the Search sub-menu will pop up

How to use playback bar

- Play starts with PLAY button.

If you press PLAY button in LIVE mode, or select one thing in SEARCH SUB-MENU, DVR will prepare to play the recording data from the point you selected

- Playback mode changing

If you want to see a specific screen with full screen mode, press full-screen button or numeric button of remote controller.

To display QUAD mode screen, press QUAD button or click the Monitor Icon on screen.

You can control playback speed with $\blacktriangleleft \checkmark \checkmark \flat \flat$ button. Whenever pressing the button, the speed of playback increases or decreases.

3.3.3. Other Icons

3.3.3.1 HDD STATUS

It indicates capacity of HDD, the percentage show the usage of HDD.

3.3.3.2. SCREEN SHOW STATUS

You can select how screen will display.

In Live MODE, there are 6 MODE; PIP, POP, Sequence, Quad, 9, 16.

But the 9, 16 can not operate in 4 channels.

In play mode, there are 3 modes : Quad, 9, 16.

Also, only quad mode can be operated in 4 channels.

3.3.3.3. CHANNEL ICON

You can change channel displays on screen. There are 1~4 in 4channels, and 1~16 in 16channels.

3.3.3.4. USB ICON

This Icon will be shown after you attach USB into DVR,

3.3.3.5. NETWORK ICON

This Icon will be shown while someone access DVR through Network with CMS, or Web-viewer.

3.3.3.6. Remote controller ID Icon

This Icon will be shown if you set up system ID in system sub-menu.

The color of number of Remote control Icon will be changed to "Yellow" in case that status is active, that is the number of remote controller matches the number of system ID.

Otherwise, the color will be changed to "RED".

If you click Remote control ID Icon, you can see the below;

Status = Active[or De-active]

SYSEM-ID = 01, Request-ID = 01

Status means that the DVR can be operated or not with the remote controller.

SYSTEM-ID means the number of remote controller ID of DVR.

Request -ID means that the number of Remote controller you have got.

If you like to control the DVR with the remote controller, the value of SYSTEM _ID is the same to that of Request-ID.

Note : You should press two digits when you select System-ID. For example, press 0 + 5, when you select 05. Don't press only 5. (Please refer to page34 for setting remote control)

3.4. Other function of Remote control

3.4.1. Full screen mode

- Press button. Whenever pressing button, screen will go to next screen.
- Press desired numeric button of remote controller.

3.4.2. Quad screen mode

- To see quad screen mode, press H button.
- Whenever pressing Hutton, screens will go to next quad screens.
- If you press a numeric key of remote controller which is inside current display range, selected channel is displayed as full screen mode.
- If you press a numeric key of remote controller which is outside of current display range, the quad containing selected numeric will be displayed.

E.g. you press 6 while current screen shows CH1~Ch4, CH5~CH8 will be displayed.



3.4.3. 9ch display mode - 8 channel DVR / 16channel DVR : Only for 8/16 Channel

- To see cameras by 9ch mode, press III button.
- * In case of 16channel DVR
- If you press a numeric key of remote controller which is inside current display range, selected channel is displayed as full screen mode.
- If you press a numeric key of remote controller which is outside of current display range, the nine screens containing selected numeric will be displayed.

3.4.4. 16ch display mode - 16channel DVR : Only for 16 channel

- To see camera by 16ch mode, press \blacksquare button.

3.4.5. POP mode : Only for 8/16 Channel

- Press POP button to enlarge specific camera with 7 other cameras.
- Whenever pressing POP button, the biggest screen will change.

3.4.6. OSD Hide or Show

- Press OSD button of remote controller to appear or disappear OSD.







OSD button

15

- You can set to hide Status bar only at SETUP menu [SETUP \rightarrow DISPLAY \rightarrow OSD]



→ When there is no command into DVR, Status bar will be hidden. When you press any button or click by mouse, Status bar will be shown again.

3.4.7. PIP mode (picture in picture)

In case of full screen display mode, you can see other camera with a small window.

- (1) Press PIP button of remote controller.
- (2) If you press PIP button again in PIP mode, the position of two screens will change each other.



(3) Press numeric button of remote controller in PIP mode to change small screen to desired screen.

E.g.)



(4) Press Direction button or drag by mouse to move small screen to desired position.



3.4.8. Sequence mode

- If you press **SEQ** button in case of FULL or QUAD screen mode, screen(s) will rotate automatically.
- Default value of cannel changing interval is 2 or 3 seconds.
- User can select changing interval value from 1 to 99 seconds.
- User can select desired channel to display

3.4.9. Digital-ZOOM

- If you press **ZOOM** key of remote controller while in full screen mode, Digital-ZOOM function will work.
- If you press direct button of remote controller, Zoom-Area window will move.
- If you press **ZOOM** key again, Zoom-Area window will be enlarged or diminished.
- If you press ENTER key, selected Zoom-Area will be displayed as full screen.



3.5. MOUSE

- System supports USB MOUSE
- Just connect USB mouse, then DVR will detect it automatically.
- Some kinds of USB mouse may not be compatible with product.

3.5.1 Change screen mode

Left button of mouse is for selecting an item. Right button of mouse is usually for canceling menu table or going to former menu mode. Additionally, if you press right button of mouse on basic screen, following window will appear.

- If you double-click left button on a specific channel, the screen changes into full screen mode. With double-click again, screen will go back to previous mode.
- At PIP mode, if you want change channel of small window, click right button of mouse. Then, screen mode menu will appear. Click desired channel button.

3.5.2 Pop the windows to input the values

In the Menu status, right button of mouse is used for pop the windows to input numbers or characters in windows

3.6. Mobile Viewer

Once your phone can access internet, You can see the screen through Mobile phone.

The transmitted picture is Jpeg file, so you don't need special application to operate this function.

When DVR is connected to Internet or LAN, it has its own IP address.

If you open internet website, please write down http:// IP address/mobile.html.

If you use other web-port except 0800, you should add port number as

http:// ipaddress:portnumber/mobile.html. Please see network parts to get more information.

There is no problem in address, you can see the windows as bellows

Please input "netuser" in USER-ID, and 0000 in Password[Default value], and then press "send"Icon You can see the picture

F -
마크



Channel - Select channel you want.

SIZE - Select frame rate you want. There is two kinds of frame rate : 352x240/176x120

Note But, While the record frame rate of DVR is set as 720*480, you can not see 176*120 frame rate in mobile phone. So, you should set up the record frame rate in DVR under 720*240 so that you may see 176*120 frame rate in mobile.

©

Fresh - The picture refreshed time, the unit is second : 0.1,0.2,0.5,1,2,5.

If you select 2, the frame is refreshed every 2 seconds

4. MENU



4.1. HOW TO DISPLAY MENU WINDOW

Please press MENU button in Remote controller or Click right button of Mouse anywhere. The menu windows will be shown up the left side of the screen as the below



4.1.1. SETUP

	DISPLAY	CAMERA	RECORD	EVENT	STORAGE	SYSTEM
OSD LIVE DEIN		GENERAL PRIVATE ZONE PTZ PRESET SCAN POINT COLOR POSITION	PARAMETER SCHEDULE WATERMARK MISC	MOTION SENSOR VLOSS E-MAIL MAIL SCHEDULE ALARM SCHEDULE MISC	HDD FORMAT HDD SMART NETWORK SET UP STREAM DDNS CLIENT ACCESS LIST	CONFIG TIME INPUT DEVICE USER UPGRADE TURN OFF DVR

4.2. SETUP MENU

Going to setup menu, please select the <setup> icon

If you are not authorized properly, the right windows will appear.

And you can not access the SETUP Menu.

If the password Box will appear, please input "0000" in the box.

The password is set as "0000" in the factory. Please see the page 33

[How to change password]

To change password, If you have authorization to access SETUP menu, you can see the sub-menu as the right.

* How to save or cancel setting you changed

- Save setting : The setting will be saved when you select OK Icon in each windows.

- Cancel setting : The setting will be canceled when you select Cancel Icon in each windows



4.2.1 DISPLAY



When you click Display Icon, display menu is divided into 4 sub-menus;

OSD, LIVE-SEQ, DEINTERLACE, and VGA RESOLUTION

4.2.1.1. OSD

You can select which is displayed in the screen with choosing each icon.

CAMERA NAME	OFF 💌	
CAMERA NUMBER	OFF 💌	
CAMERA BORDER	ON 💌	
LANGUAGE	ENGLISH	
OSD HIDE	TIME_BAR 💌 AUTO HIDE	OFF 🔻
	TIME OUT	05
LEFT MARGIN	20 VGA	
RIGHT MARGIN	00 TV	
TOP MARGIN	00	
BOTTOM MARGIN	00	
	ок са	ANCEL

- CAMERA NAME Show camera name on screen.
- CAMERA NUMBER Show each number of cameras on the screen.
- CAMERA BOARDER Show outline of channel.
- LANGUAGE Select OSD language.
- OSD HIDE Hide all OSD, time, or Icon bar
- AUTO HIDE Hide status bar automatically during not using DVR.
- LEFT MARGIN Move the OSD position of leftmost
 - (E.g. Camera number, Camera Name, Network, USB, etc)
- **RIGHT MARGIN** Move the OSD position of rightmost
 - (E.g. Icons of HDD, POP, CH Status)
- TOP MARGIN Move the OSD position to top (E.g. Icons of HDD, POP, CH status)
- BOTTOM MARGIN Move the OSD position of bottom (E.g. Time-bar)

Margin value accept the numbers from 00 to 99.



• VGA/TV - Adjust OSD margin automatically according to CRT monitor or LCD monitor After setting OSD, you should OSD OFF icon in MENU to hide OSD you selected.

4.2.1.2. DISPLAY-LIVE-SEQ(FULL)



4.2.1.3. DEINTERLACE

There is two; ON and OFF



- Set switching time to display a full screen in sequence.

- CH : Input desire channel no.
- TIME : Input desired switching time
- DEFAULT CH : Change to factory default value
- ALL TIME : same time is input to all channel.

Note : The time is second and maximum 99 second for switching time can be entered.

Please select "ON" if you don't want to get interlaced video with 720*480/576 resolution, select "OFF" in normal stauts. However, you will get half frames of total frames if

However, you will get half frames of total frames if you set "ON".

4.2.1.4. VGA RESOLUTION

Select appropriate VGA resolution according your VGA monitor.

(There are three kinds of VGA resolutions; 800*600, 1024*768, 1280*1024)



4.2. 2. CAMERA





When you click Camera Icon, Camera menu is divided into 7 sub-menus;

GENERAL, PRIVATE ZONE, PTZ, PRESET, SCAN POINT, COLOR, and POSITION

4.2.2.1. GENERAL

CH	NAME	COVERT	AUDI	0
1	CAM01	COVERT ON	CH-04	¥
2	CAM02	COVERT OFF	CH-02	×
3	CAM03	COVERT OFF	CH-01	
4	CAM04	COVERT OFF	CH-03	v
6	CAM05	COVERT OFF	CH-05	×.
8	CAMOS	COVERT OFF -	CH-06	•
7	CAM07	COVERT OFF -	CH-07	•
8	CAM08	COVERT OFF -	CH-08	v

- NAME Enter each camera name.
 Maximum 15 digits in English can be input.
- COVERT Show or Hidden the camera in Live mode. ON: To covert, OFF: To show the camera

TEXT INPUT

+

? Delete

← → CLS

0 1 2 3 4 5 6 7 8 9

- * /

K L M N O P Q R S T Caps

@

CANCEL

E F G H I J Insert

+

U V W X Y Z

οк

B C D

• AUDIO - Select connected audio channel.

CAM01

• HOW to INPUT Character in **TEXT INPUT box**

- (1) Move the Pointer into the Name Box and then click
- (2) Move the pointer to desired letter with direction button.
- (3) Press ENTER button or Click the desired letter.
- (4) Then, selected letter will be shown at text window.
- (5) Selecting desired letters, Click OK Icon.

4.2.2.2. PRIVATE ZONE

- TO protect privacy, you can choose the zone which can not be recorded as well as seen on screen.
- How to set up the private zone
- (1) Move and click the pointer the rectangular zone which you want to select.
- (2) Move and click the pointer another rectangular zone, the private zone will be set up as total

rectangular



• ID - Enter ID of PTZ camera.

4.2.2.3. PTZ

1 000 PELCO_D 4800 2 000 PELCO_D 4800 3 000 PELCO_D 4800 4 000 PELCO_D 4800 5 000 PELCO_D 4800 6 000 PELCO_D 4800 7 000 PELCO_D 4800 8 000 PELCO_D 4800 6 000 PELCO_D 4800	CH	ID	PROTOCOL		BAUD	
3 000 PELCO_D w 4800 w 4 000 PELCO_D w 4800 w 5 000 PELCO_D w 4800 w 6 000 PELCO_D w 4800 w 7 000 PELCO_D w 4800 w	1	000	PELCO_D	*	4800 -	
4 000 PELCO_D 4800 v 5 000 PELCO_D 4800 v 6 000 PELCO_D 4800 v 7 000 PELCO_D 4800 v	2	000	PELCO_D	*	4800 -	
5 000 PELCO_D v 4800 v 6 000 PELCO_D v 4800 v 7 000 PELCO_D v 4800 v	з	000	PELCO_D	*	4800 💌	
6 000 PELCO_D 4800 7 000 PELCO_D 4800	4	000	PELCO_D	*	4800 -	
7 000 PELCO_D ¥ 4800 ¥	5	000	PELCO_D	*	4800 -	
	6	000	PELCO_D	*	4800 -	
8 000 0FLOD 0 - 1000 -	7	000	PELCO_D	*	4800 -	
a 000 PECCO_D • 4800 •	8	000	PELCO_D	*	4800 -	
		0.00	PELOO_D	-	4000	

4.2.2.4. PRESET

	CAMERA NAME	1	1		PAGE NAME	1 <u>*</u>	
	PTON	SET	CLE	9	PT209	SET	CLE
-	117202	SET	CLE	10	P1721-0	SET	CLE
	and a	SET	CLE	11	PITCH	SET	CLE
4	PIROA	SET	CLE	12	N721E	SET	CLE
	5 PT296	SET	CLE	13	PTRIO	SET	CLE
6	P17206	SET	CLE	14	PT214 :	SET	CLE
1	P 17207	SET	CLE	15	017210	SET	CLE
1	117206	SET	CLE	16	PTZIC	SET	CLE

• CAMERA - Select specific camera to set up preset position.

• PROTOCOL - Select a protocol type of camera.

• BAUD - Select a baud rate of camera.

- PAGE Go to next page.
- CLEAR ALL Cancel all saved presets.

(1) Select camera.

(2) Select SET Icon.

- (3) PTZ control screen of the camera will appear.
- (4) Move pan, tilt, zoom in/out to desired point.
- (5) Click Advance icon or Press ENTER Key in remote controller to save

Click any other position on screen by mouse or press MENU Key to cancel.

(6) if you like to cancel the setting, please click the CLE icon of the channel will be cleared. If you click "clear all" icon, all value of channels will be cleared.

Note

- System records a certain position of PTZ device.
- Before using this function, please make sure that camera supports preset.
- Total 64 preset points can be saved to each channel.

4.2.2.5. SCAN POINT

- CAMERA Select a specific camera to set up SCAN points.
- LIST Create another SCAN list
- PRESET Select desired preset position.
- CLEAR ALL Cancel all saved scan points.

Note

- In SCAN point menu, you can set up PTZ tour route(SCAN-LIST) using saved PRESET position.
- You can create 4 scan lists for each camera. You should setup PTZ protocol and PRESET

Positions before setting Scan-List.

- You can create Max. 4 SCAN lists.

(AMERA	1	*		LIST	1	-
#	PRES	ET	SEC		PRES	ET	SEC
1	OFF	Ŧ	03	9	OFF		03
2	OFF	•	03	10	OFF	Ŧ	03
3	OFF	¥	03	11	OFF		03
4	OFF		03	12	OFF		03
5	OFF	Ŧ	03	13	OFF		03
6	OFF		03	14	OFF		03
7	OFF	*	03	15	OFF		03
8	OFF	-	03	16	OFF		03

E.g. In this case,

Camera 1 will move to saved position as follows, $PTZ04 \rightarrow 3sec \rightarrow PTZ12 \rightarrow 3sec \rightarrow PTZ04 \rightarrow 3sec$ $\rightarrow PTZ12 \rightarrow 3sec \rightarrow PTZ04 \rightarrow \dots$

4.2.2.6. COLOR



- CAMERA Select camera to set up color.
- BRIGHT- Adjust bright of camera.
- CONTRAST Adjust contrast of camera.
- COLOR/SATURATION Adjust saturation of camera.
- COLOR/HUE Adjust hue of camera.
- DEFAULT Set all values to factory default.

4.2.2.7. POSITION



- CAMERA Select camera to adjust position.
- LEFT/RIGHT- Move camera position to LEFT or RIGHT in screen.
- DEFAULT Set all values to factory default.

4.2.3. RECORD



When you click Record Icon, Record menu is divided into 4 sub-menus;

Parameter, Schedule, Watermark, and MISC

4.2.3.1. PARAMETER

• RESOLUTION - Use this menu to specify the size of a screen to be recorded.

CH	RESOLUTI	ON	EV	ENT			NOR	MAL	
1	720x240	٠	NORMAL	-	30	٠	NORMAL	٠	30 🕶
2	720x240	٠	BASIC			Ŧ	NORMAL	Ŧ	30 -
з	720x240	•	NORMAL		30	-	NORMAL		30 -
4	720x240	*	BEST		30	•	NORMAL	۷	30 🕶
	360x240	v	NORMAL		30	_	NORMAL		30 -

NTSC	PAL
720 x 480	720 x 576
720 x 240	720 x 288
360 x 240	360 x 288

- EVENT
 - You can select the recording picture quality and frame rate for EVENT situation.
 - Available with Motion detecting recording, Sensor recording and manual recording.
 - Each channel can be selected each different picture quality and frame rate
- NORMAL
 - You can select the recording picture quality and frame rate for NORMAL situation.
 - Available with continuous recording and schedule recording.
 - Each channel can be selected each different picture quality and frame rate
 - The frame rate in Normal mode can not exceed that in Event mode.

If the frame rate of Event is set up as 8, and that of Norma mode can not exceed 8.

Record Quality	Picture Quality	Disk Space Need		
BASIC	Low	Least		
NORMAL	Fair	Medium		
HIGH	Good	Big		
BEST	Excellent	Most		

• ALL

All channels would be changed according to selected resolution or quality or frame rate.

• REMAIN XXX / XXX / XXX

- Indicate the remaining frame number to record based on each resolution.



4.2.3.2. SCHEDULE

- System records according to schedule setting.
- Specify the weekly schedule for each camera (hourly based)
- ► WATCH : No recording
- ► CONTINUOUS : Recording video continuously 24 hours a day.
- ► EVENTS : Recording video when event(Motion/Sensor/Video Loss) is triggered.
- ► CONT + EVENTS): Recording video when continuous or event is operated.

If there is no event, it will record video as continuous mode and

If there is event, it will record video as event mode as you set.

If you use mouse, you can select them by drag function.



4.2.3,3. WATER-MARK

If you select ON in water-mark window, the recording data will include water-mark. Data Verification can be checked in the backup-viewer whether falsified or not.

4.2.3.4. MISC

• OVERWRITE

If you select ON in overwrite, the oldest recorded files will be overwritten by newly recorded data when HDD becomes full.

If you select OFF in overwrite, the DVR will not record anything more when HDD becomes full. We recommend that you select ON.

• AUTO-DELETE

The data before assigned date will be deleted according to the date you input.

The value of O(zero) disables AUTO-DELETE function.

- REC MODE
 - Schedule System records according to recording schedule
 - Continue System continue recording all day long.
 - Event Event recording will work regardless of schedule mode





4.2.4. EVENT



Note : Event works when event in menu was selected at first, so you should set recording schedule to record a event and then set Record mode to EVENT : SETUP \rightarrow RECORD \rightarrow MISC \rightarrow REC MODE -> EVENT)

4.2.4.1. MOTION

- MOTION-AREA Set the area to detect motion.
 - ▶ ALL Select the whole area.
 - PART Select a block.

Selection is done by toggle system through button of remote controller / front button or drag of mouse

- ► CLEAR ALL Cancel the whole area.
- SENSITIVITY Set the sensitivity of motion detection.

Sensitivity degree : 0 < 1 < 2 < < 9

• ALARM-OUT - Set the alarm-out when motion is detected.





4.2.4.2. SENSOR

- RECORD Select channel to record when a signal is detected from Sensor.
- TYPE Select sensor type to match sensor type you have.
- ALARM-OUT Set the alarm-out when a signal is detected.



4.2.4.3. VLOSS



If you set the Alarm-out to port1, Alarm will ring when video-loss occurs in a channel. It makes alarm-out with video-loss.

4.2.4.4. E-MAIL

When below events happen, which will be notified to the registered email address by E-mail. You can register three email address. Please remind that you can select event type after selecting

- Event email is ON.
 - MOTION
 - POWER ON
 - SENSOR
 - HDD ERROR
 - VLOSS

EVENT E-MAIL	ON	*		
EVENT TYPE	MOTION	FPOW	ER ON	
	SENSOR	ПНОВ	ERROR	
	T vLoss			
SENDER ID			_	
E-MAIL ADDRESS 1	anyone@hotmail.	com		
E-MAIL ADDRESS 2				

Event E-mail : Select ALL TIME or SCHEDULE to use Email notification.

Event type : Select Event type to notify by email

SENDER ID : Input DVR name or letters

E-mail address : Input your email address to receive event information from DVR.

For example : anyone@gmail.com

Ex) Email message

From : DVR@dvr.com To : anyone@gmail.com Sent: Friday, July 24, 2009 6:11 PM Subject: EVENT MESSAGE [2009/07/24 18:10:11] [testdvr/192.168.001.121] MOTION ch 1 ON

4.2.4.5. E-MAIL SCHEDULE

This function works when you select SCHEDUEL as the value of EVENT E-MAIL in E-mail MENU. You can get email from DVR according to schedule you select date or time.

4.2.4.6. ALARM SCHEDULE

If you select the date or time you want, the Buzzer goes off, after the value of alarm-out was chosen as any value in each sub menu of EVENT, when the related things happen during the selected times.-



ALL	0				5					10		15	20	
SUN														
MON		0	0	0	0	0	0	0	0	0	0			
TUE		0	0	0	0	0	0	0	0	0	0			
WED		0	0	0	0	0	0	0	0	0	0			
THU		0	0	0	0	0	0	0	0	0	0			
FRI														
SAT	1		10	10		10						1010		

4.2.4.7. MISC

- PRE-REC TIME Enter recording time (0~30sec) before the time when event occurs
- POST-REC TIME Enter recording time (0~120sec) after the time event occurs.
- BUZZER Buzzer will be sounded when alarm is out , if ON is selected.
- DWELL TIME Enter the duration time of alarm out when event occurs.
- EVENT POPUP When event happens, the channel will pop up if ON is selected.
- POPUP SEQUENCE TIME Switching time to display popup channels

II > 0 > + EVENT - MISC		
PRE-REC TIME	04	SEC (0-30)
POST-REC TIME	010	SEC (0-120)
BUZZER	ON _	2
DWELL TIME	005	SEC (0-120)
EVENT POPUP	OFF	
POPUP OUT	NORMAL	3
POPUP SEQUENCE TIME	00	SEC (1-60)
		OK CANCEL

4.2.5. STORAGE

4.2.5.1. HDD FORMAT

You should surely format HDD first of all, After that HDD can be used for recording

- (1) Select HDD to format and Click FORMAT icon.
- (2) After formatting, system will reboot. It will take 20 minutes to format 500G HDD.



4.2.5.2. HDD SMART

This window shows the temperature of HDD.

If you select ON in SMART, you can change the value of the each items.

- (1) The temperature threshold means that the temperature of HDD exceeds the desired value you input, the beep happen and the below MENU appears.
- (2) Inspection Cycle is that how many often system check the Temperature of HDD.
- (3) Daily time is that if you select the value of inspection cycle as daily, what time system check the temperature of HDD.



	HDD1	42 C	HDD2		
	HDD3		HDD4		
SMART	ON 💌	TEMPERATU	RE THRESHOLD	55	c
		INSP	ECTION CYCLE	Every 1	minutes
			DAILY TIME	00	Hour(0-23)

FORMAT

4.2.6. NETWORK



4.2.6.1. SETUP

(1) STATIC,

Basically, you can choose one among STATIC, DHCP, and ADSL(PPPOE). If you choose DHCP mode, DVR system gets IP address automatically from IP router if connected, and If you choose STATIC mode, input IP address which is connected to DVR.

(2) ADSL(PPPOE)

If you use ADSL model, select ADSL and enter PPPOE ID and PASSWORD. If you don't know ID and Password, please contact your ADSL service provider.

∷> 0) 🖗 NETWORK - S	ETUP	11) G) 🖓 NETWORK - S	ÉTUP	() ⊕) ∉) ⊟) ⊕) ∉ NETWORK - S	ETUP
TYPE	STATIC	TYPE	онср	TYPE	ADSL(PPPOE)
IP ADDRESS	192.168.001.116	IP ADDRESS	182,152,001,116	IP ADDRESS	192168.001.116
GATEWAY	192.168.001.001	GATEWAY	192162.005.001	GATEWAY	192.168.001.001
NETMASK	255.255.255.000	NETMASK	255,255,255,000	NETMASK	265 256 295 000
MAC ADDRESS	00:0E:B8:00:11:C7	MAC ADDRESS	00.0E.85.00:11:07	MAC ADDRESS	00.05.85.00.11:07
PPPOE ID		PPPOE ID		PPPOE ID	
PASSWORD		PASSWORD		PASSWORD	
	ок	ANCEL	ок с	ANCEL	OK

4.2.6.2. STREAM

You can set up the recording rate and Network transfer rate separately.

If you select ON in dual streaming, the network transfer rate can be selected in accordance with desired value. If you select OFF in dual streaming, the network transfer rate follows the recording rate. 3 kinds of parameter can be chosen , the maximum frame per second in 120 Frame in CIF.

	DUAL STRE	AMING ON	Ŧ			
сн	RESOLUTION	OFF				
1	360x240 💌	NOR		8	-	
2	360x240 💌	NORMAL	Ŧ	8	•	
3	360x240 💌	NORMAL	¥	8	*	
4	360x240 💌	NORMAL	٣	8	•	
		-		-		
ALL	360x240 👻	NORMAL	*	30	-	

Resolution	Normal	Frame
360*240	Basic	1, 2,
720*240	Normal	4, 8,
720*480	High	15, 30
	Best	

4.2.6.3. DDNS

DVR supports basically <u>DYNDNS.COM</u> and <u>NO-IP.COM</u> for DDNS connection. INPUT appropriate data as follows, to get more detail information on how to set up Network, Please refer the Supplied CD.

Note : Before setting DDNS, you should be registered on the website <u>www.dyndns.com</u> or www.noip.com at first

- SERVER Choose server type.
- USER ID Enter your site ID be registered on website
- PASSWORD Enter your site PASSWORD be registered on website
- HOST NAME Enter your host name be registered on website.

After setup of DDNS, select TEST Icon to verify the connection to DDNS site.

SERVER	DYNDNS.COM	SERVER	NO-IP.COM
SERVER-URL	www.dyndrib.com	SERVER-URL	www.no-lp.com
USER ID		USER ID	
PASSWORD		PASSWORD	
GROUP ID		GROUP ID	
HOSTNAME		HOSTNAME	
STATUS	DDNS OFF	STATUS	DDNS OFF

4.2.6.4. CLIENT

Choose one of given CLIENT PORT list, and enter desired value at WEB PORT, whose default value is 0080. Remember those values you have entered for the following setup. Total 16 values of CLIENT PORT are already given for your convenience from 7620-7624 to 7770-7774.

4.2.6.5. ACCESS LIST

Registered IP address is allowed to access DVR.

If you set at least one IP address, then only entered IP address(es) would be allowed to access DVR.

CLIENT PORT	7620-7624	-
	7620-7624	
WEB-PORT	7630-7634	
	7640-7644	
BANDWIDTH	7650-7654	
DARDINDIN	7660-7664	
	7670-7674	1

lient 1	000.000.000.000	Client 6	000.000.000.000
lient 2	000.000.000.000	Client 7	000,000,000,000
Olient 3	000.000.000.000	Client 8	000.000.000.000
Client 4	000.000.000.000	Client 9	000.000.000.000
lient 5	000.000.000.000	Client 10	000.000.000.000

4.2.7. SYSTEM



When you click SYSTEM Icon, SYSTEM menu is divided into 6 sub-menus; CONFIG, TIME, INPUT DEVICE, USER, UPGRADE and TURN OFF DVR.

4.2.7.1. CONFIG

You can save system setting values to USB device or can load system setting values from USB device.

- LOAD CONFIG Load the saved configuration file from USB device and input to product.
- SAVE CONFIG Save present system configuration values to USB device.
- DEFAULT Change setting value to factory default.

SYSTEM - CONFIG	II>O>W SYSTEM - CONFIG
LOAD CONFIG SAVE CONFIG DEFAULT	LOAD CONFIG LOAD CONFIG Device idev/adb v File List config 4, 00,cfg v OK CANCEL
OK CANCEL	OK CANCEL S>C>W SYSTEM - CONFIG
1000.0005/0	MESSAGE DIALOG X
SAVE CONFIG X Device devisab	Are You Sure??
OK CANCEL	CANCEL
OK CANCEL	OK CANCEL

4.2.7.2. TIME

CURRENT TIME	2028/08/23 05:28:33		
DATE FORMAT	YY/MM/DD	•	
TIME FORMAT	24HOUR	•	
TIME ZONE	+09:00 Seoul		
TIME SYNC	OFF	-	
SERVER IP			TEST

- DATE FORMAT Select Date format.
- TIME FORMAT Select type of time indication
- TIME ZONE Select your area to make adjustment of time zone.

Please remind that the system will reboot, when you change the time zone.

- TIME SYNC
 - This function is for synchronizing the time of DVR periodically with that of the connected server by every hour.
- SERVER IP Enter IP address of time server.
 - Select TEST and press ENTER button to check if time sever is working.
 - If this function is selected, DVR refer the time of Time zone every one hour,

And then time of DVR will be changed to match that of time server.

- E.g. time.kriss.re.kr (www.time.kriss.re.kr \rightarrow X)
- CHANGE TIME Time will be changed by manual if the time server is not selected.

4.2.7.3. INPUT DEVICE

III>☆>☆ Y SYSTEM - INPUT DEVICE				
SYSTEM-ID	00			
KEYBOARD	NONE	•		
KEY-TONE	ON			
		ок	CANCE	EL

- SYSTEM-ID Input the number that you want to register in this DVR.
- KEYBOARD DVR system can be connected with control keyboard.
- KEY-TONE Beep whenever button is pressed if ON is selected.

How to set up System-ID status

- System-ID status shows whether the system will accept key from remote-controller or not.
- SYSTEM-ID is used when user operates several systems with one remote controller.
 SYSTEM- ID will be displayed when SYSTEM- ID is other than 0(zero).
- By using DVR-ID button of remote controller, Remote controller can be matched with SYSTEM- ID, or if SYSTEM- ID is 00, system-ID is not displayed and system accept key from remote controller.
- If SYSTEM- ID color is Yellow, the system accepts remote-controller key input.
- If SYSTEM- ID and Active-ID are not matching, SYSTEM- ID color will be Red and the system does not accept remote-controller key input. (No beep)
- How to match SYSTEM- ID by remote controller
 - (1) Press DVR-ID button of remote controller. (You can hear short double-beep.)
 - (2) Then, press desired System-ID by using 2 numeric button. (E.g. 02 or 03 or 01)


4.2.7.4. USER

There are two fixed users such as ADMIN and NETUSER. Their values of authority are already set and unchangeable like the below picture. Additionally, you can create Max. 4 more authorized accounts, and you also give limited authority to control DVR system by checking each box.

- USER There are two unchangeable user IDs (ADMIN, NETUSER), and additionally you can add four additional USERs by your own.
- **PASSWORD** Only passwords for ADMIN and NETUSER are set to '0000'. When you create a new account, make sure that you have to enter new PASSWORD. And don't forget the Password.
- SETUP Only by checking this box, accounts can be allowed to enter SETUP MENU.
- REC. F Checking this box allows users to control and change values about RECORD, PLAYBACK, and BACKUP functions.
- NETWORK Checking this box makes users access or control DVR in NETWORK function.
- MONITOR All users can monitor the current screens.
- TIME OUT When this is set to ON, LOGIN window will re-appear after entered time from any signal input. If you want to log out, you need to go to MENU and select LOG OUT like right picture.

USER	PASSWORD	SETUP	REC.F	NETWORK	MONITOR
ADMIN	****	x	12	1	
NETUSER	****			12	
USERI	****	Г			
USER2	****	Г			
USER3	****	Г			2
USER4	****				2
			REC.F : R	EC + PLAYBAC	K + BACKU
TIME OUT	ON -	05 (mir	1)		

4.2.7.5. UPGRADE

If you open this menu, you can see the current firmware version of DVR.

If you would like to upgrade firmware of DVR, please follow the below steps.

If you click upgrade icon, the small upgrade window will pop up

There are two ways; USB UPGRADE, NETWORK UPGRADE.

Note : There is two methods to upgrade the DVR system.

- USB UPDATE Upgrade the DVR system by using USB memory stick.
- NETWORK UPDATE Upgrade the DVR system through Internet.

ENC. FIRMWARE	20070718_0
DEC. FIRMWARE	20070718_0
BOOTLOADER	U-S0824.0.1
KERNEL	2.6.19 ppc
APP. VERSION	h240s-eds_8-100217-Test
UI	5.8.3
DB	2.10.0
RECORDER	1.5.16
PLAYER	1.7.12
NETWORK	1.10.12



4.2.7.5.1 USB UPGRADE

Please select USB upgrade in upgrade window

- (1) Copy provided firmware file to your USB memory stick
- (2) Attach USB Memory which includes Firmware into USB Port.
- (3) Enter UPGRADE icon to upgrade firmware, then small windows will appear.
- (4) Please click OK Icon and the message dialogue to confirm will popup,
- (5) And please click OK, or CANCEL to proceed.
- (6) It will take some minutes to upgrade, and then DVR will be rebooted automatically after upgrade is finished.

4.2.7.5.2. Network upgrade

Please select network upgrade in upgrade window

- (1) Select UPGRADE, then small window will appear.
- (2) Select NETWORK UPGRADE and press ENTER button.
- (3) Check out whether Server IP and FILE NAME are correct. If shown information is wrong, correct SERVER IP and FILE NAME and press ENTER button to input new information by text input Dialog box.

Note : Make sure the information of Server IP & File name through your supplier.

(4) Select OK and press ENTER button to start S/W upgrade.

After completing upgrade, the system will reboot automatically.

ENC. FIRMWARE 20070718_0		ENC. FIRMWARE	20070718_0	
DEC. FIRMWARE 20070718_0		DEC. FIRMWARE	20070718_0	
USB UPGRADE	×	NE	TWORK UPGRADE	×
Device /dev/sdb	<u> </u>	SERVER IP		
File List flash-cs0412-eds_4-	-v3_5_2-101_	FILE NAME		
OK CANC	CEL		OK CANCEL	J
PLAYER 1.7.12		PLAYER	1.7.12	
NETWORK 1.10.12		NETWORK	1.10.12	

4.2.7.6. TURN OFF DVR

If you want to turn off DVR, please press 'TURN OFF DVR' then press 'OK' button as below screen.



4.3. SEARCH



This Menu is divided into 5 sub-menu;

By time, By Calendar, By Event, Go to first and Go to last.

Please Click or press **SEARCH** button, The Sub-menu of SEARCH will pop-up. And then if you select the value in one of them, the playback bar Will be shown, and please see the page 13 to get how to control.

4.3.1. SEARCH BY TIME



- (1) Enter desired date and time to search for.
- (2) Then, move the pointer to OK and press ENTER button.It is the start point to play back the data.

4.3.2. SEARCH BY CALENDAR

- (1) If you select SEARCH BY CALENDAR, the calendar will appear as the below.
- (2) Select desired date by pressing $\blacktriangleleft \triangleright \blacktriangle \forall$ buttons and press ENTER button.
- (3) Select desired Hour/Min by pressing ◀ ▶ ▲▼ buttons and press ENTER button.
- (4) Select OK and press ENTER button.

Note

- The color of Date is gray if there is no any recording. But the color of date turns Black when the recording data of that date exists.
- When you select the date which turned Black, the time bar will be shown including white, and red rectangular on Hour and Minutes.

White bar does not include recording data, and the data exist in red color.

If you select one red rectangular of Hour bar, its color changed to brown, and the color of minute bar will be changed to red if there is recording data in those minutes.

And then, if you select one of these rectangular, the starting point is selected to play the recording data. The data will be played back when you click OK icon.



4.3.3. SEARCH BY EVENT

- (1) If you select SEARCH BY EVENT, the following window will appear.
- (2) Enter desired start time and end time to find EVENT.
- (3) Select desired channel to search for.
- (4) Select desired event type to search for.
- (5) Select SEARCH button and press ENTER button.

	SEARCH BY EVENT X
START TIME	2028/08/22 09:00:00
END TIME	2028/08/23 08:59:59
CAMERA	MALL
	CH1 CH2 CH3 CH4
EVENT	MOTION SENSOR VLOSS
	SEARCH CLOSE

4.3.4. GO TO FIRST

Play starts from oldest recorded data.

4.3.5. GO TO LAST

Play starts from latest recorded data.



FUNCTION menu is divided into 4 sub-menu; PTZ, AUDIO, BACKUP, and LOG VIEW

4.4.1. PTZ

- If you press P/T button of remote controller, or select PTZ in Function Menu, screen will be changed to FULL screen mode and you can control PTZ camera.
- If you press advance Icon in PTZ window, PTZ- ADVANCE window will pop-up.

4.4.1.1. PTZ BASIC

РТΖ
P • P
Advance

- If you press ◀ ▶▲▼ button, camera will pan to left / right or tilt up / down.
- If you press ◀◀ / ▶▶ button or search / log button of remote controller or Click (+), (-) Icon, the camera will zoom in or out.
- If you press numeric button of remote controller, target camera will be changed.

4.4.1.2. PTZ ADVANCE

- FOCUS
 - ① + : Focus-IN.
 - ② : Focus-OUT
 - ③ AUTO : AUTO-FOCUS mode.
- IRIS
 - ① + : Open Iris.
 - ② : Close Iris.
 - ③ AUTO : AUTO-IRIS mode.
- SPEED
 - 1 + : The control speed will increase.
 - ② -: The control speed will decrease.



- PRESET
 - ① If you want to go to a specific PRESET-position, select "GO" button.
 - 2 If you want to scan PRESET-positions, select "SCAN" button

Note

- The PRESET-positions are set by PRESET menu [MENU → SETUP → CAMERA → PRESET]

- The SCAN-lists are set by SCAN-POINT menu [MENU \rightarrow SETUP \rightarrow CAMERA \rightarrow SCAN-POINT]

OSD MENU

If you click OSD MENU icon in case that Camera itself has OSD function, The OSD will be shown in accordance with Camera's OSD.

If OSD is not supported by Camera, OSD MENU does not work.

4.4.2. Audio

- Set audio output to make sounds at external speaker.
- Audio works only at full screen mode.
- You can control audio volume
- Before setting Audio volume, you can test it by using ON/OFF test Icon

	A	UDIO VOLI	JME CONTROL		×
СН	VOLUME	TEST	СН	VOLUME	TEST
1		OFF	5 💻		OFF
2		OFF	6		OFF
3 🔜		OFF	7		OFF
4		OFF	8		OFF
1-8	9-16			ок	

4.4.3. Backup

You can back up the data you want to store or keep to USB Device.

For USB backup, connect USB device to USB port of DVR system.

Select Channel and time you want, and then move and Click the pointer to BACKUP Icon, or press

Backup button of remote controller.

- DEVICE Select device to backup
- CHANNEL Select desired channel
- TO AVI Can make backup file as AVI file
- SMI Time stamp to indicate time / data at AVI file.
 - Backup viewer is automatically copied
 - to the device together with backup data
- FROM Enter starting date time to backup
- TO Enter ending date time to backup

Note

- One channel only can be selected and can backup by USB memory
- Backup viewer is automatically copied to the device together with backup data

4.4.4. Log view

- You can see the system log status or save it into USB memory and see it in PC.
 - EVENT TYPE Select desired event type
 - FROM Enter starting date & time
 - TO Enter ending date & time
 - BACKUP Save log data into USB memory
 - SEARCH If you click SEARCH Icon, you can see log list in DVR.

4.5. OSD OFF

If you press click OSD in Remote controller, something displayed on screen will disappear or appear according to your selection on OSD MENU

If you click OSD OFF in MAIN MENU, something displayed on screen will disappear according to your selection on OSD MENU

Please see the page 21 to get more information.

[SETUP->DISPLAY->OSD->OSD WINDOWS-> EACH PARAMETERS]

If you only click or move mouse, something will be displayed again.

4.6. REC

If you click REC in main Menu or press REC/Stop button in remote controller, recording will start or be stopped by toggle. The some steps should be advanced before record is selected.

Please Check whether the value of date and time is properly set.

- Check if HDD is formatted. If HDD is not formatted, please format HDD.

[If the HDD is not formatted yet, please see Page .[How to format HDD]

- Please come back to Record sub-menu of SETUP.
- Choose suitable values in parameter and schedule.
- The recording depends on your selection on schedule,

	BA	CKUP		×
DEVICE MEDIA TYPE	<mark>USB(SanDi</mark> CD-R	sk U3 Cruz	er Micro) 🗸	
CHANNEL		To Avi	TIME STAMP	
	СН1 СН3			
FROM	2028/08/23	05:59:27		
то	2028/08/23	05:59:27		
ļ	BACKUP		CLOSE	

	LOG VIEW	×
EVENT TYPE		
	SYSTEM	□ HDD
	RECORD	Пов
	T PROCESS	T NETWORK
		USER LOG
FROM	2028/08/22 09:00:00	
то	2028/08/23 08:59:59	
BACKUP	SEARCH	CLOSE

4.7 LOG OUT

If you click this Icon, you can change user who can operate DVR.

The Main Menu will disappear after you click Log out menu.

And then if you press any button in remote controller, or move mouse, The LOG IN window will appear. Please change the User in LOGIN ID and enter the password, and user can access DVR.

5. Central Monitoring System Software

NetCMS H264 BETA8	_ 🗆 X
	Net CMS
	DVR LIST All R-demo
	RPB LPB SETUP
EVENT PTZ	
	()
	0

5-1. General information

- CMS program is an application with which users not only watch and control remote DVRs, but also receive video/audio data or alarm signals with LAN, WAN environment.
- CMS enables users who care about security to manage full information from all the wireconnected DVRs. All security administrators can control all situations even in emergency with easy operation in their PC.
- Main features of CMS program is as follows,
 - Real time monitoring multi DVRs at the same time
 - Up to 64 camera display on a screen
 - Various screen mode supported. (1, 4, 6, 8, 9, 16, 25, 36, 49, 64 screed mode)
 - Remote controlling DVR setting value / PTZ camera
 - Change configuration values of DVR remotely
- System requirements for PC
 - Operating system : Windows XP / Vista / Windows7
 - CPU : Dual core or Higher
 - Ram : At least 1GB (2GB or higher memory recommended)
 - VGA : 128MB graphic memory or More

5-2. Program Installation

5-3. Find CMS installing program, and execute it.



5-4. After installation, the CMS icon will be created on the desktop.



5-3. Log In

When S/W is executed, a window of login appears.

Input your ID and password.

*Default ID and Password is admin and admin.

ID:	admin 💌
w:	••••

5-4. How to use CMS

NetCM	IS H264 BETA8		_ D X
			Net CMS
			∎- demo
			RPB LPB SETUP
		EVENT PTZ	\$ D
			4 »
			C

5-4-1. ICONS IN MAIN MENU

5-4-1-1. Screen division option

			64CH
--	--	--	------

S/W displays appropriate channel mode automatically according to channel q'ty of connected DVRs. Also, you can select desire channel mode among 4 / 9 / 16 / 64 channel mode.

You can see full scree mode by clicking maximize button



You can see one channel mode by double click

5-4-1-2. MAIN ICONS

- 1) ADD : Create Group or DVR site in DVR LIST window, or used to set prelist info window.
- 2) Delete : Delete created Group or DVR site in DVR LIST window, or PRE LIST window.
- 3) Modify : Modify the registered Group or DVR site in DVRLIST window, or cameras in PRELIST window.
- 4) connect : connect registered DVR.
- 5) Disconnect : Disconnect the now connected DVR.
- 6) RPB : Remote Playback Mode
- 7) LPB : Local Playback Mode
- 8) SETUP : Remote Setup
- 9) User Control : Add Delete User
- 10) Snapshop : Capture the Frame of one channel
- 9) Volume : Control Audio Volume
- 10) POWER : Turn Off the CMS window
- 11) EVENT : Show the status of CMS
- 12) PTZ : Control PTZ camera in one channel mode.



5-4-2. DVR LIST

To register DVR in CMS, please follow the below steps;

After you input PW in Login window, you can see operating CMS program.

You can make DVR list to connect and all camera of the DVR will be displayed in the connection.

- 1) Please select ALL and then click add folder ICON.
- 2) Please input Group name, then the group name will be created as tree of ALL.
- 3) Please select the group name and then click add folder ICON again, and then the Site window will pop up.
- 4) Please input each value in items.

Site Name : please input DVR site name you like to write down.

Address : please input the same IP address as that of DVR you set up in DVR.[see user's manual page 29]

User ID : Please input the same user name in DVR[see manual page 33.]

Password : please input the same password as that of DVR[see manual page 33.]

Port Number : please select the same port number in that of DVR[see manual page 31] The default value is netuser in User ID, and 0000 in password. The Network status in 4.2.7.4. USER(page 33) should be checked for users to see DVR with CMS.

- 5) Please click OK ICON, and then the status of DVR you selected will be shown in small window.
- 6) Please click connection ICON, the DVR will be connected.



5-4-3. PRE LIST

You can make camera list to display from some DVRs. Then, you can save the camera list and load. DVR should be registered first at DVR LIST



5-4-3-1. Making display List

Select desire group and click () button and drag desire camera to display to right table. Then, input desire list name and click OK button to save.



5-4-4. PTZ control.

If you click PTZ button, window will change to PTZ control mode. Then, you can control PTZ camera in one channel mode.



At DVR LIST : You can control PTZ after selecting the DVR of the PTZ camera.

At PRELIST : You can control PTZ after selecting the Camera.





5-4-5. Event status.

If you click event button, connection status will be shown.

		EVENT PTZ
Latest	2009/07/16 15:11:47 : EVT_CONNECT : 166 : CONNEC 2009/07/16 15:11:47 : EVT_CONNECT : 167 : CONNEC 2009/07/16 15:11:47 : EVT_CONNECT : 136 : CONNEC 2009/07/16 15:11:47 : EVT_CONNECT : office3 : CONNEC	T T
Old	2009/07/16 15:11:47 : EVT_CONNECT : 167 : Try to Co 2009/07/16 15:11:47 : EVT_CONNECT : 166 : Try to Co 2009/07/16 15:11:47 : EVT_CONNECT : 136 : Try to Co	nnect 🔤

5-4-6. Create user

If you click **S** button, a window of user list will appear. You can manage users to access Client S/W by adding or deleting user.



ADD : add user
DEL : delete registered user
CHG : change user ID or Password
Default : Delete all registered users except for admin user

5-4-7. Snapshot

Select screen and click the snapshot but

to get a picture.



5-4-8. Config

If you click

button, the Config window will popup which has two items.

5-4-8-1. OSD

You can select desire OSD to be shown in each channel

С	on	fig				×
٢	OS	D Hidden Ch	n Show/Hide			
		🗹 Cell No,	🔲 Site Name	🔲 Address	🗹 Camera Name	
	(BPS		💌 Time	YY/MM/DD 💌	
			Default	SAVE		

5-4-8-2. Hidden Ch Show/Hide

If you select, you can see hidden channel.

Config		
OSD Hidd	en Ch Show/Hide	
	Show hidden Ch	

5-4-9. Remote playback

- (1) Select DVR site
- (2) Click with button to change to remote playback mode.
- (3) Select recorded data and select time and minute by dragging
- (4) Then, click play button to play.



5-4-10. Remote backup player.

- (1) Click (2) Click
- button to change to backup player mode
- button to select backup file
- * You can select plural files at same time
- (3) Click to play



5-4-10-1. Change backup file to AVI file

The format of backup file can be converted to AVI file per each one channel.

If you Click PS to AVI ICON, the below AVI Convert window will pop up.

AVI Convert	
Input	
Audio CH 1	
Time Format YY/MM/DD -	
Convert Close	

Input : Select backup file to convert to AVI
If you want to convert with Audio, check in Audio box
CH : Select channel to convert
Output : Appoint directory and file name
Time Format : Select desire time stamp
Convert : Start AVI convert

5-4-11. Remote Setup

5-4-11-1. Log view

up .ogView	Record Property Camera Name	Version Remote Control Backup CH Backup
	<u>800</u> -07-16 · 오전 12:00:00 · 주	~~ 2009-07-16 • 오후 11:59:59 •
	V All System Process	NT TYPE HDD Record DB Network
num	date type	event
		m)()
	5	learch

5-4-11-2. Record Property

Cognew				rent			mote Control Back	-		Dacks
CH	Resolutio	n	Quality		FP:	5	Quality		FP:	5
01	360:240	-	BEST	w	30		NORMAL	¥	30	
02	350x240	*	BEST		30		NORMAL		30	
03	360x240		BEST		30		NORMAL		30	
04	368x240	*	BEST		30		NORMAL		30	
05	360:/240	-	BEST		30		NORMAL		30	
06	360+240	-	BEST	*	30		NORMAL	*	30	
07	350x240		BEST	-	30		NORMAL		30	
08	360:/240	-	BEST	-	30		NORMAL	٠	30	
09	360x240	*	BEST	Ŧ	30	•	NORMAL		30	
10	360+240	-	BEST	*	30		NORMAL		30	
11	360x240		BEST		30		NORMAL		30	
12	360x240	-	BEST	٠	30		NORMAL.		30	
13	360x240	-	BEST	-	30		NORMAL	٠	30	
14	350x240		BEST		30		NORMAL.	٠	30	
15	350x240		BEST		30		NORMAL.	٠	30	
16	360x240	•	BEST	٠	30	•	NORMAL	•	30	
ALL	720x480		BEST		30		BEST		30	

5-4-11-3. Camera Name

CH			CH	
01	INSUCENCE OF REAL	E.	09	CAM09
02	대한민국		10	CAM10
03	大韓民國		11	CAMII
04	CAM04		12	CAM12
05	CAM05	1	13	CAM13
06	CAM06	1	14	CAM14
07	CAM07		15	CAM15
08	CAM08		16	CAM16

- (1) Select desire date & time to search event
- (2) Select desire event type
- (3) Click Search button

You can adjust resolution, Quality and frame rate to record.

You can change camera name. DVR system is compatible with ANSI code. So, you can type by ANSI code.

5-4-11-4. Version

-Hardware -		Firmware
Model	EDS-1648C	UI (5.1,2
Frames	480	08 (2.6.0
V-CH	(16	Record 1.5.8
A-CH	16	Player [1,7,7
SENSOF	16	Network [1.10.6
ALARM	4	480-nds_16-090715-p18

5-4-11-5. Remote control

ogView Record Property	Camera reality Version	[[Dackap chroackap
	SW Upgrad	le	
	Upprad	e	luci
	Config Uplo	ad	100
	Upload	5	
	Config Down	load	1-
	Downlo	ad	
	Remote Reb	1001	
	Reboo	t	

You can check system information

•

SW upgrade : you can upgrade system
Config Upload : you can change config data to DVR
Config Download : you can get config data from DVR
Remote Reboot : you can reboot DVR.

5-4-11-6. Backup

etUp						Dealers	-
	w Heco 2009-07-		Camera I	2009-07-16 -	Remote Control		CH Backup
		10 .	filename	2009-07-16	size	Daci	cup List
	num		mename		8154		
E							
				Backup			
				확인	취소		

(1) Select desire date and click Backup list.

(2) Then, backup list in selected date will be shown.

(3) Appoint directory to save backup file and click Backup button to start backup.

5-4-11-7. CH backup

Start Time: 2009-0	7-16 💌 요전 12	00:00	10 min 💌
12 20			
E CHI	CH2	E CH3	CH4
CH5	E CH6	CH7	CH8
CH9	E CH10	CH11	CH12
E CH13	CH14	E CH15	🖾 CH16

You can backup specific channels with desire date / time.

6. Specification

Specification4 Channel8 Channel16 ChannelINPUTVideo(BNC)4816INPUTAudio(RCA)111Composite(BNC)1111OUTPUTComposite(BNC)111VGA1111AUDIO(RCA)1111AUDIO(RCA)1111PORTUSB2 x USB ports, 1 x PTZ(RS-485), 1 x Ethernet PortLiveDigital ZoomX2X2X2Monitoring Mode1.4 & PIP1.4,9 & PIP,POP1.4,9,16 & PIP,POPRecordingFrames at [CIF]120 / 100240 / 200480 / 400Frames at [D1]120 / 100240 / 200240 / 200240 / 200Frames at [D1]120 / 100120 / 100120 / 100120 / 100Pre/Post RerecordingPre (0 - 30 Seconds), Post (0-120 seconds)Recording ModeMetworkSearch MethodBy time, Calendar, Events and Go to First/Last DataLevendrigDual StreamLocal Recording & Network TransmissionNetworkSupport free DDNSSupport free DDNS server-dyndns.com/no-ip.comMobile Viewer3G Mobile Phones, iPhoneBandwidthAdjustable (64/128/256/512Kbps,1/2/4/10Mbps, Unlimited)SystemOSLinxuControlSelected Area, sensitivity in each channelSystemOSLinxuControlUSB Mouse, IR Remote ControllerBackup DeviceUSB Mouse, IR Remote Controller <th colspan="6"></th>						
INPUTAudio(RCA)111Sensor1111Sensor1111OUTPUTComposite(BNC)111AUDIO(RCA)1111AUDIO(RCA)1111Audin (Relay)1(1)1(1)1(1)1(1)PORTUSB2 x USB ports, 1 x PTZ(RS-485), 1 x Ethernet PortLiveDigital ZoomX2X2X2Monitoring Mode1, 4 £ PIP1, 4, 9 £ PIP, POP1, 4, 9, 16 & PIP, POPRecordingFrames at [CIF]120 / 100240 / 200480 / 400Frames at [D1]120 / 100240 / 200240 / 200240 / 200Frames at [D1]120 / 100120 / 100120 / 100120 / 100Pre/Post RerecordingPre (0 - 30 Seconds), Post (0-120 seconds)Recording ModeMetworkSpeedFast Forward/Backward(x1/8/32/64/128), Frame by framePlaybackSpeedFast Forward/Backward(x1/8/32/64/128), Frame by frameNetworkMobile Viewer3G Mobile Phones, iPhoneDual StreamLive/Playback/Backup/PTZ/Remote Setup/Local DVR RebootingDDNSSupport free DDNS server-dyndns.com/no-ip.comMobile Viewer3G Mobile Phones, iPhoneBandwidthAdjustable (64/128/256/512Kbps,1/2/4/10Mbps, Unlimited)Events & AlarmSelected Area, sensitivity in each channelSystemGSLinuxOthersWarning Message & Buzzer for HDD Over-TemperatureHDD<	Specification		4 Channel	8 Channel	16 Channel	
Sensor11Sensor111VGA111VGA111AUDO(RCA)111Alarm(Relay)1(1)1(1)1(1)PORTUSB2 x USB ports, 1 x FTZ(RS-485), 1 x Ethernet PortLiveDigital ZoomX2X2Monitoring Mode1,4 & PIP1,4,9 & PIP,POP1,4,9,16 & PIP,POP1,4,9,16 & PIP,POPRecordingFrames at [CIF]120 / 100240 / 200Frames at [CIF]120 / 100240 / 200240 / 200Frames at [CIF]120 / 100120 / 100120 / 100Pre/Post RerecordingPre (0 - 30 Seconds), Post (0 - 120 seconds)Recording ModeManual/ Continuous/Schedule/Motion/SensorPlaybackSpeedFast Forward/Backward(x1/8/32/64/128), Frame by frameDual StreamLive/Playback/Backward(x1/8/32/64/128), Frame by frameDual StreamLive/Playback/Backward(x1/8/32/64/128), Frame by frameMobile Viewer3G Mobile Phones, iPhoneMobile Viewer3G Mobile Phones, iPhoneMobile ViewerSupport free DDNS server-dyndns.com/no-ip.comMobile ViewerSig Mobile Server-dyndns.com/no-ip.comMobile ViewerSelected trea, sensitivity in each channel& AlarmGoSLinuxControlWarning Message & Buzzer for HDD over-TemperatureHDDInternal1 x SATA HDD (supports up to ZTB)SystemGoSLinuxGotsLinuxControl	INPUT	Video(BNC)	4	8	16	
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LiveDigital ZoomX2X2X2Monitoring Mode1,4 & PIP1,4,9 & PIP,POP1,4,9,1 & PIP,POPRecordingResolutionNTSC - 720*480, PAL - 720 * 576Frames at [CIF]120 / 100240 / 200480 / 400Frames at [D1]120 / 100240 / 200240 / 200Frames at [D1]120 / 100120 / 100120 / 100Pre/Post RerecordingPre (0 - 30 Seconds), Post (0 - 120 seconds)Recording ModeManual/ Continuous/Schedule/Motion/SensorPlaybackSpeedFast Forward/Backward(x1/8/32/64/128), Frame by frameSearch MethodBy time, Calendar, Events and Go to First/Last DataNetworkDual StreamLocal Recording & Network TransmissionNetworkCMSLive/Playback/Audio/PTZ/SnapshotCMSLive/Playback/Backup/PTZ/Remote Setup/Local DVR RebootingDDNSSupport free DDNS server-dyndns.com/no-ip.comMobile Viewer3G Mobile Phones, iPhoneBandwidthAdjustable (64/128/256/512Kbps,1/2/4/10Mbps, Unlimited)Events & Video LossEmail Notification, Schedule/Alarm Schedule for Events-TriggerMDDInternal1 x SATA HDD (supports up to 2TB)SystemOSLinuxControlUSB Mouse, IR Remote ControllerBackup DeviceUSB Mouse, IR Remote Controller<		Alarm(Relay)	1(1)	1(1)	1(1)	
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Monitoring Mode1,4 & PIP1,4,9 & PIP,POP1,4,9,16 & PIP,POPRecordingResolutionNTSC - 720*480, PAL - 720 * 576Frames at [CIF]120 / 100240 / 200480 / 400Frames at [D1]120 / 100240 / 200240 / 200Frames at [D1]120 / 100120 / 100120 / 100Pre/Post RerecordingPre (0 - 30 Seconds), Post (0-120 seconds)Recording ModeManual/ Continuous/Schedule/Motion/SensorPlaybackSpeedFast Forward/Backward(x1/8/32/64/128), Frame by frameSearch MethodBy time, Calendar, Events and Go to First/Last DataNetworkDual StreamLocal Recording & Network TransmissionNetworkWeb (I.E)Live/Playback/Audio/PTZ/SnapshotCMSLive/Playback/Backup/PTZ/Remote Setup/Local DVR RebootingDDNSSupport free DDNS server-dyndns.com/no-ip.comMobile Viewer3G Mobile Phones, iPhoneBandwidthAdjustable (64/128/256/512Kbps,1/2/4/10Mbps, Unlimited)Ka AlarmCottolSystemOSLinuxSystemOSLinuxSystemOSLinuxFirmware UpgradeUSB Mouse, IR Remote ControllerBackup DeviceUSB Memory Stick / HDD, Network by CMSUser managementAdministrator and 4 usersFirmware UpgradeOne remote controller can control several DVRs	Live	Digital Zoom	X2	X2	X2	
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		Log View		System operation stat	cus	

Trouble shooting

In the event of a product malfunction, please check the following list for a usual and possible solution before requesting service.

1. Product is not turned on.

Check out whether the power is being supplied well.

2. Product continues displaying "Loading" or "Starting UI...."

Check the product can boot without HDD

If product continues displaying "Loading" or "Starting UI...." Without HDD, you can try emergent upgrade.

Please refer method of factory default in provided CD

3. Camera video is not displayed on monitor

Check the video input / output connections on the product rear panel.

Check the camera status and the connection between camera video/power cable.

Check if CAMERA STATUS in menu is SHOW.

4. I cannot hear Audio

Check the audio input/output connections on the rear panel of DVR.

Audio works only in full screen mode.

5. I can't stop recording by remote controller or REC button

Check out that RECORD CONTINUOUS of REC OPTION of MENU is OFF.

6. I can't find previous recording data.

The product operates automatically **OVERWRITE** function. It deletes the oldest recording data to overwrite when HDD is full.

7. Product is not compatible with external USB device.

Please check if USB memory stick is in protection(password) function. Protection function of USB device should not be discharged.

8. I can't connect to network.

Check if network of menu is setting correctly such as Network port, ID, Password

Check if your internet line is available. Please ask your service provider to check internet line.

If the problem you are experiencing persists or is not mentioned above, please contact service center or your local distributor.