USER GUIDE

H.264 Digital Video Recorder

Release Version : 1.0



This document contains preliminary information and subject to change without notice.

SAFETY PRECAUTIONS



EXPLANATION OF SYMBOLS



This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.



This symbol is intended to alert the user to the presence of unprotected "dangerous voltage" within the product's enclosure that may be strong enough to cause a risk of electric shock persons.

CAUTION

THIS PRODUCT HAS MULTIPLE-RATED VOLTAGES (110V AND 220V). SEE INSTALLATION INSTRUCTIONS BEFORE CONNECTING TO THE POWER SUPPLY

THIS PRODUCT USES A LITHIUM BATTERY.

RISK OF EXPLOSION IF THE BATTERY ON THE MAIN BOARD IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO INSTRUCTIONS.

See INSTALLION INSTRUCTION BEFORE CONNECTING TO THE SUPPLY.

THIS EQUIPMENT AND ALL COMMUNICATION WIRINGS ARE INTENDED FOR INDOOR USE. TO REDUCE THE RISK OF FIRE ELECTRIC SHOCK, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE.

WARNING

The product should be installed by a trained professional. The DVR should be powered off when connecting camera, audio, or sensor cables.

The manufacturer is not responsible for any damages caused by improper use of the product or failure to follow instructions for the product.

The manufacturer is not responsible for any problems caused by or resulting from the user physically opening the DVR for examination or attempting to fix the unit. The manufacturer may not be held liable for any issues with the unit if the warranty seal is removed.

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Chapter 1. System Information

1.1. Packing contents

DVR SET			
Entry Model Standard Model			
REMOTE CONTROLLER	CLIENT SOFTWARE CD		
MANUAL	SATA HDD CABLE		
Triplex MPEG-4 DVR 9/16CH			
SCREWS	BATTERY		
Power Adapter	POWER CABLE		

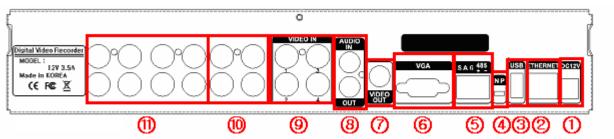
1.2. ENTRY MODEL

1.2.1 FRONT Description



1. USB Port	USB device can be connected. To Back-up the Data and To Use USB Mouse.		
2. POWER	The POWER LIGHT turns on RED when the power is supplied to the DVR SYSTEM.		
3. REC	The LIGHT is blinking when the DVR SYSTEM records data.		
4. NETWORK	TWORK The LED LIGHT turns on when the NETWORK FUNCTION is operated through the		
	connection of the Network Client.		

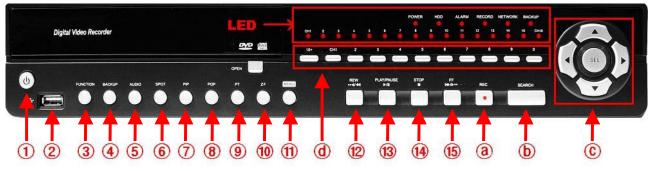
1.2.2 REAR Description



1. DC 12V POWER	Connect to Power Adaptor which was included in Box		
2. ETHERNET	10/100 Network CABLE (RJ-45) Port		
3. USB PORT	USB Device can be connected		
4. NTSC/PAL SWITCH	NTSC or PAL select switch		
5. 485 PORT	RS-485 port has +, - terminals		
GROUND	G for Ground used for earth		
ALARM	A for Alarm, which signal occurs		
SIGNAL	S for Signal		
6. VGA PORT	Connected with LCD Monitor (15 pin D-Sub Jack)		
7. VIDEO OUT	Connected with CRT Monitor (BNC)		
8. AUDIO IN/OUT	One channel Audio IN/OUT (RCA)		
9. 10. 11. VIDEO IN	VIDEO INPUT PORTS for 4 Channels, for 8 Channels, for 16 Channels		

1.3. STANDARD MODEL

1.3.1 FRONT



1.3.1.1 LED Description

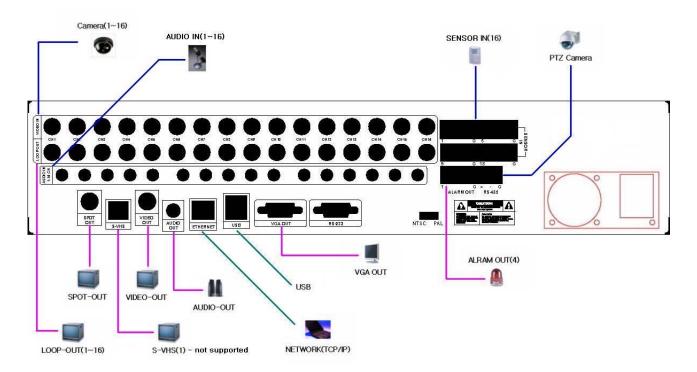
POWER	The POWER LIGHT turns on RED when the power is supplied to the DVR SYSTEM.			
	The LIGHT changes to GREEN and the SYSTEM BOOTING is started, when the			
	POWER BUTTON of the FRONT PANEL and Remote Controller is pushed.			
HDD	The LED LIGHT is blinking when the video or audio data is stored in the DV			
	System.			
ALARM	The LIGHT turns on RED when the ALARM OUTPUT of the DVR SYSTEM operates.			
RECORD	The LIGHT is blinking when the DVR SYSTEM records data.			
NETWORK	The LED LIGHT turns on when the NETWORK FUNCTION is operated through the			
	connection of the Network Client.			
BACKUP	The LIGHT turns on RED during the BACKUP process of the stored data.			
CH LED	Each Channel's LED turns on when DVR recording starts.			

* USB Port use USB memory stick, CD-RW, DVD-RW as firmware update and backup.

1.3.1.2 KEY Description

1. POWER SWITCH	The POWER SWITCH should be selected to operate the DVR SYSTEM, even
(STANBY POWER)	though the POWER is supplied to the DVR SYSTEM.
2. USB	There is a USB PORT in the FRONT of the DVR SYSTEM for the convenience of
	user, even though another USB PORT is located in the rear of the DVR SYSTEM.
	This USB PORT is for the External BACKUP Device.
3. FUNCTION	The buttons of some features are located on the FRONT PANEL and users can
	use them directly. It operates the features of PTZ, SEQUENCE, AUDIO, BACKUP,
	and LOG VIEW. It can't be operated by the remote controller.
4. BACKUP	It backs up the stored image in the DVR SYSTEM.
5. AUDIO	It turns ON each AUDIO OUTPUT or makes it MUTE.
6. SPOT	It is for the SPOT function. It rotates the image between FULL MODE and QUAD
	MODES. The image is displayed on the monitor through the SPOT PORT.
7. PIP	It displays a small pop-up screen on the full screen. With the PIP button, the
(Picture In Picture)	small pop-up and full screens are converted.
8. POP	It displays the divided screens of 8 channels.
9. PT	It operates the PAN/TILT CONTROL of the PTZ CAMERA that is installed on the
	DVR SYSTEM.
10. ZF	It operates the digital zoom of the live and playback screen in DVR System.
11. MENU	It displays the categories of SETUP and MENU of the DVR SYSTEM.
12. REW/STEP REW	It rewinds and replays the stored image up to 128 times faster. It supports the
	STEP Rewind feature on the pause.
13. PLAY/PAUSE	It plays/pauses the image during search.
14. STOP	It stops the searching process of the stored image.
15. FAST FORWARD	It is for the FAST Forward feature during the search of the stored image. It
	offers the search up to 128 times faster.
a. REC	It RECORDS the input image of the DVR SYSTEM or STOPS the recording
	process.
b. SEARCH	It searches the stored image.
c. SCROLL BUTTON	It moves (Up/Down/Left/Right) the cursor in the menu categories & PTZ screen.
	It displays full screen of camera(1ch/2ch/3ch/4ch) & division screens(4 division/
	8 division/ 9 division/16 division).
d. CH BUTTON	It show Full Screen Mode which you select a special channel.
	In case of 11~16CH selection, press 10+ button and then press 1~6 numbering
	button.

1.3.2 REAR Description



1. CAMERA	VIDEO INPUT PORTS for 16 Channels.		
2. LOOP OUT	Each Video Loop Out-put		
3. SPOT OUT	Video Out-put by Full Screen mode or Quad split mode		
4. VIDEO OUT	Connected with CRT Monitor (BNC)		
5. VGA	Connected with LCD Monitor (15 Pin D-Sub Jack)		
6. AUDIO IN	16 channel Audio IN (RCA)		
7. AUDIO OUT	1 channel Audio OUT (RCA)		
8. SENSOR IN	16 channel Sensor IN.		
8. ALARM OUT	4 channel Alarm OUT.		
10. RS-485 (PTZ)	RS-485 port has +, - terminals.		
11. NETWORK	10/100 Network CABLE (RJ-45) Port.		
12. USB	USB Device - To Back-up the Data and To Use USB Mouse		
13. NTSC/PAL SWITCH	NTSC or PAL select switch		

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** (▲, ▼, ◀, ►)

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) **I** : 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

1.5. Specification – Entry model

MC	DEL	4 CH	8 CH	16 CH
Compression Algorithm		Video : H.264 / Audio : G723		
HDD Bay SATA HDD ×1			5	
Operating System		Embedded Linux		
Video Input		4 CH	8 CH	16 CH
CVBS		1 CH, BNC		
Video	Loop out	Х	X	Х
Output	VGA	VGA ×1 (resolution	: 800×600, 1024×768, 128	
Live Display	Modes	1, 4 & PIP	1, 4, 9 & PIP, POP	1, 4, 9, 16 & PIP, POP
	CIF	120/100 fps	240/200 fps	480/400 fps
Rec. Speed	Half-D1	120/100 fps	240/200 fps	240/200 fps
	D1	120/100 fps	120/100 fps	120/100 fps
		Continuous, Schedule	e, Sensor-Activated & Motior	Detection Recording
Recording M	odes	Pre & Post	Alarm Recording, Emergenc	y Recording
Diauta ali - 0	Speed		×1, ×4, ×8, ×16, ×32	
Playback &	Search	Search by Time Bar, Calendar, Event and First/Last Search		
Backup	Device	USB Memory Stick		
Audio Input/	Output	1 In / 1 Out		
Sensor in/Ala	arm out	1 In / 1 Out		
Port		USB ×2, RS-485(PTZ) ×1		
LAN		10/100 Base-TX Ethernet(RJ-45) – Static / DHCP / DDNS		
	Transmission	Video Dual-Stream (Local recording & Network Transmission)		
Network	Client	Live Monitoring, Playback & Backup, PTZ Control & setting, Snapshot		
	Web-view	Live Monitoring, Playback, PTZ Control		
		Multi-Language, Firmware Upgrade by USB & Network		
Other Function	ons	Configuration Import & Export, Water-Mark, Alarm out for Events & Video loss		
other runet	0113	E-mail Notification/Alarm/Buzzer for Events, Warning for System Over-Temp		
		External keyboard control		
Power		DC 12V, 3.3A		
Storage Temp/Humidity		-20 ~ 60°C / 20 ~ 95% RH		
Operating Temp/Humidity		5 ~ 40°C / 20 ~ 80% RH		
Dimension (W×D×H)		341×258×60, Packing : 374×383×126 (mm)		
Certification		CE, FCC, RoHS		

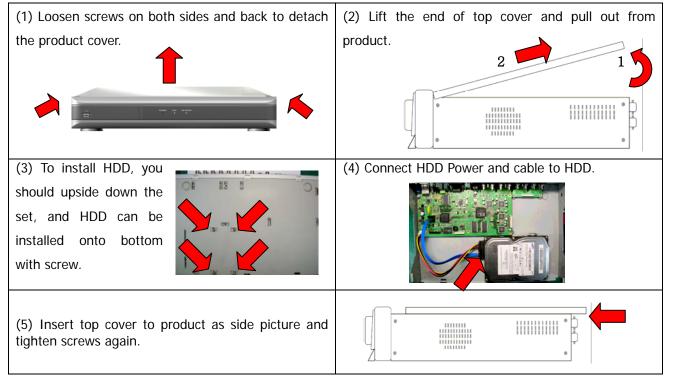
1.6. Specification – Standard model

MO	DEL	8 CH 16 CH					
Compression	Algorithm	Video : H.264 / Audio : G723					
HDD Bay		SATA HDD × 4 or SATA	A HDD × 2 & ODD × 1				
Operating Sy	rstem	Embedd	ed Linux				
Video Input		8 CH	16 CH				
	CVBS	1 CH,	, BNC				
Video	Loop out	8 CH	16 CH				
Output	Spot	1 CH (Full mode	e or Quad mode)				
	VGA	VGA ×1 (resolution : 800×600, 1	024×768, 1280×1024 Selectable)				
Live Display	Modes	1, 4, 9 & PIP, POP	1, 4, 9, 16 & PIP, POP				
	CIF	240/200 fps	480/400 fps				
Rec. Speed	Half-D1	240/200 fps	480/400 fps				
	D1	240/200 fps	240/200 fps				
Decording M	odoc	Continuous, Schedule, Sensor-Activ	Continuous, Schedule, Sensor-Activated & Motion Detection Recording				
Recording Modes		Pre & Post Alarm Recording, Emergency Recording					
Dlauback 9	Speed	×1, ×4, ×8	8, ×16, ×32				
Playback & Backup	Search	Search by Time Bar, Calendar, Event and First/Last Search					
Баскир	Device	USB Memory Stick/HDD, DVD-RW & Network by CMS					
Audio Input/Output 8 In / 1 O		8 In / 1 Out	16 In / 1 Out				
Sensor in/Alarm out		8 In / 4 Out	16 In / 4 Out				
Port		USB ×2, RS-485(PTZ) ×1, RS-232 ×1					
LAN		10/100 Base-TX Ethernet(RJ-45) – Static / DHCP / DDNS					
	Transmission	Video Dual-Stream (Local reco	rding & Network Transmission)				
Network	Client	Live Monitoring, Playback & Backu	p, PTZ Control & setting, Snapshot				
	Web-view	Live Monitoring, Pla	ayback, PTZ Control				
		Multi-Language, Firmware	Upgrade by USB & Network				
Other Function	one	Configuration Import & Export, Water-N	Mark, Alarm out for Events & Video loss				
	0115	E-mail Notification/Alarm/Buzzer for E	vents, Warning for System Over-Temp				
		External keyl	poard control				
Power		AC 100	~ 220V				
Storage Tem	p/Humidity	-20 ~ 60°C / .	20 ~ 95% RH				
Operating Te	mp/Humidity	5 ~ 40°C / 2	0 ~ 80% RH				
Dimension (V	W×D×H)	430×380×95, Packing	: 520×470×230 (mm)				
Certification		CE, FCC	C, RoHS				

Chapter 2. Installing Product

2.1. Installing HDD

- Some 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.



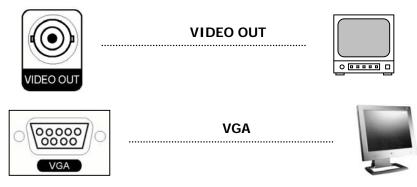
2.2. Connecting Camera and Audio device

- 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.

Camera input	
Audio In	Q
Audio OUT	

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.



Chapter 3. Introduction

3.1. Boot Screen



Figure 3-1

'Boot Loading' is shown on the screen after the system booting (Figure 3-1) and the booting process is started to operate.



Figure 3-2

The authentication process would be started for the security of the system (Figure 3-2), when the booting process of Figure 3-3 is completed. The default password from factory is "0000" and can be changed by an administrator at the SETUP MENU.

3.2. SYSTEM OSD



Figure 3-3

The general indication of the system is displayed on the main screen (Figure 3-3)

Camera Name	It indicates the camera channel and name.
Operation Status of System	 It indicates the current operation of the system. It indicates the current operation of the system is Recording. The current status of the system is Motion Detection. The current status of the system is Sequence mode The current status of the system is Alarm detection. The current status of the device that is connected to USB. The current status of the system is PTZ control status. The current status of system is the connected Network status
STATUS BAR	 This system supports HDDs up to 4 that are indicated as A, B, C, D. : xx% (Recorded Space Ratio), Currently doing Record on HDD : Normally Installed HDD. : None (HDD is not installed or unavailable HDD is installed.)
Date & Time	It indicates the time & date that are set up on the current system.

3.3. The Menu of DVR System

It is the setup process for the DVR SYSTEM. Users can adjust and control it for their needs before starting to use it. This process sets up the environment of the DVR SYSTEM. Users should confirm each menu before starting to use the system.



Details of Figure 3-4

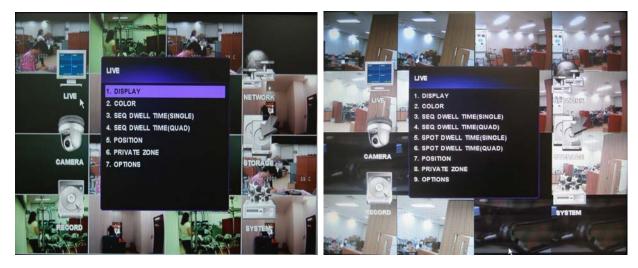
	DISPLAY COLOR SEQ DWELL TIME(SINGLE) SEQ DWELL TIME(QUAD) SPOT DWELL TIME(SINGLE) SPOT DWELL TIME(QUAD) POSITION PRIVATE ZONE OPTIONS		NETWORK TYPE STREAM DDNS NETWORK SETUP ACCESS LIST
CAMERA	CAMERA SETUP PTZ PROTOCOL PTZ PRESET PTZ SCANPOINT	STORAGE	FORMAT HDD SMART OPTIONS
RECORD	REC PROPERTY SCHEDULE MOTION DETECTION SENSOR DETECTION VLOSS E-MAIL E-MAIL SCHEDULE ALARM CONTROL ALARM SCHEDULE OPTION		TIME UPDATE CONFIG SETUP OPTIONS USER SHUTDOWN

* To move sub-menu from the main-menu, push the "SEL" button, and "Menu" button is back to the main-menu from the sub-menu.

Chapter 4. Setting up the DVR System

4.1. SETUP - LIVE

This menu to set up the environment about the OSD display in DVR system.



Entry Model

Standard Model

Figure 4-1

This chart is for the SYSTEM MENU of Figure 4-1.

DISPLAY	It sets up the display about the current status of OSD status.
COLOR	It changes the BRIGTNESS, CONTRAST, and COLOR of CAMERA.
SEQ DWELL TIME	It sets up the time interval between the images of each CAMERA, which are displayed
(SINGLE)	progressively in full screen.
SEQ DWELL TIME	It sets up the time interval to display the image of CAMERA progressively in QUAD
(QUAD)	Mode.
SPOT DWELL TIME	It sets up the circulation time interval for FULL SPOT SCREEN.
(SINGLE)	(Standard model ONLY)
SPOT DWELL TIME	It sets up the circulation time interval for QUAD SPOT SCREEN.
(QUAD)	(Standard model ONLY)
POSITION	It sets up the video position of the each channel in live screen.
PRIVATE ZONE	It sets up the private zone of the each channel in live screen.
OPTIONS	It sets up the other options of display in OSD screen.
	It sets up the de-interlaced scanning, event pop-up, VGA frequency and video
	detection.

* Press the Menu Key of remote controller or click the right button of mouse if you want to return to Previous Menu from current Menu or return to Main Screen from current Menu.

4.1.1 DISPLAY

LIVE - DISPLAY				
CAMERA NAME	ON		HHHH	
CAMERA NUMBER	ON			
CAMERA BORDER	ON	-		
LANGUAGE	ENGLISH	-		
OSD HIDE	ALL		AUTO HIDE	OFF 🔽
				05
LEFT MARGIN	30	VGA		
RIGHT MARGIN	00	TV		
TOP MARGIN	10			
BOTTOM MARGIN	20			
			ОК	CANCEL
				VAILUEE

This part is how to display on OSD chart like DISPLAY MENU of Figure 4-2.

This chart is for the DISPLAY MENU of Figure 4-2.

MENU	Value	Description
CAMERA NAME	ON/OFF	It selects show or not the camera name of each channel in live
	UN/UFF	screen.
CAMERA NUMBER	ON/OFF	It selects show or not the camera number of each channel in
	UN/UFF	live screen.
CAMERA BOADER	ON/OFF	It selects show or not the outline of channel
LANGUAGE	Select	It selects the language to use. If you select a language, the
LANGUAGE	501001	language displayed as you selected.
OSD HIDE	Select	It selects show or not the status bar in live screen.
LEFT MARGIN	00~99	It operates the deflection of horizon/ vertical video by the values
		(00~99) for sets capacity of display devices. (Analog & VGA
RIGHT MARGIN	00~99	Monitor)
TOP MARGIN	00~99	If you want to change the margin, Please press OK button after
		select the position of the each margin box to change. Therefore
BOTTTOM MARGIN	00~99	you have to fill the margin number.
VGA or TV ICON	Select	As using VGA or TV, You can select VGA default or TV default.

4.1.2 COLOR





It adjusts the color and brightness of the camera (Figure 4-3). To adjust them, at first it moves the channel where is displayed at the right side of the screen. Please click the Left or Right cursor buttons and then change the value of the each menu. After finish, you must press the OK button.

If you want to change the factory setting, press the DEFAULT button. The bellow chart is the changing value area to operate.

	BRIGHT	-10 ~ +10
Set Value	CONTRAST	-10 ~ +10
Set value	COLOR / SATURATION	-10 ~ +10
	COLOR / HUE	-10 ~ +10

	LIVE - S	EQ DWELI	L TIME(SINGLE)		Digital Vi	deo Recorder
			ПМЕ	SEQ		ПМЕ
		01	02		09	02
		02	02		10	02
		03	02	11	11	02
		04	02	12	12	02
		05	02	13	13	02
		06	02		14	02
		07	02		15	02
		08	02		16	02
DEF	AULT CH	ALI	L TIME 02		ОК	CANCEL

Figure 4-4

It sets up the time interval between images of each camera that was displayed progressively in full screen. The sequence time value with the scroll buttons on the line what you want.

Each channel could be set-up up-to 99 seconds to sequence. Its recommended time is under 10 seconds, you can find out the channel sequence on Live mode ($\stackrel{\bullet}{=}$).

4.1.4 SEQ DWELL TIME (QUAD)



It sets up the time interval between images of each camera that was displayed progressively in QUAD screen. It rotates the images in QUAD MODE and the time (interval) between the images that are rotated in each QUAD MODE set up from 1 to 9 normally. The set value for each time is 1~99 seconds and set inner 10 seconds. If it operates the sequence function, you will see the sequence image (¹) in the live screen.



4.1.5 SPOT DWELL TIME (SINGLE) – Standard model only

Figure 4-6

The SPOT feature displays progressively the image on the connected monitor in FULL or QUAD SCREEN, even though VIDEO-OUT shows the image as it is from the DVR SYSTEM.SPOT DWELL sets up the time interval to display the image progressively in FULL SCREEN.

For its setup, place the cursor on the time setup category of each channel and select the number that is located on the front panel or remote controller or USB Mouse (Figure 4-6). The set value for each time is $0 \sim 99$ seconds and must set inner 10 seconds.

а сн1					
			она тім	16	
01	02	03 0	03		
05	06	07 0	8 03		
09	10	11 1		_	
13	14	15 1	6 03		
	05 09	05 06 09 10	05 06 07 0 09 10 11 1	05 06 07 08 03 09 10 11 12 03	05 06 07 08 03 09 10 11 12 03

4.1.6 SPOT DWELL TIME (QUAD) – Standard model only

Figure 4-7

SPOT QUAD DWELL sets up the time interval that the images are progressively displayed in QUAD screen (Figure 4-7). It is sets up the time interval to display the image progressively in monitor.

For its setup, place the cursor on the time setup category of each quad channel and select the number that is located on the front panel or remote controller or USB Mouse (Figure 4-7). The set value for each time is $0 \sim 99$ seconds and must set inner 10 seconds.

4.1.7 POSITION



It is the setup for video position for the each video channel. You can change the video position of the each channel though to the Left / Right button. It was controlled the value from -10 to 10.

According to the capacity of monitor, the video position does not have standard. The function is to control video screen position.

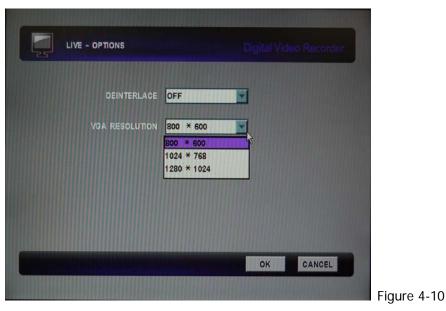
4.1.8 PRIVATE ZONE



It is the setup to private zone for the each video channel. To protect privacy, you can choose the zone which can not be recorded.

4.1.9 OPTIONS

The functions are the De-Interlace, event pop-up, VGA Frequency, Video detect.



	It controls the flicker that can threaten the image quality by turning it ON or
	OFF. The flicker can be appeared in CCTV monitor, when the Image that is
DEINTERLACE	saved in the 720X480 resolution is played. For this situation, set it ON mode.
	And set it OFF mode, if the VGA PC monitor that has no flicker, is used.
	It can select appropriate VGA resolution according to user's VGA Monitor.
VGA RESOLUTION	(VGA resolution : 800*600, 1024*768, 1280*1024)

4.2. CAMERA

It is the menu to set up the environment about the CAMERA setup and PTZ option in DVR system.

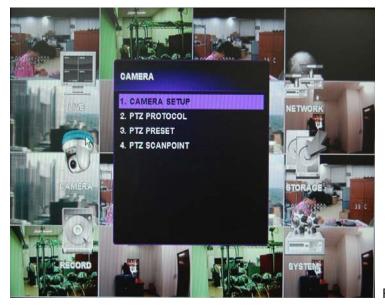


Figure 4-11

4.2.1 CAMERA SETUP

It is the menu to set up the environment about the CAMERA NAME, HIDDEN CAMERA and AUDIO mapping per video channel.

TITLE	SHOW	AUDIO
CAM01	ON	CH-01
CAM02	ON	CH-02
CAM03	ON	СН-03
CAM04	ON	CH-04
CAM05	ON	СН-05
CAM06	ON	СН-06
CAM07	ON	СН-07
CAM08	ON	CH-08

Figure 4-12

The table is the description of camera setup the same as Figure 4-12.

MENU	Value	Description
		Its names for cameras in the blank box and preview name
TITLE	TEXT BOX	position.
SHOW	ON/OFF	It selects camera video to display or not.
		Select connected audio channel.
AUDIO	CH-01	(Entry model DVR supports one channel audio only.)
		(Standard model DVR supports up-to 16 th channels audio.)
		It selects the area of video channel.
		The initial screen displayed from ch1 to ch8 in video channels.
1~8 AND 9~16	Select	And if press the 9~16 icon, the second screen is displayed from
		ch9 to ch16 in video channel.

4.2.1.1 TEXT INPUT

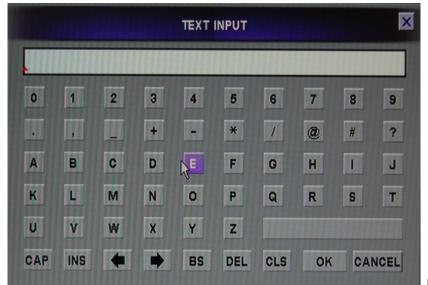


Figure 4-13

You can often see the text input box of Figure 4-13.

It is used to the registration of camera name, user password, the IP Address and the others in DVR system.

Now, you can see the descriptions of text input box. The table is the description of the Figure 4-13.

КЕҮ	Description
NUMERICS	It is the "numeric" icon. Please press the numeric icon then it makes fill the selected numeric.
САР	It is the icon which is selected a capital letter or a small letter of English. If press the cap key on the capital letter, It is going to change the small letter.
INS	It is the "Insert" key for add a specific character(s) between other characters.
ARROW KEY	It is the "Move" key for cursor position on the text box.
Back Space	It is the "Delete" key for delete left-side character from cursor position.
DEL	It is the "Delete" key for delete right-side character from cursor position.
CLS	It is the "Clear" key for clear text-box

4.2.2 PTZ PROTOCOL

It selects various protocols, such as PAN, TILT, ZOOM, and Focus, for each vendor of the camera. The DVR supports the interface protocol of RS-485 through the sensor terminal board that is connected to the main board.

•		45.04				
	CAN	MERA – PTZ PR	ROTOCOL			o Recorder
	СН	ID	PROTO	COL	BAUD	
		000	PELCO_D		4800	
		000	PELCO_D		4800	
		000	PELCO_D		4800	
		000	PELCO_D		4800	
		000	PELCO_D		4800	
		000	PELCO_D		4800	
		000	PELCO_D		4800	
		000	PELCO_D		4800	
1-	0	9-16			OK	
	0	3-16			OK	CANCEL

The PTZ protocol can be selected for each camera. To select the expected camera with the scroll keys and move to the PTZF item (Figure 4-14). Then, push "OK" button to display the name of each protocol. It can assign the PTZF ID from 1 to 255 and can be connected through the RS-485 terminal of the system.

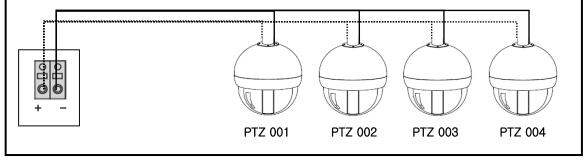


Figure 4-15

Figure 4-15 is an example to connect the PTZF CAMERA to the system.

4.2.3 PTZ PRESET

CAMERA	1			PAGE	1		
NAME				NAME	1	R	
PTZ01	SET	CLE	9	PTZ09	2	CLE	
PTZ02	SET	CLE	10	PTZ10	4	CLE	
P TZ03	SET	CLE	11	PTZ11	SET	CLE	
PTZ04	SET	CLE	12	PTZ12	SET	CLE	
PTZ05	SET	CLE	13	PTZ13	SET	CLE	
PTZ06	SET	CLE	14	PTZ14	SET	CLE	
P TZ07	SET	CLE	15	PTZ15	SET	CLE	
P TZ08	SET	CLE	16	P TZ1 6	SET	CLE	
CLEAR ALL					ок	CANCEL	

It assigned for each camera's preset, click **SEI** icon for select of specific area as see PTZ windows Figure 4-17. Use Up / Down / Left / Right buttons and zoom In / Out buttons for arrange preset position as Figure 4-17. After finish ficantian icon image changed to **PTZBI** icon as Figure 4-16. If you want to disable arranged preset section, click **CLE** icon image. For delete all presets click **CLEAR ALL** icon. Present section is 4 pages of each camera

For delete all presets, click CLEAR ALL icon. Present section is 4 pages of each camera,

each page's section could be have 16 preset regions. That means, each one channel has 64 presets.



4.2.4 PTZ SCANPOINT

CAMERA - PTZ SCANPOINT Digital Video Recorder
CAMERA
PRESET SEC # PRESE
1 OFF 03 9 OFF 3
2 OFF 03 10 OFF 4
3 OFF 03 11 OFF 03
4 OFF 03 12 OFF 03
5 OFF 🔽 03 13 OFF 🔽 03
6 OFF 🔽 03 14 OFF 🔽 03
7 OFF 🔽 03 15 OFF 🔽 03
8 OFF 🔽 03 16 OFF 🔽 03
CLEAR ALL OK CANCEL

It is the function to group each preset position. Therefore the camera moves to each preset position automatically. Figure 4-18 is the screen of the scan point.

Each preset range has time difference as assigned interval time.

It assigned PTZ preset number as you set 4.2.3 PTZ PRESET of preset number as Figure 4-18. Move cursor to preset number which you want to assign, click "OK" button. Then move cursor specific preset number by up/down button. Assigned range of preset scan points are list 1 to 4.

4.3. RECORD

It is for the record setup of the DVR system.



Figure 4-19 is for the record Menu.

REC PROPERTY	-It sets up the image store resolution of the entire channel
KLC FROFERTI	
	in 360x240, 720x240, and 720x480.(NTSC)
	-It selects the Store Frame Rate for each channel in 0, 1, 2, 4, 8, 15, 30.(NTSC)
	-It selects the recording quality for each channel.
	You can set to the BEST / HIGH / NORMAL / BASIC.
SCHEDULE	It assigns the image recording by Day and Time.
MOTION DETECTION	It sets up the field on the image motion, such as motion sensitivity and motion field.
SENSOR DETECTION	It sets up the sensor Interlock on the image store, such as entire set-up and individual
	set-up.
VLOSS	It set up the alarm to ring when video-loss occurs in a channel.
E-MAIL	Sending E-mail function for various events happenings.
E-MAIL SCHEDULE	Set-up for Sending E-mail Schedule
ALARM CONTROL	It sets up the field on the time of pre-recording and post-recording, buzzer On/ Off, the
	time of alarm operation time.
ALARM SCHEDULE	Set-up for Alarm Schedule
OPTION	It sets up for Continuous Recording On/Off and Water-mark On/Off.

4.3.1 REC PROPERTY

СН	RESOLUTION	EVENT		NOR	MAL	
	360x240	BEST	30 🔽	BEST	30 🔽	
	360x240 🔽	BEST	30 🔽	BASIC	30 🔽	
	360x240 🔽	BEST	30 🔽	NORMAL	30 🔽	
	360x240	BEST	30 🔽	HIGH	30 🔽	
	360x240 🔽	BEST	30 🔽		30 🔽	
	360x240	BEST	30 🔽	BEST	30 🔽	
	360x240 🔽	BEST	30 🔽	BEST	30 🗸	
	360x240 🔽	BEST	30 🔽	BEST	30 🔽	
ALL	360x240 💌	NORMAL	30 🔽	NORMAL	30 🔽	

It selects recording mode for resolution, quality and frame rate. You can see 1 to 8ch's status when you choice 1-8 button as below the screen and 9 to 16ch's status when you choice 9-16 button.

After finish set up, you must press "OK" button then saved. If you press "Cancel" button, the values are not saved and exit.

The chart below is for RECORD PROPERTY of Figure 4-20

DEGOLUTION	It can be set up in 3	360X240, 720X240, an	d 720X480. (NTSC)							
RESOLUTION	Move the cursor to REC RESOLUTION and press OK button.									
	Use this menu to specify the record quality & Frame rate for Event-situation.									
EVENT	(Motion/Sensor/M	anual recording)								
	IMAGE QUALITY can be reduced from BEST > HIGH > NORMAL > BASIC.									
NORMAL	Use this menu to	specify the record q	uality & Frame rate	for Normal-situation						
	It sets up the rate on the saved frame. This feature changes the rate into 1/2 Frame									
	as the Setup Values on the standard of Real-Time.									
	The standard setup values are 0, 1, 2, 4, 8.for 120frame.									
	RESOLUTION	RATE Range								
FRAMERATE	RESOLUTION	4 CH	8 CH	16 CH						
FRAMERATE	360X240	0,1,2,4,8,15,30	0,1,2,4,8,15,30	0,1,2,4,8,15,30						
	720X240	0,1,2,4,8,15,30	0,1,2,4,8,15,30	0,1,2,4,8,15						
	720X480	0,1,2,4,8,15,30	0,1,2,4,8,15	0,1,2,4,8						
	It is available to adj	ust the rate of each ch	annel within the enti	re frame rate.						
	So, it can be divided	I.								

4.3.2 SCHEDULE

The SCHEDULE RECORD assigns the image store of the camera by each time and helps to utilize the store time (Figure 4-21).

ALL	0					5					10					15					20			
SUN	C	C	C	C	C	С	C	C	С	C	С	С	С	С	С	C	C	C	C	c	C	С	C	c
MON	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TUE	1	1	I	I	1	I	I	I	I	I	1	1	I	1	1	1	1	1	1	1	1	1	1	1
WED																								
THU	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
FRI	1	1	1	I	1	1	I	1	1	I	1	1	1	1	1	1	1	1	1	I	1	T	1	I
SAT	С	С	С	С	С	С	C	C	C	C	С	C	C	С	С	С	C	C	C	С	С	С	С	C
					R											0:0			ous	E:I		nt I	l:(C∙	(E)

Figure 4-21

For this setup, place the cursor on the wanted channel with the scroll keys and press the Enter button. If you press Enter button at once, it is sets up "C". This is Continuous Recording. If you press Enter button once more, it is set up "E" This is Event Recording. There is motion record and sensor record in event record.

If you press Enter button once more, it is set up "I". This is Continuous and Event Recording.

It can set up the schedule area per channel by select the channel box in under menu.

It would be easy to Schedule set-up if you click Date or Time button.

If you need to set up the all camera, choose "ALL" the channel box.

Then you must press the ok button. If not press the OK button, the set-up would be canceled.

4.3.3 MOTION DETECTION

It is set-up menu for the image motion, such as motion sensitivity and motion field.

And It sets up the alarm out channel each video input channel.

If you use Motion record, you have to select "E" in the each desired Blank of schedule Menu.

RECO	RD - MOTION DETEC	TION	
сн	MOTION-AREA	SENSITIVITY	ALARM-OUT
	OFF	0 🔻	NONE
	OFF	0 🔻	NONE
	OFF	0	PORT 1 PORT 2
	OFF 🗾	0 👻	PORT 3
	OFF 🗾	0 🔻	PORT 4 MULTI
	OFF	0 🔽	NONE
	OFF	0 👻	NONE
	OFF	0 🔽	NONE
1000 A.S.			
1-8	9-16		OK CANCEL

Figure 4-22

The chart below is for MOTION DETECTION of Figure 4-22

MOTION AREA	It is set-up menu for the image motion, such as ALL, PART, OFF motion field.						
	It sets up the sensibility, place the cursor on the field number of the						
	sensitivity and press the number from 0 to 9. The sensitivity of 9 is the						
SENSITIVITY	sensitivity.						
	The sensitivity of motion in "9" sensitivity is same to the continuous record.						
	And the sensitivity of motion in "0" sensitivity is same to no record.						
	It sets up the channel of alarm device. There is the single unit channel and						
ALARM OUT	multi unit channel.						

4.3.3.1 MOTION AREA

The Motion Area is shown in Figure 4-23, when the MOTION AREA on the screen of Figure 4-22 is selected. At the MENU, If it sets up the ALL and PART, The sensitivity organized for the 5 label basically. Then you can choose the sensibility label from the level 0 to 9. To set up the motion area, place the cursor on the field number of the motion area, please press "OK" button, then it sets up the ALL and PART. If it sets up to OFF label of the motion area, the motion recording would be not working.

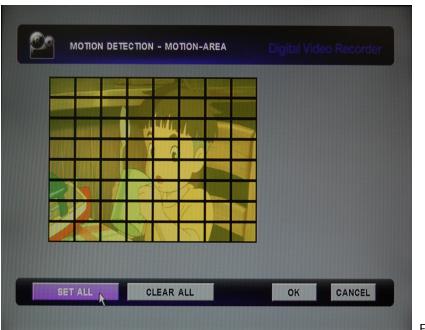


Figure 4-23

The entire image of the channel is set up as the motion detection field, when the ALL is selected. The motion detection field can be selected like Figure 4-23, when the PART is set up.

For this setup, place the box on the wanted block area of the image and press the OK button to operate the motion detection on the wanted block. The part motion detection field can be selected like Figure 4-24, Figure 4-25.



Figure 4-24

Figure 4-25

If you press CLEAR ALL button, the motion detection area would be cleared and the value of motion area is changed OFF. The status of CLEAR ALL is the status of no record for motion detection.

The motion field has 8 blocks on length and 8 blocks on height like Figure 4-25 and total 64 blocks can be selected to operate this feature.

4.3.3.2 SENSITIVITY

The sensitivity label is from 0 to 9. The sensitivity of 0 - it means that the area of motion detection is not working. And the sensitivity of 9 - it means that the all area of motion detection is working. Namely the motion area of 9 is ALL .The label of sensitivity is high sensitivity as high as the number is better than 0 label.

4.3.3.3 ALARM OUT

It sets up the channel of alarm device. There is the single unit channel and multi unit channel. Place the cursor on the field number of alarm out and press the alarm channel number. You can see the setup window of the Figure 4-22.

4.3.4 SENSOR DETECTION

As Figure 4-26, it consists of Recording channel, Sensor type, Alarm out port by sensor channel for systematic operation.

If you use Sensor record, you have to select "E" in the each desired Blank of schedule Menu.

4.3.4.1 THE ASSIGNED RECORDING CHANNEL

It assigned single channel and multi channel.

Regarding single channel, select a channel (camera) to record data in "Record" menu as Figure 4-26.

1 OFF N	0	NONE
2 OFF		NONE
3 OFF M		PORT 1 PORT 2
4 OFF M		PORT 3
5 OFF M	0	PORT 4 MULTI
6 OFF M		NONE
7 OFF	10 🔽	NONE
8 OFF	10	NONE

Figure 4-26

Regarding multi channels, select some channels (cameras) to record data in "Record" menu as Figure 4-27. Also you can choose ALL or expected channels.

	SELECT	CAMERA	×	
M ALL				
СН1	CH2	🗹 СНЗ	🗖 СН4	
🗹 СН5	🗖 СН6	🗹 СН7	СН8	
🗹 СНЭ	CH10	CH11	CH12	
CH13	🗹 CH14	CH15	CH16	
	ок	CANCEL]	
			OK	CANCEL

4.3.4.2 SENSOR TYPE

This sensor device has two types of NC (NORMAL CLOSE) and NO (NORMAL OPEN). Users should select NC or NO type on DVR system to operate the exterior input sensor for specific purpose. To assign NC/NO, click "OK" button on the type select box as Figure 4-26 then choose sensor type.

4.3.4.3 ALARM OUT

It assigned alarm out to link with sensor. You can see the setup window of the Figure 4-26.

4.3.5 VLOSS

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

It is possible to set-up to various channels as Figure 4-28.

RECORD	- VLOSS			
	ALARM-OUT	сн	ALARM-OUT	
	PORT 1		NONE	
	PORT 1	10	NONE	
	PORT 1	11	PORT 1	
	NONE	12	NONE	
	NONE	13	NONE	
	NONE	14	NONE	
	NONE		NONE	
	NONE		NONE	
			OK CANCE	EL

4.3.6 E-MAIL

When any event happens, it will be notified to the registered email address by E-mail.

RECORD - E-MA	NIL .		
EVENT E-MAIL	ALL TIME		
EVENT TYPE		POWER ON	
	SENSOR	HDD ERROR	
	VLOSS		R.
DVR-ID			
E-MAIL ADDRESS 1			
E-MAIL ADDRESS 2			
E-MAIL ADDRESS 3			
		ОК	CANCEL

Event E-mail	Select "ALL TIME" or "SCHEDULE" to use Email notification.
Event type	Select "Event type" to notify by e-mail.
SENDER ID	Input DVR Name or ID.
E-mail address	Input your email address to receive event information from DVR.

Ex) E-mail 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

4.3.7 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.

ALL	0					5					10					15				20			
SUN	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	0	0	0	0	0
MON	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	0	0	0	0	0
TUE																							
WED	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	0	0	0	0	0
THU							0					0											
FRI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
SAT									0					0									
									25														

Figure 4-30

4.3.8 ALARM CONTROL

It assigned pre recording time, post recording time, buzzer On/Off, assigned device action.

RECORD - ALARM CONTROL Digital Video Recorder
PRE-REC TIME 04 SEC (0-30)
POST-REC TIME 010 SEC (0-120)
BUZZER ON
OUT TIME 005 SEC (0-120)
EVENT POPUP OFF
POPUP OUT NORMAL
POPUP SEQUENCE TIME 03 SEC (1-60)
OK CANCEL

The belong chart show ALARM CONTROL function as Figure 4-31

PRE REC TIME	For the recording mode by the motion or sensor detection, it sets up the pre-record time and post-record time to start it from the time of the motion or sensor detection (Figure 4-31). It will be save recording data from the motion or sensor detection to the selected range of pre-recording time.
POST REC TIME	For the recording mode by the motion or sensor detection, it sets up the pre-record time and post-record time to start it from the time of the motion or sensor detection (Figure 4-31). It will be save recording data from the motion or sensor detection to the selected range of pre-recording time.
BUZZER	It's the selection of buzzer in main board when alarm is on.
OUT TIME	If buzzer is ON, it makes select active time of buzzer or external alarm device. Alarm device will be active as you selected on time.
EVENT POPUP	When event happens, the channel will pop up if ON is selected.
POPUP SEQUENCE TIME	Switching time to display popup channels.

4.3.9 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.

-	0					6					10				No	15					20					
SUN				0						0					Ľ			0								
ION	0	0	0	0	0		0	0	0	0		0	0	0		0	0	0	0	0	0	0	0	0		
TUE			11	0						0								0	-		1					
NED	0	0	0	0	0	11	0	0	0	0	1	0	0	0		0	0	0	0	0	0	0	0	0		
THU	0	0	0	0	0		0	0	0	0	11	0	0	0		0	0	0	0	0	0	0	0	0		
FRI				0						0								0						-		
SAT				0						0								0								

4.3.10 **OPTION**

The menu is the other functions of recoding which consist of 'CONTINUE REC' for continuous record ON/ OFF and 'Water Mark' for prohibit tinseled of recording data.

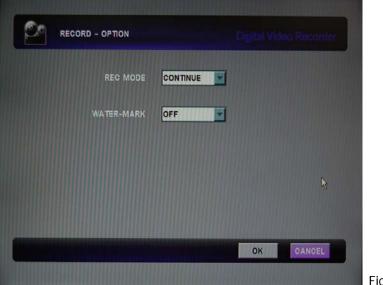
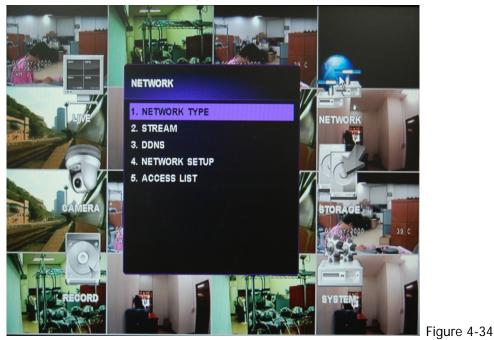


Figure 4-33

REC MODE	Schedule – System records according to recording schedule.
(Recording Mode)	Continue – System continue recording all day long.
(Recording Mode)	Event – Event recording will work regardless of schedule mode.
WATER MARK	If you select ON in water-mark window, the recording data will include water-
WATER WARK	mark.

4.4. NETWORK

It is for the NETWORK setup of the DVR system.



4.4.1 NETWORK TYPE

It sets up the network type such as STATIC, DYNAMIC, PPPOE.

ТҮРЕ	STATIC	
IP ADDRESS	192.168.000.005	▶
GATEWAY	192.168.000.001	
NETMASK	255.255.255.000	
MAC ADDRESS	00:0E:B5:07:00:4D	
PPPOE ID		
PASSWORD		

Figure 4-35

4.4.1.1 STATIC

As the network environment that uses the static IP, it can be operated after inputting the information of IP ADDRESS, SUBNET MASK, and GATEWAY. Figure 4-35 shows the set-up example for the static IP.

Users can input set points with the number buttons on the remote controller, after placing a cursor on each field. The set-up of network is completed by pushing MENU button when the input of set points is finished.

4.4.1.2 DYNAMIC

When the DYNAMIC is selected, users automatically get the IP ADDRESS through the connected network and the indication of PLEASE WAIT is shown during the acquiring the IP ADDRESS.

4.4.1.3 ADSL(PPPOE)

It is the network that uses the Internet service from Internet service providers (ISP). Users can connect the network by typing in the ID and password that are authenticated to users by ISP.

Place the cursor on the blank and push the ENTER button to see the character arrangement. And then, select the characters to type in the ID and password.

4.4.2 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.

CH RESOLUTION NORMAL 1 360x240 BEST 8 2 360x240 BEST 8 • 3 360x240 BEST 8 • 4 360x240 BEST 8 • 5 360x240 BEST 8 • 6 360x240 BEST 8 • 7 360x240 BEST 8 • 8 360x240 BEST 8 • 6 360x240 BEST 8 • 8 360x240 BEST 8 • ALL 360x240 NORMAL 8 •		DUAL STREA				
2 360x240 Y BEST 8 Y 3 360x240 Y BEST 8 Y 4 360x240 Y BEST 8 Y 5 360x240 Y BEST 8 Y 6 360x240 Y BEST 8 Y 7 360x240 Y BEST 8 Y 8 360x240 Y BEST 8 Y	СН	RESOLUTION	NOR	MAL		
2 360x240 BEST 8 3 360x240 BEST 8 4 360x240 BEST 8 5 360x240 BEST 8 6 360x240 BEST 8 7 360x240 BEST 8 8 360x240 BEST 8 9 360x240 BEST 8 9 360x240 BEST 8 9 360x240 BEST 8		360x240 🔽	BEST	8	-	
4 360x240 BEST 8 5 360x240 BEST 8 6 360x240 BEST 8 7 360x240 BEST 8 8 360x240 BEST 8		360x240 🔽	BEST	8	-	Ч
5 360x240 BEST 8 6 360x240 BEST 8 7 360x240 BEST 8 8 360x240 BEST 8	3	360x240 🔽	BEST	8	-	
6 360x240 BEST 8 7 360x240 BEST 8 8 360x240 BEST 8	4	360x240 🔽	BEST	8	-	
7 360x240 Y BEST 8 X 3 360x240 Y BEST 8 X	5	360x240 🔽	BEST	8	-	
8 360x240 BEST 8 8		360x240 🔽	BEST	8	-	
		360x240 🔽	BEST	8	-	
ALL 360x240 S NORMAL S 8	8	360x240 🔽	BEST	8	-	
	ALL	360x240 🔽	NORMAL	8	-	

 RESOLUTION
 360×240, 720×240, 720×480

 NORMAL
 Basic, Normal, High, Best

 FRAME
 1, 2, 4, 8, 15, 30

4.4.3 DDNS

DDNS supports the Dynamic IP users to connect automatically their network regardless of the change of the IP ADDRESS, when data is registered in DDNS. It is managed by the DDNS server.

But, the users should consult with Manufacturer before their operation, if they want to build the network on the special network or for their own special management. There are 4 kinds of DDNS server as Figure 4-37. Among them which 4 kinds of DDNS server, OFF means "Disable", the others are "Enable". IPUPDATER.COM and DYNDNS.ORG are world wide and free DDNS servers. After you register these sites, input each ID/ PW then click connection button. Finally, DDSN set-up is done, then the window display DDNS connection status as below. If you choose NICEDDNS, you can see specific DDNS URL. If you choose other names, you can modify DDNS URL. For assign, click "OK" button and input URL on the text box of window.



NETWORK - DDNS		Digital Video	Recorder
SERVER SERVER-URL	OFF]	
USER ID PASSWORD GROUP ID HOSTNAME	▶ 		
STATUS	DDNS OFF		
TEST		ок	CANCEL

Figure 4-37

4.4.4 NETWORK SETUP

It sets up client port, web port and band width.

NETWORK - NETWORK	SETUP		eo Recorder
CLIENT PORT	7620-7624		
WEB-PORT	0080		
BANDWDTH	UNLIMITED		
		ок	RANCEL
			4

4.4.4.1 CLIENT PORT

It is for the assignment of communication port to communicate with the DVR system through RMS (Remote Management Software). It is recommended to avoid system port and user port that is generally used a lot. Figure 4-38 shows the network port of the default set-up. This port is good to use. Each port is required for RMS operation and should be assigned.

4.4.4.2 WEB PORT

It is used with WEB MONITORING SERVICE. Default port number is "80".

4.4.4.3 BANDWIDTH

This chapter is for configuring Network Bandwidth connected to DVR and controlling the transferring Video and Audio relate to Network Bandwidth. As a result of this option, it can save Network bandwidth between Remote client connection and DVR. It can be set up to UNLIMITED, 64KBPS, 128KBPS, 256KBPS, 512KBPS, 1MBPS, 2MBPS, 4MBPS, 10MBPS like Figure 4-38. The "UNLIMITED" means that no BANDWIDTH selection for specific configuration. Regarding Network Client, Users feel that low throughput(64KBPS) is transferring data slowly, and high throughput(10MBPS) is transferring data more faster.

4.4.5 ACCESS LIST

Registered IP address is allowed to access DVR.

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

ient 1	000.000.000.000	Client 6	000.000.000.000
	000.000.000.000	Client 7	000.000.000.000
ient 3	000.000.000.000	Client 8	000.000.000.000
ient 4	000.000.000.000	Client 9	000.000.000.000
	000.000.000.000	Client 10	000.000.000.000

4.5. SETUP – STORAGE

It sets up the STORAGE of the DVR system.



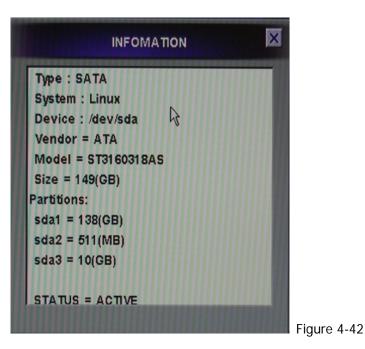
Figure 4-40

4.5.1 FORMAT

It sets up each SATA port device, information and formatting hard disk drive.

This is SATA port type as below the list.

STORAG	E - FORMAT	Digital Video Recorder
HDD1	149(GB)(ST3160318AS)	TODUCT
		FORMAT
HDD2	NONE	
		OK CANCEL



4.5.2 HDD S.M.A.R.T

This window shows the temperature of HDD.

	HDD1	47 C] HDD2		
SMART	OFF	TEMPERATU	RE THRESHOLD	55	c
		INS R	PECTION CYCLE DAILY TIME		minutes 🔽 Hour(0-23)

Figure 4-43

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

TEMPERATURE The temperature of HDD exceeds the desired value you input, the			
THRESHOLD	happen and the below MENU appears		
INSPECTION CYCLE How many often the system should check the Temperature of HDD.			
	This inspection cycle as daily means what time the system should check the		
DAILY TIME	temperature of HDD.		

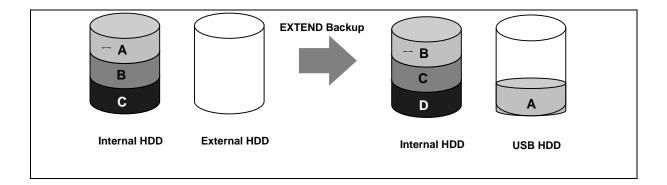
4.5.3 AUTO-BACKUP – Standard model only

There are two values you can select "EXTEND" or "MIRROR" function.

STORAGE -	АUTO-ВАСКИР		eo Recorder
TYPE	EXTEND		
USB-1	/dev/sdb	SHOW	
USB-2	/dev/sdc	SHOW	
	NONE		
ORMAT		ок	CANCEL

	When you select "Extend" in Auto backup, if internal HDD is full, Internal HDD
EXTEND	start to overwrite data, the elder data removed from internal HDD will be stored
	in external HDD.
	The data recorded in Internal HDD also simultaneously recorded in External HDD.
Mirror	In that case, if you proceed to format HDD, External HDD is formatted as FAT32.
	And the backup viewer included in DVR is copied to external HDD.

* NOTE : After setting auto backup, when you change the port of external HDD(USB port position), you should set auto backup again.

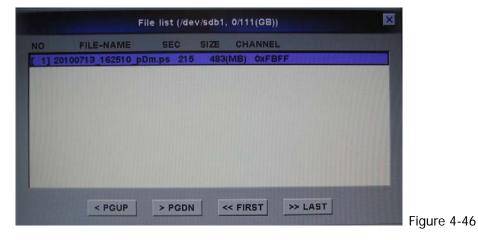


	SELECT DRIVER	×	SELECT DRIVER	E
NONE	System: FAT16	NONE	System: HPFS/NTFS	
dev/sdc	Device: /dev/sdc	/dev/sdc	Device: /dev/sdb	
dev/sdb	Size = O(GB)	/dev/sdb	Size = 111(GB)	
	Vendor= Ut163		Vendor= SAMSUNG	
	Model = USB2FlashStorage		Model = SP1223N	
	Partitions:		Partitions:	
	sdc1 = 0(GB)		sdb1 = 111(GB)	
			BE REALESSEE STATES IN THE PROPERTY OF THE PRO	

<USB MEMORY>



Figure 4-45



<Backup Data List>

4.5.4 OPTION

It sets up the storage option of the DVR system.

9	STORAGE - OPTIONS		Digital Vide	o Recorder
	OVERWRITE	ON		
	AUTO-DELETE	00 DAYS (0-99)		
			ок	CANCEL

Figure 4-47

This is the explanation of STORAGE OPTION in Figure 4-47.

OVERWRITE	Overwrite existing data when hard disk drive was full-filled.			
	Delete the recorded data as per set up time. The assigned time is per day.			
	*Attention : please delete the recording data after do you concern the			
AUTO DELETE	recording data. If do you not concern, the deleted recording data never			
	recover.			

4.6. SETUP – SYSTEM

It sets up the SYSTEM of the DVR system.



Figure 4-48

4.6.1 TIME

It is sets up the TIME for DVR system.

SYSTEM - TIME	Digital Video Recorder
CURRENT TIME DATE FORMAT TIME FORMAT TIME ZONE TIME SYNC SERVER IP	2010/06/22 16:35:30 YY/MM/DD 24HOUR +09:00 Seoul OFF
CHANGE TIME	OK CLAICEL

Figure 4-49

It supports current time, date format, time format, world-wide time zone, Day Light Saving ON/OFF and Time sync as Figure 4-49.

4.6.1.1 CURRENT TIME

It displays the current time of DVR system for checking DVR time and actual time. If DVR time is wrong, please modify date format, time format and time zone by manual, and then click CHANGE TIME icon as Figure 4-50. For more details, refer to 4.6.2.6.

4.6.1.2 DATE FORMAT

It selects the time format of DVR system. There are 3 types of the time display - YY/MM/DD, DD/MM/YY, MM/DD/YY. Push the arrow keys on the front panel or remote controller to choose specific format, and then click OK button.

4.6.1.3 TIME FORMAT

It sets up time format between 12/ 24 format. Push Enter key on the menu, and then you can select 24 or AM/PM. If you choose 24 HOUR, the time display is 15:00 at PM 3 o'clock, and if you choose AM/PM, the time display is PM 3.

4.6.1.4 TIME ZONE

It assigns worldwide time zone on the DVR to have Time Sync as Figure 4-50. For Time Sync, move Cursor key on the Time Zone, then push OK button..

SYSTEM - TIME	
CURRENT TIME	2010/06/25 15:10:13
DATE FORMAT	YY/MM/DD
TIME FORMAT	24HOUR
TIME ZONE	+09:00 Seoul
TIME SYNC	+09:00 Seoul
SERVER IP	-11:00 Midway Island, Samoa
	-10:00 Hawaii -09:00 Alaska
CHANGE TIME	OK CANCEL

Figure 4-50

4.6.1.5 TIME SYNC

	SYSTEM - TIME		Digital Vic	deo Recorder	
	CURRENT TIME	2010/06/25 15:11:41			
	DATE FORMAT	YY/MM/DD			
	TIME FORMAT	24HOUR			
	TIME ZONE	+09:00 Seoul			
	TIME SYNC	SNTP			
	SERVER IP	time.windows.com		TEST	
			ß		
	HANGE TIME]	ОК	CANCEL	
					Figure 4-51
	This function	n is for synchroni	zing the tir	me of DVR pe	riodically with that of the
FIME SYNC	connected s	erver by every ho	our		

4.6.1.6 CHANGE TIME

SERVER IP

It assigns time as Fig. 4.6.2.1. If you need to change time on the DVR, select "CHANGE TIME" icon and then select OK button. It shows ENTER TIME on the window box. And then input date, time by using numeric key on Remote controller.

Enter IP address of time server. E.g. time.windows.com.

CURRENT TIME	2010/06/25 15:13:32	
DATE FORM		
	2010/06/25 15:13:27 1 2 3 4 5 6 7 8 9 0 OK CANCEL	
ß		

Figure 4-52

4.6.2 UPDATE

It sets up the firmware update for DVR system.

SYSTEM - UPDATE		
ENC. FIRMWARE		
DEC. FIRMWARE		
BOOTLOADER	cs1648.2.0	
KERNEL	2.6.15 cs3	
APP. VERSION	v3_6_2-100611	
	5.14.0	
DB	2.12.0	
RECORDER	1.6.3	
PLAYER	1.7.12	
NETWORK	1.11.6	
UPGRADE		OK CANCEL

Figure 4-53

This is firmware update and shows firmware status as Figure 4-53. Before go this process, you have to check USB icon on the live screen. If you cannot find USB icon there, check your USB and DVR system. There are two ways to upgrade. One is through USB and through Network. If your network status is not stable, USB upgrade is more recommended, so USB as it could be halt during network update due to increased network traffic.

ENC. FIRMWAR	E	
DEC. FIRMWAR	E	
BOOTLOADE	R cs1648.2.0	
KERNE	L 2.6.15 cs3	
APP. VERSIO	N v3_6_2-100611	
	JI 5.14.0	
UPGRADE 🛛 🛛	B 2.12.0	
USB UPGRADE	R 1.6.3	
NETWORK UPGRADE	R 1.7.12	
રા	K 1.11.6	

Figure 4-54

This is to choose update method as Figure 4-54. You click UPDATE icon and then choose one of them by using scroll key. And click "OK" icon and then it starts to update the firmware. It takes 2-3 minutes or more and you should be patient and wait until the update process is over.

ENC. FIRMWARE					
DEC. FIRMWARE					
Marine H	USB UPG	RADE	×		
Device	/dev/sdb				
File List	flash-cs16	6-eto-v3_6_2-100	611.		
	ок	CANCEL		R	
PLAYER	1.7.12				
NETWORK	1.11.6				

This is the process of USB update as Figure 4-55. DEVICE is automatically recognized name and path of DVR system. You can choose any file by using scroll key. Then, click OK button. Normally it takes about 2~3 minutes for update, but you have to wait until all process is over. Do not stop or turn off DVR during process.

ENC. FIRMWARE DEC. FIRMWARE				
N	ETWORK U	IPGRADE	×	ī
SERVER IP	endvr-up	date.com		
FILE NAME		N		
_	ОК	CANCEL		
PLAYER	1.7.12			-
NETWORK	1.11.6			

Figure 4-56

This is for network update as Figure 4-56. The assigned server should be used for network update.

Network update is less recommended than USB update. "endvr-update.com" is for network update server URL as a factory default. But, file name could be changed without notice. So, check it with your vendor. Network update takes more time than USB update does and processing time is variable depending on network status. And please do not stop update process or turn off DVR system during process.

		Entry model	Standard model
	4 CH	dl04-eto.tar.gz	-
FILE NAME	8 CH	dl08-eto.tar.gz	dh08-eto.tar.gz
	16 CH	dl16-eto.tar.gz	dh16-eto.tar.gz

^{*}CAUTION : As do Network Upgrade, Always Check the file name and Server IP

4.6.3 CONFIG SETUP

It saves the configuration file of DVR system and loads the saved configuration file.

SYSTEM - C	CONFIG SETUP	Digital Video Recorder
	LOAD CONFIG	J
	SAVE CONFIG]
	DEFAULT]
		OK CANCEL

Figure 4-57

SAVE CONFIG - This is to save the configuration file of DVR system setting. It is not recommended to change file name because this file could be used later for any loading. DEVICE means a specific device name and path which DVR system automatically calls. This configuration file should be saved on USB root path, and it's recommended to save on your PC not on USB for safety.

LOAD CONFIG - This is to load configuration file backed-up to the DVR system and you always keep backed-up configuration file to USB root path. If you change file name during the work, you have to change to original file name before loading. You should put on USB to front panel USB port before loading the configuration file.

4.6.4 OPTIONS

SYSTEM - OPTIONS			
SYSTEM-ID	00		
KEYBOARD	NONE		
KEY-TONE	OFF		
		OK CANCEL	

Figure 4-58

This is extra functions of DVR - System ID / Keyboard / Key Tone .

4.6.4.1 SYSTEM ID

User can assign unique ID to each DVR in order to control specific DVR using ID. It is a useful feature when user controls each DVR among them. Move cursor to System ID as Fig. 4-53 and press SEL key. Then, input the specific number of remote controller and press OK button. Now, DVR has its own code. And Remote controller has the same ID to control DVR.

[Example] You input "02" as SYSTEM ID on setup and press OK button. Then, SYSTEM ID is changed to [02] as the SYSTEM ID says on the setup menu. To use SYSTEM ID [02], you have to press "Remote Controller ID" button and "0" and "2" on Remote Controller's, too.

4.6.4.2 KEY TONE

It assigns key sound when you push any keys on Front panel or on Remote controller. Move cursor to KEY TONE and choose ON/ OFF and then, press "OK" key.

4.6.4.3 KEYBOARD CONTROL

Product support a connection with control keyboard

- (1) Connect RS-485 port of DVR and RS-485 port of keyboard
- (2) Input desire System ID in DVR setup menu

[MENU→SYSTEM→OPTIONS→SYSTEM ID]

- Provide the system ID from 00 to 99.
- Figure 1 States and the second second

Enter ID (0	0~99)

(3) Select Keyboard protocol in DVR setup menu

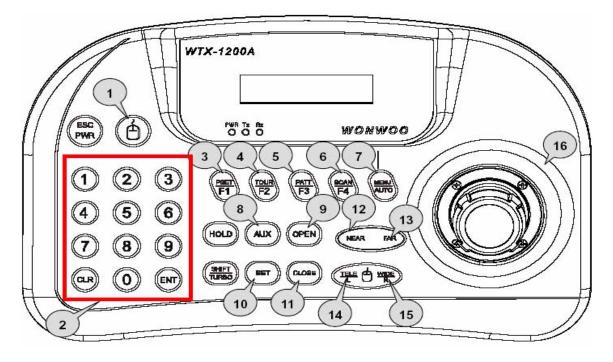
[MENU→SYSTEM→OPTIONS→KEYBOARD PROTOCOL]

KEYBOARD-PROTOCOL
NONE
WONWOO
HI-SHARP

- (4) Press mouse on/off button of keyboard
- whenever pressing mouse on/off button, keyboard changes to DVR control mode or PTZ camera control mode.
- (5) When keyboard indicates DVR mode, press DVR system ID by using number button of keyboard and press ENT button during 2~3 seconds.



(6) Then, keyboard indicates DVR ID and you can control DVR.

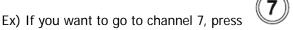


Button description of WTX-1200A for DVR operation

- 1. Mouse Icon : Change DVR control mode (DVR) or PTZ control mode (WDS)
- 2. **Red Box** : Number button
- 3. F1 : Full screen mode
- 4. F2 : 4ch screen mode
- 5. **F3** : 9ch screen mode
- 6. F4 : 16ch screen mode
- 7. MENU/AUTO : Sequence mode
- 8. AUX : Search
- 9. OPEN : short press Menu / long press Function
- 10. **SET** : REC
- 11. CLOSE : Enter
- 12. NEAR : Play / Pause
- 13. FAR : Stop
- 14. TELE : Fast rewind
- 15. WIDE : Fast forward
- 16. **JOYSTICK** : Direction ($\blacktriangleleft \blacktriangleright \blacktriangle$) Moving cursor in DVR menu.

If you change channel

Press number button and press ENT button





4.6.5 USER

ID and Password for the network are given up to 4 to avoid the system overload due to excessive connection on RMS and it intercepts the connection of unregistered ID. ID and Password that are registered on the system should be typed in to connect the RMS.

For the registration, place the cursor on each blank and push the OK button to see the character arrangement. Select the characters to type in.

Sec. Sys	TEM - USER				
USER	PASSWORD	SETUP	REC.F	NETWORK	MONITOR
ADMIN	****	V		M	V
NETUSER	****			V	
di4120	****	M	M		V
user5	****	N	M	V	V
USER3	****	Γ	Γ		
USER4	****	Γ		Γ	
			REC.F : RE	C + PLAYBACH	K + BACKUP
TIME OUT	OFF	05 (min)	ß		
				ок	CANCEL

USER	There are two unchangeable user IDs (ADMIN, NETUSER), and additionally				
	you can add four additional USERs by yourself.				
	Only passwords for ADMIN and NETUSER are set to '0000'. When you create				
PASSWORD	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				

Chapter 5. SEARCH



Figure 5-1

This menu searches the saved image data by Time, Date(Calendar), or Event replay (Figure 5-1). For secure reasons, according to select option, DVR system must have ID and password to assigned users.



5.1. SEARCH – SEARCH BY TIME

Figure 5-2

It is the menu to search the video data by Date & Time. If you select the icon of SEARCH BY TIME, You will see the Figure 5-2. Then you have to fill the date & time to find recording data.

5.2. SEARCH – SEARCH BY CALENDAR

It is the menu to search the image data by recording time. The screen (Figure 5-3) is shown up when the TIME SEARCH is selected. Place the cursor on the data that you want to search with the scroll keys and push "OK" button.

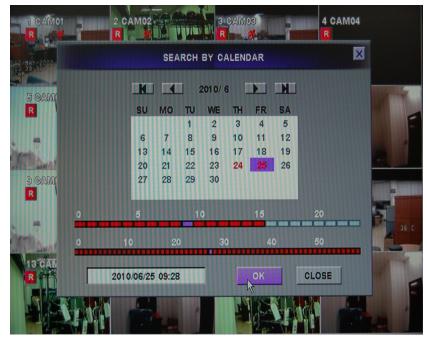


Figure 5-3

The existence of the image data is indicated and the image data is searched when the date to search is selected (Figure 5-3). The image data is indicated by colored section. Place the cursor on the colored section and push the OK button to play the saved image data. As the cursor moves, its location and time is indicated on the time bar at the bottom of the screen.

The saved image data can be searched with REW ($\triangleleft \triangleleft$) / PLAY ($\triangleright \parallel$) / STOP (\blacksquare) / FF ($\triangleright \triangleright$) (Figure 5-4). During the playing, pushing the play button pause the play of the image data.



The users can select the PLAY BUTTON (\blacktriangleright II) on remote controller. To operate these features, select the PLAY BUTTON (\triangleright II) to start the search process and push REW (\blacktriangleleft) or FF (\triangleright) during the search. The play speed is doubled when the REW (\blacktriangleleft) or FF (\triangleright) is repeatedly pushed. The REW (\blacktriangleleft) and FF (\triangleright) BUTTONS increase the speed up to 128 times.

REW (◀◀)	-It rewinds the image data to replay the passed image during the search of the image data.				
×2	-Its rewind speed goes up to 128 times faster by pushing this button repeatedly.				
×₃◀ ◀◀	-STEP REWIND feature is operated by pushing this button when the pause button is pushed				
	during the search.				
	x≥4:fast rewind(x2), x34: fast rewind (x3), 44:fast rewind, 1: step rewind				
PLAY (▶)	It replays the saved image in normal speed. It pause the play by pushing it once more.				
STOP (■)	It stops the search of the image data.				
FF (▶▶)	-It is for the search of the image data with fast speed and replays up to 128 times faster.				
▶×₂ II►	-STEP FORWARD feature is operated by pushing this button when the pause button is				
►×3	pushed during the search like REW (\blacktriangleleft).				
	▶× ² :fast forward(x2), ▶× ³ :fast forward(x3), ▶ :fast forward, II : step				
	forward				

Button and icon instruction for searching the image data

5.3. SEARCH – SEARCH BY EVENT

This feature separates the data that is recorded by EVENT from the image data to search the image. The selectable event is the event of motion, sensor and video loss. If you select the event for motion, you can see the recording data for motion per Date/Time and video channel.





In Figure 5-5, select Start/End time for search. Move cursor to START TIME by front panel key or remote controller, then input number of date/time. If you choose ALL check box, all channels are saved. If not you can choose specific channel, you can search by each Event (motion, sensor, video loss) with video and audio.

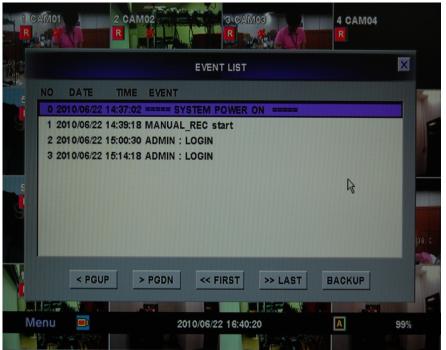


Figure 5-6

Figure 5-6 is the shown recording data by event search and are done with the file type. By moving recording file with the cursor and selecting OK button, recording data can be shown.

5.4. SEARCH – GO TO FIRST AND GO TO LAST

This function is the search for the start of recording date and last of recording data of recorded device. If you want to search start of recording data, click GOTO FIRST icon as Figure 5-1. Then recording data is play-back shortly. And if you want to search latest(previous) of recording data, click GOTO LAST icon. But you cannot see this data if you don't have any recorded data. Please take care. At First, check your recording status on your DVR system. Next, check your recording device. If there's any problem, we could recover your data.

Chapter 6. FUNCTION

It is the additional function to support Main Menu. There are the PTZ Function, SPOT, SEQUENCE, AUDIO, BACKUP and LOG VIEW for DVR system. If you need to go into the Function menu, please click the "Menu" button on status bar and then select FUNCTION menu.



6.1. PTZ

6.1.1 PTZ(Pan / Tilt / Zoom)

After you set PTZ preset and scan point as figure chapter 4.2.3. PTZ PRESET to 4.2.4 PTZ SCANPOINT, you can use these function on this menu and PTZ control bar as figure 6-1 and Figure 6-2.



You can use this menu after you set PTZ protocol as 4.2.2 PTZ protocol, and can have full screen video status. This control bar has UP/DOWN/LEFT/RIGHT and Zoom in/Zoom out control function.

6.1.2 PTZ(ADVENCE PTZ)



This PTZ control bar for PTZ preset and PTZ SCANPOINT as chapter 4.2.3 PTZ Preset to 4.2.4 PTZ scan point includes Focus control and Auto Focusing (If camera supports).

6.1.2.1 FOCUS

Click AUTO icon for auto focusing function. If you want to control by manual control, move the cursor to focus. And press the icon "+" and "-" .

6.1.2.2 IRIS

There are manual control and auto control (if camera supports). Click AUTO icon, if video is darker or brighter than normal. If you have the same problems, click "+", "-" icon to set video status.

6.1.2.3 SPEED

It assigns speed value on the Control bar as Figure chapter 4.2.1 PTZ PROTOCOL setup. If PELCO-D PTZ Camera is ID 05, Baud 9600 and you need to choose speed, choose ID no. 05 by remote controller on the cursor as Chapter 4.2.1 and push ENTER key. Then choose PELCO-D on the PTZ protocol and Baud is 9600 after choosing speed by + or – as Figure 6-3 PTZ ADVANCE control bar.

6.1.2.4 SCAN



Figure 6-4

Click SCAN icon as Figure 6-3 PTZ ADVANCE on the Control bar and the display scrolls as assigned SCANPOINT number of chapter 4.2.4 PTZ SCANPOINT. If you choose a specific number of them, the camera moves to preset region automatically. For more detail, please see chapter 4.2.3 and 4.2.4.

6.1.2.5 GO

It operates the function of PRESET number as you set preset number on 4.2.3 PTZ PRESET. To operate it, click GO icon on the PTZ advance control bar. If you don't set this function on 4.2.3 PRESET, there is no preset number on GO control setup bar as figure 6-5.



Figure 6-5

6.1.2.6 OSD MENU

When you click "OSD Menu" button, will go into PTZ own OSD Menu. Then you can set-up PTZ OSD Menu from DVR remotely.

6.2. SPOT – Standard model only



Figure 6-6

It supports single Spot and quad Spot through SPOT output connector. Please refer to the content of [[Chapter 4.1.5 / 4.1.6]] Page 25.

6.3. SEQUENCE

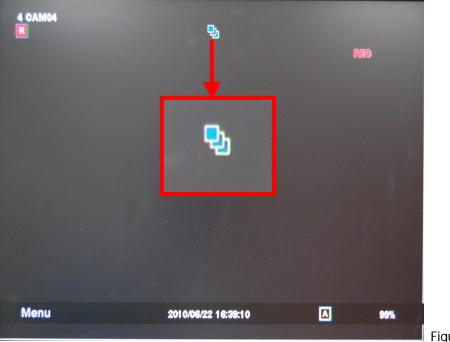


Figure 6-7

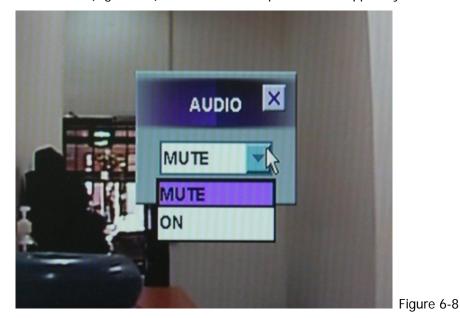
Click "sequence" button in Function menu after selecting 1 or 4 division screen from DVR.

Then you can use Sequence function.

Please refer to the content of [[Chapter 4 – Live – Sequence]] Page 20.

6.4. AUDIO

It controls the audio output on each channel. The users can select the audio output to turn on of off by choosing AUDIO ON or OFF (Figure 6-8) and the audio output can be stopped by MUTE.



6.5. BACKUP

3 CAM03 R <u>*</u>			₽ <u>j</u>				
E.		B	ACKUP			×	
	DEVICE	USB(UFD	BM T4)				
	CHANNEL	I ALL I CH1	To Avi		Four		
		 ✓ CH5 ✓ CH9 	CH6		CH4 CH8 CH12		
-	FROM	Z CH13	CH14	CH15	CH16	:	
Q	то	2010/06/22				С	
ċ		BACKUP		CLOSE		•	1
Menu 📄		2010/06	/22 16:39:53	2012/01	A	99%	-

It stores the saved image and sound data in backup device.

It is the explanation of the BACKUP set-up.

DEVICE	This section display specification and information of USB device or DVD-RW for backup.
CHANNEL	It assigns the BACKUP type and target channel. All channels are assigned when ALL is selected, if you want choose specific channel, click ALL button for disable all channels. After that click specific channel which you want to backup. If you want to choose all channels, click the check box ALL. If you select " To AVI " menu, you can save the data by AVI format. However, it supports to Back-up for a channel data only.
TIME	It assigned start to end time of backup data, click the specific table of time "FROM" and click OK button as Figure 5-2, then you can see time selection box. Push numeric button on the front panel or remote controller to input specific time.

After that process, click OK button then backup process is start.

You have to wait for image processing on system before save on media in case of backup to USB memory device.

6.6. LOG VIEW

This function confirms the overall operation LOG in the DVR system. Push the FUNCTION KEY and select the LOG VIEW at the screen of Figure 6-1.

You can choose LOG type. If you want to see all, try to click "ALL". Also if you want the specific type, you can check what you want to see. Then check FROM and TO for specific time for log search. Finally, click SEARCH button.

1) CAMOI	2 CAM02	SICAMO		CAM04	
in the second		LOG VIEW		×	
5 CAM R 9 CAM	EVENT TYPE	✓ ALL ✓ SYSTEM ✓ RECORD ✓ PROCESS	✓ HDD ✓ DB ✓ NETWORK ✓ USER LOG		
	FROM TO	2010/06/22 09:00:00 2010/06/23 08:59:59			
13°0A B Menu	BACKUP	SEARCH 2010/06/22 16:40:11	CLOSE	99%	
			Per Charles		Figure 6-

Chapter 7. OTHER FUNCTION

7.1. DIGITAL ZOOM

It's digital zoom, not optical zoom. Digital zoom has 2x and 4x, If you press Z/F button on remote controller in full screen mode, you can see Zoom screen as figure 7.1.

Also If you press direction buttons (Up/ Down/ Left/ Right), Zoom-Area window will move.

If you press Select key, Selected Zoom-Area will be displayed as full screen as figure 7.2.







7.2. PIP

PIP (Picture in Picture) displays another image in a small pop-up screen over the previous image in the FULL SCREEN. With the PIP BUTTON, the previous image is shown as CH No.1 in the FULL SCREEN and the another image is played as CH No.2 in the small pop-up screen. The sizes of the two screens are interchanged, when the PIP BUTTON is selected again.



Figure 7-3

With the scroll button $(\blacktriangleleft \blacktriangleright \blacktriangledown \blacktriangle)$ on remote controller, the small pop-up screen could be moved.

7.3. POP

POP focuses on the screen that is wanted to watch from the equal-size screens. On the POP (screen), the screen of the desired channel is displayed in the FULL screen, when the channel number is selected.



7.4. THE SETUP FOR IP ROUTER

If your network uses Dynamic IP and also uses one more network IP based on WAN IP by IP router, you have to configure IP router to use Network client program.

STEP 1] Please check your WAN IP and DNS on IP router

STEP 2] If you have many private IP on network, you have to set private IP on DVR system.

STEP 3] Normally, IP router uses 192.168.0.1 or 192.168.1.1 on the network, so we recommend 192.168.0.5 later or 192.168.1.5 later.

Example] WAN IP : 61.123.071.49 DNS : 168.136.0.1 on IP router, you need 4 IP and 1 DVR,

1. Set 192.168.0.6, 192.168.0.7, 192.168.0.8, 192.168.0.9

2. If you want to use 192.168.0.9 for DVR, set port forward that IP on your IP router. Port forward value is 7620 to 7624.

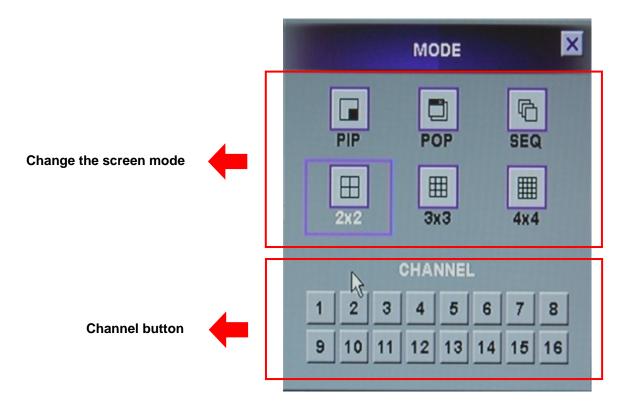
There are many IP router brands, so you have to read IP router manuals and try to sets up as reference.

7.5. MOUSE CONTROL

- System support connection with USB mouse and can be operated by USB mouse.
- For using mouse operation, Connect USB mouse to USB port of product.
- Some USB mouse cannot be compatible with product.

7.6. CHANGE SCREEN MODE

If you press right button of mouse on screen, following window will appear.



• If you double-click specific channel, screen changes full screen mode. If you want to go back to previous mode, double-click again.

• At PIP mode, if you want change channel of small window, press right button of mouse. Then, screen mode menu will appear. Click desire channel button

EnNet Client Software

Release Version : 2.3



EnNet2.5 client is the software for controlling the system through the network. Any copy or change would be prohibited by law.

1. INSTRUCTION

1.1 Network Client Program

Client program which allows Client PC to live monitoring, search, save, and restrict PTZ camera and backup the images retrieved from DVR connected of EnNet(Network Client Program).

1.2 Program Installation

- 1. Insert packaged Client Program CD in the CD-ROM.
- 2. Client Program will automatically start; if not manually double-click the icon to install.
- 3. Client Program install icon will appear, install the file or name the folder differently and install.
- **4.** Once Installation is complete, Network Client Program(EnNet) Icon will appear on the desktop, and in the Start Program List of OS.
- 5. Double click the icon to start the program.

1.3 Client System Requirements

	Least	Recommended
CPU	Intel Pentium III	Intel Pentium IV or higher
Main Memory	256 MB	512 MB
VGA Memory	64 MB	128 MB
Screen Resolution	1024x768	1024x768
Free Disk Space	10 GB or higher	20 GB or higher
OS	Win 2000 Pro, Win XP	Win 2000 Pro, Win XP, Win 7
Network	10/100 Base T	10/100 Base T
DirectX	Direct 9.0 or higher	Direct 9.0 or higher

2. MONITORING FEATURE

2.1 Starting Program

Double click Client Program icon on the window desktop to start the program.

Below image will appear for few second before Client Program appear on the main screen.



[Figure 1. Initial Starting Screen]



[Figure 2. Monitoring Main Screen]

2.2 Monitoring control button feature

FUNCTION	DESCRIPTION
LOCAL PC : [PSJ] 2008-08-16 AM 01:48:11	Indicates name and current time on Client PC(Local)
	4,6,9,13,16 Screen Divisions mode
•	Transfer to Next Channel, Full, Auto-rotation mode
SEARCH	Use the button to search data
SETUP	Use the button to go to setup mode
E-MAP	Indicate where camera is installed
	Locking the screen of running function
O LOCAL MANUAL RECORD	Save DVR's data in Client PC
PTZ CONTROL	Control PTZ camera's Pan/Tilt/Zoom/Focus functions
SNAP SHOT	A still image can be captured and saved in the desired folder
	Connecting to Remote DVR
SOFTWARE TURN OFF	Finish Client Program
ALL SYSTEM STATUS EVENT	Indicates log information : All, System, Status, Event
OSD(DISPLAY ON/OFF)	Indicates Client information
SOUND	Controls audio volume
EVENT LIST SCROLL LOCK	Event List scroll

2.3 Connecting to Remote DVR

OK

Cancel

Connecting to Kenote DVK					
	Click the connection button then below Connection. Screen will be displayed.				
Site Configration					
Site Configuration	Site List				
	iceddns.com Owww.esthub.co.kr 🕜				
Site Name	Add				
IP Address	Port 7620 Edit				
Net Client ID	Net Client Password				
Channel	Audio Connect Del				
123456	7 8 9 10 11 12 13 14 15 16				
	O K Cancel				
Site Configuration	The network-connect Information of Remote DVR				
DVR TYPE	Select either www.niceddns.com or www.esthub.co.kr				
	(Please refer to DDNS Part of the provided Manual)				
Site Name	Type in site name of DVR				
IP Address	Type IP address of Remote DVR. If using DDNS, Type DDNS ID in this field.				
DDNS ID	If you use DDNS, Type your DDNS ID.				
	(If you select Content of DDNS, "IP Address" change "DDNS ID")				
PORT(Network Port)	Type the same port as DVR.				
Password	Type the same password as DVR				
Channel	Select the number of DVR channel				
Audio Connect	Check to use or not to use an audio connection.				
Addio Connect	(If this want to use, It has to set Audio connection from DVR)				
Add	Add new DVR				
Edit	Edit Site information in Site list				
Delete DVR from the Site list					
Site List It display the entire site information of Remote DVR.					

It connect the selected DVR

Exit

2.4 Monitoring

C/1 015C0

Live screen will appear once the connection is made between Client Program and Remote DVR, Client Program screen divides according to the number of Remote DVR's channel connected.



[Figure 3. Monitoring Screen]

Once Client Program is connected to Remote DVR, event information will display on the list and you can search information at your request.

ALL	Displays all event information
SYSTEM	Displays system related information
STATUS	Displays system status
EVENT	Displays event log

.	Client Program Started	B	Recording
	DVR connected		Sensor detected
×	Motion detected	ŧ.	Configuration Changed
•84	Alarm alerted	×I	DVR shutdown
×	Camera disconnected		

click disconnection button to close live screen then appears the main screen.

2.5 Storing in PC(Local Manual Record)

- 1. [RECORD] Click Record button, then chosen live feed screen will store in chosen folder of Client Program menu
- 2. To stop storing, click Record button. You can click Search button and local search to play stored file.

2.6 PAN/TILT/ZOOM/FOCUS CONTROL

Select channel with PTZ Camera in monitoring screen and click PTZ button

then PTZ control

screen will appear.





(- /	(-)	
	Camera Panning		
	Camera Tilting		
ZODM	Zoom in , zoom out control		
FOCUS	Focus in , Focus out control		
	Select PRESET number	(Please check available model at first)	
	Select SCANPOINT number		
RUN	Run PRESET	(Please check available model at first)	
	Run SCANPOINT		
	Stop PTZ Camera control function		

2.7 LOCK SCREEN

- 1. Click lock button then chosen lock screen from the Client Program menu function will run.
- 2. Type saved password

2.8 SNAP SHOT

1.

Click SNAPSHOT button then live feed screen will be captured in still image.



2. Click JPEG save button then save under desired place and name.

				? ×
Save to	🗠 Local Disk (C :)	•	+ 🗈 💣 🎟•	
	ATT BACKUP Documents and Settings DVHBACKUP DXSDK E-SAVE e-clipse ENDB ENDB HNC HNC Intepub j2sdk1,4,2 jeilBank ONNET21	 Pivot Program Files RECVCLER Storage System Volume Int 	formation	
	File Name :		•	Save
	File Type : JPEG Fi	les (*,jpg)	<u> </u>	Cancel

- 3. Click Print button to print from connected Printer
- 4. Click Exit button then you can capture stored image or can go to Search Screen without Printing.

3. SEARCH FEATURE

3.1 Main Search Screen

Click Search icon in the main screen of client program then, main Search screen will appear



[Figure 4. Main Search Screen]

If the screen lock is set in the client program configuration menu, you need to enter the password.

LOCK	
PASSWORD	
ОК	CANCEL

3.2 Search Button Feature

FUNCTION	DESCRIPTION
2007 / 11 ►	Data stored date will be displayed in dark shades. Use
M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	arrow to choose wanted date
	4,6,9,13,16 Screen Divisions mode
← ↔ Ⅲ	Next Screen, Full Screen, and Panorama Search
BACKUP	Backup button
LOCK	Lock the screen
SNAP SHOT	SNAPSHOT button
	Event button
LOCAL SEARCH	Local Search button
REMOTE SEARCH	Remote Search button
	Go to the first data search
	Move backward by 1 frame
44	Fast Backward Playback
	Reverse play
	Stop playing data
	Play the stored data
	Fast forward Playback

	Move forward by 1 frame
	Go to the last data search
1-4СН 9-12СН 5-8СН 13-16СН	Search and display by 4 channels
HOUR 0 1 2 3 4 5 6 7 8 9	Indicate recorded Hour
M S-BCH 9-12CH 13-16CH 4 0 10 10 10 10 10 10 10 10 10	Indicate recorded Minute
	Scroll 4 channels from recorded data
10	Play audio
Q	Mute audio
	Exit

3.3 Remote Search

1) Select the date from the right calendar. Saved data of the date will show in yellow, Date selected will change to red.

		200)7	10		▶	
5	м	т	w	т	F		
	1	2	3	4	5	6	
7	8	9	10	11	12	13	
14	15	16	17	18	19	20	
21	22	23	24		26	27	
28	29	30	31				

2) Select search date saved data will show in 24 Hour matrix. Blue is the data saved time, Red is the time you want to search.



 Select search time then saved data will appear in red. Click play button to play from the first of data. Move the mouse to play the exact time of data.

0 1 + + + + + + + + 10 1 + + + + + + + + + + + + + + + + + + +	20 30	40 50 50 60
2		
3		
4	er de la companya de	l .

4) Selected screen division mode will be applied when searching..



3.4 Local Search

1) Search and play recorded date .

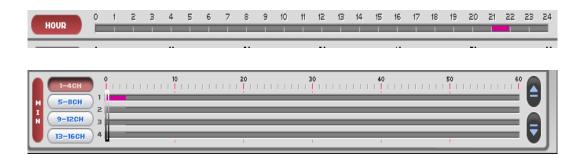


Click local search button then display saved data files

and under right list. Select the saving folder from client program setup menu.

16 02:04 16 02:04 16 02:04
16 02:04
16 02:04

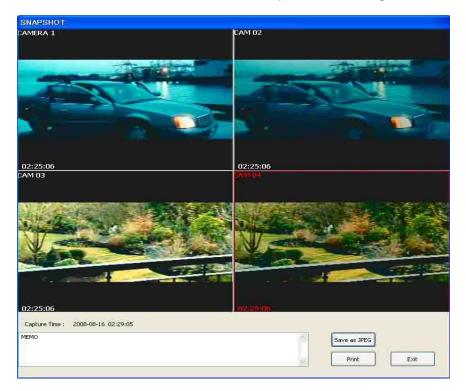
2) Select the right file and displays ENV file's channel and start time/ exit time of data information recorded.



- 3) Click play button to play recorded data.
- 4) Click cancel button, then exit to main screen.

3.5 SNAPSHOT

1) Click SNAPSHOT button then live feed screen will be captured in still image.



2) Click JPEG button then select save folder and type file name.

				? ×
Save to:	🛥 Local Disk (C :)	•	+ 🗈 💣 📰-	
	ATI BACKUP Documents and Settings DVSBACKUP DXSDK E.SAVE ECIIpse ENDB ENDD HNC Inetpub I2sdK1.4.2 ONNET21	Pivot Program Files RECVCLER Storage System Volume Inf	ormation	
	File Name : 🗾 🖬 🗖		T	Save
i	File Type : JPEG Fi	les (*,jpg)	•	Cancel

- 3) Click print button to print
- 4) Click Exit button to save captured still image or Exit without printing.

3.6 Search Log Information

1) Client program and Remote DVR information – Search and Save Motion detection , Alarm, Sensor detection data file

	e ALL	*			
2.3					
Date	Year 2	008 💉 Month 🛿	3 💉 Search		
	-				
DATE	CAT	EVENT TYPE	Time	Description	
2008-08-22	EVENT	MOTION	10:03:59	Motion Detected	B
	EVENT	MOTION	10:03:59	Motion Detected	12
	EVENT	MOTION	10:04:00	Motion Detected	
	EVENT	MOTION	10:04:00	Motion Detected	
	EVENT	MOTION	10:04:00	Motion Detected	
	EVENT	MOTION	10:04:00	Motion Detected	
	EVENT	MOTION	10:04:00	Motion Detected	
	EVENT	MOTION	10:04:00	Motion Detected	
	EVENT	MOTION	10:04:05	Motion Undetected	
	EVENT	MOTION	10:04:06	Motion Undetected	
	EVENT	MOTION	10:04:11	Motion Undetected	
	EVENT	MOTION	10:04:14	Motion Detected	
	EVENT	MOTION	10:04:16	Motion Undetected	
	EVENT	MOTION	10:04:24	Motion Detected	
	EVENT	MOTION	10:04:25	Motion Undetected	
	EVENT	MOTION	10:04:29	Motion Detected	1
	<				>

Event Log Type	Kinds of log information : All, System, Status, Event
Search	Search log information by Year and Month
Date	Select saved date
Save as file	Save to CSV file from selected log information(Type folder and file name)
Close	Exit search log information screen

4. BACKUP FEATURE

4.1 Select Backup time period

1) From the saved data, select time period you want to backup and click [BACKUP] button



CAM02	
	• 2007 / 11 • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •
NOUD 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 16 17 16 19 20 21 22 25 24 1 1 1 1 1 1 10 14 16 16 17 16 19 20 21 22 22 24 1 1 1 1 1 10 14 16 16 17 16 19 20 21 22 22 24 1 1 1 10 10 14 16 10 14 10	LOORL SERBER REMOTE SERBER

2) Click backup button then displays backup screen.

BACKUP
Backup Time
Start Time Hour 0 V Minute 10 V Second 0 V
End Time Hour 0 V Minute 20 V Second 0 V
Backup File Type
AVI Channel 1
O Proprietary Format ALL 12345678910111213141516
Backup Location Backup Path D: WE_SAVE WBACKUP
Backup Progress
0% (0 KB/SEC)
Start Cancel

4.2 AVI Backup time period

1) Select the type of BACKUP file in AVI then backup channel by channel.

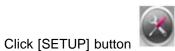
End Time Hour 0 V Minute 20 V Second C	
and the second	
💿 AVI Channel 3 🗸	
O Proprietary Format ALL 12345678910111213141 Backup Location Backup Path D:\#E_SAVE\#BACKUP	5 16
Backup Progress	
COMPLETE!	

4.3 ENDB Backup time period

1) Select the type of BACKUP file in default format then select channel and backup.

Start Time	Hour 0 💌 Minute 💽 Second	0
End Time	Hour 0 🖌 Minute 🔽 Second	0
ackup File Typ	e	
	Channel 1	
Proprietant	ry Format ALL	15 16
ackup Location	1	
Backup Path	D:₩E_SAVE₩BACKUP	
ackup Progres	s	
	0% (0 KB/S	50)

5. SET-UP PROPERTY



in monitoring screen then display setup menu to configure client program

5.1 Set-up System

property

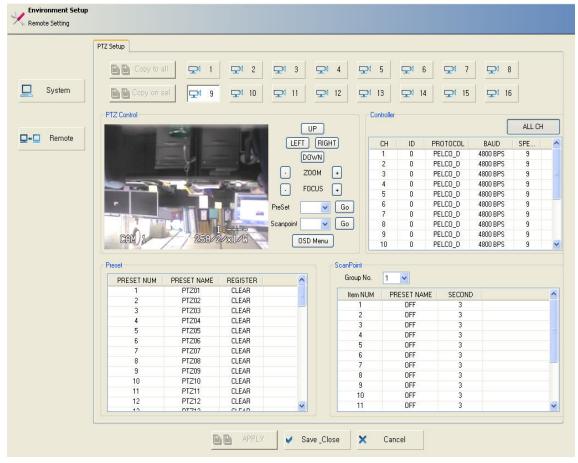
	vironment Setup	
	Program Information	
	* Program Name : EnNet	* Ver.: CNDV2.5.10.2
System	Language / Date	
	* Language English	* Date Display YYYY-MM-DD
Remote	Screen Setup	
	* Font Size(OSD) • Large Normal Small	
	Save Folder	
	Save Folder	C:\#E SAVE\#REC * Drive Info.
	Save Folder * Recording C: V Recording Max	1 GB Drive Capacity Free
	* Recording C: 💌	
	* Recording C: V Recording Max	I GB Drive Capacity Free C: WE_SAVEWJPEG C: 35 GB 21 GB D: 104 GB 60 GB G: 189 GB 131 GB
	* Recording C: Recording Max * Still Image C:	Image: C:WE_SAVEWINGG Drive Capacity Free C::WE_SAVEWINEG C::WE_SAVEWBACKUP C::WE_SAVEWBACKUP C::WE_SAVEWLOG Diamondation
	* Recording C: V Recording Max * Still Image C: V * Backup C: V * Log C: V	I GB Drive Capacity Free C: WE_SAVEWJPEG C: 35 GB 21 GB D: 104 GB 60 GB G: 189 GB G: 189 GB 131 GB X: 55 GB 48 GB C: WE_SAVEWBACKUP Z: 75 GB 39 GB C: WE_SAVEWLOG S S S

* Set-up Property description

	FUNCTION	DESCRIPTION
Program information		Indicate program name and current version
L	Program Name	Client Program name
L	Program version	Client Program Version information
Language and Date		Indicate and Select client language /data type
L	Language	It is the language of setup menu on client program
L	Date display	It displays the type for date on client program
Screen Setup		It is control of the setup for Font size on client.

L	Font Size(OSD)	Control the font size of OSD on client screen
L	Auto Sequence Dwell Time	Control the interval time of sequence on client screen.
L	Event Duration Time	Display the event list by assigned time
Save Folder		Indicate the information for each saved folder.
L	Recording	Indicate the saved folder information for manual record.
L	Still Image	Indicate the saved folder information for still image.
L	Backup	Indicate the saved folder information for backup.
L	Log	Indicate the saved folder information for log.
L	Recording Max	Control the capacity of recording
L	Log Saving Term	Control the period to use log data space
Screen Lock		Control the authority for each module menu
L	Start End Live	If check the each check box. When using the checked
	Setup Search Backup	menu, You have to fill the password.
L	Change Password	It is the password for authority.

5.2 Set-up Remote DVR



Function	Description	
PTZ Control	It can move to the desired direction by each buttons	
	(Button - Up, Down, Right, Left, Zoom, Focus)	
	Also, It can check the status of PTZ, Preset, Scanpoint after set-up.	
OSD Menu	It can move to the OSD menu of PTZ Camera directly under Pelco-D	
	Protocol only. Please check your PTZ's Protocol menu.	
Controller	Set-up PTZ Protocol, Baudrate, Speed per channel	
Preset	Set-up Preset after selecting the desired direction per channel	
Scanpoint	Make a Group number with various Presets of PTZ Camera	

5.3 Set-up System Control Button

APPLY	Save the modified Setting value
✔ Save_Close	Exit to Main Screen after Saving
× Cancel	Exit to Main Screen without Saving