HT Series Digital Video Recorder

Manual (Rev.5)



WARNING

RISK OF ELECTRIC SHOCK DO NOT OPEN



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE.



The lightning flash with 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.



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

Maintenance (servicing) instructions in the literature accompanying the appliance.

COMPLIANCE NOTICE OF FCC:

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGEY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE, IN WHICH CASE USERS WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT THEIR OWN EXPENSE.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT. THIS CLASS OF DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

The information in this manual is believed to be accurate as of the date of publication. The information contained herein is subject to change without notice. Revisions or new editions to this publication may be issued to incorporate such changes.

IMPORTANT SAFECUARDS

1. Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions

The safety and operating instructions should be retained for future reference.

3. Cleaning

Unplug this equipment from the wall outlet before cleaning it. Do not Use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

4. Attachments

Never add any attachments and/or equipment without the approval of The manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. Water and/or Moisture

Do not use this equipment near water or in contact with water.

6. Accessories

Do not place this equipment on an unstable cart, stand or table. The equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

7. Power Sources

This equipment should be operated only from the type of power source Indicated on the marking label. If you are not sure of the type of power, please consult your equipment dealer or local power company.

8. Power Cords

Operator or installer must remove power and TNT connections before handling the equipment.

9. Lightning

For added protection for this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the equipment due to lightning and power-line surges.

10. Overloading

Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

11. Objects and Liquids

Never push objects of any kind through openings of this equipment as They may touch dangerous voltage points or short out parts that could Result in a fire or electric shock. Never spill liquid of any kind on the Equipment.

12. Servicing

Do not attempt to service this equipment yourself. Refer all servicing to qualified service personnel.

13. Damage requiring Service

Unplug this equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:

A. When the power-supply cord or the plug has been damaged. B. If liquid is spilled, or objects have fallen into the equipment.

C. If the equipment has been exposed to rain or water.

D. If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.

E. If the equipment has been dropped, or the cabinet damaged.
F. When the equipment exhibits a distinct change in performance — this indicates a need for service.

14. Replacement Parts

When replacement parts are required, be sure the service technician has

used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

15. Safety Check

Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.

16. Field Installation

This installation should be made by a qualified service person and should conform to all local codes.

17. Correct Batteries

Warning: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

18. Tmra

A manufacturer's maximum recommended ambient temperature (Tmra) for the equipment must be specified so that the customer and installer may determine a suitable maximum operating environment for the equipment.

19. Elevated Operating Ambient Temperature

If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room

ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (Tmra).

20. Reduced Air Flow

Installation of the equipment in the rack should be such that the amount

of airflow required for safe operation of the equipment is not compromised.

21. Mechanical Loading

Mounting of the equipment in the rack should be such that a hazardous

condition is not caused by uneven mechanical loading.

22. Circuit Overloading

Consideration should be given to connection of the equipment to supply circuit and the effect that overloading of circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

23. Reliable Earthing (Grounding)

Reliable grounding of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

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1. SAFETY CAUTIONS

Follow these instructions to keep the user safe and prevent property damage.
 Read them carefully before the use of the product.
 The responsibility falls on the user to install and use the product properly.

- 1.1 Power Source-related
- ① Insert the power plug fully and firmly into the power source.
 - Unstable connection may cause fire.



- ② Do not use a damaged power cord, plug or loose outlet.
 - It may cause electric shock or fire.



3 Do not plug several devices exceeding the rated capacity into a single outlet.

- Abnormal heat generation at the outlet may cause fire.



④ Do not bend nor pull the power cord. Do not place a heavy object on top of it.

- It may cause electric shock or fire.



- (5) When unplugging the power cord, do not pull it out by touching the cord area or do not touch it with a wet hand.
 - It may cause electric shock or fire.



1.2 Installation-related

- (1) Do not place candlelight or cigarette light on top of the product or do not install the product near heating devices.
 - It may cause fire.



② Do not place the power cord near heating devices.
 The exterior of the cord may peeled off, causing electric shock or fire.



- ③ Do not install the product in a place where a large amount of oil, smoke or moisture exists. Do not install the product in a vehicle or a place where water is splashed.
 - It may cause electric shock or fire.



- ④ Do not place the product on top of an unstable cart, stand or table. Do not block the air ventilation with table cloth or curtain.
- Internal temperature rise may cause fire.



 ⑤ Do not install the product in a narrow place. Keep the product a certain distance away from the wall.
 – Internal temperature rise may cause fire.



1.3 Cleaning and Usage-related

- ① Unplug the power plug during lightning, thunderstorm or when not in use for long periods of time.
 - It may cause electric shock or fire.



② When taking the battery out from the remote control, keep them away from children to prevent from swallowing incidents.

Keep the battery away from babies.

- If a child swallowed the battery, immediately consult a doctor.



- 3 Do not place the container or base filled with water, liquids, chemicals, small piece of metal and heavy object on the product.
 - If liquid flows into the product, it may cause electric shock or fire. A heavy object may drop from the top of the product, causing injury.



- ④ Do not use or store the product near combustible sprays and other flammable substances.
 - It may cause explosion or fire.



 If dust or water is present at the power plug's pin and contact area, wipe out the area.
 may cause electric shock or fire.



 When cleaning the product, unplug the power cord and gently wipe using a soft cloth. Do not directly spray water on the product or do not use benzene, thinner or alcohol when cleaning.
 It may cause electric shock or fire.



- ⑦ When replacing the battery, be sure to check the correctness of the polarity (+,−).
- If the battery polarity is wrong, generation of abnormal heat or leakage of internal liquid may cause fire, injury or contamination in the surrounding area.



 In case the product was dropped or the case was damaged, switch off the product and unplug the power cord. Have a technician repair the product.
 If the damaged product is used without repair, it may cause electric shock.



 Do not repair or disassemble the product by yourself or do not connect other connection devices without the manufacturer's approval.
 If repair is required, contact the reseller. Failure to follow this instruction may cause electric shock or fire.



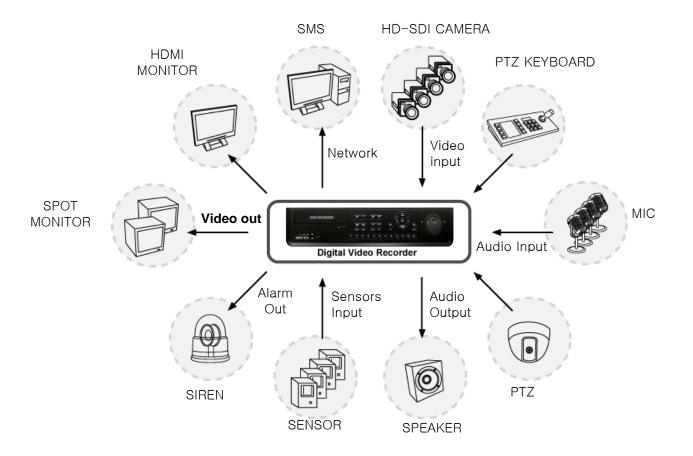
2. OUTLINE

2.1 Functions

This DVR provide Full HD Display and Playback.

- Based on Private Development ASIC Technology and Linux OS.
- Pentaplex Operation Performance (Live, Recording, Playback, Backup, Network)
- 16CH / 8CH / 4CH HD-SDI (SMPTE 292M) Video input.
- 1080P / 720P video compression.
- Various Recording mode. (Manual / Schedule / Event)
- Various Search functions. (Date/Hour search, Calendar search, Event Search)
- · Various Playback functions. (Normal / Fast / Slow / Step / Reverse / Smart / Panorama / Repeat)
- Support E-SATA & SATA II
- Digital Zoom in Playback.
- Gigabit Network.
- Support 16channel Audio.
- Support Mouse control.
- · E-mail function (Alarm, Motion detection, Video loss, HDD fail end etc)

2.2 System Organization

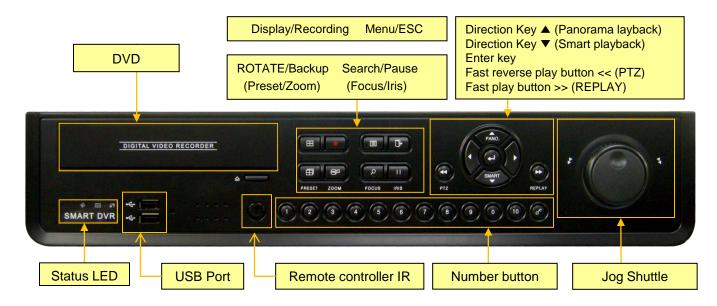


3. DVR ORGANIZATION

3.1 Front Panel Description

NOTE: Turn on the DVR after connecting the power cord, camera input and monitor completely

• HT-1641/1621/841



• HT-821 / 421



HTS-400

1080p HD											4 4	
···	6	7	8	9	0	⊕	82	Q	11	*	SMART	Þ
• •												

*** STATUS LED**

Recording LED

Recording LED is turned on when DVR is recording.

Network LED

Network LED is turned on when DVR is connected by network

※ Front Button

The front panel of DVR is similar as normal VCR or Multiplexer and the functions are also similar . Front buttons have various functions and are used for DVR initial setting and others. Please refer to the below explanation.

NUMBER buttons (0 ~ 9)

Displayed selected camera number to full screen. And also these buttons are used to enter a password.

NOTE: If user want to use over than 10 channel, use the +10 button.

Ex) 10 + 1 = 11, 10 + 6 = 16

DISPLAY button

Display split screens 1, 4, 7, 9, 10, 13, 16.

REC button

Start recording when this button is pressed in live mode.

MENU button

Enter Setup menu. User need to Admin access permission. Return to previous screen if this button is pressed again.

ESC button

Exit current screen or return to previous screen.

ROTATE button (Preset)

Display next channel if this button is pressed. In PTZ mode, It is used Preset function button.

BACKUP button (Zoom)

Enter Backup menu. Return to previous screen if this button is pressed again. In PTZ mode, it is used Zoom function button.

SEARCH button (Focus)

Enter Search menu. The password is required for search. Return to previous screen if this button is pressed again. In PTZ menu, it is used Focus function button.

PAUSE button (IRIS)

In Search mode, playback is paused by this button. In PTZ mode, it is used IRIS function button.

Direction buttons (\blacktriangle , \blacktriangledown , \blacklozenge , \blacktriangleright)

This buttons are used when move to other menu or change the position of the CAMEO screen. In PTZ mode, it is used PAN/TILT function.

- In Playback mode, it is Panorama search function button. In PTZ mode, it is used to move the camera to up.
- In Playback mode, it is Smart search function button. In PTZ mode, it is used to move the camera to down.
- In Playback mode, it is reverse play button and when paused screen, user can see each frame if this button is pressed manually. In PTZ mode, it is used to move the camera to left.
- In Playback mode, it is forward play button and when paused screen, use can see each frame if this button is pressed manually. In PTZ mode, it is use to move to camera to right.
- NOTE: For the Smart search, recording data should be recorded by the Event recording.

Otherwise, if user try to playback with Smart search, the screen is returned to live mode.

ENTER button

Execute the selected button or save the setup value.

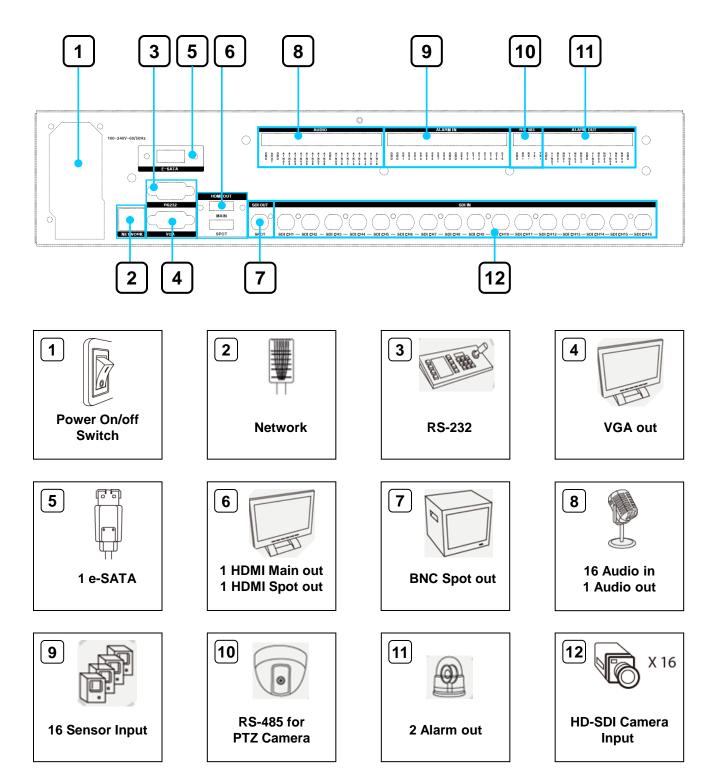
FAST REVERSE PLAY button (PTZ)

FAST FORWARD PLAY button (PLAY)

Playback with fast forward. Playback speed is changed if this button is pressed repeatedly. (▶, ▶▶, ▶▶▶, ▶▶▶▶, ▶▶▶▶). In PTZ mode, it is used to Zoom in function button. In live mode, the last portion of recorded video is played.

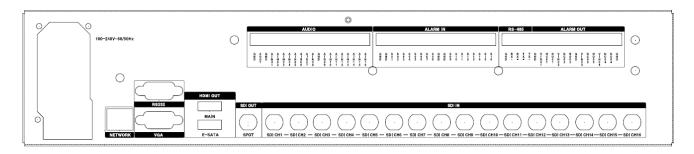
3.2 Real Panel

• HT-1641/841

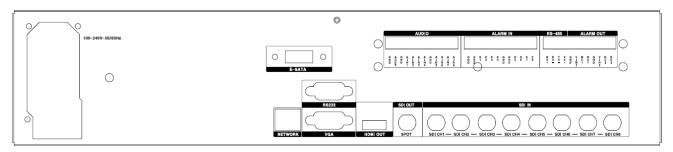


3.2 Real Panel

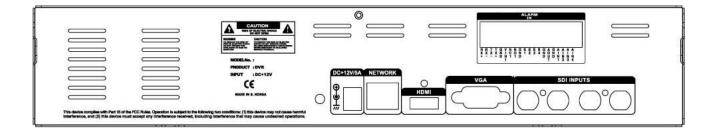
• HT-1621



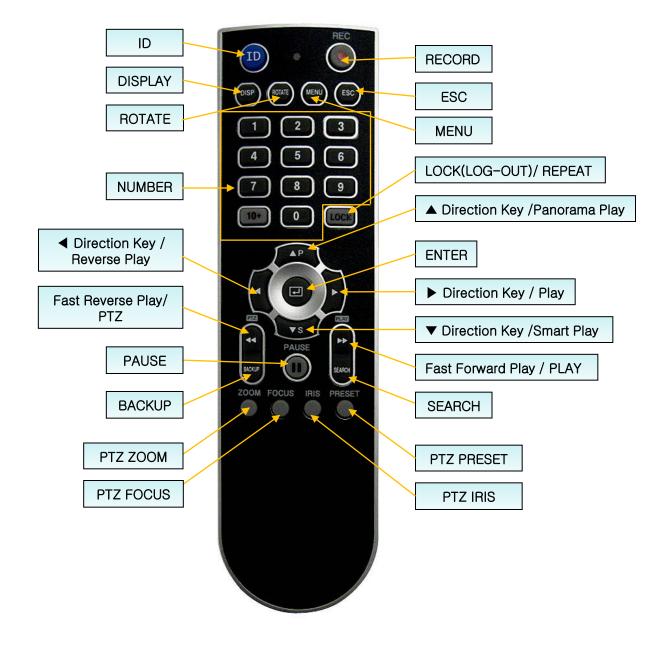
• HT-821/421



• HTS-400



3.3 Remote Controller

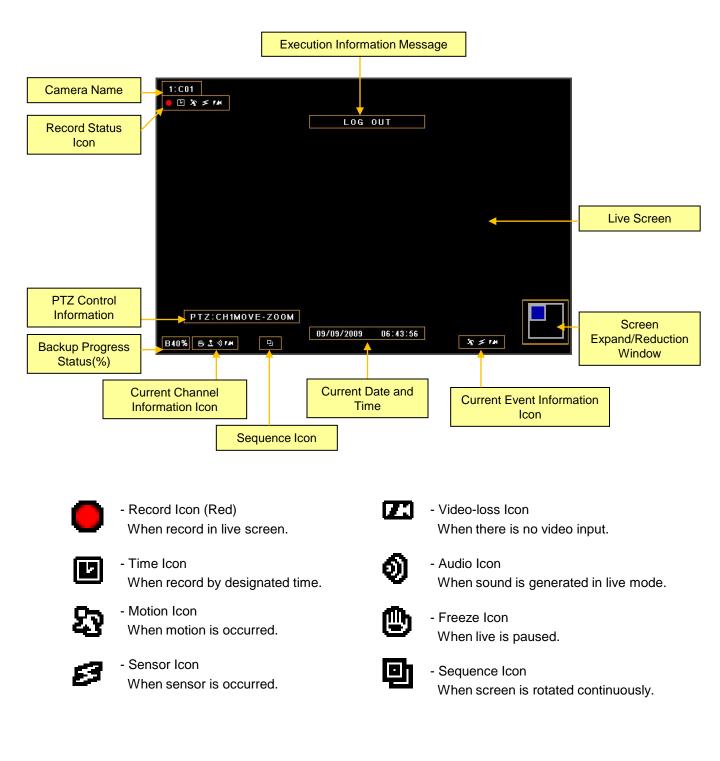


% How to set ID

- ① Before setup the ID, Enter to the GENERAL SETUP and set the ID first. (Default is 0)
- (2) While pressing and holding the ID button, enter the unit address of the DVR by two-digit.
- ③ If the unit address is a single digit, enter two digit number by adding the number 0 as the first digit.
 (Example If the unit address is 1, the input value is 01.)
- ***** A single remote controller can change ID from 0 to 19 and independently control up to 20 DVRs.

4. LIVE

4.1 Live Screen



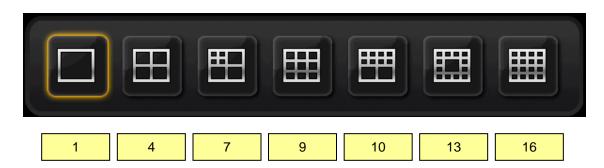
4.1.1 Top Menu

In live screen, if \blacktriangle button of the remote controller or front panel is pressed, or if the mouse cursor is placed over the end of the top area, the top menu is appeared.



4.1.2 Bottom Menu

In Live screen, if ▼ button of the remote controller or front panel is pressed, or if the mouse cursor is placed over the end of the bottom area, the bottom menu is appeared.



4.1.3 CAMEO Menu

In live screen, if the ENTER button of the remote controller or front panel is pressed, a blue square cursor will be appeared. If the ENTER button is pressed again, the CAMERA menu will be appeared.



• CAMEO CHANGE : The live camera can be changed to the selected channel. If the camera number is selected at the pop-up menu shown below, the camera

is changed to the selected channel.

CAMERA CHANGE 1 2 3 4 5 6 7 8 DEFAULT 9 10 11 12 13 14 15 16 CLOSE

- PLAYBACK : Playback on selected channel. (before 15~20 seconds)
- FREEZE : Live screen of the selected channel can be paused.
- FREEZE ALL : Live screen of the all channels can be paused.
- SEQUENCE : Live screen is rotated.

• **PTZ** : PTZ Camera should be installed otherwise the PTZ menu is not activated.

The following picture will be appeared when select PTZ menu and select [MENU] button.

PTZ SETUP CH1
PRESET SETUP
PRESET TOUR
PATTERN SETUP
PATTERN TOUR
AUTO FOCUS
POWER
LIGHT
×

*** Using Mouse :** On the above menu, when click the right button of mouse, the control screen for Menu, Zoom, Focus and Iris will be appeared.



메뉴	: Zoom In / Zoom Out : Focus In / Focus Out : Iris In / Iris Out
Z+/Z-	: Zoom In / Zoom Out
F+/F-	: Focus In / Focus Out
l+/l-	:Iris In /Iris Out

* Using Remote Controller or Front Key : The below Hot Key is available.

- Press the ENTER button on PTZ Camera channel.
- Press the ENTER button again then the CAMEO menu will be appeared.
- Select PTZ menu on the Live CAMEO menu.
- Press the ENTER button again, the above PTZ menu screen will be appeared.
- Zoom Control : In PTZ mode, press the Zoom (Back) button.

Zoom in - Fast reverse play button / Zoom out - The fast forward play button.

- Focus Control : In PTZ mode, press the Focus (Search) button.

(+) - Fast reverse play button / (-) – Fast forward play button.

- Iris Control : In PTZ mode, press the Iris (Pause) button.

(+) – Fast reverse play button / (-) – Fast forward play button.

РТ	Z SETUP CH1	
	PRESET SETUP	
	PRESET TOUR	
	PATTERN SETUP	
	PATTERN TOUR	
	AUTO FOCUS	
	POWER	
	LIGHT	
	×	

- SPEED SETUP : Set the PTZ camera speed. (1 to 8)

<u>NOTE: If the mouse is used to move the PTZ camera, the movement speed depends on the position</u> <u>of the mouse. As the mouse pointer moves away from the center, speed becomes faster.</u>

- PRESET SETUP :

Set the preset position. If the position setup is saved, PTZ camera will be directed to the set position by preset number.

- PTESET TOUR :

6 different preset list can be created. If the created preset lists are set to "ON", recording is made with preset tour.

- PATTERN SETUP :

Pattern can be created by movement, zoom, focus and iris. After pressing the BEGIN button, adjust the PTZ camera position or zoom and then press the END button. All directions (up, down, left and right), zoom and iris settings are recorded.

- PATTERN TOUR : PTZ camera moves according to the saved pattern.

- AUTO FOCUS / POWER / LIGHT :

Auto focus, power and light functions can be turned on/off on each category.

- OSD MENU : Turn on/off the OSD menu.
- **ZOOM X2 :** Zoom in x2.
- ZOOM X4 : Zoom in x4.
- ADUIO ON : Turn on/off Audio.

5. SETUP

In this category, there are General, Camera, Event, Schedule, Ethernet and System Information.

On the Top menu, select the [SETUP] menu.



After select the menu, the following Log-in window will be appeared.



Enter the password by the key buttons and press the ENTER button. (The default password : 1111)

5.1 GENERAL SETUP

In this category, there are General, Alarm, Disk, Monitor, Account, Configuration setup and Shutdown.

Select the [GENERAL] menu.



5.1.1 GENERAL

GENERAL	SYSTEM DATE / TI	ME		
		NTSC	AUTO	
ALARM OUT	LANGUAGE	ENGLISH (ENGLISH)		
DISK	KEY TONE	ON		
	UNIT ADDRESS	0		
MONITOR	BASE CAMERA NO.	1		
	MENU TIME OUT	10 MIN		
ACCOUNT	PLAYBACK PROTECT	OFF		
CONFIG	BACKUP CONFIRM	OFF		
	HDD OVERWRITE	0	ON	
SHUTDOWN		-		

[SYSTEM]

- LANGUAGE : Select the language. (English, Germany, French, Spanish, Japanese, Chinese, Italian, Russian, Dutch and Korean)
- **KEY TONE** : Turn on/off the buzzer sound of key.
- UNIT ADDRESS : Set the DVR ID.

This ID can be used when use multi DVR in same place by one remote controller.

- BASE CAMERA NO. : Set the beginning number of camera. If set this value to 17, the camera number start with 17.
- MENU TIMEOUT : Keep the Menu screen for this value then escape from Menu.
- PLAYBACK PROTECT : Prohibit the playback of passed data. (Select 0 to 99 days. If set 3 days, can not playback the data that elapsed 3 days.
- BACKUP CONFIRM : Confirm the backup process.(Log-in process)
- HDD OVERWRITE : Select on/off to overwrite data on Hard disk.

NOTE: If set to [OFF], recording will be stopped automatically when disk is full.

5.1.1 GENERAL

	AL SETUP				
GENERAL	SYSTEM	DATE / TIME			
ALARM OUT					
DISK	DATE FORMAT	MM			
	TIMEZONE	GMT-00:00	DST OFF		
MONITOR	DATE DISPLAY		ON		
	DATE / TIME	04/05/2013	18:51:27		
ACCOUNT	NTP		OFF		
CONFIG	HOLIDAY	0 DAYS			
SHUTDOWN					
		×	×		

[DATE / TIME]

- DATE FROMAT : Select the data format. (YY/MM/DD) / (MM/DD/YY) / (DD/MM/YY)
- **TIMEZONE :** Select the timezone and DST. The city which don't use DST is set to [OFF] automatically.
- DATE DISPLAY : Display date on live screen or not.
- DATE / TIME : Change date and time.
- NTP : Select the usage of NTP setting. DVR time is synchronized with NTP server and get the standard time. The default server is [pool.ntp.org] and User can input other server.

[Sync now] : Synchronize immediately. [Auto Sync] : Synchronize every day automatically.

• HOLIDAY : Add or delete holiday.

5.1.2 ALARM OUT

	ουτ	
GENERAL		
ALARM OUT	ALARM OUT	SIGNAL+
DISK	1	ON
	2	ON
MONITOR		
	ALARM SET	SET
ACCOUNT		CLEAR
CONFIG		
SHUTDOWN		
		× ×

- SIGNAL : Select on/off to use alarm by channel.
- ALARM SET : Check the alarm connection whether it works properly or not. Press the [SET] button then alarm device will be operated.
- ALARM CLEAR : Press the [CLEAR] button then alarm device will not be operated.

5.1.3 DISK

GENERAL	IN	STALL	CHECK /	USB	RAID	
ALARM OUT						
	NO.	TYPE	SIZE	STATUS	INSTALL	
DISK	1	HDD	78GB	REC	INSTALL	
	2	HDD	N/A	N/A	NONE	
MONITOR	3	HDD	N/A	N/A	NONE	
	4	HDD	N/A	N/A	NONE	
ACCOUNT	5	HDD	N/A	N/A	NONE	
CONFIG	6	HDD	N/A	N/A	NONE	
	7	HDD	N/A	N/A	NONE	
SHUTDOWN						

NOTE : <u>When install HDD first time,</u> <u>after install HDD, should</u> <u>format by the [INSTALL]</u> <u>button.</u>

[HDD] - When select the HDD under [TYPE], HDD information will be displayed.

[INSTALL] - Display initial HDD install and information.

	ETUP		
GENERAL	INSTALL CHECK / C	USB RAID	
ALARM OUT			
	EARLIEST RECORD	04/18/2013 09:00:00	
DISK	LATEST RECORD	04/19/2013 01:15:06	
	DISK CHECK	START	
MONITOR			
	USB RESET	SET	
ACCOUNT		SET	
CONFIG			
SHUTDOWN			
		× ×	

[CHECK / USB]

- EARLIEST RECORD : Display the earliest recorded data information.
- LATEST RECORD : Display the latest recorded data information.
- **DISK CHECK** : Check the data from the earliest recorded to the latest recorded.
- USB RESET : Reset the USB connection.
- USB FORMAT : Format the connected USB.

DISK S	ETUP					
GENERAL	INSTALL	CHECK / USB RAID				
ALARM OUT						
	RAID SETUP	OFF				
DISK	RAID	OFF				
MONITOR	KAIP	HDD1	HDD2	HDD3	HDD4	HDD5
ACCOUNT	DISK STATUS	HDD6	HDD7	HDD8	HDD9	HDD10
CONFIG						
	RAID STATUS					
SHUTDOWN	RATE					
				~		×

[RAID] <u>* This function for only DT series.</u>

- RAID SETUP : Select the RAID level (RAID0, RAID1 and RAID5).
- RAID : Display RAID on/off status.
- **DISK STATUS** : Display disk status.
- RAID STATUS : Display RAID status.
- RATE : Display process rate.

WARNING!

- ***** By the RAID LEVEL, minimum 2 or 3 hard disk should be installed.
- ***** Hard disk should be used same model for RAID.
- ***** If hard disk brand or model is different, Disk error can be happened.





When setup the RAID, above message will be appeared.

After select the "V" mark, DVR will be rebooted.

***** Rebooting for RAID, booting time is longer than normal. (About 5 minutes)

!<u>WARNING</u>

***** When RAID is built, all data of HDD will be deleted.

***** If data is saved on HDD, backup the data.

GENERAL	IN	STALL	CHECK /	USB	RAID	
ALARM OUT	NO.	TYPE	SIZE	STATUS	INSTALL	
DISK	1	HDD	78GB	REC	INSTALL	
	2	HDD	N/A	N/A	NONE	Т
MONITOR	3	HDD	N/A	N/A	NONE	1
	4	HDD	N/A	N/A	NONE	1
ACCOUNT	5	HDD	N/A	N/A	NONE	
CONFIG	6	HDD	N/A	N/A	NONE	
	7	HDD	N/A	N/A	NONE	
SHUTDOWN						

After build RAID, the type will be changed to [RAID] and recognize to 1 HDD.

Supported RAID level is 0, 1, 5.

% RAID 0

- For building RAID Level 0, it will take about 5 minutes.
- Displayed with [GOOD], if the building is finished without any problem

GENERAL	INSTALL	CHEC	K / USB		RAID	
ALARM OUT						
ALARIM OUT	RAID SETUP	LEVEL 0				
DISK						
	RAID	LEVEL 0				
MONITOR		HDD1	HDD2	HDD3	HDD4	HDD
	DISK STATUS	GOOD	GOOD	NONE	NONE	NONE
ACCOUNT	DISK STATUS	HDD6	HDD7	HDD8	HDD9	HDD1
CONFIG		NONE	NONE	NONE	NONE	NONE
	RAID STATUS			GOOD		
SHUTDOWN	RATE			-		

% RAID 1

- For building RAID Level 1, building time depends on the HDD capacity. (In case of 1TB HDD, it will take 24~48 hours)
- Check the status on [RAID STATUS] and [RATE].

GENERAL	INSTALL	CHEC	K / USB		RAID	
ALARM OUT						
				LEVEL 1		
DISK	RAID	LEVEL 1				
MONITOR		HDD1	HDD2	HDD3	HDD4	HDD5
		GOOD	GOOD	NONE	NONE	NONE
ACCOUNT	DISK STATUS	HDD6	HDD7	HDD8	HDD9	HDD10
CONFIG		NONE	NONE	NONE	NONE	NONE
	RAID STATUS			GOOD		
SHUTDOWN	RATE			-		

※ RAID 5 (Only support HT-1641/ HT-841)

- For building RAID Level 1, building time depends on the HDD capacity. (In case of 1TB HDD, it will take 24~48 hours)
- Check the status on [RAID STATUS] and [RATE].

DISK SETUP						
GENERAL	INSTALL	CHEC	K / USB		RAID	
ALARM OUT	RAID SETUP			LEVEL 5		
DISK						
	RAID	LEVEL 5				
MONITOR		HDD1	HDD2	HDD3	HDD4	HDD5
	DISK STATUS	BUILD	BUILD	BUILD	NONE	NONE
ACCOUNT	DISK STATUS	HDD6	HDD7	HDD8	HDD9	HDD10
CONFIG		NONE	NONE	NONE	NONE	NONE
	RAID STATUS			BUILDING	;	
SHUTDOWN	RATE			44 % (INIT	Г)	
				*		×

5.1.4 MONITOR

	MONITOR SETUP				
GENERAL					
ALARM OUT	1				
DISK	RESOLUTION	1280x1024p 60Hz			
	BORDER COLOR	GRAY			
MONITOR	ALPHA BLENDING	0			
	TOUCH CALIBRATION	SET			
ACCOUNT	TOUCH POINTER	ON			
CONFIG					
SHUTDOWN					
		× ×			

• **RESOLUTION :** Select the resolution for connected monitor. If you select the [AUTO] option, HDMI monitor recognize the monitor resolution automatically.

- VIDEO OUT : Select main monitor. (MAIN–VGA / AUX-BNC Monitor) (Fix the screen by connected monitor)
- OSG OUT : Select the monitor for menu scree to display.
- BORDER COLOR : Change the border color.
- ALPHA BLENDING : Set the transparency of menu. (Set 1 to 20 and 20 is closer to the more transparent.)

R	ESOL	NOITU
	NO.	CONTENT
	1	AUTO
	2	1024x768p 60Hz
	3	1280x1024p 60Hz
	4	1280x960p 60Hz
	5	1360x768p 60Hz
	6	1440x900p 60Hz
	7	1600x1200p 60Hz
		×

[RESOLUTION selected screen]



[ALPHA BLENDING selected screen]

5.1.5 ACCOUNT

GENERAL	DVR	CLIENT		
ALARM OUT	ADMIN1	root	PERM	DEL
DISK	ADMIN2	NONE	PERM	DEL
MONITOR	USER1	NONE	PERM	DEL
	USER2	NONE	PERM	DEL
	USER3	NONE	PERM	DEL
ACCOUNT	USER4	NONE	PERM	DEL
CONFIG	USER5	NONE	PERM	DEL
	USER6	NONE	PERM	DEL
SHUTDOWN				

* Add / delete any user and give permission freely.

* When add new user, have to input new password.

When delete use, confirm again.

NOTE: (Default ADMIN password is 1111), Initial user name can be modified but can not delete.

CAUTION:

Default Admin account must not be deleted before add new user.

If delete default Admin user before add new Admin user, can not access on [SETUP] menu.

* By the [PERM] menu, can give permission to each ID.

5.1.6 CONFIG

	BURATION					
GENERAL						
	SLOT	DATE	LO	AD	SAVE	DEL
ALARM OUT	DEFAULT	NONE	LO	AD	SAVE	DEL
DISK	NONE	NONE	LO	AD	SAVE	DEL
	NONE	NONE	LO	AD	SAVE	DEL
MONITOR	NONE	NONE	LO	AD	SAVE	DEL
	NONE	NONE	LO	AD	SAVE	DEL
ACCOUNT						
CONFIG	E	XPORT	START			r)
CONTIG	I	MPORT			START	r j
SHUTDOWN						
						×

• SLOT : Select the slot to load or save on DVR memory.

* DEFAULT : Change factory default setting.

- DATE : Display the latest saved date.
- LOAD : Load the saved data.
- SAVE : Save the set data.
- DEL : Delete the saved data on Slot.
- EXPORT : Export the set data to USB or DVD.
- **IMPORT :** Import the set data to USB or DVD.



[DEFAULT selected screen]

E	XPORT	
	TARGET NAME	NONE dvr
		× ×

[EXPORT selected screen]

5.1.7 SHUTDOWN

SHUTD	OWN
GENERAL	
ALARM OUT	
DISK	RESTART
MONITOR	SHUTDOWN
ACCOUNT	
CONFIG	
SHUTDOWN	
	×

- **RESTART** : Restart the DVR.
- SHUTDOWN : Shutdown the DVR.

5.2 CAMERA SETUP

In this category, there are Camera, PTZ, Spot, Sequence and Private Zone setting.

Select the [CAMERA] Menu.



5.2.1 CAMERA

	CAMER	A						
CAI	VIERA							
	PTZ		IERA LABEL	ALL				
			GHT MODE	Αυτο				
s	от							
	SEQUENCE	CAM	NAME+	INSTALL+	HIDDEN+			
SEQ		1	C01	ON	OFF 📤			
	PRIVATE ZONE	2	C02	ON	OFF 🗮			
PRIVA		3	C03	ON	OFF			
		4	C04	ON	OFF			
		5	C05	ON	OFF 🔽			
				~	×			

• CAMERA LABEL : Select the camera label of live screen.

(ALL / NUMBER / NAME / OFF)

• NAME : Change the camera name. (If select the camera name, the virtual keyboard will be appeared.)

- INSTALL : Select On/Off button to use camera.
- HIDDEN : Select On/Off button to hide camera on live view. (Record operate correctly.)

NOTE: If select [INSTALL] – [OFF], Camera name and number are not displayed.

ĸ	EYE	3 O A	RD											
	C0	1											\supset	
	a	b	с	d	е	f	g	h	i	j	1	2	3	
	k	Т	m	n	0	р	q	r	s	t	4	5	6	
	u	v	w	x	у	z	•	_	@	+	7	8	9	
	(†	+	X	spa	ace	۸	&	:	1	#	*	0		
								ſ	•	/		>	6	
	_		_			_	_	C						Þ

If select the camera name, the virtual keyboard will be appeared. Max camera name should be less than 11 character.

[Virtual Keyboard]

5.2.2 PTZ

CAMERA				
PTZ	САМ	PORT+	ID	TYPE+
	1	9600-8N1	1	NONE
SPOT	2	9600-8N1	2	NONE
	3	9600-8N1	3	NONE
SEQUENCE	4	9600-8N1	4	NONE
PRIVATE ZONE	5	9600-8N1	5	NONE
	6	9600-8N1	6	NONE
	7	9600-8N1	7	NONE
	8	9600-8N1	8	NONE
				· · ·

[PTZ]

- **PORT** : Select the Baud Rate for using PTZ camera.
- ID : Select the ID for using PTZ camera.
- **TYPE** : Show the PTZ protocol list.

NOTE : baud rate, data bit, parity, stop bit, ID and protocol depend on PTZ camera for using.

CAUTION : When connect the camera on the RS-485 port, refer to the manual of camera manufacture.

5.2.3 SPOT

SPOT SETUP				
CAMERA				
PTZ		SPOT 1	SPOT 2	SPOT 3
SPOT	CAMERA	1~8	9~12	13~16
0.01	DEFAULT	1	9	13
SEQUENCE	SPLIT	4	1	1
	SEQUENCE	OFF	OFF	OFF
PRIVATE ZONE	INTERVAL	2 SEC	2 SEC	2 SEC
	POPUP	OFF	OFF	OFF
			×.	×

CAMERA : Select the camera for display on spot monitor.

DEFAULT : Select the camera for display on spot monitor when sequence is off.

SEQUENCE : Select On/Off for sequence screen.

INTERVAL : Select the interval time to move next channel. The max value is 256 sec.

POPUP : Select On/Off for pop-up screen when event is occurred.

NOTE: Same channel image can not be displayed on each spot monitor.



[CAMERA selection screen]



[INTERVAL selection screen]

5.2.4 SEQUENCE

SEQUE	NCE		
CAMERA			
PTZ	PAGE DWELL TIME	2 SEC	\square
F12			
SPOT	CAMEO DWELL TIME	2 SEC	
	CAMERA	SELECT+	
SEQUENCE	1	ON	
	2	ON	
PRIVATE ZONE	3	ON	
	4	ON	
	5	ON	
		× ×	D

PAGE DWELL TIME : Select the dwell time to move next channel.

CAMEO DWELL TIME : Select the dwell time for CAMEO sequence.

<u>NOTE: CAMEO sequence means selected camera is rotated in select cameo of division screen.</u> <u>Camera image which is shown on the other CAMEO of division screen is not included in</u> <u>CAMEO sequence.</u>



[DWELL-TIME selected screen]

CAMERA			
PTZ	PAGE DWELL TIME	2 SEC	
PIZ			
SPOT	CAMEO DWELL TIME	2 SEC	
	CAMERA	SELECT+	
SEQUENCE	1	ON	ŀ
	2	ON	Ŀ
PRIVATE ZONE	3	ON	
	4	ON	1
	5	ON	

[CAMERA SELECT screen]

5.2.5 PRIVATE ZONE

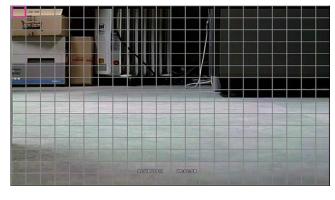
CAMERA				
077	ZONE ENABLE	OFF		
PTZ	ZONE COLOR	BLACK		
SPOT				
	CAMERA	ZONE		
SEQUENCE	1	OFF		
	2	OFF		
PRIVATE ZONE	3	OFF		
	4	OFF		
	5	OFF		

- **ZONE ENABLE** : Select On/Off to use. (LIVE mode/ SEARCH mode)
- ZONE COLOR : Select the color to hide.
- **ZONE** : Select the zone to hide.

(When select the ZONE button, the camera image will be appeared.

<u>NOTE : Move the blue dot to a desired location and press the OK button.</u> <u>Drag and move it to include the desired area and press the OK button.</u> <u>As a result, the area is covered and hidden with the selected color</u>

<u>TIP : On the screen, if click the right button of mouse, a menu will be appeared.</u> <u>Using this menu, a selected area can be delete or saved, or returned previous menu.</u>



[ZONE selected screen]



[Mouse right button selected screen]

5.3 EVENT SETUP

In this menu, there are Motion, Alarm in, Video Loss, System and Display setup.

Select the [EVENT] menu.



5.3.1 MOTION

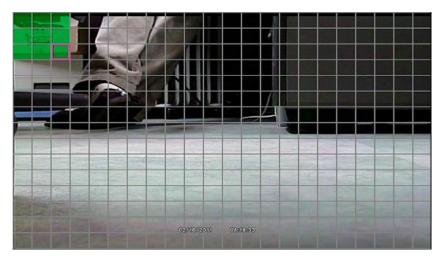
MOTION	INF	рит	ACTION	
ALARM IN	CAM	ACTIVE+	LEVEL+	AREA+
VIDEO LOSS	1	OFF	3	ON 📤
	2	OFF	3	ON
SYSTEM	3	OFF	3	ON
	4	OFF	3	ON
DISPLAY	5	OFF	3	ON
	6	OFF	3	ON
	7	OFF	3	ON 🔽

[INPUT]

- ACTIVE : Select On/Off to activate motion.
- LEVEL : Select the sensitive for motion trigger. (Select 1 to 5 level)
- AREA : Select the motion area.

TIP: If select the ACTIVE+/LEVEL+/AREA+ menu, can change all settings at once.

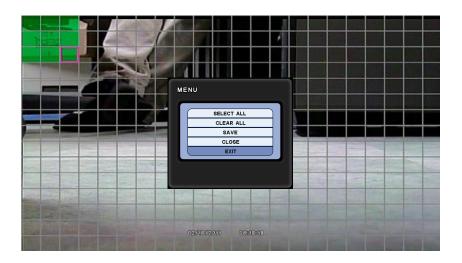
AREA SETUP



In the Area setup, the Red square is shown at the left top side of the screen. If select the OK button, the dot color will be changed to Green. A motion area can be selected by the direction buttons.

<u>NOTE : When the status is Red square, can move any direction to select.</u> <u>When the status is Green color, can select motion area or cancel the set area.</u>

After set the motion area, if select the MENU button, the following screen will be appeared.



- SELECT ALL : Select all motion area.
- CLEAR ALL : Clear all motion area.
- SAVE : Save the changed setting.
- CLOSE : Close the pop-up screen.
- EXIT : Exit the motion area setup.

MOTION		INPUT	АСТ	ION		
ALARM IN		RECORD	ALARM	BUZZER	PRESET	E-MAIL
VIDEO LOSS	1	OFF	OFF	OFF	OFF	OFF
	2	OFF	OFF	OFF	OFF	OFF
SYSTEM	3	OFF	OFF	OFF	OFF	OFF
	4	OFF	OFF	OFF	OFF	OFF
DISPLAY	5	OFF	OFF	OFF	OFF	OFF
	6	OFF	OFF	OFF	OFF	OFF
	7	OFF	OFF	OFF	OFF	OFF

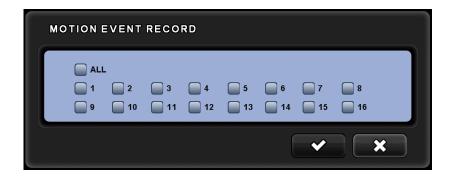
[ACTION]

- **RECORD** : Select the channel for record.
- ALARM : Select On/Off for alarm.
- BUZZER : Select On/Off for buzzer.
- **PRESET** : Set the preset number.

(When motion is triggered, the PTZ camera move to the set preset number position)

• E-MAIL : Select On/Off for e-mail notification.

TIP: If select to the [DEFAULT], only record the channel which is occurred event.



5.3.2 ALARM IN

MOTION	INPUT	ACTI	ОN	
ALARM IN	NO.	ACTIVE+	NAME	TYPE+
VIDEO LOSS	1	OFF	s01	NO
	2	OFF	s02	NO
SYSTEM	3	OFF	s03	NO
	4	OFF	s04	NO
DISPLAY	5	OFF	s05	NO
	6	OFF	s06	NO
	7	OFF	s07	NO

<u>TIP:</u> <u>If select the ACTIVE+/TYPE+</u> <u>menu, can change all settings</u> <u>at once.</u>

[INPUT]

- ACTIVE : Select On/Off to activate alarm.
- NAME : Type any name.
- TYPE : Select the alarm type. (NO : Normal Open / NC : Normal Close)

ALARM IN RECORD ALARM BUZZER PRESET E-MAIL VIDEO LOSS 1 OFF OFF OFF OFF OFF OFF SYSTEM 3 OFF OFF OFF OFF OFF OFF OFF DISPLAY 5 OFF OFF OFF OFF OFF OFF OFF 6 OFF OFF OFF OFF OFF OFF OFF OFF 7 OFF OFF OFF OFF OFF OFF OFF OFF	MOTION		INPUT	АСТ	ION		
VIDEO LOSS RECORD ALARM BUZZER PRESET E-MAIL 1 OFF OFF OFF OFF OFF OFF OFF 2 OFF OFF OFF OFF OFF OFF OFF 3 OFF OFF OFF OFF OFF OFF OFF 3 OFF OFF OFF OFF OFF OFF OFF 4 OFF OFF OFF OFF OFF OFF OFF 5 OFF OFF OFF OFF OFF OFF OFF 6 OFF OFF OFF OFF OFF OFF OFF							
2 OFF OFF OFF OFF SYSTEM 3 OFF OFF OFF OFF JISPLAY 5 OFF OFF OFF OFF OFF 6 OFF OFF OFF OFF OFF OFF			RECORD	ALARM	BUZZER	PRESET	E-MAIL
SYSTEM 3 OFF OFF <td>VIDEO LOSS</td> <td>1</td> <td>OFF</td> <td>OFF</td> <td>OFF</td> <td>OFF</td> <td>OFF</td>	VIDEO LOSS	1	OFF	OFF	OFF	OFF	OFF
DISPLAY 3 OFF OFF </td <td></td> <td>2</td> <td>OFF</td> <td>OFF</td> <td>OFF</td> <td>OFF</td> <td>OFF</td>		2	OFF	OFF	OFF	OFF	OFF
DISPLAY 5 OFF OFF OFF OFF OFF OFF 6 OFF OFF OFF O	SYSTEM	3	OFF	OFF	OFF	OFF	OFF
6 OFF OFF OFF OFF OFF		4	OFF	OFF	OFF	OFF	OFF
	DISPLAY	5	OFF	OFF	OFF	OFF	OFF
7 OFF OFF OFF OFF OFF		6	OFF	OFF	OFF	OFF	OFF
		7	OFF	OFF	OFF	OFF	OFF

[ACTION]

- **RECORD** : Select the channel for record.
- ALARM : Select On/Off for alarm.
- BUZZER : Select On/Off for buzzer.
- PRESET : Set the preset number.

(When motion is triggered, the PTZ camera move to the set preset number position)

• E-MAIL : Select On/Off for e-mail notification.

5.3.3 VIDEO LOSS

MOTION		ACTION
ALARM IN		
	CAMERA	ACTIVE+
VIDEO LOSS	1	OFF
	2	OFF
SYSTEM	3	OFF
	4	OFF
DISPLAY	5	OFF
	6	OFF
	7	OFF

<u>TIP:</u> <u>If select the ACTIVE+ menu,</u> <u>can change all setting at once.</u>

[INPUT]

• ACTIVE : Select On/Off to activate.

ΜΟΤΙΟΝ		INPUT	АСТ	ION		
ALARM IN						
		RECORD	ALARM	BUZZER	PRESET	E-MAIL
VIDEO LOSS	1	OFF	OFF	OFF	OFF	OFF
	2	OFF	OFF	OFF	OFF	OFF
SYSTEM	3	OFF	OFF	OFF	OFF	OFF
	4	OFF	OFF	OFF	OFF	OFF
DISPLAY	5	OFF	OFF	OFF	OFF	OFF
	6	OFF	OFF	OFF	OFF	OFF
	7	OFF	OFF	OFF	OFF	OFF

[ACTION]

- **RECORD** : Select On/Off for record.
- ALARM : Select On/Off for alarm.
- BUZZER : Select On/Off for buzzer.
- **PRESET** : Set the preset number.

(When motion is triggered, the PTZ camera move to the set preset number position)

• E-MAIL : Select On/Off for e-mail notification.

5.3.4 SYSTEM

	M SETUP				
MOTION	WARNING	DISK	E-N	IAIL	
ALARM IN	CHECK INTERVAL		1 HC	DUR	
	DISK WARNING		POF		
VIDEO LOSS	ALARM WARNING		 OF		
SYSTEM	THRESHOLD		54	c	
DISPLAY	CURRENT TEMP		38	c	
DISPLAT					
	FAN SPEED WAR	NING	POPUP		
	THRESHOLD		1500 RPM		
	CURRENT SPEED		6120 RPM		
			 	×	

[WARNING]

- CHECK INTERVAL : Select the check interval time. (Select 1 hour to 24 hour)
- DISK WARNING : Select the option for smart warning. (POPUP + BUZZER / POPUP / OFF)
- ALARM WARNING : Select the alarm out channel for Alarm warning.
- THRESHOLD : Select the warning temperature. (C: 0 to 100 / F : 32 to 212)
- CURRENT TEMP : Display current temperature.
- FAN SPEED WARNING : Select the option for smart warning. (POPUP + BUZZER / POPUP / OFF).
- THRESHOLD : Select the RPM speed.
- CURRENT SPEED : Display current RPM.

MOTION	WARNING	DISK	E-MAIL
Morrish			
ALARM IN			
VIDEO LOSS	DISK FULL WARNIN	G	ON
_	USED SPACE		90 %
SYSTEM	ALARM		1
	BUZZER		ON
DISPLAY	MESSAGE		ON

[DISK]

• DISK FULL WARNING : Select On/Off to disk full warning.

- USED SPACE : Select the used space for warning.
- ALARM : Select the alarm out channel for the USED SPCE warning.
- BUZZER : Select On/Off for the USED SPCE warning
- MESSAGE : Select On/Off for message.

SYSTE	MSETUP			_	
MOTION	WARNING	DISK	E-MAIL		
ALARM IN					
VIDEO LOSS	POWER		OFF		
	MENU		OFF		
SYSTEM	LOGIN FAIL		OFF		
	DISK FULL		OFF		
DISPLAY	LOG IN		OFF		
	S.M.A.R.T.		OFF	\bigcup	
			× ×		

[MAIL] – Select option for e-mail notification and set On/Off.

POWER / MENU / LOGIN FAIL / DISK FULL / LOG IN / SMART

5.3.5 DISPLAY

DISPLA	Y SETUP	
MOTION		
	CAMERA	DISPLAY+
ALARM IN	1	2 SEC
VIDEO LOSS	2	2 SEC 🗮
	3	2 SEC
SYSTEM	4	2 SEC
	5	2 SEC
DISPLAY		
	EVENT ICON	ON
	EVENT POPUP	OFF
		× ×

- **DISPLAY** : Select display time by second. (Select 0 to 100)
- EVENT ICON : Select On/Off to display event icon.
- EVENT POPUP : Select On/Off to pop-up.

5.4 RECORD SETUP

In this menu, there are Resolution, Schedule, Record, Audio, Manual, Filter setup.

Select the [RECORD] menu.



5.4.1 SCHEDULE

s s	CHED	ULE SETUP				
SCHED	JLE					
RECO	RD		E	TYPICAL		
EVEN	т					
AUDI	o	DAY TIME	FROM DAY TIME 06:00:0		то 18:00:00	
MANU	AL	WEEKEND	SAT		SUN	
				~	×	

• SETUP MODE : Select the record schedule. (TYPICAL / CUSTOM)

[TYPICAL]

- DAY TIME : Select the day time. (The night time is changed automatically according to the day time zone)
- WEEKEND : Set the weekend zone.

[CUSTOM]

• Set 3 different recording setup by day and time. (REC0, REC1, REC2)

This is related with [RECORD] menu so [CUSTOM] mode should be matched with [RECORD] menu.

<u>TIP : For REC0, REC1, REC2</u> recording, change the setting [SETUP MODE] to [TYPICAL] and enter to <u>the [RECORD] menu then change the setting.</u>

SCHED	ULE SE	TU	IP														
SCHEDULE																	
RECORD		SE	TUP	Р МО	DDE							CUS	STO	M			\supset
		0		3		6		9		12		15		18		21	
EVENT	SUN													Ш			
	MON TUE	Н	+	₩	+	H	╉	+	Н	+		+		⊢⊢	Н		
AUDIO	WED			\square			П	1	П					П	П		
MANUAL	THU FRI	Н	╈	H	+	H	╂	+	Н	+		+	+	⊢⊢	Н	+	
	SAT			Ħ										Ħ			
	HOL			<u> </u>		Ш									-		
			R	REC1			R	EC2			R	EC3			N	ONE	:
										•	/				×	3	

[CUSTOM selected screen]

5.4.2 RECORD

SCHEDULE	DAY	NIGHT W	IEEKEND
RECORD	CAMERA	TIME+	EVENT+
EVENT	1	15, HIGH	15, HIGH
	2	15, HIGH	15, HIGH
AUDIO	3	15, HIGH	15, HIGH
	4	15, HIGH	15, HIGH
MANUAL	5	15, HIGH	15, HIGH
	6	15, HIGH	15, HIGH
	7	15, HIGH	15, HIGH

[DAY] / [NIGHT] / [WEEKEND]

- TIME : Set the recording frame and resolution by channel.
- EVENT : Set the event recording. (Frame / Resolution / Post recording time [5 to 100 second])

TIP : The frame can be set by the direction button in setup screen.

If set to [CUSTOM] in [SCHEDULE] menu, the DAY / NIGHT / WEEKEND menu will be changed to REC0/ REC1 / REC2. Also set the frame and resolution.

SCHEDULE	REC 1	REC 2	REC 3	
RECORD				
RECORD	CAMERA	TIME+	EVENT+	
EVENT	1	15, HIGH	15, HIGH 🔷	
	2	15, HIGH	15, HIGH	
AUDIO	3	15, HIGH	15, HIGH	
	4	15, HIGH	15, HIGH	
MANUAL	5	15, HIGH	15, HIGH	
	6	15, HIGH	15, HIGH	
	7	15, HIGH	15, HIGH 🔽	

RECORD] screen after select [CUSTOM] menu

5.4.3 EVENT

SCHEDULE			
	CAMERA	PRE RECORD+	POST RECORD+
RECORD	1	3 SEC	3 SEC
EVENT	2	3 SEC	3 SEC
	3	3 SEC	3 SEC
AUDIO	4	3 SEC	3 SEC
	5	3 SEC	3 SEC
MANUAL	6	3 SEC	3 SEC
	7	3 SEC	3 SEC
	8	3 SEC	3 SEC
			· · · · · · ·

• EVENT : Select the Pre recording time and Post recording time.

TIP: If select the RECORD+ menu, can change all setting at once.

5.4.4 AUDIO

AUDIO	RECORD SETUP		
SCHEDULE			
RECORD			
EVENT	AUDIO	CAMERA	RECORD+
	1	1	OFF
AUDIO	2	2	OFF
	3	3	OFF
MANUAL	4	4	OFF
		~	×

• AUDIO : Select On/Off for audio recording by each channel.

5.4.5 MANUAL

MANUA	LRECC	RD SET	UP		
SCHEDULE					
	САМ	FPS+	QUALITY+	AUDIO+	
RECORD	1	15	HIGH	OFF 📤	
EVENT	2	15	HIGH	OFF	
	3	15	HIGH	OFF =	
AUDIO	4	15	HIGH	OFF	
	5	15	HIGH	OFF	
MANUAL	6	15	HIGH	OFF	
	7	15	HIGH	OFF	
	8	15	HIGH	OFF 🔽	
			~	×	

Manual Recording is same as Panic recording.

This function can be worked by the [REC] button on Remote controller or Front panel.

- SPEED : Select the recording frame by each channel.
- Quality : Select the resolution by each channel.
- AUDIO : Select On/Off for audio recording by each channel.

5.5 ETHERNET SETUP

In this menu, there are Network, Serial, DDNS, E-mail setup.

Select the [ETHERNET] menu.



5.5.1 NETWORK

	ORK SETUP			
NETWORK	ETHERNET CLIENT			
SERIAL				
	DYNAMIC IP HOST NAME	ON		
DDNS	IP ADDRESS	192.168.1.21		
E-MAIL	SUBNET MASK	255.255.255.0		
	GATEWAY	192.168.1.1		
NET FRAME	DNS SERVER	192.168.1.1		
		START		
		✓×		

[ETHERNET]

• DYNAMIC IP : Select On/Off for dynamic IP.

If Dynamic IP is OFF, DVR get IP address from router automatically.

- HOST NAME : Type any Host name.
- IP ADDRESS : Type IP address. (Available when DYNAMIC IP is OFF)
- SUBNET MASK : Type Subnet mask. (Available when DYNAMIC IP is OFF)
- GATEWAY : Type Gateway. (Available when DYNAMIC IP is OFF)
- DNS SERVER : Type DNS server. (Available when DYNAMIC IP is OFF)
- CHECK INTERNET : Check internet status for use.

5.5.1 NETWORK

NETWORK	ETHERNET CLIENT					
SERIAL	CLIENT ACCESS	ALL				
SERIAL	BEGIN ADDRESS	END AD	END ADDRESS			
DDNS	0.0.0.0	0.0.	0.0.0.0			
	0.0.0.0	0.0.0.0				
E-MAIL	0.0.0.0	0.0.0.0				
NET FRAME	SMS PORT (TCP)	7000				
	WEB PORT (TCP)	ON	80			
	REMOTE RESTART	OFF				
	REMOTE CONFIG	ON				

[CLIENT]

- CLIENT ACCESS : Select client access options. (ALL / RANGE)
- BEGIN ADDRESS / END ADDRESS (When select RANGE option, type the IP address to accept)
 - : Input the acceptable IP address.
- SMS PORT (TCP) : Select SMS port.
- WEB PORT (TCP) : Select Web port.
- **REMOTE RESTART :** Select On/Off to restart DVR at remote.
- **REMOTE CONFIG** : Select On/Off to change configuration.

5.5.2 SERIAL

SERIAL	SETUP				
NETWORK					
OFRIAL	RS-232 INPUT SETUP				
SERIAL	SERIAL TYPE	NONE			
DDNS	MODEL	NONE			
	PORT 9600-8N1				
E-MAIL					
	RS-485 INPUT SETUP				
NET FRAME	SERIAL TYPE	NONE			
	MODEL	NONE			
	PORT	9600-8N1			
		× ×			

[RS-232 INPUT SETUP]

- SERIAL TYPE : Select external device.
- MODEL : Select the protocol to use.
- PORT : Select the Baud Rate / DATA bit / Parity / Stop Bit.

[RS-485 INPUT SETUP]

- SERIAL TYPE : Select external device.
- MODEL : Select the protocol to use.
- PORT : Select the Baud Rate / DATA bit / Parity / Stop Bit.

5.5.3 DDNS

DDNS SETUP						
NETWORK						
SERIAL		ddnsdvr.	com			
DDNS		-				
	HOST NAME	test.ddnsdv	r.com			
E-MAIL	USER NAME	test				
	PASSWORD	****				
NET FRAME	ROUTER IP	OFF				
	STATUS	UNCHECKED	СНЕСК			

- DDNS SERVER : Select DDNS server. (Ddnsdvr.com / Dyndns.com / ChangelP.com)
- HOST NAME : Input the host name from the registered on DDNS server.
- USER NAME : Input the user name from the registered on DDNS server.
- PASSWORD : Input the password from the registered on DDNS server.
- **ROUTHER IP** : Select On/Off for sending IP information to the DDNS server.
 - If use any router, this setting should be [ON].
- STATUS : Check the connection status.

<u>NOTE : For using DDNS server, firstly connect the DDNS server and register Host name, User name</u> <u>password then input those information on above menu.</u>

Example for DDNSDVR

- a. In web browser, visit www.ddnsdvr.com
- b. Click the [New Account] menu on the left menu.
- c. Input the User / Email / Password that user wants.
- d. Click the [Log In] menu on the left menu and log in by the created new account.
- e. Click the [New hostnames] and make new host name.

→ In DVR menu, should be inputted full host name such as [peterlim-astel.ddnsdvr.com]

f. Click the [List hostnames] and check the created hostname.

5.5.4 E-MAIL

E-MAIL SETUP						
NETWORK	ADI	DRESS	SERVE	R		
SERIAL	SEND	MAIL	SCHEDULE	FROM	то	
SERIAL	0	FF	ON	00:00:00	23:59:59	
DDNS						
	NO.	NO. E-MAIL ADDRESS				
E-MAIL	1	1				
	2					
NET FRAME	3					
	4					
	5					
	6					
				•	×	

[ADDRESS]

- SEND E-MAIL : Select On/Off for use.
- SCHEDULE : Set the usage time. (From : Start time / To : End time)
- E-MAIL ADDRESS : Input the E-mail address to receive.

X	E-MAIL	SETUP	
	NETWORK	ADDRESS	SERVER
	SERIAL	MAIL SERVER	SMTP SERVER
	DDNS	E-MAIL	email@ddnsdvr.com
		PASSWORD	****
	E-MAIL		
	NET FRAME	SMTP SERVER	ddnsdvr.com
		SMTP PORT	25
		MAIL TEST	SEND
C			
			× ×

[SERVER]

- MAIL SERVER : Select the mail server. (SMTP server / DVR System)
- E-MAIL : Input the user e-mail address.
- **PASSWORD** : Input the Login password.
- SMTP SERVER : Input the server address.
- SMTP PORT : Input the server port.
- MAIL TEST : Send test mail.

5.5.5 NET FRAME

NETWORK			
050141	САМ	FPS+	QUALITY+
SERIAL	1	7.5	LOW
DDNS	2	7.5	LOW
	3	7.5	LOW
E-MAIL	4	7.5	LOW
	5	7.5	LOW
NET FRAME	6	7.5	LOW
	7	7.5	LOW
	8	7.5	LOW
			•

- FPS : Select the frame for the network transmission.
- **QUALITY** : Select the image quality for the network transmission.

5.6 SYSTEM SETUP

In this menu, there are System Log, Status, Version.

Select the [SYSTEM] menu.



5.6.1 SYSTEM LOG

SYSTE	MLOG		
SYSTEM LOG			
STATUS	(04/'	18 ~ 04/19
	NO.	DATE	SYSTEM LOG
VERSION	0108	04/19 01:26:24	Schedule Changed
	0107	04/19 01:26:15	Schedule Changed
	0106	04/19 01:23:44	S.M.A.R.T. Error in HDD1
	0105	04/19 01:23:43	HDD-1 SMART CRITICAL Realloc
	0104	04/19 01:18:30	S.M.A.R.T. Error in HDD1
	0103	04/19 01:18:29	HDD-1 SMART CRITICAL Realloc
	0102	04/19 01:13:16	Login Success(ID:root)
			×

- Check the system log by the left, right direction button.

5.6.2 STATUS

STATU	S			
SYSTEM LOG	DISK	RECORD	AUDIO	
STATUS	EARLIEST RECO	DRD	01/11/2013 19:	30:20
VERSION	LATEST RECOR	D	01/15/2013 16:40:13	
	DISK CAPACITY		78 GB	
	USED SPACE		5GB (7%)	
	AVAILABLE SPA	ACE	73 GB (93%	6)
		E	ENABLE	
		HDD INFO	RMATION	
				×

[DISK]

- Display HDD Status.
- HDD INFORMATION : Display the HDD status.
 - : DVR check the HDD bad sector automatically and if there is bad sector, skip the bad sector then record continuously.

HDD INF	HDD INFORMATION					
NO.	SIZE	BAD SECTOR	TEMP.	S.M.A.R.T		
HDD1	78GB	0 / 67	46 C	GOOD		
HDD2	-	-	-			
HDD1						
				×		

5.6.2 STATUS

SYSTEM LOG	DI	SK REG	CORD	опа
STATUS		SCHEDULE	R	EC 1
	САМ	RESOLUTION	TIME	EVENT
VERSION	1	STD(CIF)	15, HIGH	15, HIGH
	2	STD(CIF)	15, HIGH	15, HIGH
	3	STD(CIF)	15, HIGH	15, HIGH
	4	STD(CIF)	15, HIGH	15, HIGH
	5	STD(CIF)	15, HIGH	15, HIGH
	6	STD(CIF)	15, HIGH	15, HIGH
	7	STD(CIF)	15, HIGH	15, HIGH

[RECORD]

Display RECORD Status.

D STATU	9			
SYSTEM LOG	DISK	RECORD	AUDIO	
STATUS	CAME	RA	RECORD	
VERSION	1		OFF	
	2		OFF	
	3		OFF	
	4		OFF	
	5		OFF	
	6		OFF	
	7		OFF	
				×

[AUDIO]

Display AUDIO Status.

5.6.3 VERSION

VERSIC) N	
SYSTEM LOG		
074700	DVR PROGRAM	0.00.00.01
STATUS	PRODUCT. DATE	Apr 19 2013, 10:52
VERSION	VIDEO CODEC	101112.0
	VIDEO	VIDEO 16CH CIF-480FPS
	AUDIO	AUDIO 4CH
	VIDEO FORMAT	NTSC
	MAC ADDRESS	00:19:19:02:43:91
		*

• Display DVR version and information.

5.6.4 UPGRADE

UPGRA	DE		
SYSTEM LOG			
STATUS	ТҮРЕ	MEDIA	\supset
VERSION	DEVICE	NONE	
UPGRADE		dvr_upgrade_*	
	CONFIRM	ON	
	UPGRADE	START	
		• TART	
			×

- **TYPE** : Select the upgrade type. (FTP or Media)
- DEVICE : Select the device which have upgrade firmware file. (DVD / USB)
- **CONFIRM** : Select On/Off for upgrade confirm message.
- UPGRADE : Start upgrade.

6. SEARCH

On the Top menu, select the [SEARCH] menu.



After select the menu, the following Log-in window will be appeared.

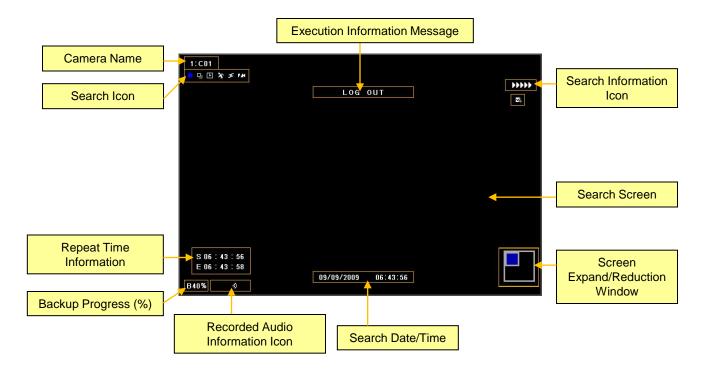
L	OGIN						
		ID			root		
		PASSWORI	D	****			
	0	1	2	3	4		
	5	6	7	8	9		
	× ×						

Enter the password by the key buttons and press the ENTER button. (The default password : 1111)



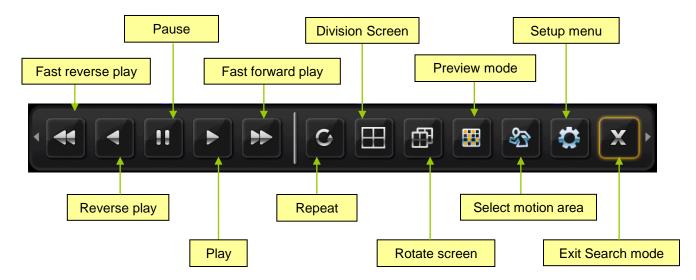
- QUICK SEARCH : Search by date, hour, minutes in detail.
- CALENDAR : Search by date and time with Calendar.
- EVENT SERARCH : Search by event
- OVERLAPPED LIST : Search the overlapped data by changing time
- MUSEUM SEARCH : Search by the selected area.
- GO TO FIRST : Search with initial saved data.
- GO TO LAST : Search with the latest saved data.

6.1 Search Screen Configuration



6.1.1 Search Menu

When mouse cursor is placed over on the bottom side, the Search menu is appeared.



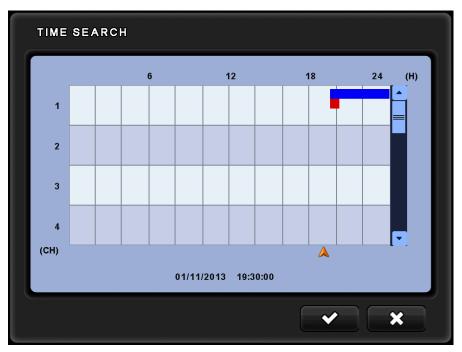
* As in the live screen, the top menu can be used in the search screen.

6.1.2 CALENDAR SEARCH

CALENDAR							
				2013 / 1			
	SUN	MON	TUE	WED	THU	FRI	SAT
			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	31		
							×

a. Select the data by the direction button.

- Recorded data is displayed the orange color.



b. Select the time by the direction button.

- After select hour, minutes will be appeared.

<u>NOTE: The time graph color is different by the recording mode.</u> <u>Continuous Recording = Blue, Audio Recording = Light Blue, Event Recording = Red.</u>

6.1.3 EVENT SEARCH

EVENT SEARCH					
EARLIEST RECORD	01/11/2013 19:30:20				
LATEST RECORD	01/15/2013 16:40:13				
DATE	01/11/2013				
MOTION	ON				
ALARM IN	ON				
VIDEO LOSS	ON				
SELECT CAMERA	ON				
VIEW SEARCH LOG					
×					

- DATA : Select Date to search.
- MOTION : Select On/Off event for search.
- ALARM IN : Select On/Off event for search.
- VIDEO LOSS : Select On/Off event for search.
- SELECT CAMERA : Select the camera for search.
- VIEW SEARCH LOG : Display selected event log.

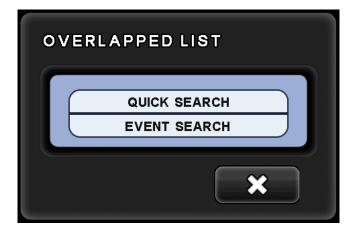
EVENT SEARCH RESULT						
NO.	TIME	DST	CAMERA	EVENT		
52	01/11/2013 20:10:00		1	MOTION		
51	01/11/2013 20:09:12		1	MOTION		
50	01/11/2013 20:08:15		2	VIDEO LOSS		
49	01/11/2013 20:07:38		1	MOTION		
48	01/11/2013 20:07:30		2	VIDEO LOSS		
47	01/11/2013 20:07:30		1	MOTION		
46	01/11/2013 20:07:20		2	VIDEO LOSS		
45	01/11/2013 20:07:20		1	MOTION		
44	01/11/2013 20:07:13		2	VIDEO LOSS		
O - 20 HOUR PREV NEXT GOTO						
				*		

- HOUR : Select time period to see.
- **PREV** : Display previous page.
- NEXT : Display next page.
- GOTO : Display the image by selected event.

6.1.4 OVERLAPPED LIST

0	VERL	APPED LIST		
	NO.	FROM	то	DEL+
	1	04/05/13 19:24:01	04/04/13 19:24:01	DEL
	2	04/04/13 19:24:41	01/14/13 19:24:41	DEL
				×

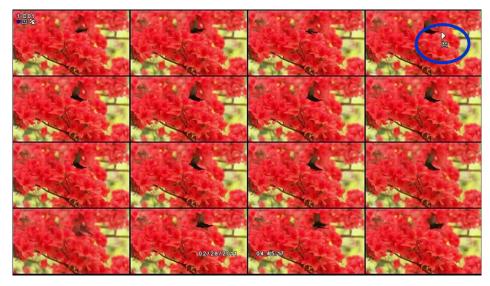
• If user change the time or applied DST (Daylight Saving Time), there will be overlapped data.



• After select the list, if select the [PLAY] button, can search [QUICK SEARCH] or [EVENT SEARCH].

6.1.5 PANORAMA SEARCH

- During normal search, press the [PANORAMA] button.
- By mouse, click the right mouse button and click the [PANORAMA] Search.
- Playback with frame by frame.



6.1.6 SECTION REPEAT SEARCH

• During normal search, press the [LOCK] button or Click the below red circle button by mouse. When press one time, the start position is set, press one more time, the end position is set.



• In search screen, display the following mark.



6.1.7 MUSEUM SEARCH

• Select [MUSEUM SEARCH] menu by cameo function or playback bottom menu.





• Select the Museum search area.



6.1.7 MUSEUM SEARCH

• Select the Start time and End time to search then select SEARCH button.

(START TIME	04/	18/2013	09:00:16
	END TIME	04/	18/2013	10:00:16
ĺ	CAMERA	1		
(AREA	AREA SET		IT J
(SEARCH		c	LOSE
(E>	ат	



- By playback bottom menu, displayed event list.



PR	PREVIEW LIST (MUSEUM)						
Γ	NO.	TIME					
	1	01/14/2013 18:25:15					
	2	01/14/2013 18:25:25					
	3	01/14/2013 18:26:19					
	4	01/14/2013 18:26:29					
	5	01/14/2013 18:26:39					
	6	01/14/2013 18:26:51					
	7	01/14/2013 18:27:46					
	8	01/14/2013 18:28:07					
	9	01/14/2013 18:28:17					
	10	01/14/2013 18:28:27					
		PREVIEW					
0	_						

- Select the event then playback with selected event.

***** Button Explanation in Search mode

Remote Controller or Front button

Button	Explanation	
SEARCH	Display the [SEARCH] menu.	
ESC	Cancel the Search mode or return to the live screen.	
ENTER	Select the CAMEO menu.	
FAST REVERSE	ST REVERSE When reverse play, up and down play speed.	
FAST FORWARD When forward play, up and down play speed.		
PAUSE Pause the playback.		
FORWARD PLAY	Playback the data.	
REVEERSE PLAY Reverse Play the data.		
DISPLAY	Display division screen. (1,4,9,16)	

7. BACKUP

On the Top menu, select the [BACKUP] menu.



After select the menu, the following Log-in window will be appeared.

L	OGIN					
		ID			root	
	PASSWORD			****		
	0	1	2	3	4	
	5	6	7	8	9	
					~ (×

Enter the password by the key buttons and press the ENTER button. (The default password : 1111)

М	MANUAL BACKUP						
	TARGET	NONE	NONE				
	FROM	01/11/2013	19:30:20				
	то	01/14/2013	19:24:39				
	BACKUP TITLE	backup					
	SELECT CAMERA	ON					
	EARLIEST RECORD	01/11/201	3 19:30:20				
	LATEST RECORD	01/14/201	3 19:24:39				
	REQUIRE SPACE	ESTIMATE	0.00MB				
		WRITE					
×							

- TARGET : Select the device to backup. (USB / DVD)
- **FROM** : Select the start date and time.
- TO : Select the end date and time.
- BACKUP TITLE : Type any title.
- SELECT CAMERA : Select the camera for backup
- EARLIEST RECORD : Display the earliest record.
- LATEST RECORD : Display the earliest record.
- **REQUIRE SPACE** : Display the data capacity for selected data.
- WRITE : Start the backup.

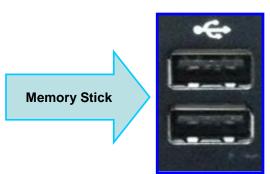
7.1 Play with backup data



- After backup, the DVR Player is copied with data.
- Backup data only can be played on DVR Player at PC.
- Can export to JPEG still shot.

8. APPENDIX

8.1 Firmware Upgrade



- Copy the firmware on USB and connect on the USB port.
- 2 For upgrade, restart the DVR.

DVR UPGRADE 1.0	
F/W VER. : 2.0.0.3	
MEDIA : USB	
PRESS-START BUTTON	
	1 ×

DVR	UPGRADE 1.0	
	DVR UPGRADE 1.0	
	UPGRADE S REMOVE	

DVR UPGRADE	1.0	
	UPGRADE COMPLETED	
		1

(3) After restart, when upgrade window is appeared, select the START button. \checkmark

(5) After upgrade, remove the USB and select OK button.

Then DVR is restarted. \checkmark

If select OK button without removing USB,
 DVR upgrade is started again after restart.

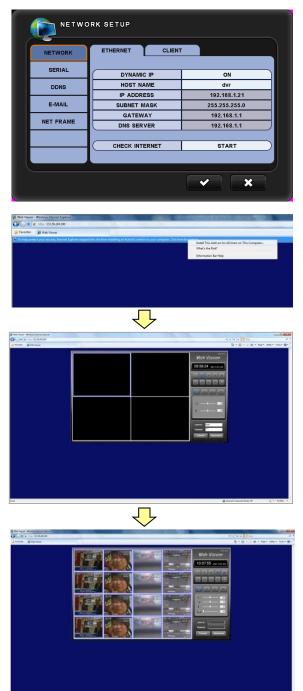
6 After restart DVR, can check that upgrade is finished.

8. APPENDIX

8.2 Web Client

*** How to connect**

For using web connection through internet, 7000 and 80 ports should be set as port forwarding at the Router.



- 1. To connect Web viewer, the [Ethernet] setup on DVR is required firstly.
- 2. Input the IP address or Domain name of DVR
- <u>http://210.58.xx.xx.</u>
- <u>http://test.ddnsdvr.com</u>
- In case of other Web port, input the address as http://test.ddnsdvr.com:XXXX

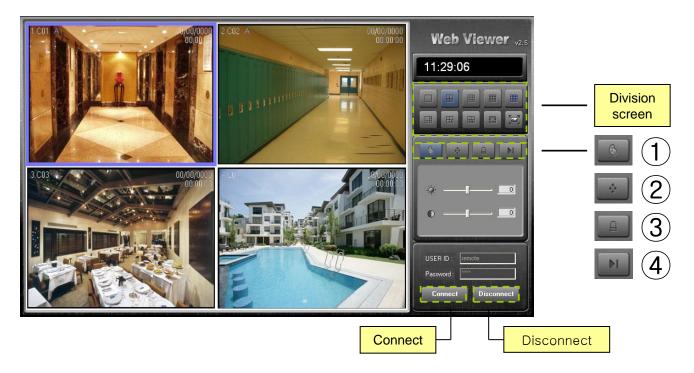
 ('XXXX' is assigned web port number)
- 3. User Have to allow download ActiveX

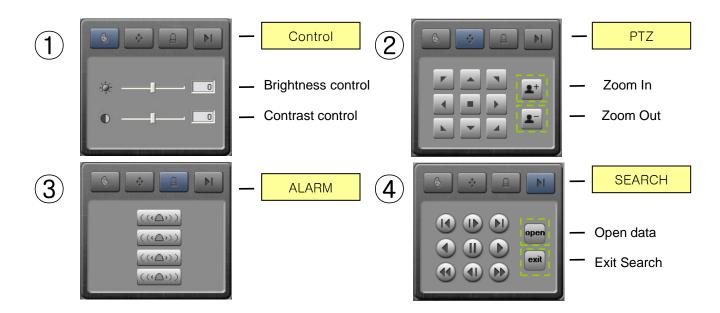
* In case of Windows not allow to download the ActiveX, Go to the Security Tab on IE and check all ActiveX to Enable.

4. Install the ActiveX

5. Input ID & Password then click the Connect button.

8.2.1 Web viewer Functions





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8. APPENDIX

8.3 Trouble Shooting

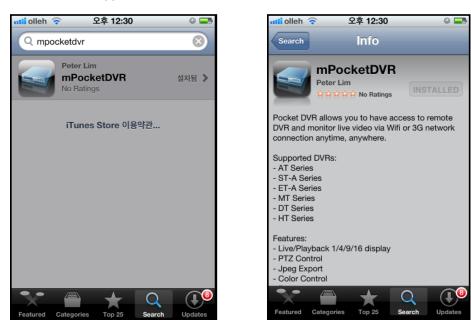
SYMPTOM	MEASURES			
No Power	If the power LED is not lighted, check the below items. - Check the power plug and outlet. (Refer to the [Cautions for safety] - Connect the power cord to the power connector of DVR properly.			
No camera image	 Connect the camera cable to the DVR port properly. Check the connected monitor cable with DVR. (Refer to the [Rear Panel Configuration]) Check the camera power and lens setting. As this may be caused by a temporary error, restart DVR. As camera setting may be wrong, initialize the camera and DVR. * How to initialize DVR 1. Main Menu > Configuration > Default Load > O.K > O.K !! Caution: After DVR initialization, DVR setting is returned factory default. Need to backup the configuration before initialize DVR. 			
Not work mouse	 USB mouse should be supported PS/2. Check the PS/2 support. Mouse should be connected on port (B) properly. (Refer to the [Front Panel Configuration]) Reset the USB Mouse. (Set on [System Manager]) 			
Not record on DVR	If the recording LED does not flicker, check the below items. - HDD should have enough space otherwise could not be recorded. - Delete data in HDD or change the [HDD OVERWRITE] setting to [ON]. (Refer to the [GENEL Setup] – [HDD OVERWRITE]) - Replace the HDD because the HDD may be failed. - Check the recording setup.			
Not connected Network	If the network LED does not flicker, check the below items. - Check the connected hub or router. - Check the network cable and connection. - Check the network setup.			

Not work remote controller	 Check the battery polarity. Check the remote controller ID. (Refer to the [Remote Controller Configuration]) Focus on the remote controller to the IR sensor. Use the remote controller within 7 meters from DVR. Change the battery. 			
No sound in live view	 Check the mike and audio cable with DVR port. (Refer to the [Real Panel Configuration]) Check the speaker power which is connected on Audio port. Turn on the Audio in the CAMEO menu. (Select the channel which is connected Audio and turn on. * CAMEO menu will be appear when click the right button of mouse. 			
No sound in search	 Set to [Audio] - [ON]. (If set to [OFF], sound is not heard during search.) Although the record icon is lighted, if there is no audio input, sound is not heard. * Audio record can be changed [Main Menu] > [Record Setup]. 			
Not work smart search	 For smart search, event record should be set. If event record is not set, when select the smart search, return to the live screen from search mode. 			

8. APPENDIX

8.4 Mobile Viewer (Apple & Android)

- -. Download the [mpocketdvr] on App store. (Free software)
- -. Download the [pocketdvr] on Android market. (Free software)
- -. How to use two apps are the same.



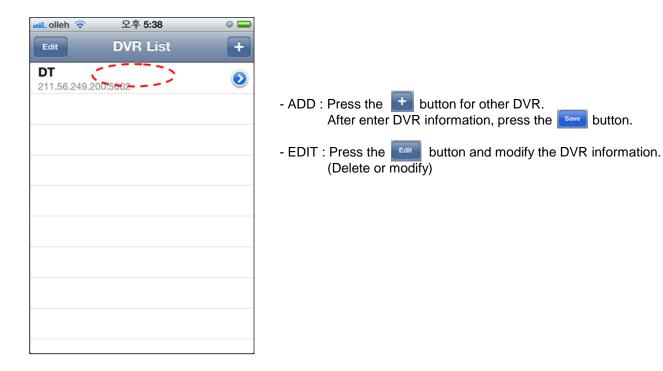
- Execute the [mpocketdvr or pocketdvr] then appears the below screen. Press the [+] button and move to next step.

ntil olleh 🔶	오후 5:36	~ =
Edit	DVR List	_(+)
		·

-. Enter the DVR information for connection.

📶 olleh ᅙ	오후 5:36	0 🛋]	📶 olleh 📀	오후 5:35	0 🛥
Cancel	Add	Save		Cancel	Edit	Save
Host Info				Host Info		
Name				Name	DT	
Address			۱	Address	211.56.249.200	
Port			$ \square \rangle$	Port	5002	
User Info				User Info		
User				User	remote	
Pass				Pass	1111	
]			

- After enter the DVR information, press the Save button.
- On the DVR list, press the below red circle area then connections is started.



- Support 1,2,8,16 split screen.
- By the screen touch, change 1 screen or multi screen.
- Horizontal view, Vertical view are supported.



- Done : Exit application.
- : Playback by date / time. After select date and time, press the button for playback. : Return to live mode.





- Explanation of each button.



Image capture

: In 1 screen mode, save JPEG image by this button.



Pause

: In live view, image is paused by this button.



Paused Icon

: Press this button again, Pause is stopped by this button.



Screen Split

: Change to 2,8, 16 split screen by this button. For 1 screen view, double touch on the channel.



PTZ

: Control PTZ camera by this button. Camera position is changed by the direction mark.

