

## Digital Video Recorder

# **USER'S MANUAL**



# 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 (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 SAFEGUARDS**

	· · · · · · · · · · · · · · · · · · ·
<ul> <li>2. Retain Instructions</li> <li>The safety and operating instructions should be retained for future reference.</li> <li>3. Cleaning</li> <li>Unplug this equipment from the wall outlet before cleaning it. Do not Use liquid aerosol cleaners. Use a damp soft cloth for cleaning.</li> <li>4. Attachments</li> <li>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.</li> <li>5. Water and/or Moisture</li> <li>Do not use this equipment near water or in contact with water.</li> <li>6. Accessories</li> <li>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.</li> <li>7. Power Sources</li> <li>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.</li> <li>8. Power Cords</li> <li>Operator or installer must remove power and TNT connections before handling the equipment.</li> <li>9. Lightning</li> <li>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 wail outlet and disconnect the antenna or cable system. This will prevent damage to the equipment due to lightning and power-line surges.</li> <li>10. Overload wall outlets and extension cords as this can result in the risk of fire or electric shock.</li> <li>11. Objects and Liquids</li> <li>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.</li> <li>12. Servicing</li> <li>Do not attempt to s</li></ul>	<ul> <li>Warning: Risk of explosion if battery is replaced by an incorrect type.</li> <li>Dispose of used batteries according to the instructions.</li> <li>18. Tmra</li> <li>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.</li> <li>19. Elevated Operating Ambient Temperature If installed in a closed or multi-unit rack assembly, the operating</li> </ul>

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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.



- (6) 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

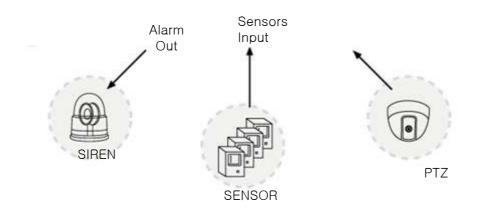
## 2.1 Functions

This DVR provide superior video image quality on Live view and Playback.

- Pentaplex Operation Performance (Live, Recording, Playback, Backup, Network)
- Up to maximum 16 channel composite input ports depending on model.
- 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)
- Overwrite Recording function.
- The DVR menu structure and on screen display is presented in a simple to use and logical GUI format.
- Support 16channel Audio.
- Support Mouse control.
- E-mail function (Alarm, Motion detection, Video loss, HDD fail and 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 • SP-VDP-400 Front



2 x USB IR receiver

### **\* 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 (1 ~ 0)

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

### **FUNCTION** button

Select function in PTZ operation mode.

### LIVE button

Change mode from search or playback mode to live mode.

### ZOOM / IRIS / FOCUS button

Zoom, iris, focus control mode. Press to change modes.

### + / - button

Increase of decrease the zoom, iris, or focus parameter.

### **BACKUP button (PTZ PRESET)**

Enter backup menu. Return to previous screen if this button is pressed again. Back to live mode by pressing "LIVE" button. In PTZ mode, it is used preset function button.

### **SEARCH button (ROTATE)**

Enter search menu. Return to previous screen if this button is pressed again. Back to live mode by pressing "LIVE" button. In function mode, it is used display sequencing function.

### **INSTANT (Key) button**

Start recording when this button is pressed in live mode. In function mode, it is used to button lock function.

#### **SETUP** button

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

### **PANO-RAMA** button

In playback mode, it is used to start panorama function.

#### **EXIT** button

Exit setup mode and return to previous screen.

PTZ button

Enter PTZ mode.

### **SMART** button

Start smart search function.

### **REPLAY** button

Start playback function.

### 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.

#### FAST REVERSE PLAY button (PTZ)

#### FAST FORWARD PLAY button (PLAY)

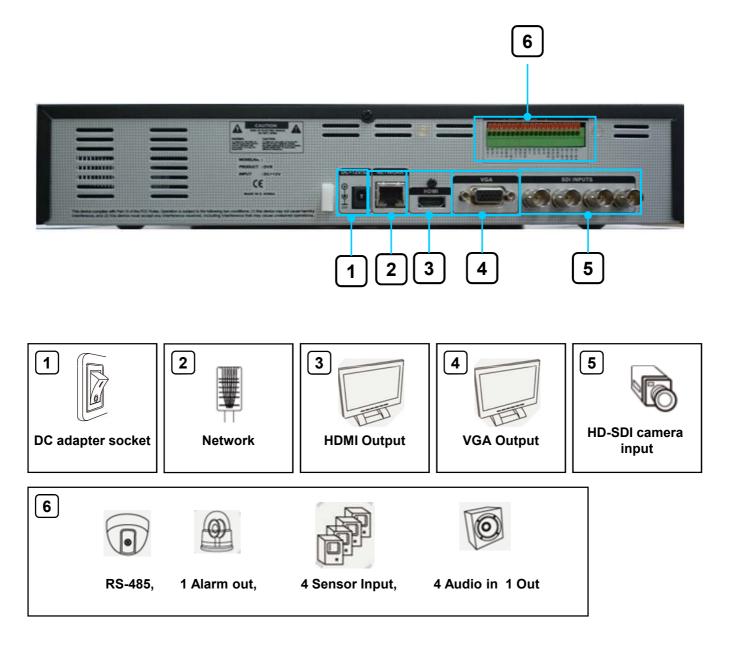
Playback with fast forward. Playback speed is changed if this button is pressed repeatedly.  $(\triangleright, \triangleright \triangleright, \triangleright \triangleright \triangleright, \bullet \triangleright \flat, \bullet \triangleright \flat \bullet \bullet)$ . In PTZ mode, it is used to Zoom in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

#### X USB 2.0 Port

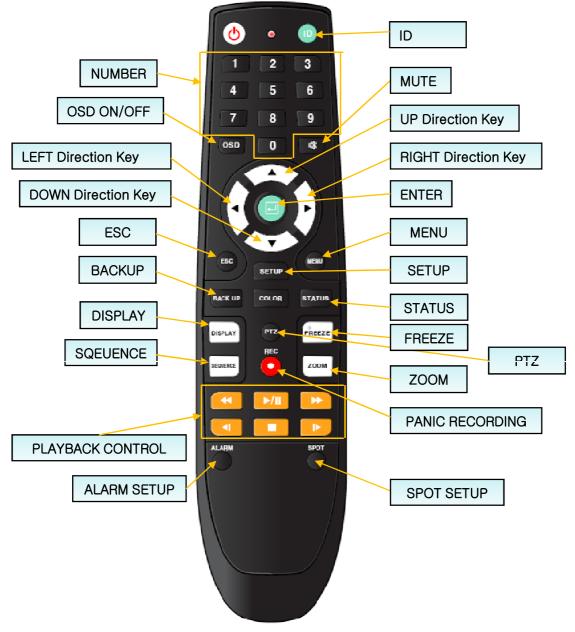
For USB mouse ,firmware upgrade and data backup by inserting USB memory stick with this port.

## 3.2 Rear Panel

SP-VDP-400 rear



## 3.3 Remote Controller

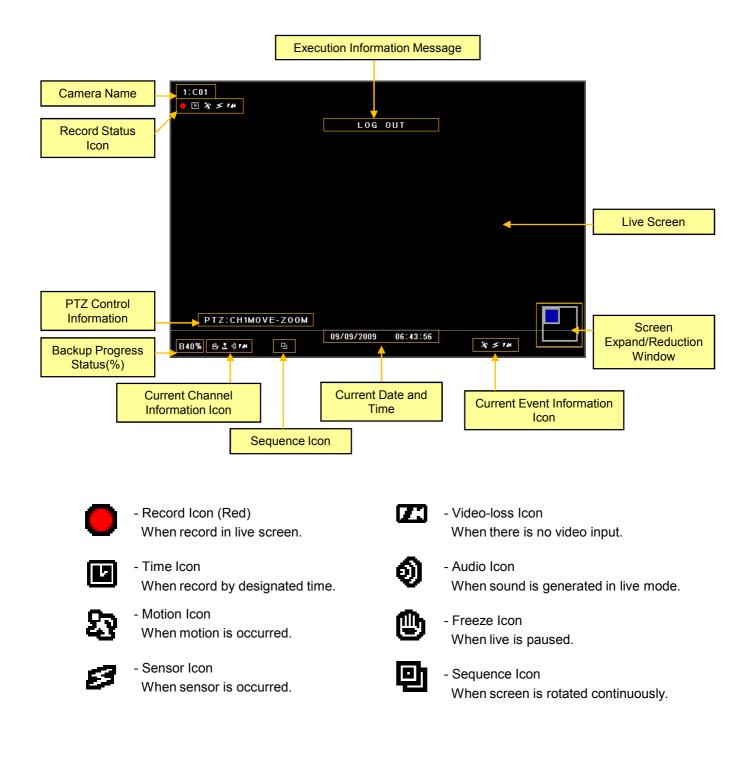


#### **%** How to set ID

- 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



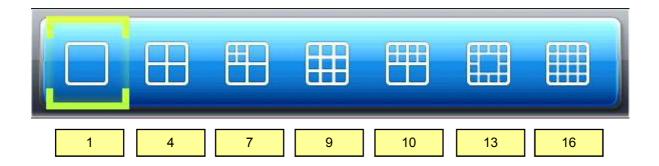
## 4.1.1 Top Menu

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.

C	CAMERA COLOR	
	CAMEO CHANGE	
	PLAYBACK	
	FREEZE	
	FREEZE ALL	
	SEQUENCE	
	PTZ	
	ZOOM X2	
	ZOOM X4	
	AUDIO ON	

• 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.



- 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.

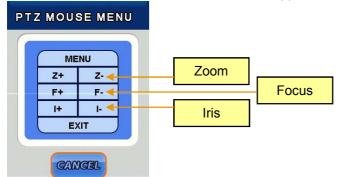


• **PTZ** : PTZ Camera should be installed otherwise the PTZ menu is not activated.

The following picture will be appeared when select PTZ menu.



**\* 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.



- \* 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.



### - 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> of the mouse. As the mouse pointer moves away from the center, speed becomes faster.

#### - PRESET SETUP :

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

#### - PRESET 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 SYSTEM, NETWORK, DEVICE, RECORD and EVENT.

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



After select the icon, the following LOGIN window will be appeared.

	ID		admin		
F	ASSWO	RD			
0	1	2	3	4	
5	6 7 8 9	9			

Enter the password by the key buttons and press the OK button.

(The default password : 1)

## **5.1 SYSTEM SETUP**

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

Select the [SYSTEM] menu.



### 5.1.1 GENERAL

GENERAL	SYSTEM DATE / TI	ME
ALARM OUT		ENGLISH (ENGLISH)
DISK		OFF
DIGIN	UNIT ADDRESS	0
MONITOR	BASE CAMERA NO.	1
		OFF
ACCOUNT	RECORD RETENTION	OFF
CONFIG	BACKUP CONFIRM	OFF
		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.
- RECORD RETENTION : 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

GENERAL	SYSTEM DAT		
ALARM OUT			
DISK	DATE FORMAT	ΥΥΥΥ /	MM / DD
DIOR	TIMEZONE	GMT+09:00	DST OFF
MONITOR	DATE DISPLAY	0	N
	DATE / TIME	2011/12/13	16:49:44
ACCOUNT	NTP	0	N
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

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

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

### 5.1.3 DISK

GENERAL	INS	STALL	CHECK / USB		
	NO.	TYPE	SIZE	STATUS	INSTAL
ALARM OUT	1	HDD	976GB	IDLE	INSTAL
DISK	2	HDD	N/A	N/A	NONE
	3	HDD	N/A	N/A	NONE
MONITOR	4	HDD	N/A	N/A	NONE
	5	HDD	N/A	N/A	NONE
ACCOUNT	6	HDD	N/A	N/A	NONE
	- 7	HDD	N/A	N/A	NONE
CONFIG	8	HDD	N/A	N/A	NONE
	9	HDD	N/A	N/A	NONE
SHUTDOWN	10	HDD	N/A	N/A	NONE

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

**[INSTALL]** - Display initial HDD install and information.

GENERAL	INSTALL CHECK / I	
ALARM OUT	RECORD START TIME	2012/01/02 08:56:54
DISK	RECORD END TIME	2012/01/02 13:41:44
MONITOR		START SET
ACCOUNT	USB FORMAT	SET
CONFIG		
SHUTDOWN		

### [CHECK / USB]

- **RECORD START TIME :** Display the earliest recorded data information.
- **RECORD END TIME :** 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.

### **5.1.4 MONITOR**

GENERAL			
ALARM OUT	-		
DISK	HDMI	192	0x1080i 60Hz
	FILTER		ON
MONITOR	BORDER COLOR		GRAY
	ALPHA BLENDING		0
ACCOUNT	DISPLAY POSITION		▼
CONFIG			
SHUTDOWN			

- HDMI : Select the resolution for connected monitor.
- FILTER :
- **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.)
- DISPLAY POSITON :

NO.	CONTENT		GENERAL		
1	1440x900p 60Hz	-	AL		
2	1280x720p 60Hz		ALPHA B	LENDING	
3	1920x1080p 60Hz				
4	1920x1080i 60Hz		N 0 (		<b>D</b> 20
			A		20
					OK CANCEL
			SHOTDOWN		

[ HDMI selected screen]

[ALPHA BLENDING selected screen]

### 5.1.5 ACCOUNT

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

\* Add / delete any user and give permission freely.

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

When delete user, confirm again.

### NOTE: ( Default ADMIN password is 1), 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.

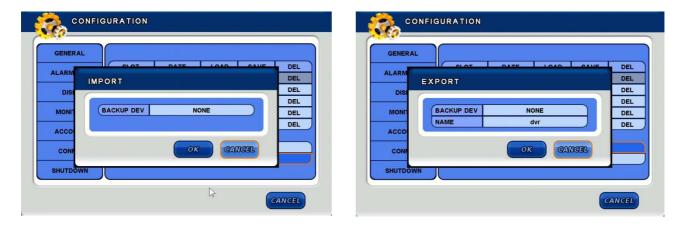
### 5.1.6 CONFIG

GENERAL						
	SLOT	DATE	LO	AD	SAVE	DE
ALARM OUT	DEFAULT	NONE	LO	AD	SAVE	DE
DISK	NONE	NONE	LO	AD	SAVE	DE
	NONE	NONE	LO	AD	SAVE	DE
MONITOR	NONE	NONE	LO	AD	SAVE	DE
	NONE	NONE	LO	AD	SAVE	DE
ACCOUNT						
CONFIG	E	XPORT			START	r i
	1	/IPORT			START	
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.



[IMPORT selected screen]

[EXPORT selected screen]

## 5.1.7 SHUTDOWN

GENERAL		
ALARM OUT		
DISK	RESTART	
MONITOR	SHUTDOWN	
ACCOUNT		
CONFIG		
SHUTDOWN		

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

## **5.2 DEVICE SETUP**

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

Select the [DEVICE] Menu.



### 5.2.1 CAMERA

CAMERA					
	CAM	ERA LABEL	l A	ALL	
PTZ	NIG	HT MODE	AUTO		
SPOT					
	CAM	TITLE	ENABLE +	HIDDEN +	•
SEQUENCE	2	CH02	ON	OFF	
	3	CH03	ON	OFF	
PRIVATE ZONE	4	CH04	ON	OFF	
	5	CH05	ON	OFF	
	6	CH06	ON	OFF	
	7	CH07	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 works correctly.)

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



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	PT	z <u>( P</u>	RESET	
PTZ	CAM	PORT +	ADDRESS	PROTOCOL +
SPOT	1	9600-8N1	1	NONE
GFOT	2	9600-8N1	2	NONE
SEQUENCE	3	9600-8N1	3	NONE
	4	9600-8N1	4	NONE
PRIVATE ZONE	5	9600-8N1	5	NONE
	6	9600-8N1	6	NONE
	7	9600-8N1	7	NONE
			in de lega di	

### [PTZ]

- **PORT** : Select the Baud Rate for using PTZ camera.
- ADDRESS : Select the ID for using PTZ camera.
- **PROTOCOL** : 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 manufacturer.

### 5.2.3 SPOT

CAMERA		
PTZ		HD-SDI / HDMI
SPOT	CAMERA	1
	DEFAULT	1
SEQUENCE	SEQUENCE	OFF
	DWELL	5 SEC
PRIVATE ZONE	POPUP	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.

DWELL : 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.

\* Exception : SVM-2004HDL dose not support SPOT.

SPOT SETUP	SPOT SETUP
CAMERA	CAMERA
SPOT : 1  ALL  1 2 3 4 5 6 7 8  9 10 11 12 13 14 15 16  OK CANCEL  OK CANCEL	DWELL : 1 - SEC

[CAMERA selection screen]

[INTERVAL selection screen]

### **5.2.4 SEQUENCE**

CAMERA		
	PAGE DWELL TIME	2 SEC
PTZ	CAMEO DWELL TIME	2 SEC
SPOT		
	CAMERA	SELECT +
SEQUENCE	1	ON
And Conception of the	2	ON
PRIVATE ZONE	3	ON
	4	ON
	5	ON

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>

		CAMERA	100	
PAGE DWELL TIM	AE 2 SEC	DTT	PAGE DWELL TIME	2 SEC
DVR - SEC		PTZ	CAMEO DWELL TIME	2 SEC
SAR SES		SPOT		
		and a second second	CAMERA	SELECT +
2	99	SEQUENCE	1	ON
1 ( )	99 🕒		2	ON
		PRIVATE ZONE	3	ON
			4	ON
			5	ON
	OK CANCEL	PRIVATE ZONE	2 3 4 5	ON ON

[DWELL-TIME selected screen]

[CAMERA SELECT screen]

### 5.2.5 PRIVATE ZONE

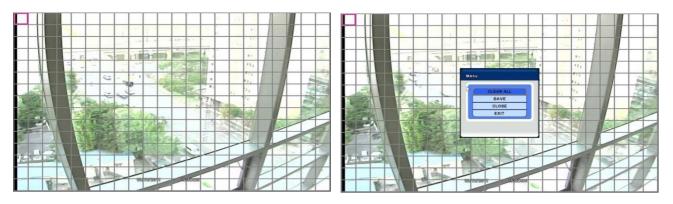
CAMERA			
	ZONE ENABLE	OFF	5
PTZ	ZONE COLOR	BLACK	
SPOT			
	CAMERA	ZONE	
SEQUENCE	1	OFF	-
	2	OFF	=
PRIVATE ZONE	3	OFF	
	4	OFF	
	5	OFF	-
			12

- 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>



[Mouse right button selected screen]

[ZONE 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				
ALARM IN	CAM	ACTIVE +	LEVEL +	AREA +
VIDEO LOSS	1	OFF	3	ON
	2	OFF	3	ON
SYSTEM	3	OFF	3	ON
DISPLAY	4	OFF	3	ON
	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 setting at once.

#### AREA SETUP



In the Area setup, the Red square is shown at the top left 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	IN	PUT	ACTI	ON		
ALARM IN	CAM	RECORD	ALARM	BUZZER	PRESET	E-MAI
VIDEO LOSS	1	OFF	OFF	OFF	1	OFF
IDEO LOGO	2	OFF	OFF	OFF	1	OFF
SYSTEM	3	OFF	OFF	OFF	1	OFF
	4	OFF	OFF	OFF	1	OFF
DISPLAY	5	OFF	OFF	OFF	1	OFF
	6	OFF	OFF	OFF	1	OFF
	7	OFF	OFF	OFF	1	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	AGTIC	NN	
ALARM IN	NO.	ACTIVE +	NAME	TYPE +
VIDEO LOSS	1	OFF	s01	NO
VIDEO ECOU	2	OFF	s02	NO
SYSTEM	3	OFF	\$03	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 setting at</u> <u>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)

MOTION	IN		ACTI	ON		
ALARM IN	NO.	RECORD	ALARM	BUZZER	PRESET	E-MAI
VIDEO LOSS	1	OFF	OFF	OFF	1	OFF
10202000	2	OFF	OFF	OFF	1	OFF
SYSTEM	3	OFF	OFF	OFF	1	OFF
	4	OFF	OFF	OFF	1	OFF
DISPLAY	5	OFF	OFF	OFF	1	OFF
	6	OFF	OFF	OFF	1	OFF
	7	OFF	OFF	OFF	1	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	INPUT ACTIC	DN	_
ALARM IN	CAMERA	ACTIVE +	
VIDEO LOSS	1	ON	
VIDEO LOGO	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.

MOTION	IN	PUT	ACTI	ON		
ALARM IN	CAM	RECORD	ALARM	BUZZER	PRESET	E-MAI
VIDEO LOSS	1	OFF	OFF	OFF	1	OFF
10202000	2	OFF	OFF	OFF	1	OFF
SYSTEM	3	OFF	OFF	OFF	1	OFF
all conservation of the	4	OFF	OFF	OFF	1	OFF
DISPLAY	5	OFF	OFF	OFF	1	OFF
	6	OFF	OFF	OFF	1	OFF
	7	OFF	OFF	OFF	1	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

MOTION		E-MAIL	
SENSOR			
VIDEO LOSS	CHECK INTERVAL	1 HOUR	
SYSTEM	DISK WARNING	POPUP	
DISPLAY	THRESHOLD	60	С
		27 C	
	-		
	J		

#### [WARNING]

- CHECK INTERVAL : Select the check interval. (Select 1 hour to 24 hour)
- DISK WARNING : Select how to give a warning if disk error. (OFF, POPUP, POPUP + BUZZER)
- THRESHOLD : Critical value for Warning
- CURRENT TEMP. : Current temperature of the system

MOTION	WARNING DISK	E-MAIL		
SENSOR				
VIDEO LOSS	DISK FULL WARNING	ON		
	USED SPACE	90 %		
SYSTEM	ALARM	1		
	BUZZER	OFF		
DISPLAY	MESSAGE	ON		
	-			

#### [DISK]

- DISK FULL WARNING : Select ON/OFF to disk full warning.
- USED SPACE : Display the used space
- ALARM : Select the channel for alarm out.
- BUZZER : Select On/Off for buzzer.
- **MESSAGE** : Select On/Off for message.

MOTION	WARNING	DISK	E-MAIL
ALARM IN			
VIDEO LOSS	POWER		OFF
VIDEO LOGO	MENU		OFF
SYSTEM	LOGIN FAIL		OFF
Service and servic	DISK FULL		OFF
DISPLAY	LOG IN		OFF
	S.M.A.R.T.		OFF

**[E-MAIL]** – Select option On/Off for e-mail notification.

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

### 5.3.5 DISPLAY

MOTION		
	CAMERA	POPUP DWELL +
ALARM IN	1	2 SEC
VIDEO LOSS	2	2 SEC
10101000	3	2 SEC
SYSTEM	4	2 SEC
	5	2 SEC
DISPLAY		
	EVENT MESSAGE	ON
	EVENT POPUP	OFF

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

## **5.4 RECORD SETUP**

Select the [RECORD] menu.



In this menu, there are Setup, Record, Pre/Post, Audio, Panic Setup

### 5.4.1 SETUP & RECORD

			SCHEDULE			
		_	RECORD	RECORD MO	DE	CONTINUOUS
			EVENT		FROM	то
			AUDIO	DAY TIME	00:00:00	00:00:00
				WEEKEND	OFF	OFF
RECOR	DSETUP		MANUAL			
SCHEDULE	DAY	NIGHT	WEEKEND		_	
RECORD	CAMERA	NORMAL+	EVENT+			OK CANCE
	CAMERA 1	NORMAL+ 7.5, HIGHEST	EVENT+ 7.5, HIGHEST			OK CANCE
RECORD	CAMERA 1 2	NORMAL+ 7.5, HIGHEST 7.5, HIGHEST	EVENT+ 7.5, HIGHEST 7.5, HIGHEST			OK CANCE
RECORD	CAMERA 1 2 3	NORMAL+ 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST	EVENT+ 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST			OK CANCEL
RECORD	CAMERA 1 2 3 4	NORMAL+ 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST	EVENT+ 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST			OK CANCE
RECORD EVENT AUDIO	CAMERA 1 2 3 4 5	NORMAL+ 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST	EVENT+ 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST			OK CANCEL
RECORD EVENT AUDIO	CAMERA 1 2 3 4	NORMAL+ 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST	EVENT+ 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST 7.5, HIGHEST			OK CANCE

• SETUP MODE : Select the record schedule. (CONTINUOUS / SCHEDULE)

#### [CONTINUOUS]

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

#### [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])

#### [SCHEDULE]

• Set 3 different recording setup by day and time. (SET1, SET2, SET3)

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

<u>TIP : For SET1, SET2, SET3 recording, change the setting [SETUP MODE] to [CONTINUOUS] and enter to the [RECORD] menu then change the setting.</u>

SCHEDULE									
RECORD		CORD I	MODE 6	9	12	SCH 15	IEDULE	21	
EVENT AUDIO MANUAL	SUN MON TUE WED THU FRI								[SCHEDULE selected s
			SET 1	SI	ET 2	SET	3	NONE	

If set to [CONTINUOUS] in [SCHEDULE] menu, the DAY / NIGHT / WEEKEND menu will be changed to SET1 / SET2 / SET3. Also set the frame and resolution.

SCHEDULE	SET 1	SET 2	SET 3	
RECORD	CAMERA	NORMAL+	EVENT+	
EVENT	1	7.5, HIGHEST	7.5, HIGHEST	[RECORD] screen after se
	2	7.5, HIGHEST	7.5, HIGHEST	[SCHEDULE] menu
AUDIO	3	7.5, HIGHEST	7.5, HIGHEST	
	4	7.5, HIGHEST	7.5, HIGHEST	
MANUAL	5	7.5, HIGHEST	7.5, HIGHEST	
	6	7.5, HIGHEST	7.5, HIGHEST	
	7	7.5, HIGHEST	7.5, HIGHEST 🥃	

<u>TIP : The frame can be set by the direction button in setup screen.</u>

### 5.4.2 EVENT PRE / POST

SCHEDULE			
RECORD	CAMERA	PRE RECORD+	POST RECORD+
RECORD	1	5 SEC	10 SEC
EVENT	2	5 SEC	10 SEC
	3	5 SEC	10 SEC
AUDIO	4	5 SEC	10 SEC
	5	5 SEC	10 SEC
MANUAL	6	5 SEC	10 SEC
	7	5 SEC	10 SEC
	8	5 SEC	10 SEC

- PRE RECORD : Sets Pre-event recording time (Max 60 second)
- POST RECORD : Sets Post-event recording time ( Max 100 second )

### 5.4.3 AUDIO

SCHEDULE		
	AUDIO	RECORD+
RECORD	1	OFF
EVENT	2	OFF
	3	OFF
AUDIO	4	OFF
	5	OFF
MANUAL	6	OFF
	7	OFF
	8	OFF

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

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

### **5.4.4 PANIC**

SCHEDULE				
	CAM	FPS+	RECORD QUALITY+	AUDIO+
RECORD	1	7.5	HIGHEST	ON
EVENT	2	7.5	HIGHEST	ON
	3	7.5	HIGHEST	ON
AUDIO	4	7.5	HIGHEST	ON
	5	7.5	HIGHEST	ON
MANUAL	6	7.5	HIGHEST	ON
	7	7.5	HIGHEST	ON
	8	7.5	HIGHEST	ON

• **FPS** : 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 NETWORK SETUP**

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

#### Select the [NETWORK] menu.



### 5.5.1 LAN

LAN	SERVER SERVER	2 CLIENT
SERIAL	DHCP	ON
DDNS	HOST NAME	dvr
	IP ADDRESS	0.0.0.0
E-MAIL	NETMASK	0.0.0.0
	GATEWAY	0.0.0.0
	DNS SERVER	192.168.1.1
		START

#### [SERVER]

• DHCP : 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)
- NETMASK: 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.

LAN	SERVER	SERVER	2 CLIENT
SERIAL			
DDNS	DHCP		OFF
E-MAIL	IP ADDRESS		192.168.0.10
	NETMASK		255.255.255.0
	_		
	_		

#### [SERVER2]

- DHCP : Select On/Off for dynamic IP.
- IP ADDRESS : Type IP address. (Available when DYNAMIC IP is OFF)
- NETMASK : Type Subnet mask. (Available when DYNAMIC IP is OFF)

LAN	SERVER SERVE	R2 CLIENT	
000141	CLIENT ACCESS	ALL	
SERIAL	BEGIN ADDRESS	END ADDRESS	
DDNS	0.0.00	0.0.0.0	
	0.0.00	0.0.0.0	
E-MAIL	0.0.0.0	0.0.00	
	XMS PORT (TCP)	9013	
	WEB PORT (TCP)	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 / WEB PORT (TCP) : Select SMS / Web Port.
- **REMOTE RESTART :** Select On/Off to restart DVR at remote.
- **REMOTE CONFIG** : Select On/Off to change configuration.

### 5.5.2 SERIAL

LAN		
SERIAL	RS-232 INPUT SETUP	
SERIAL	SERIAL TYPE	NONE
DDNS	MODEL	NONE
	PORT	9600-8N1
E-MAIL		
	RS-485 INPUT SETUP	
	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 S	ETUP		
LAN			
SERIAL	DDNS SERVER	NONE	
DDNS			
E-MAIL	HOST NAME		]
	PASSWORD	****	
	ROUTER IP	ON	
	STATUS	UNCHECKED	CHECK
		· · · · · · · · · · · · · · · · · · ·	
	1	ОК	CANGEL

- DDNS SERVER : Select DDNS server. ( ezddns.com / dyndns.com / changeip.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>

### 5.5.4 E-MAIL

LAN		RESS	SERVER	<u> </u>	
SERIAL	SEND	MAIL	SCHEDULE	FROM	то
SERIAL	0	FF	ON	00:00:00	23:59:59
DDNS				n (* * * * * * * * * * * * * * * * * * *	
	- NO.		E-MA	IL ADDRESS	
E-MAIL	1_				
	2				
	3				
	4				
	5				

#### [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.

LAN	ADDRESS	SERVER
SERIAL	MAIL SERVER	DVR SYSTEM
DDNS	USER NAME	UserName
	USER E-MAIL	email@ddnsdvr.com
E-MAIL	SERVER ADDRESS	ddnsdvr.com
	SERVER PORT	25
	LOGIN ID	Userid
	LOGIN PASSWORD	****

#### [SERVER]

- MAIL SERVER : Select the mail server. (SMTP server / DVR System)
- USER NAME : Input the user name.
- USER E-MAIL : Input the user e-mail address.
- SERVER ADDRESS : Input the server address.
- SERVER PORT : Input the server port.
- LOGIN ID : Input the Login ID.
- LOGIN PASSWORD : Input the Login password.

## **5.6 SYSTEM INFOMATION**

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

On the Top menu, select the [INFORMATION] menu icon.

### 5.6.1 SYSTEM LOG

NO.         DATE         SYSTEM LOG           0192         10/10 17:20:27         Login Success(ID:root)           0191         10/10 17:13:44         Monitor Setup Changed           0190         10/10 17:13:29         Monitor Setup Changed	YSTEMLOG	1		
O192         10/10 17:20:27         Login Success(ID:root)           0191         10/10 17:13:44         Monitor Setup Changed           0190         10/10 17:13:29         Monitor Setup Changed	STATUS	NO I		
0191 10/10 17:13:44 Monitor Setup Changed 0190 10/10 17:13:29 Monitor Setup Changed	VERSION		0.000.000.0000	Login Success(ID:root)
	VERSION	0191		Monitor Setup Changed
0189 10/10 17:13:18 Login Success(ID:root)		0190	10/10 17:13:29	Monitor Setup Changed
		0189	10/10 17:13:18	Login Success(ID:root)
0188 10/10 17:01:32 Logout		0188	10/10 17:01:32	Logout
0187 10/10 16:52:34 Weak Camera Signal 8		0187	10/10 16:52:34	Weak Camera Signal 8
0186 10/10 16:52:34 Weak Camera Signal 4		0186	10/10 16:52:34	Weak Camera Signal 4

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

## 5.6.2 STATUS

SYSTEM LOG	DISK RECORD AUDI	O CAMERA
STATUS	FIRST RECORD	2012/01/02 08:56:54
VERSION	LAST RECORD	2012/01/02 13:41:44
	DISK CAPACITY	999GB
	USED SPACE	18GB (1%)
	AVAILABLE SPACE	981GB (99%)
	HDD OVERWRITE	ENABLE
		ORMATION

### [DISK]

- Display HDD Status.
- CHECK SMART NOW : Check the smart.
- SMART INFORMATION : Show the smart information.

SYSTEM LOG	DISK REC	ORD AUDIO CA	AMERA
STATUS	SCHEDULE	N	IIGHT
VERSION	CAM	TIME	EVENT
	1	7.5, HIGHEST	7.5, HIGHEST
	2	7.5, HIGHEST	7.5, HIGHEST
	3	7.5, HIGHEST	7.5, HIGHEST
	4	7.5, HIGHEST	7.5, HIGHEST
	5	7.5, HIGHEST	7.5, HIGHEST
	6	7.5, HIGHEST	7.5, HIGHEST
	7	7.5, HIGHEST	7.5, HIGHEST

### [RECORD]

• Display RECORD Status.

#### STATUS

STATUS	CAMERA	RECORD
VERSION	1	OFF
	2	OFF
	3	OFF
	4	OFF
	5	OFF
	6	OFF
[	7	OFF
	•	UT .

#### [AUDIO]

Display AUDIO Status.

SYSTEM LOG	DISK RECO	RD AUDIO CAME	
STATUS	RESOLUTION	AUTO (1920	0 X 1080p)
STATUS			
VERSION	CAMERA	RESOLUTION	STATUS
	1	•	
	2	•	-
	3	•	-
	4	•	•
	5	•	-
	6	-	-
	7		-

### [CAMERA]

Display CAMERA Status

### 5.6.3 VERSION

SYSTEM LOG		
STATUS	VERSION	2.01.00.30
STATUS	PRODUCT. DATE	Dec 23 2011, 10:54
VERSION	VIDEO CODEC	110823.1
	VIDEO	VIDEO 16CH HD
	AUDIO	AUDIO 16CH HD
	VIDEO FORMAT	Αυτο
	HOST ID	HFTM-FMFF22-023B18
	MAC ADDRESS 1	00:19:19:02:3 <b>B</b> :18
	MAC ADDRESS 2	00:19:19:02:3B:19

• Display DVR version and information.

# 6. SEARCH



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

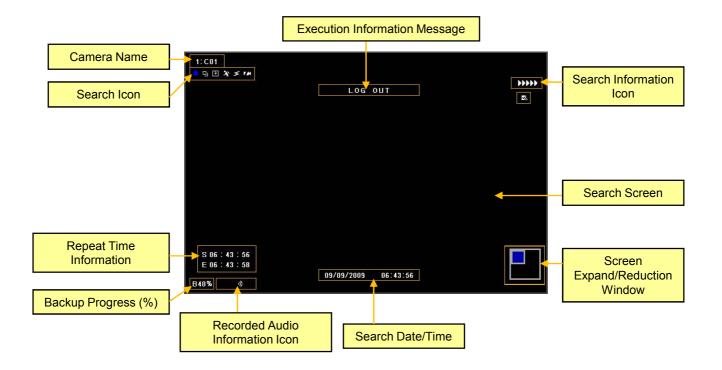
	ID			admin	
P.	ASSWO	RD			
0	1	2	3	4	
5	6	7	8	9	
			C	ок	CANCEL
				OK	CANCEL
	<i>u</i>				
ARCH	Y				
			HDD		
	RGET		HDD		
	RGET	SEARC	H		
	RGET QUICK CAL	SEARC	н		
TA	RGET QUICK CAL EVEN1	SEARC	сн		
TA	RGET QUICK CAL EVEN1 OVERLA GO T	SEARC ENDAR SEARC APPED L O FIRS	CH LIST T		
TA	RGET QUICK CAL EVEN1 OVERLA GO T	SEARC	CH LIST T		

Enter the password by the key buttons and press the ENTER button.

(The default password : 1)

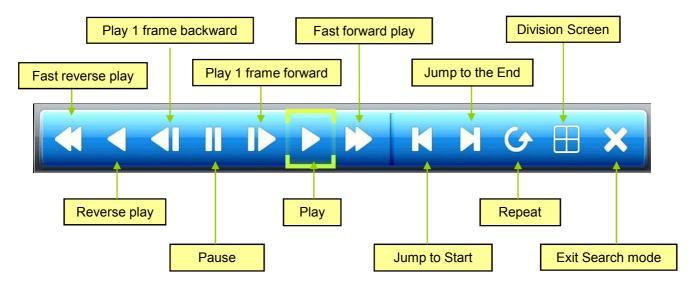
- QUICK SEARCH : Designated time search by User
- CALENDAR : Search by date and time with Calendar.
- EVENT SERARCH : Search by event
- OVERLAPPED LIST : Search the overlapped data by changing time
- GO TO FIRST : Search with initial saved data.
- GO TO LAST : Search with the latest saved data.

## 6.1 Search Screen



### 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

	◀_)		2011 / 10			
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.

<sup>&</sup>lt;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

EARLIEST RECORD	10/05/2011 16:58:11
LATEST RECORDING	10/10/2011 17:20:16
DATE	10/10/2011
MOTION	ON
ALARM IN	ON
VIDEO LOSS	ON
SELECT CAMERA	ON
VIEW SE	ARCH 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.

NO.	TIME	DST	CAMERA	EVENT
◀ 0 - 23	HOUR		PREV NEX	

- 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

NO.	FROM	то
1	10/11/11 15:55:22	10/11/11 14:55:22
		1
	PREV	NEXT

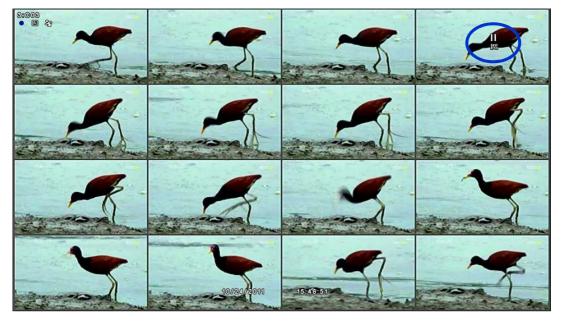
• If user change the time or applied DST (Daylight Saving Time), there will be overlapped data.



• 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 SMART SEARCH

- During normal search, press the [SMART] button.
- Find only event and playback automatically without interval.



### **6.1.7 SECTION REPEAT SEARCH**

• During normal search, press the [LOCK] button.

When press one time, the start position is set, press one more time, the end position is set.

- By mouse, click the below red circle button.
- Only playback the set section repeatedly.



• In search screen, display the following mark.



## **\*** 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	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 icon.



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

	ID		admin		
P	ASSWO	RD			
0	1	2	3	4	4
5	6	7	8	9	

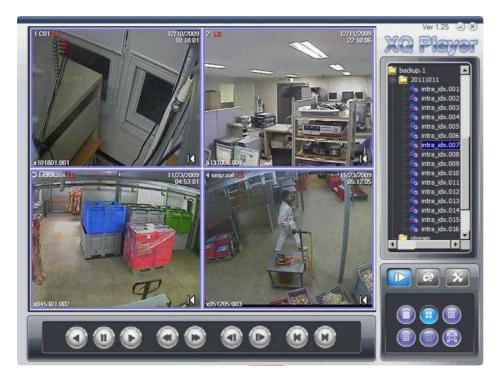
Enter the password by the key buttons and press the ENTER button.

(The default password : 1)

TARGET	NONE	NONE	
FROM	10/05/2011	16:58:11	
TO	10/10/2011	17:20:28	
BACKUP TITLE	backup		
SELECT CAMERA	ON		
EARLIEST RECOR	10/05/2011 16:58:11		
LATEST RECORD	10/10/2011	17:20:28	
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 Playback 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 Specification

Performanc	ce	SP-VD-1600 Pentaplex	SP-VD-800	SP-VD-400	) SP-VDL-400	SP-VDP-400	
Display spe		Real time					
Record spe		120 fps	120 fps	120 fps	30 fps		
d .	720p	240 fps	240 fps	240 fps	60 fps		
	Channel	16CH (BNC)	8CH (BNC)	4CH (BNC)	4CH (BNC)		
/ideo In	Transmission	HD-SDI (SMPT	HD-SDI (SMPTE 292M)				
	Main display	HDMI					
Video Out							
	Main display resolution	1920x1080(P), 1920x1080(I), 1280x720(P), 1440x900					
	Sub-display	1 VGA 1 HDMI (Multi Channel Display), 1 HD-SDI (SMPTE 292M) None					
	Spot	single channel fix or rotate					
Audio	Input / Output	16 / 1 8 / 1 4 / 1 4 / 1					
		10 / 1	071	7/1			
arm	Input / Output	16 / 2	8/2	4/1	4/1		
Details							
Dotano	Display Split	1, 4, 7, 9, 10, 13, 1, 4, 7, 9 1, 4 1, 4					
Screen	Display Split	16	, I, 4, 7, 9 I, 4 I, 4				
	Interface	Graphic User Interface					
	Codec	H.264					
Video	Image quality	Highest / High / Normal / Low					
	Recording type	Schedule / Continuous / Event (Motion, Alarm)					
	Internal	Max 24TR (2T	Max. 24TB (3TB x 8 HDDs) or above Max. 12TB or above Max 6TB or above				
Storage			,				
	External	eSATA support			N/A		
Connector	USB Port / RS-485	2 USB Port / PTZ camera, PTZ controller interface					
		2 000 1010 / 1					
Functions	•						
Camera opt				ge / Freeze / 4X di	gital zoom (live / playback)		
Motion	Area	Adjustable GRID (22 x 15)					
	Sensitivity	5 level motion detection					
	Hidden camera	Hidden camera during recording					
	PTZ	Various PTZ camera protocol / Preset up to 255 / RS 485					
<b>.</b>	Private zone	Blocking the private zone (live / playback)					
System	Auto Time Sync	NTP (Network Time Protocol)					
	Firmware update	USB / Network					
	S.M.A.R.T.	-					
	Туре	Auto detect when HDD's problem					
		Motion / Sensor / Video loss					
Event	Action	Recording, E-Mail, Log, Send message to remote, Buzzer, Pop up, Alarm, PTZ preset					
	Pre/Post recording	Up to 60sec / 100sec					
Record	Resolution	1080p or 720p					
	Quality	4 levels (Highest / High / Normal / Low)					
Search	Speed	5 levels					
	Quick / Event search	Search by designated time / Search by event					
	Repeat playback	Playback repeating designated time section only					
	Panorama search	Searching frame by frame (by every 16/9/4 frames at once)					
	Event chain playback	Search only event and playback without interval					
	Dual mode function	Live monitoring during playback					
	File format Media	DVR format DVD / USB dev	vice / Network				
Kacklin		Static IP, DHCF	1				
васкир	Type						
Backup Network	Type Base-T	10/100/1000 M	CMS, Web viewer, Smart phone support (iPhone, Android, iPad)				
Backup Network Network	Type Base-T Browser			support (iPhone, A	ndroid, iPad)		
Backup Network Network	Base-T Browser			support (iPhone, A	ndroid, iPad)		
Backup Network Network Environment	Base-T Browser	CMS, Web view	ver, Smart phone	support (iPhone, A	ndroid, iPad)		
Backup Network Network Environment Operating T	Base-T Browser	CMS, Web view 0~45°C, 32~11 440(W) x 510(	ver, Smart phone	14 Kg,	ndroid, iPad) 440(W) X 430(D) X 90(H)mm 7 kg, 17.3(W) x 16.9(D) x 3.5( )in / 15.4 lb	/ H 4kg	

# 8. APPENDIX

## 8.2 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	<ul> <li>Connect the camera cable to the DVR port properly.</li> <li>Check the connected monitor cable with DVR. (Refer to the [Rear Panel Configuration])</li> <li>Check the camera power and lens setting.</li> <li>As this may be caused by a temporary error, restart DVR.</li> <li>As camera setting may be wrong, initialize the camera and DVR.</li> <li>* How to initialize DVR</li> <li>1. Main Menu &gt; Configuration &gt; Default Load &gt; O.K &gt; O.K</li> <li>!! Caution: After DVR initialization, DVR setting is returned factory default. Need to backup the configuration before initialize DVR.</li> </ul>
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	<ul> <li>Check the battery polarity.</li> <li>Check the remote controller ID. (Refer to the [Remote Controller Configuration])</li> <li>Focus on the remote controller to the IR sensor.</li> <li>Use the remote controller within 7 meters from DVR.</li> <li>Change the battery.</li> </ul>
No sound in live view	<ul> <li>Check the mike and audio cable with DVR port. (Refer to the [Real Panel Configuration])</li> <li>Check the speaker power which is connected on Audio port.</li> <li>Turn on the Audio in the CAMEO menu. (Select the channel which is connected Audio and turn on.</li> <li>* CAMEO menu will be appear when click the right button of mouse.</li> </ul>
No sound in search	<ul> <li>Set to [Audio] - [ON].</li> <li>(If set to [OFF], sound is not heard during search.)</li> <li>Although the record icon is lighted, if there is no audio input, sound is not heard.</li> <li><b>X Audio record can be changed [Main Menu] &gt; [Record Setup].</b></li> </ul>
Not work smart search	<ul> <li>For smart search, event record should be set.</li> <li>If event record is not set, when select the smart search, return to the live screen from search mode.</li> </ul>