4/8/16 CHANNEL DVR User Manual

SRD-1684/893/493



CE



4/8/16 Channel DVR

User Manual

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- Design and specifications are subject to change without prior notice.
- The initial administrator ID is "admin" and the password should be set when logging in for the first time. Set password for your wireless network if you use the product with a wireless router. Being not protected with password or using the default wireless router password may expose your video data to potential threat. Please change your password every three months to safely protect personal information and to prevent the damage of the information theft.

Please, take note that it's a user's responsibility for the security and any other problems caused by mismanaging a password.

overview

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



overview



CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN



CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.



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

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

WARNING

- 1. Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product.
- 2. Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product.
- **3.** Securely plug the power cord into the power receptacle. Insecure connection may cause fire.
- 4. When installing the camera, fasten it securely and firmly. The fall of camera may cause personal injury.
- 5. Do not place conductive objects (e.g. screwdrivers, coins, metal parts, etc.) or containers filled with water on top of the camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.
- 6. Do not install the unit in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
- If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately
 disconnect the power source and contact the service center. Continued use in such a condition may cause fire
 or electric shock.
- 8. If this product fails to operate normally, contact the nearest service center. Never disassemble or modify this product in any way. (SAMSUNG is not liable for problems caused by unauthorized modifications or attempted repair.)
- 9. When cleaning, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.
- 10. Do not expose the product to the direct airflow from an air conditioner. Otherwise, it may cause moisture condensation inside the Clear Dome due to temperature difference between internal and external of the dome camera.
- If you install this product in a low-temp area such as inside a cold store, you must seal up the wiring pipe with silicon, so that the external air can not flow inside the housing.
 Otherwise, external high, humid air may flow inside the housing, pooling moisture or vapor inside the product due to a difference between internal and external temperature.

BEFORE START

This user manual provides Information for using the DVR such as brief introduction, part names, functions, connection to other equipment, menu setup, etc.

You have to keep in mind the following notices :

- SAMSUNG retains the copyright on this manual.
- This manual cannot be copied without SAMSUNG's prior written approval.
- We are not liable for any or all losses to the product incurred by your use of non-standard product or violation of instructions mentioned in this manual.
- Prior to opening the case, please consult a qualified technician first. Whenever this is needed power must be removed from the unit.

Warning

Battery

It is essential that when changing the battery in the unit, the replacement battery must be of the same type otherwise there may be a possibility of an explosion.

The following are the specifications of the battery you are using now.

- Normal voltage : 3V
- Normal capacity : 170mAh
- Continuous standard load : 0.2mA
- Operating temperature : -20°C ~ +85°C

$(-4^{\circ}F \sim +185^{\circ}F)$

CALIFORNIA USA ONLY

This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA. "Perchlorate Material - special handling may apply, See www.dtsc.ca.gov/ hazardouswaste/perchlorate."

Caution

- Connect the power cord into a grounded outlet.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like
- Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions.

System Shutdown

Turning off the power while the product is in operation, or undertaking improper actions may cause damage or malfunction to the hard drive or the product.

Please turn off the power, please right-click to display the context sensitive menu and select <Shutdown>. After selecting <OK> in the pop-up menu, you can pull off the power cord.

You may want to install a UPS system for safe operation in order to prevent damage caused by an unexpected power stoppage. (Any questions concerning UPS, consult your UPS retailer.)

Operating Temperature

The guaranteed operating temperature range of this product is 0°C ~ 40°C (32°F ~ 104°F).

This product may not work properly if you run right after a long period of storage at a temperature below the guaranteed one.

Prior to using a device that has been stored for a long period in low temperatures, allow the product to stand at room temperature for a period.

Especially for the built-in HDD in the product, its guaranteed temperature range is $5^{\circ}C \sim 55^{\circ}C$ ($41^{\circ}F \sim 131^{\circ}F$). Likewise, the hard drive may not work at a temperature below the guaranteed one.

Ethernet Port

DVR is designed for indoor use only and all the communication wirings are limited to inside of the building.

 $/ \square \cap$

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FEATURES

The DVR employs H.264 video encoding for 4/8/16 channel inputs and G.711 audio encoding for 4/8/16 channels while simultaneously supports hard disc recording and playback.

These DVRs also supports network connectivity, providing remote monitoring from a remote PC transferring video and audio data.

- Provides a convenient User Interface
- 4/8/16 CH Composite Input Connectors
- Supports 1080p/720p/WD1/4CIF/2CIF/CIF recording formats
- With the network specific codec, network transfer enabled regardless of the recording conditions
- De-interlacing processor for better picture quality
- Display of HDD information and status by using HDD SMART
- Hard Disk overwrite function
- Mass storage hard disk backup through high-speed USB 2.0
- Simultaneous Record and Playback of 4/8/16-channel video data
- Various Search Modes (Search by Time, Event, Backup and Motion Detection)
- Various Recording Modes (Manual, Event, Scheduled Recording)
- Remote Monitoring function by Network Viewer, Smart Viewer and Mobile Viewer

Standards Approvals

F© (e



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 energy 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 the user will be required to correct the interference at his own expense.

Package Contents

Please unwrap the product, and place the product on a flat place or in the place to be installed. Please check the following contents are included in addition to the main unit.

- The appearance of the components may differ from the image shown.
 - Accessory category and quantity may differ depending on sales region.

DVR (1SET)	Adapter / Power Cable(1EA)	Mouse (1EA)
Remote Control (1EA) / Battery (2EA)	User Manual or Quick Manual	Terminal Block(2 pin)
C C C C C C C C C C C C C C C C C C C	0 0 0 0	
Bracket Rack (2EA)	Bracket Fixing Screw (4EA)	SATA Cable (for models having no installed HDD)
HDD Fixing Screw (for models having no installed HDD)		

overview

PART NAMES AND FUNCTIONS (FRONT)

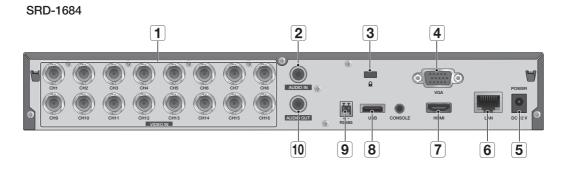
SAMSUNG	
1 2 3	

	Part Names	Functions	
1	USB Port	Connects the USB devices.	
2	Remote Control Receiver	Input the remote control signal.	
		REC : Lights on when recording is in progress.	
3	LED Indicator	LAN : Displays both network connection and data transfer status.	
		POWER : Displays the power ON/OFF status.	

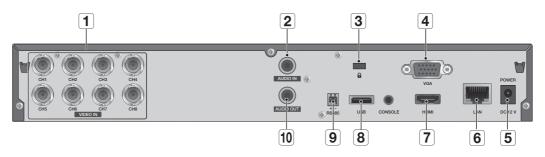


All functions are operable with mouse and remote control, since there are no front buttons.

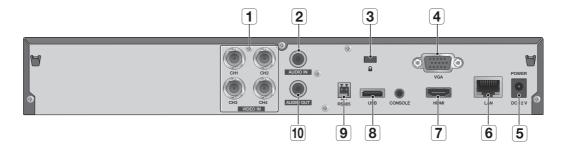
PART NAMES AND FUNCTIONS (REAR)



SRD-893



SRD-493



	Part Names	Functions
1	VIDEO IN	Input port for the composite video signal.
AUDIO IN Input ports (RCA jack) for the audio signal.		
3	Anti-theft Lock	An anti-theft lock allows you to use the product securely even in public places. The locking device shape and locking method depend on the manufacturer. Refer to the user guide provided with your anti-theft locking device for details.

overview

	Part Names	Functions
4	VGA OUT	Output port for VGA video signal.
5	DC 12V	DVR power input port.
6	LAN	NETWORK connector port.
7	HDMI	HDMI connector port.
8	USB	USB connector port.
9	RS-485	Used to establish RS-485 communications.
10	audio out	Output port (RCA jack) for the audio signal.



[CONSOLE] is designed for the service repair purpose only.

REMOTE CONTROL





Using the numeric buttons

CHANNEL 1–9 Press each button between 1 to 9. (8CH : 8)	
CHANNEL 10 Press the [0] button or press [+10] button first, then press the [0] button again within 3 sec	
CHANNEL 11–16 Press the [0/+10] button first, then press any number between 1 to 6.	

Changing the Remote Control ID

- 1. Press the [ID] button of the remote control and check the ID displayed on the DVR screen. The factory default ID of the remote control is 0.
- 2. Enter 2 digits of your selection in order, while pressing the system [ID] button.
- 3. When ID input is done, press the system [ID] button again to check the setting.



If you want to change the remote control ID to 08: Press 0 and 8 in order while the system [ID] button is pressed. Remote control's ID and DVR's ID should be matched for proper operation. Refer to "Remote Devices". (Page 51)

connecting with other device

INSTALLATION

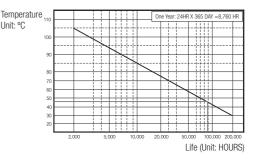
Please take note of the followings before using this product.

- Do not use the product outdoor.
- Do not spill water or liquid in the connection part of the product.
- Do not impose the system to excessive shock or force.
- Do not pull out the power plug forcefully.
- Do not disassemble the product on your own.
- Do not exceed the rated input/output range.
- Use a certified power cord only.
- For the product with an input ground, use a grounded power plug.

CHECKING THE INSTALLATION ENVIRONMENT

Samsung Digital Video Recorder ("DVR" hereinafter) is a stateof-art security device, and contains mass storage hard disk(s) and critical circuits inside.

When the temperature rises inside the product, the product may breakdown and the product life be shortened. Please pay attention to the following recommendations before installation.



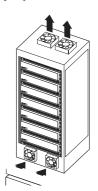
The followings are the recommendations when Samsung DVR is installed on a rack.

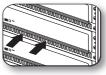
- 1. Please ensure that the rack inside is not sealed.
- 2. Please ensure the air is circulated through the inlet/outlet as shown in the picture.
- **3.** If the DVR or other devices on a rack is to be stacked as in the picture, provide a suitable space or install a ventilating opening for air circulation.
- 4. For natural air convection, place the inlet at the bottom of the rack and the outlet on top.
- 5. It is strongly recommended that a fan motor is installed at the inlet and the outlet for air circulation. (Please fit a filter at the inlet to screen dust or foreign substances.)
- 6. Please maintain the temperature inside the rack or surrounding areas between $0^{\circ}C \sim 40^{\circ}C$ ($32^{\circ}F \sim 104^{\circ}F$) as shown in the figure 1.

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions :

- A) Elevated Operating Ambient 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 maximum ambient temperature specified by the manufacturer.
- B) Reduced Air Flow Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- C) Mechanical Loading Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- D) Circuit Overloading Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- E) Reliable Earthing Reliable earthing 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).

[Figure 1]





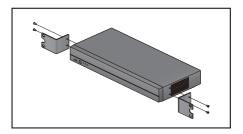
[Figure 2]

connecting with other device

RACK INSTALLATION

Install the Bracket-Rack as shown in the figure, and then fasten the screws on both sides (2 screws on each side).

- Fix the screws not to be loosened by vibrations.
- Bracket Racks are not available for some regions.



INSTALLING THE HDD

Make sure to unplug the power cord from the wall outlet to prevent possible electric shock, injury or product damage.

Please consult your provider for further information on HDD installation since improper installation or settings may damage the product.

Make sure to unplug the power cord from the wall outlet before proceeding with the installation.



Cautions for data loss (HDD care)

Please pay attention so that the data inside the HDD is not damaged. Before adding a HDD, please check the compatibility with this product. HDD is vulnerable to malfunction due to its sensitive nature especially against shock when operating. Please ensure that the HDD is free from such shock. We are not liable for any damage to the HDD incurred by user's carelessness or miss use.

Cases might cause damage to HDD or recorded data

To minimize the risk of data loss from a damaged HDD, please backup data as often as possible. If exposed to shock when disassembling or installing, data stored in the hard disk may be damaged. A sudden power failure or turning off the product while in HDD operation may damage the hard disk drive. HDD or files stored inside may be damaged if the main body is moved or impacted during the HDD operation.

Cautions on HDD installation

- 1. When adding a new HDD, make sure to fasten screws tightly and use appropriate parts if required to fix the HDD. Otherwise, the product may be damaged or does not operate properly.
- 2. Please check the HDD compatibility before adding a HDD.
 - Please contact your nearest dealer to obtain the list of compatible devices.

Installing the HDD

Π

If the installed HDD had been used with other devices, it will be automatically formatted.

• Installing HDD by opening the cover

1. Remove the screws on the rear side of the DVR and take off the cover.

2. Plug in one end of SATA cable supplied to the HDD.

3. Mount the HDD onto the bottom cover using the screws provided.



4. Attach the other end of HDD cable onto the DVR board.



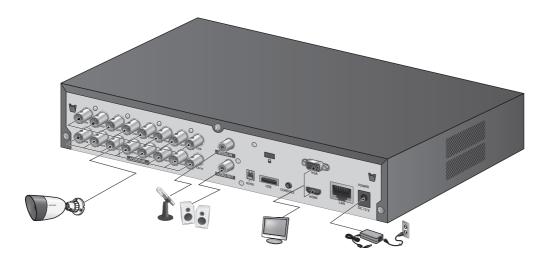
connecting with other device

5. Attach the cover and fasten the screws..



CONNECTING EXTERNAL DEVICES

The following figures are based on Model SRD-1684.



CONNECTING THE USB

- 1. By factory default, a USB port is provided for external connection.
- 2. You can connect a USB HDD, USB memory or mouse to the USB port.
- If a USB HDD is connected to the system, recognition and settings are available in "Main Menu > Device > Storage Device". (Page 48)
- 4. This product supports hot-plugging, which connects/removes the USB device during the system operation.



If you use the USB device for Backup purposes, format it with FAT32 on PC if it is not formatted on the DVR.

CONNECTING THE RS-485 DEVICE

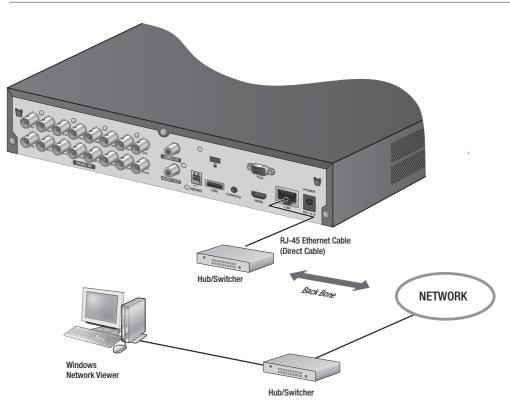
Connect the rear [RS-485 +, -] port to the PTZ camera.

- You can connect and control the PTZ camera which supports the RS-485 communication.
- Check if the RS-485 device is compatible with the product first.
- Pay attention not to change the polarity (+/-) of the RS-485 device when connecting it.
- Depending on camera's type, connection polarity can be different. For further information, refer to the respective PTZ Camera's documentation.

CONNECTING THE NETWORK

The following figures are based on Model SRD-1684.

Connecting to network through Ethernet (10/100BaseT)

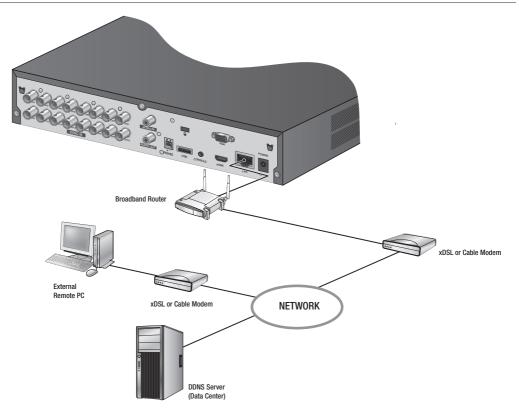


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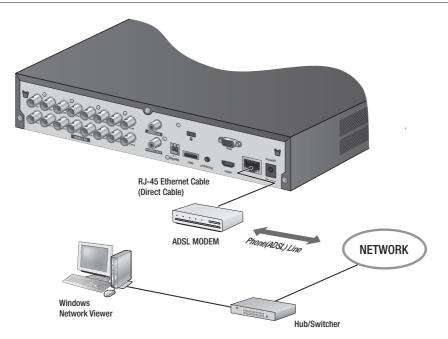
+ -RS485

connecting with other device

Connecting to the Network using the router



Connecting to Network through ADSL



GETTING STARTED

Starting the system

- 1. Connect the power cable of the DVR to the wall outlet.
- Ø
- It takes about 10 seconds to display the start screen after booting.
- You will see the initialization screen. The initialization process will last about 1 minute. If a new HDD is installed, the initialization process may take longer.
- **3.** The live screen appears with a beep.





Shutting Down the System

You can shut down the system only if you have logged in to the DVR. You require permission to shut down the system if you are not logged in as admin.

- Press the [POWER] button on the remote control, or right-click to display the context sensitive menu and select <Shutdown>.
- 2. The "Shutdown" confirmation window appears.
- Use the arrow keys on the remote control to move to <OK> and press the [ENTER] button or click <OK>. The system will shut down.
- For the permission management, refer to "**Permission Management** > **Setting Permissions**". (Page 40)



Login

To access a DVR or restricted menu, you should have logged in to the DVR.

1. In live mode, right-click any area of the screen. You will see the context sensitive menu as in the right figure.



2. Click <Login>.

The login dialog appears.

You can also see the login dialog to access a desired menu by pressing the [MENU] button on the remote control.

- The login dialog will also appear if you press a menu button on the remote control when the corresponding menu requires logging in.
- Login - ID - Paswod OK Cancel
- After logged in, press [RETURN] on the remote control to display the logout dialog.
 - The initial administrator ID is "admin" and the password should be set when logging in for the first time.
 - Set password for your wireless network if you use the product with a wireless router. Being not protected with password or using the default wireless router password may expose your video data to potential threat.
 - Please change your password every three months to safely protect personal information and to prevent the damage of the information theft.

Please, take note that it's a user's responsibility for the security and any other problems caused by mismanaging a password.

For the restricted permission, refer to "Permission Management > Setting Permissions". (Page 40)

Locking All Buttons

This will restrict access to all buttons available in the DVR.

 In Live mode, press buttons on the remote control in the order of [STOP (■)]→[FREEZE]→[STOP (■)]→[FREEZE]→ [MENU].

All buttons will be locked.

 In the lock condition, press any button to display a dialog where you are prompted to enter the password for unlocking the buttons.

The button lock will be released if you enter the admin password.

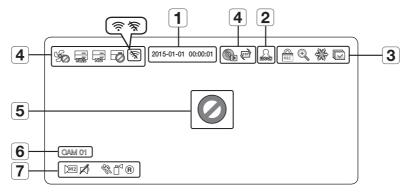


[[/

LIVE SCREEN CONFIGURATION

Icons on the Live Screen

You can check the status or operation of the DVR with the icons on the live screen.



Name			Description	
1	1 Current Date, Time		Displays the current time and date.	
2	Login Inforr	nation	When you are logged in, the "LOG ON" icon will be displayed.	
		<u>کې</u>	Displayed if the zoom function is activated.	
		్లు సంగ్రామం కార్యాల్లు	Freezes the screen temporarily.	
3	Screen Mode		Displayed in Auto Sequence mode where all channels are switched at the specific time interval.	
		REL	This icon is displayed if a user with restricted access to the Record button tries to make manual recording. Only the user with the applicable permission can release (stop) the recording. 	
		S. S.	Displayed if there is a problem with the cooling fan.(SRD-1684/SRD-893)	
		्राह्य साह्य	Displayed if the HDD is full and the DVR has an insufficient space to record.	
			Displayed if no HDD is installed or the existing HDD should be replaced.	
		Ø	Displayed if the HDD needs a technical examination.	
4	System Operation	((i·-	Displayed when the Wi-Fi is connected.	
		ţ,	Displayed when the Wi-Fi is not connected.	
		F	Displayed if a new firmware is found from the network.	
			This will be displayed if the backup operation is in process.	
5	Video Innut Statue	0	Displayed if no input is entered in the condition that the camera is set to $<\!0N\!>$.	
5 Vide	Video Input Status		Nothing will be displayed on the screen if the camera is set to <0FF>.	

Name

Name			Description
6	6 Camera Name/ Channel		Displays the camera name and the changed channel, if any.
		TA	Displayed in PTZ setting, and highlighted yellow if PTZ is in operation.
	7 Camera Operation		Displays AUDIO ON/MUTE. Not displayed in video mode if deactivated.
7		Sel Sel	Displayed if a motion detected in the condition that the motion detection is set to $<\!0N\!>$.
			Appears when the Tampering Detection is set to $<$ ON $>$ and a tampering attempt is detected.
		R/E/ S	Displays the current record mode from Record/Event/Schedule.

Error Information

- If the internal HDD is not connected, the "NO HDD" (
) message will appear; if there occurs a problem, you will see the "HDD FAIL" (
) message in the top left corner. In this case, make sure you contact the service center for assistance as this may cause a failure of recording, playback or backup.
- If the cooling fan does not work properly or has a problem, the <Fan Information> window will appear and the fan error icon () will be displayed on the top left corner. In this case, check to see if the internal fan works. (SRD-1684/SRD-893)

As a fan error can shorten the product life, make sure you contact the service center for assistance.

If you see the fan error icon or No HDD, HDD FAIL icons on the screen, contact the service center for more details.

Live Screen Menu

In addition to the buttons on the remote control, you can access a desired menu by right-clicking the mouse any area in live mode.

The context sensitive menu that appears by right-clicking the screen may differ, depending on the login/ logout, screen split mode and DVR operation mode.



Menu items of Search, Record, Backup and Shutdown can be deactivated, depending on the user permission.



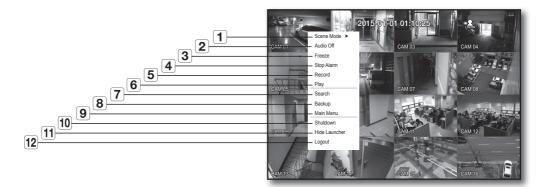
< Split Mode Menu >



< Single Mode Menu >

Split Mode Menu

The context sensitive menu in split mode differs, depending on the login/logout status.



	Menu	Description
1	Scene Mode	Refer to "Live Mode". (Page 28)
2	Audio On/Off	Refer to "Audio On/Off". (Page 31)
3	Freeze	Refer to "Freeze". (Page 31)
4	Stop Alarm	Stops the alarm output and the event monitoring. Refer to "Event Monitoring".(Page 32)
5	Record/Stop	Starts/stops the standard recording.
6	Play	Plays the search result (data). Refer to "Search & Play > Play". (Page 80)
7	Search	Refer to "Search & Play > Search". (Page 77)
8	Backup	Refer to "Main Menu > Setting the Backup". (Page 59)
9	Main Menu	Accesses the main menu. Refer to the Using the DVR section. (Page 33)
10	Shutdown	Turns down the DVR.
11	Show/Hide Launcher	Shows or hides the launcher. Refer to "View the Launcher Menu". (Page 27)
12	Login/Logout	You can log in or out.

Single Mode Menu

The single mode menu is available only in Single Mode.

The context sensitive menu for the One Channel mode, in Split mode is different from that of the Single mode.



	Menu	Description
1	Full Screen	Select and click a desired channel in Split mode to switch to the full screen of the selected channel.
2	PTZ Control	Accesses the PTZ Control menu. The PTZ menu is activated only in One-Channel Live mode. (Page 75)
3	Zoom In	Enlarges the selected image. (Page 31)

View the Launcher Menu

2015-01-01 01:10:25

The Launcher menu appears on the bottom of the live screen.

- 1. In Live mode, right-click to display the context menu and select <Show Launcher>.
- **2.** Move the cursor to the bottom and click a desired item in the Launcher menu.
- If no input is entered for 10 seconds, the menu will disappear.
 - The Launcher menu can be accessed only by using the mouse.

- SRD-493 supports the 4-split screen mode PIP and Auto Sequence only.
- SRD-893 does not support the 16-split screen mode.



2015-01-01 01:10:25			PTZ	
1	2	345	67	8910

	Menu	Description
1	Date/Time	Displays the current time and date. The indication of AM/PM is displayed if you set 12 hours for the time format in " System > Date/Time/Language > Time ". (Page 33)
2	Screen Mode	Press this button to switch the screen mode in sequence. The current mode is highlighted in white.
3	Menu Expansion Button	Click to display the hidden menu to the right.
4	Audio	Turns ON/OFF the sound of the selected channel.
5	Zoom	Enlarges the selected area. This is available only in Single Live mode.
6	PTZ	Runs the PTZ Control launcher. The PTZ control launcher will be active on the Live screen after you select a single channel.
7	Alarm	Stops the alarm if it's activated.
8	Freeze	Freezes the Live screen temporarily.
9	Play	Enters Play mode if a file to play exist, and if not, enters Search mode.
10	Record	Start/End recording the Live screen.

LIVE MODE

SRD-1684 display Live images from 16 channels in a total of 8 layout of split screens.

Switching the screen mode

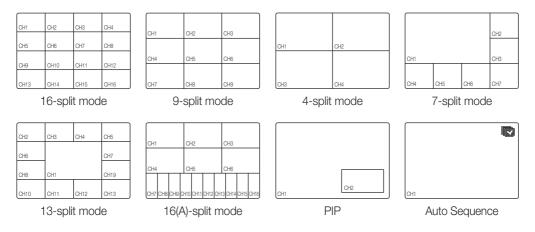
To switch the split mode, select a screen mode in the launcher menu, or right-click to select a screen mode in the context menu.

Press the [MODE] button on the remote control to switch the mode in the sequence of the launcher menu items.



SRD-493 supports the 4-split screen mode PIP and Auto Sequence only.

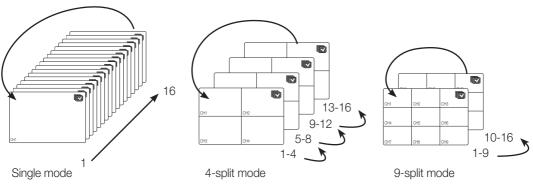
SRD-893 does not support the 16-split screen mode.



Switching the split mode

SRD-1684 display 16 Live images in the sequence of Single, 4-split and 9-split modes.

Auto Sequence



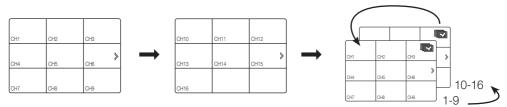
- In Single mode, If you have set <SEQ-Dwell Time> in "Device > Camera", Auto Sequence will be conducted at the set interval. (Page 45)
 - In a split mode, If you have set < Multi CH SEQ Time> in "Device > Monitor", Auto Sequence will be conducted at the set interval. (Page 52)

Manual Switching

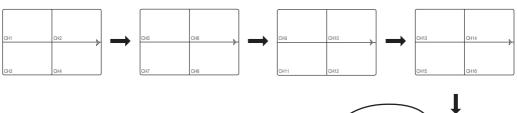
Press the left/right button on the remote control, or click the arrow < 4/> > key to move to the next split mode.

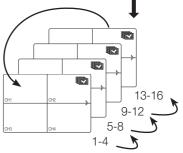
• If pressing the right [▶] button in 9-split mode :

9-split (CH 1~9) mode → 9-split (CH 10~16) mode → Auto Sequence



 If pressing the right [▶] button in 4-split mode : Channel (CH 1~4) → Channel (CH 5~8) → Channel (CH 9~12) → Channel (CH 13~16) → Auto Sequence





Channel Setting

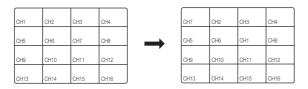
You can display the channel in a desired area of a split screen.

- 1. Place the cursor over the camera name of each channel to display the $< \mathbf{V} >$ key to the right on the screen.
- 2. Click a camera name to display a channel list where you can select a different channel.
- 3. Select a desired channel and click it.

The current channel will be switched to the selected one.

Use the cursor to select a channel to move, and drag and drop it to a desired channel; this can also change the channel position.

Ex : if switching CH 1 to CH 7



Switching to Single Mode

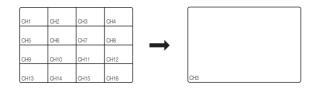
When in split mode, select and double-click a desired channel to switch to its Single mode.

Press the number corresponding to a desired channel on the remote control to switch to its Single mode.

- CHANNEL 1-9 : Press each button between 1 to 9. (8CH : 8)
- CHANNEL 10 : Press the [0] button or press [+10] button first, then press the [0] button again within 3 seconds.
- CHANNEL 11–16 : Press the [0/+10] button first, then press any number between 1 to 6 within 3 seconds.

Refer to "Remote Control > Using the numeric buttons". (Page 14)

Ex : If double-clicking CH 3 or pressing the number "3" on the remote control.



This is available only in Single Live mode. In Single mode, select a desired area and use the Zoom function to enlarge it twice.

- Select <Zoom In> in the right-click menu. Press the [ZOOM] button on the remote control, or simply click < < > in the launcher menu. The zoom box appears.
- 2. Use the direction keys, or drag and drop to specify an area to enlarge.
- 3. Press the [ENTER] button, or double-click the selected area to enlarge it twice.
 In the enlarged image, use the direction buttons (▲▼ ◄ ►) on the remote control to move the enlarged area.
- 4. Press the [ZOOM] button on the remote control, or simply click < < > in the launcher menu to release the zoom.





AUDIO ON/OFF

You can turn the sound on/off corresponding to the channel in Live mode.

AUDIO On/Off in Single mode

Click the audio icon (



■ Only the channel where <Audio> is set to <ON> in "Device > Camera" displays the audio icon (□) in Live mode that you can use to turn the sound on/off.

FREEZE

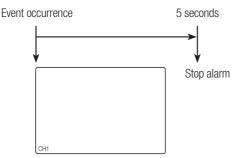
This is available only in Live mode, this pauses playing the Live image temporarily.

- 1. Press the [FREEZE] button on the remote control, or click < * > in the launcher menu. The playback of the image is stopped temporarily.
 - Sound continues to play during the pause.
- Press the [FREEZE] button again, or click < >. This will release the freeze.

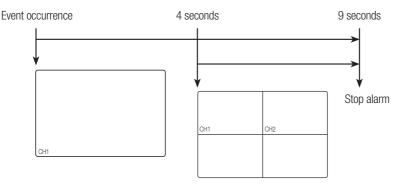
EVENT MONITORING

This will display the channel in sync with a specific event (Motion/Tampering/Video Loss) if it occurs. In "Monitor > Event Display", set the event monitoring to ON/OFF and specify the event display time. (Page 52)

- If multiple events occur simultaneously, the screen will switch to a split mode.
 - 2~4 events : 4-split mode
 - 5~9 events : 9-split mode
 - 10~16 events : 16-split mode
- If the second event occurs within the set time of <Event Display>, the first event will last until the second one is terminated. (Page 52)
 - Ex : If you set < Event Display> to 5 seconds, and only one event occurs in CH 1.



Ex : If you set < Event Display> to 5 seconds, and the second event occurs in CH 2 within the set time after the first event occurred in CH 1.



- Press the [ALARM] button to reset the alarm settings and to release the event mode.
 - If an alarm activates in the condition you have set the event record, and pre/post alarm times, the event record will be performed.
- In case of continuous events such as motion detection, switching to another split mode display may not immediate if concatenating events follow, even when you stopped alarm of the event.

10

<u>main menu</u>

You can setup the system properties, devices, and options for recording, event, backup and network.

SYSTEM SETUP

You can setup Date/Time/Language, Permission, System Properties and Log.

Date/Time/Language

You can check and setup the current Date/Time and time related properties, as well as the language used for the interface on the screen.

Setting the Date/Time/Language

Set the Date/Time/Language

Using the mouse may help make setup easier.

- 1. Press the [MENU] button on the remote control.
 - If not logged in, it prompts with login window.
 Refer to "Login". (Page 22)



- Use the left/right buttons (◄ ►) to select the <System>. System property setup menu is selected.
- Use the up/down buttons (▲ ▼) to select <Date/Time/ Language> and press the [ENTER] button.
- Select < Date/Time/Language>. A dialog to setup Date, Time and Language.
- Use direction buttons (▲▼ < ►) to select an item to set and make your changes.



main menu

- Date : Sets the date that will appear on the screen. You can select the date format.
- Time : Sets the time and its format that will appear on the screen.
- Select either one from <24 Hours, 12 Hours (AM/PM)>.
- Time Zone : Sets the time zone of your area based on the Greenwich Mean Time (GMT).
 - GMT (Greenwich Mean Time) is standard World Time and the basis of world time zone.
- Time Sync. : You can set the DVR's current time synchronized to a selected <Time Server> regularly if you select to use <Time Server>.
 In this case, <Date/Time/Language> setup does not allow time adjustment.
 - Time Server : Enter an IP or URL address of the time server.
 - Last Sync Time : Displays the most recent synchronization time from the selected time server.
 - Activate as Server : Set to <Use> to allow the DVR to act as a Time Server for other DVRs.
- DST : Set up Daylight Saving Time with its period to make the time earlier than the GMT of its time zone by 1 hour during the set period.
- Date/Time/Language Date/Time/Language Interfime/Language Interfime/Lan

YYYY-MM-DD

24 Hours

🚝 🗻 Dec First (S

Date/Time/Language

2015-01-01

08:14:24

Setup

Dec

English 🔽

Date/Time/Language

Dat

Time

· DST

Time Zone GMT

· Time Sync

· Language

• Language : Select your language. Sets the language for the interface.

English, French, German, Spanish, Italian, Chinese(Simplified), Russian, Korean, Polish, Japanese, Dutch, Portuguese, Turkish, Czech, Danish, Swedish, Thai, Romanian, Serbian, Croatian, Hungarian, Greek, Chinese (Traditional), Finnish and Norwegian are available.

6. When the Date/Time/Language setup is done, press <OK>.

• You can also use numeric buttons on the remote control to enter values for Date, Time and other numeric fields.

10

Setting Holiday

You can set specific dates to Holidays according to your preferences. Holidays are applied to <**Recording Schedule**> and <**Alarm Schedule**> too.

Using the mouse may help make setup easier.

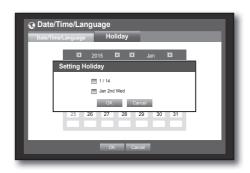
- Use the up/down buttons (▲▼) in <Date/Time/Language> window to select <Date/Time/Language>, and press the [ENTER] button.
- Select < Holiday>. A calendar for Holiday setup appears.
- 3. Use the left/right < I ▶ buttons to select year or month, and press the [ENTER] button.



 Use direction buttons (▲▼ ◄ ►) to select a desired date, and press the [ENTER] button. You will see the "Setting Holiday" screen.

You will see the "Setting Holiday" screen.

- Ex : Select January 14th and check on <1/14> only to make every January 14th a holiday. Check both on <1/14> and <Jan 2nd Wed> to make every January 14th and 2nd Wednesday of January holidays.
- 5. When the Holiday setup is done, press <OK>.



Using the Calendar

Using the mouse may help make setup easier.

① Select year and month.

Select the left/right < I > key on the left/right side of year/month and press [ENTER] button to adjust by 1 year/month.

- 2 Use direction buttons to select a date and press $[\hbox{\bf ENTER}]$ button.
 - A date with recorded data to be searched will appear in yellow in the System Log, Event Log, Time Search and Event Search.

main menu

Permission Management

You can set permissions of each user over the DVR's specific function and settings.

Setting the Administrator

You can set and change Administrator's ID and password. The administrator can use and set all menu items and functions.

Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <System> window to move to <Permission Management>, and press [ENTER] button.
- 2. Select <Admin>. A dialog for Admin ID and Password input appears.
- Use direction buttons (▲▼ < ►) to move to a desired item, and set the ID and password.
 - The initial administrator ID is "admin" and the password should be set when logging in for the first time.

Admin	Group	User	Setup
For security, please set :	at least 8 characters in con	bination of alphabet and	numbers.
If less than 10 digits, it n	nust include special charac	ters.	
· ID	admin		
New Password	•••••	0	
Confirm P/W	********		

- should be set when logging in for the first time.
 Please change your password every three months to safely protect personal information and to prevent the damage

of the information theft. Please, take note that it's a user's responsibility for the security and any other problems caused by mismanaging a password.

- If you click < ① >, a simple guideline to setting the password is shown.
- 4. When the administrator setup is done, press <OK>.

Using Virtual Keyboard

- For alphanumeric inputs, the virtual keyboard window appears.
- ② Use direction buttons (▲▼ ◄ ►) to move to a desired character, and press the [ENTER] button.
- ③ In the upper text input box of the virtual keyboard, there displays a list of candidate words containing the selected character.
- ③ Select a word from the list, or use the keyboard to enter the whole word.
 - If there are many of candidate words, use < □, □ > buttons to move between them forward and backward.

⑤ Select <OK>.

- Entered word is applied.
- For upper case letters, use <**Caps Lock**> button.
- For special characters, use <**Shift**> button.
- Using the virtual keyboard is the same to a normal keyboard use in your region.
- You can enter only lower-case alphabets and numeric values for the user ID.
- For the password, use alphabets and special characters excluding < \ > and <">.
- You can use number buttons on the remote control.



Setting the Group

You can create user groups and setup permissions for those user groups. You can register a user for each group in <**User**>.

Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <System> window to move to <Permission Management>, and press [ENTER] button.
- Select <Group>.
 A window for <Add>, <Delete>, <Rename>, and
 <Group Authority> setup appears.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Add, Delete, Rename : You can add, delete, rename a group or modify the permissions given to the group.

The virtual keyboard appears when <**Add**> or <**Rename**> was selected. You can add up to 10 groups.

- Add : When you first run the DVR with the admin account, only the admin account exists. Add has already been deactivated. Select <**Add**> to display the virtual keyboard. Enter a group name. You can add up to 10 groups.
- Delete : Deletes a user group that is already registered. Selecting Delete will delete all user accounts belonging to that group.
- Rename : Renames a group that is already registered. Select < Rename> to display the virtual keyboard.
- For entering a group name, refer to "Using Virtual Keyboard". (Page 36)
- Group Authority : Sets permissions to access menu items of each group. Users of a group can access checked functions.
- 4. When the group setup is done, press <OK>.

To set the group authority

You can set the permissions of the group users to access the menu according to the channel.

- Select a menu to which the group permission is assigned. The menu where the group permission is assigned will be displayed in the Live menu when a group user logs in.
- Live View : You can set the permission to access the Live screen according to the channel.
 - SRD-493 shows a list of 4 channels in Channel Setup window.
- Search : You can set the permission to access the Search menu according to the channel.
- Backup : You can set the permission to access the Backup menu according to the channel.

▲ Permis	sion Managemen	ıt		
Admin	Group	User	Setup	-
· Group	ABC	Add	Delete Rename	
Group	Channel Setup			
Back	All 1 2 5 6 9 10 13 14	3 7 11 11 15 Cancel	4 8 12 16	
	ок	Cancel		

2. Select <OK>.

Select and assign a group user so that the user can access the specified menu.

Permission N	lanagemer	nt		
Admin	Group	User	Setup	
· Group		Add	Delete Rename	
Live View	Setup			
Search	Setup			
Backup	Setup			
	ОК	Cancel		

To restrict the user permissions

If the admin restricts all permissions of an added group, the users belonging to that group can access only the default minimum menus and can change the user's own password only.

- Start the DVR. If all permissions are restricted, only the Login dialog should appear.
- 2. Log in with a registered user ID.



3. Right-click any area on the screen. If all permissions are restricted, only the accessible context menus should appear.

SAMSUNG	2015-01-01 01:10:25 SAMSUNG
SAMSUNG	SAMSUNG Auto Off Freeze
SAMSUNG	SAMSUNG BRood Uer Henu Hide Launcher
SAMSUNG	

To change the user password

If you log in with a user account that is restricted to access the menu, you can change your own password only.

- **1.** Log in with your account.
- 2. Select <User Menu>. The Permission Management setup screen appears.
- **3.** Select < **Permission Management**>. The Password setup dialog appears.
- 4. Enter a new password.
- Select <OK>. You change to the password will be applied.

User		
	at least 8 characters in combination of alphabet and numbers. nust include special characters.	
· ID	USER	
· New Password		
Confirm P/W	+++++++++++++++++++++++++++++++++++++++	

Setting the User

Users can be added only if a group was created in <Group> menu.

- Use the up/down buttons (▲ ▼) in <System> window to move to <Permission Management>, and press [ENTER] button.
- 2. Select <User>. A window for Add User appears.
- Use direction buttons (▲▼ ◄ ►) to select <Add> from the window.
 A window for "Add User" appears.
 You can configure the Network Viewer settings including name, ID, viewer, Select Group and password.
 Result of the user setup appears in the <User> window.
 To change the user property, use "Edit User".
 The "Edit User" window appears when you select a desired item to be changed in the <User> window.
- Viewer : If you select < Use>, you will be given access to the Web Viewer and Network Viewer.
 - Refer to "Connecting Web Viewer". (Page 83)
 - For more information about use of SmartViewer, refer to the SmartViewer's user guide.
- 4. When the user setup is done, press <OK>.



L Permis	ssion Management	
Admin	Group User Setup	
· Group	Add User Add	
Gro	Name Delete Delete Vewer Not Used Vewer Select Group ABC ABC Confirm PW OK Cancel	
	 ↔ Previous/Next Page 	
	OK Cancel	

Setting Permissions

You can set restricted access for all general users. Items with restrictions will require logging in for use.

Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <System> window to move to <Permission Management>, and press [ENTER] button.
- 2. Select <Setup>.

The Restricted Access, Restriction on Network Access, Auto Log out, Manual Input of ID setup screen appear.

- Use direction buttons (▲▼ < ►) to move to a desired item, and set the value.
- Restricted Access : All menu items allowed for a user can be set with restricted access.
 - Checked (🗹) : Restricted
 - Not checked (
) : Accessible
 - If it is not checked (
) in <Restricted Access>, any user can access the item no matter what the <Group Authority> setting.
 - If it is checked () in <**Restricted Access**>, a user can access the item only if the user has permission in <**Group** Authority> setting.
- Restriction on Network Access : Restricts remote access from a < Restricted Access> network.
 - All Network : Restricts all access instances via Network Viewer and Web Viewer.
 - Web Viewer : Restricts access via the Web Viewer.
- Auto Log out : A user will be automatically logged out if there is no operation on DVR for over set period of time.
- Manual Input of ID : Prompts you to enter the user ID manually for the login process.
 - Checked ($\ensuremath{\overline{\square}}$) : Encloses the registered user IDs with the [*] symbols.

Use the virtual keyboard to enter the user ID.

4. When the permission setup is done, press <OK>.





System Management

You can check the system version, update to a newer version, as well as data backup and initialization.

Checking the System Information

You can check the current system version, broadcasting system, MAC address. You can update the system. Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <System> window to move to <System Management>, and press [ENTER] button.
- **2.** Check the Software Version, Broadcast Format, and MAC Address.
- System Information : Shows the current system's information.

The values can not be changed by a user.

- S/W Upgrade : Updates the DVR's software up to date.
- DVR Name : Assigned name will be displayed in Network Viewer, when connected to the DVR.

· Updating the Software

- 1. Connect a device storing the software to be updated. (It may take about 10 seconds to recognize the device.)
 - Upgradeable devices include USB memory and network device.
 - To update the network, the current DVR should have been connected to the network.
 Upgrade via the proxy server may not be enabled due to the restricted access.
- 2. Select <System Management> from <System> window.
- 3. Select < System Information>.
- 4. When the recognized device appears, select < Upgrade>.
 - The <Upgrade> button will be activated only if the current <Software Version> of the <System Information> is same to or older than that of <S/W Upgrade>.

5. Press <OK> in the "System Upgrade" window.

While updating, it shows the progress.



System Manager

em Informa



System Ir	formation	1	Settings		
· Software \	nformation — ^{Iersion} S/W Upgra Software up	ade	mddhhmmss		
· DVR Nam	•	DVR		ОК	
			Previous		

- **6.** When the updating is done, it automatically restarts. Do not turn the power off until it finishes restarting.
- Ø

If "Upgrade Failed" appears, retry from the step 4. When you experience continued failure, consult the service center for assistance.

When you perform S/W update remotely using Smart Viewer, it may take a max of 3 minutes to complete the update since Smart Viewer popped up a confirmation message. This is to guarantee that the DVR set operates stably. For a faster update, use the USB cable to connect to the DVR set.



Settings

You can copy and import the DVR settings by using a storage media.

Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <System> window to move to <System Management>, and press [ENTER] button.
- Select <Settings>. A window of storage device and load factory default appears.
- Use direction buttons (▲▼ < ►) to move to a desired item, and export or import settings data to a storage device.
- Storage Device : Shows the connected storage device.
- DVR→USB : Exports DVR settings to the connected storage device.
- USB→DVR : Imports DVR settings from the storage device and applies to the DVR.
- If <Include Network Settings> is checked, the network settings will be imported too.
- After importing the configuration, please reboot DVR to take effect.
- Load Factory Default : If <Default> is selected, a confirmation dialog for "Load Factory Default" prompts. Press <OK> to initialize the system to the factory default.
 - DVR will restart after loading factory default.
- 4. To move to the previous menu, press < Previous>.

Storage Device OMB (Remained Capacity) DVR+US8 38010100 Exect USB+DVR No data Import
Include Network Settings



Log Information

You can browse logs on the system and events.

System Log

System Log shows log and timestamp on every system start up, system shutdown, and changes on system settings.

- Use the up/down buttons (▲▼) in <System> window to move to <Log Information>, and press [ENTER] button.
- 2. Select <System Log>.
 - Refer to "Using the Calendar". (Page 35)
 Click on the calendar <=> to display the calendar window.
- Type : When there are too many logs, you can display logs of the desired format by selecting the type.
- Export : All logs recorded in the DVR are exported to the storage media.
- **3.** Use direction buttons ($\blacktriangle \lor \blacklozenge \triangleright$) to move to a desired item, and press <**Search**>.

System Log	Event Log	Backup Log
Search Day	2015-01-01	Search
First Page	Last Page	Type View all
No.	Log List	Date/Time
		✓ IPrevious/Next Page
Export	Pre	vious

Event Log

Event log shows recorded events on alarms, motion detections and video loss. It also shows the log and its timestamp.

Using the mouse may help make setup easier.

- Use the up/down buttons (▲▼) in <System> window to move to <Log Information>, and press [ENTER] button.
- 2. Select < Event Log>.
- Use direction buttons (▲▼ < ►) to move to the desired item.
- 4. Set Search Day, Channel and Type and the press <Search>.
 - Refer to "Using the Calendar". (Page 35)
 Click on the calendar < > to display the calendar window.

System Log	Event Log	Backup Log
Search Day	2015-01-01	Search
First Page	Last Page CH	All CHs Type View all
No.	Log List	Date/Time
7	Motion Detection [CH 7]	2015-01-01 00:02:18
6	Motion Detection [CH 6]	2015-01-01 00:02:18
5	Motion Detection [CH 5]	2015-01-01 00:02:18
4	Motion Detection [CH 4]	2015-01-01 00:02:18
3	Motion Detection [CH 3]	2015-01-01 00:02:18
2	Motion Detection [CH 2]	2015-01-01 00:02:18
1	Motion Detection [CH 1]	2015-01-01 00:02:18
		↔ Previous/Next Page

Backup Log

You can find out who backed up and the details (backup time, channel, device to use, file format, etc.). Using the mouse may help make setup easier.

- In the <System> window, press the up/down (▲▼) button to move to <Log Information> and press the [ENTER] button.
- 2. Select <Backup Log>.
- Use the four direction buttons (▲▼ ◄ ►) to move to a desired item.
- Specify a search term and select <Search> in the right corner.

Backup details for the search term will be listed.

Log Information	rmation	
System Log	Event Log	Backup Log
Search Day	2015-01-01	~ 🗰 2015-01-02 ≑ Search
First Page	Last Page	↔ I Previous/Next Page
No.	User	Date/Time
		Q
Export	Pre	vious

SETTING THE DEVICE

You can configure the settings of: Camera, Storage Device, Remote Device and Monitor.

Camera

Setting the Camera

You can set Video, Audio, Channel Name and Dwell Time of a Camera.

Using the mouse may help make setup easier.

- 1. Press the [MENU] button on the remote control.
- Use the left/right button (◄ ►) to select < Device>. Device setting menu is selected.
- Use the up/down buttons (▲▼) to move to <Camera>, and press [ENTER] button.



4. Select <Camera>.

You will see a window where you can configure the camera settings including Video, Audio, Channel Name, SEQ-Dwell Time and Privacy Region.

- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Video
 - <**ON/OFF**> : You can turn ON/OFF the selected channel's camera.
 - < Covert1 > : Shows information other than the video of the selected channel.
 - For privacy protection, it does not display the video while the recording continues.
 - **Covert2**> : Shows nothing but an empty screen while the recording continues.
- If the channel is set to <Covert1> or <Covert2> mode, the channel's sound is not hearable. However, the channel's sound is recorded if its Audio setting is set to <ON>, even the sound is not heard in Live mode.
- Audio
 - If set to $<\!ON\!>$, you can turn the audio of the channel ON on the Live screen.
 - If set to <OFF>, the channel's audio is off on the Live screen and not recorded.
 - Audio in/ Audio out is available for only 1 channel.
- CH Name : Up to 15 characters including blanks are allowed.
 - Refer to "Using Virtual Keyboard". (Page 36)
- SEQ-Dwell Time : You can set the dwell time between channels for the Live screen.
 - If set to <**OFF**>, the channel is not listed in the Auto Sequence mode.
- Type : Displayed the HD/SD type according to the camera connected.

Can	nera					
Can	nera		PTZ			
CH	Video 🖣	-	Audio	CH Name	SEQ-Dwell Time 👻	Туре
1	ON	*	OFF 👻	CAM 01	5 sec 👻	HD 🔤
2	ON	Ŧ	OFF 👻	CAM 02	5 sec 👻	HD
3	ON	*	OFF 👻	CAM 03	5 sec 👻	HD
4	ON	Ŧ	OFF 👻	CAM 04	5 sec 👻	HD
5	ON	Ŧ	OFF 👻	CAM 05	5 sec 👻	HD
6	ON	Ŧ	OFF 👻	CAM 06	5 sec 👻	HD
7	ON	Ŧ	OFF 👻	CAM 07	5 sec 👻	HD
8	ON	Ŧ	OFF 👻	CAM 08	5 sec 👻	HD 🗸
S	creen Setup		Privacy R	egion	« → Previous/Next Pa	age
			OK	Cancel		

• Screen Setup : The video appeared on the screen may vary depending on the channel's camera, configure the DVR display to your preferences.

Select a channel and adjust the < (Brightness)>,

- < (Contrast)>, and < (Color)> of the selected channel.
- Press the <Init> to initialize settings back to the default.
- Privacy Region : You can specify a certain area of the camera video to be protected for your privacy.
- 6. When the camera setup is done, press <OK>.



To set the privacy region

Select < Privacy Region>.

- ② When "Privacy Region" window appears, select a channel and set the area of privacy zone.
- To set the area in "Privacy Region" window

In the "**Privacy Region**" window, select desired region from <

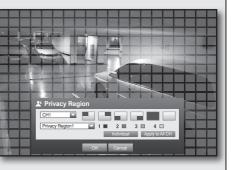
Privacy Region

You can specify up to 4 privacy zones for each channel, which can be identified by the color.

- 1 Purple 2 Green 3 Blue 4 □ Yellow
- To set the area using <Individual> selection

When selected <Individual>, "Privacy Region" window disappears and you can select cells one by one. When the privacy area setup is done, Right-click to select <Menu> in the context menu or the [MENU] button on the remote control to display the "Privacy Region" window again.

- Clear All : Selected cell is removed from the Privacy Region.
- Menu : After selecting individual privacy areas, move to the "Privacy Region" window.
- If selected < Apply to All CH>, selected privacy area is applied to all channels.
- ③ When completing the privacy zone settings, click <OK>.



Clear All Menu

Setting the PTZ

To use Camera's PTZ functions, ID and protocols of each camera and DVR should be matched. For other settings, refer to the <**Remote Device**> settings. (Page 51)

- Use the up/down buttons (▲ ▼) in <Device> window to move to <Camera>, and press [ENTER] button.
- 2. Select <PTZ>. A window of PTZ settings appears.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and select it.
- Port : Select a port control method for the camera that is connected to a channel.
 - You have two choices : <RS-485> and <Coaxial>.
- ID : Set the ID of the connected camera of each channel.
 You can easily setup by using the numeric buttons on the remote control.
- Protocol : Set the protocol of the connected camera of each channel.
- You can check the camera's ID and protocol if you turn the camera off and on after connecting it to the DVR.
 - When camera is connected through coaxial port, DVR would recognize AHD or SD camera automatically and apply proper protocol.
 For AHD camera, ACP protocol is applied.
 - For SD camera, PELCO-C protocol is applied.
- 4. When the PTZ setup is done, press <OK>.

CH	Port 🗸		ID		Protocol	
1	RS-485	*	0	÷	None	-
2	RS-485	*	1	\$	None	,
3	RS-485	*	2	\$	None	,
4	RS-485	*	3	¢	None	,
5	RS-485	*	4	\$	None	,
6	RS-485	*	5	\$	None	,
7	RS-485	+	6	¢	None	,
8	RS-485	*	7	\$	None	,
Auto : D: ACP, SI	D: PELCO-C			44 H> P	revious/Next Pa	ige

Storage Device

You can check information on storage devices.

Confirming Devices

You can check storage devices and their free space, usage as well as status. Devices available are HDD, and USB devices (Memory, HDD).

- Use the up/down buttons (▲▼) in <Device> window to move to <Storage Device>, and press [ENTER] button.
- 2. Select < Device>.
- No. : Shows the assigned number of the internal HDD.
- Used/Total : Shows the used/total capacity of the storage device.
- Usage : Sets the storage device's usage.
 - USB memory is used only for backup.
 - External USB HDD is used for extension and backup.
- Status/Management : Shows the current status of the HDD, as in Normal/Check/Replace.
 - Normal : Available to use
 - Check : Available to use but recommended to replace
 - Replace : Requires immediate replacement.
- 3. To move to the previous menu, press <OK>.

Device		Format	HDD Alarm	
Device	No.	Used/Total	Usage	Status/Management
HDD	1	0.97G/1.97T	Internal	Normal

MAIN MENU

Formatting

You can format a storage device. Using the mouse may help make setup easier.

- Use the up/down buttons (▲▼) in <Device> window to move to <Storage Device>, and press [ENTER] button.
- **2.** Select <**Format**>. A window for selection of device for formatting appears.
- Use direction buttons (▲▼ < ►) to select a device to be formatted.

🗉 Storage I	Device		
Device	Forma	at HDD Alarm	
Device	Select	Used/Total	Usage
HDD	1	0.97G/1.97T	Internal
Format			
		OK Cancel	

- Select <Format> on the bottom of the screen. Press <OK> on the "Manage" confirmation window will start formatting the selected device.
- 5. When the formatting is done, press <OK>.

•	Storage	Device		
	Device	Forma	at HDD Alarm	
	Device	Select	Used/Total	Usage
	HDD	1 💟	0.97G/1.97T	Internal
			atting deletes all recordings. Proceed formatting? cording stops few second. OK Cancel	
Ŀ	Format			
			OK Cancel	

HDD Alarm

10

You can set alarm settings for HDD defects such as Check Alarm Output Port, Replace Alarm Output Port, and its duration.

- **1.** Use the up/down buttons $(\blacktriangle \nabla)$ in <**Device**> window to move to <Storage Device>, and press [ENTER] button.
- 2. Select <HDD Alarm>. A window for setting HDD check and replace output ports and their durations appears.
- **3.** Use direction buttons $(\blacktriangle \lor \blacktriangleleft \triangleright)$ to move to the desired item.
- Check Alarm Output Port : If HDD generates check alarm, the alarm signal will output to the specified alarm output port.
- Replace Alarm Output Port : If HDD generates replace alarm, the alarm signal will output to the specified alarm output port.
- Duration : Sets the alarm duration for the alarm signal and beep sound.
 - If <BEEP> was selected, a beep will sound.
 - <Check> status means that the HDD is operating but it has problems that require technical examination. $(\Box o)$ appears on the Live screen.
 - Replace> status means that the HDD has defect and requires immediate replacement. () appears on the Live screen.
 - If the installed HDD is not recognized properly, a confirmation popup will appear.
- 4. When the HDD Alarm setup is done, press <OK>.

Storage De	vice		
Device	Format	HDD Alarm	
Check Alarm Duration	Dutput Port 🔲 BEE	P	
Replace Alarr Duration	n Output Port 🔲 BEE	P	
_	OK	Cancel	_

Remote Devices

You can set the RS-485 communication for use of PTZ Camera and system keyboard with the DVR. Using the mouse may help make setup easier.

- Use the up/down buttons (▲▼) in <Device> window to move to <Remote Device>, and press [ENTER] button.
- 2. Use direction buttons (▲▼◀ ►) to move to the desired item, and press [ENTER] button.
- **3.** Set the values of each communication setup of the remote device.
- Baudrate : Baud rate settings of the DVR, PTZ camera and system keyboard should be matched for proper operations.
- Make sure to match IDs of the DVR, system keyboard and Remote Control, and press <OK>.

A Remote D	evice				
Baudrate 9600 v	Parity None 👻	Data 8 👻	Stop Bit	Transfer type Half Duplex 👻	
System Keyboard	OFF V	ID 1			
Remote Control	ON 🔽	ID 0			
		OK Ca	ncel	-	



For changing the remote control's ID, refer to "Changing the Remote Control ID". (Page 14)

Monitor

You can configure information to be displayed and its format for Spot Out monitor.

Setting the Monitor

Using the mouse may help make setup easier.

- Use the up/down buttons (▲▼) in <Device> window to move to <Monitor>, and press [ENTER] button.
- 2. Select < Monitor>.
- Use direction buttons (▲▼ < ►) to move to a desired item, and set the value.
- Event Display : Sets the dwell time of the event channel display on the monitor when an event occurs.
 If selected <Continuous>, it displays the channel until you press [ALARM] button to release it.
- Display : Displays only checked items on the monitor screen.

•	Monitor
	Monitor Mode
	- Event Display OFF OFF OFF OFF OFF OF OFF OF O
	- VGA/HDMI 1920X1080 - HDMI Resolution Auto Detection 0N
	Display Position Setup CK Cancel

- Multi CH SEQ Time : Sets the interval between automatic display switching in 4-split and 9-split mode of the Live screen.(SRD-1684)
- VGA/HDMI : Set your preferred screen resolution to <VGA> or <HDMI>. If the monitor does not support selected resolution of <VGA> or <HDMI>, it may not display video properly.
- HDMI Resolution Auto Detection: If the option is checked on and the HDMI is available, DVR will automatically adjust optimized resolution based on monitor's setting. If you need to configure the resolution manually, please turn the option off.
- 4. When the monitor setup is done, press <OK>.

Screen Setup

Some monitors may not display information (camera name, icon, time information, etc.) about the DVR, depending on the condition. Then, you can change the display position of the data.

- In the <Device> window, press the up/down (▲▼) button to move to <Monitor> and press the [ENTER] button.
- 2. Select the <Monitor> item.
- Select <Display Position Setup> in the bottom. You will move to the <Display Position Setup> window.
- **4.** Use the four direction buttons or the number buttons on the remote control to adjust the data position.

	5a 🖶	19 19	2015-01-0	1 01:10:25	ིᇻᆂᅌᅊᇴᅋ
	CAM 01	8. jî 0	CAM 02 ₩281 ≪ ే≲∎`©	CAM 03 H008 r∢ 🛠 ∎`©	CAM 04 +003 ≪i 茶∎`©
		Displa	ay Position Setup		
-	CAM 05 ⊮2081 *4	<u>*</u> .	30	30 🛃	<u>* i o</u>
				30	
	CAM 09 ⊮339 ≪	81	ОК	Cancel	% ∎* 0
_	CAM 13 1009 14	×** 0	CAM 14 ⊭229 ⊶ ే⊗ ∎`©	CAM 15 ₩238 ≈4	CAM 16 +009 ≪ % ∎`©

Setting the Screen Mode

You can configure the Live screen and Split Screens. Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <Device> window to move to <Monitor>, and press [ENTER] button.
- 2. Select <Mode>.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Live Screen : Select split modes for the Live screen. 16-, 9-, and 4-split screens are included by default.
- Play Screen : Select split modes for the playback screen. Only the 13-split screen is optional. Black shows the playback while white shows the Live screen.
- 4. When the screen mode setup is done, press <OK>.

•	Monit	or								
	Monito	or		Node						
l	- Live	Screen						2		
	- · Play	Screen	V	¥	V					Ĩ
							🗆 Liv	e	Play	
					OK	Cano	el			

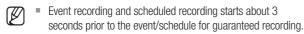
SETTING THE RECORDING

You can setup scheduled recording, event recording and other recording related settings.

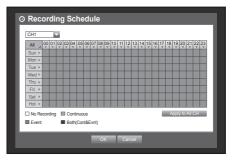
Recording Schedule

Make your reservation on a date and time to schedule the recording on specified time. Using the mouse may help make setup easier.

- 1. Press the [MENU] button on the remote control.
- Use the left/right button (◄ ►) to select < Record>. Record menu is selected.
- Use the up/down buttons (▲▼) to move to <Recording Schedule>, and press [ENTER] button.
- Select < Recording Schedule>. A window of scheduled recording setup appears.
- Use direction buttons (▲▼ < ►) to move to a desired item, and set the value.
- Channel : Select a channel to set the recording schedule time and date format.
- Recording type : Select each time cell, and then select a type to start recording.
- Apply to All CH : If selected <Apply to All CH>, "Apply to All CH" window appears.
 Press <OK> to apply the setup to all channels.
- 6. When the recording schedule setup is done, press <OK>.









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MAIN
Ē
Z
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MENU

Color	Part Names	Functions
White	No Recording	No schedule / event recording
Orange	Continuous	Scheduled recording only
Blue	Event	Event recording only
Green	Both(Cont&Evnt)	Both scheduled / event recordings

Event Record Duration

You can set the beginning and ending point of a recording on an event. Using the mouse may help make setup easier.

- Use the up/down buttons (▲▼) in <Record> window to move to <Event Record Duration>, and press [ENTER] button.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Pre Event : The recording of an event will start at a pre-determined time prior to the actual occurrence of the event. If it is set to 5 seconds, the recording begins from 5 seconds before the event.
- POST Event : The recording will continue for a pre-determined time after the actual end of an event.
 If it is set to 5 seconds, the recording ends in 5 seconds after an event.
- 3. When the event recording duration setup is done, press <OK>.

REC Quality / Resolution

You can set resolution, FPS, and quality of recordings by channel, and by recording type of standard / event. For more information about the resolution, refer to the "**Product Specification**" section. (Page 114)

Setting Standard Recording Properties

You can set each channel's resolution, quality and FPS for normal recordings.

- Use the up/down buttons (▲ ▼) in <Record> window to move to <REC Quality & Resolution>, and press [ENTER] button.
- 2. Select <Standard>.
- 3. When the recording setup is done, press <OK>.

Standa	aru	Ev	ent			
CH	Resolut	ion 👻	Record Rate	•	Record Quality 🗸	Туре
1	CIF	Ŧ	7fps	¥	Level4 👻	SD
2	CIF	*	7fps	Ŧ	Level4 👻	SD
3	CIF	*	7fps	Ŧ	Level4 👻	SD
4	CIF	Ŧ	7fps	Ŧ	Level4 👻	SD
5	CIF	*	7fps	Ŧ	Level4 👻	SD
6	CIF	*	7fps	Ŧ	Level4 👻	SD
7	CIF	Ŧ	7fps	Ŧ	Level4 👻	SD
8	CIF	*	7fps	Ŧ	Level4 👻	SD
					 ↔ Previous/Nes 	t Page

CH	Pre Event 🗸		POST Event 🗸	
1	OFF	-	1 min	*
2	OFF	-	1 min	*
3	OFF	-	1 min	*
4	OFF	*	1 min	-
5	OFF	*	1 min	-
6	OFF	*	1 min	-
7	OFF	*	1 min	-
8	OFF	*	1 min	-
-				

Setting Event Recording Properties

You can set each channel's resolution, quality and FPS for event recordings.

Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <Record> window to move to <REC Quality & Resolution>, and press [ENTER] button.
- 2. Select < Event>. Event recording setup window appears.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and select it.
- Resolution : Sets the resolution of the recorded screen.
- Record Rate : Image Per Second, means the frames recorded per a second.
- Record Quality : Sets the recording quality.
- 4. When the Event recording setup is done, press <OK>.

Record Option

You can set the recording to stop or overwrite when the HDD is full.

- Use the up/down buttons (▲ ▼) in <Record> window to move to <Record Option>, and press [ENTER] button.
- 2. Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Disk End Mode : If selected <**Overwrite**>, recording will continue despite the HDD full while overwriting the oldest. If selected <**Stop**>, the recording will stop when the HDD is full.
- Disk End Beep : If selected <**Stop**>, the button is activated. If you check it, the beep will sound on the disk full and the recording stops.
- Auto Delete : If you check it, Record Period setup is activated. If you specify the auto deletion period, the recording data before the period will be deleted automatically.
- This option will be enabled only if Disk End Mode is set to <0verwrite>.
- HDD Free Space : Shows remaining free space available on the HDD.
- Recordable (days/hours) : Shows estimation of remaining days and hours for recording, based on the remaining free space.
- 3. When the recording option setup is done, press <OK>.

Disk End Mode	Overwrite Disk End Reen	
. Auto De	Plete The recording information will be deleted. Do you want to proceed? OK Cancel	

56	main	menu	

Standa	rd E	vent			
CH	Resolution -	Record Rate	•	Record Quality -	Туре
1	4CIF 👻	7fps	Ŧ	Level4 👻	SD 🖌
2	4CIF 👻	7fps	Ŧ	Level4 👻	SD
3	4CIF 👻	7fps	Ŧ	Level4 👻	SD
4	4CIF 👻	7fps	Ŧ	Level4 👻	SD
5	4CIF 👻	7fps	Ŧ	Level4 👻	SD
6	4CIF 👻	7fps	Ŧ	Level4 👻	SD
7	4CIF 👻	7fps	*	Level4 👻	SD
8	4CIF 👻	7fps	*	Level4 👻	SD
				↔ >> Previous/Next	Page

SETTING THE EVENT

You can set recording options when motion, image loss detection or tampering event occurs.

Motion Detection

You can set target detection region and motion, as well as the alarm signal output. When the motion detection region is set, it detects motion within the area.

Using the mouse may help make setup easier.

- 1. Press the [MENU] button on the remote control.
- Use the left/right button (◄ ►) to select <Event>. Event setting menu is selected.
- Use the up/down buttons (▲ ▼) in <Event> window to move to <Motion Detection>, and press [ENTER] button. A window of motion detection area setup appears.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Mode : Sets whether to activate motion detection.
- Sensitivity : Sets the sensitivity level of the motion detection.
- Alarm : Sets the alarm output method.
 - For further information on alarm output, refer to "HDD Alarm > Alarm". (Page 50)
- Alarm Duration : Sets the duration of alarm signal and alarm sound.
- 5. When the motion detection setup is done, press <OK>.

Setting the Motion Detection Area

- Select < Motion Region>.
- ② When "Motion Region" window appears, select a channel for detection and set the area of motion detection.
- To set the area in "Motion Region" window

In the "Motion Region" window, select desired region from <

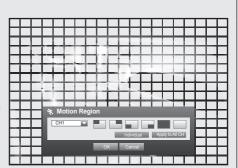
• To set the area using <Individual> selection

In the "**Motion Region**" window, you can select cells individually by using <**Individual**>.

When selected <**Individual**>, "**Motion Region**" window disappears and you can select cells one by one. When the motion area setup is done, press the <**Menu**> on the screen or the [**MENU**] button on the remote control to display the "**Motion Region**" window again.

- Select : Selected cell is set to be a part of motion detection area.
- Unselect : Selected cell is removed from the motion detection area.
- Inverse : Unselected cells are set to be the motion detection area.
- Menu : After selecting individual motion areas, move to the "Motion Region" window.
 If selected < Apply to All CH>, selected motion area is applied to all channels.
- ③ When the motion detection setup is done, press <OK>.

CH	Mode 🖣	-	Sensitivity -	Alarm 👻	Alarm Durati	on 👻
1	OFF	Ŧ	Level10(High) 👻	None	10 sec	Ŧ
2	OFF	Ŧ	Level10(High) 👻	None	10 sec	Ŧ
3	OFF	Ŧ	Level10(High) 👻	None	10 sec	Ŧ
4	OFF	¥	Level10(High) 👻	None	10 sec	Ŧ
5	OFF	Ŧ	Level10(High) 👻	None	10 sec	Ŧ
6	OFF	Ŧ	Level10(High) 👻	None	10 sec	Ŧ
7	OFF	¥	Level10(High) 👻	None	10 sec	Ŧ
8	OFF	Ŧ	Level10(High) 👻	None	10 sec	Ŧ
				≪ ≫	Previous/Next Pa Motion F	



✓ Select

Unselect

Inverse

Menu

Video Loss Detection

You can set the alarm to be generated on a camera disconnection, which causes a video loss.

Using the mouse may help make setup easier.

 Use the up/down buttons (▲ ▼) in <Event> window to move to <Video Loss Detection>, and press [ENTER] button.

A window of video loss detection area setup appears.

- Use direction buttons (▲▼ < ►) to move to a desired item, and set the value.
- Video Loss State : Sets whether to activate video loss detection.
- Alarm : Sets the alarm output method.
 - For further information on alarm output, refer to "HDD Alarm > Alarm". (Page 50)
- Alarm Duration : Sets the duration of alarm signal and alarm sound.
- 3. When the video loss detection setup is done, press <OK>.

Tampering Detection

You can set to detect tampering attempts and trigger events, such as sudden change of camera's framing direction, blocked lens and other overall change of scenes from the video.

Using the mouse may help make setup easier.

 Use the up/down buttons (▲▼) in <Event> window to move to <Tampering Detection>, and press [ENTER] button.

Tampering detection settings screen appears.

- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Mode : Set whether to use Tampering Detection or not.
- Sensitivity : Set the sensitivity level of tampering detection.
- Alarm : Set the alarm output method.
- Duration : Set the alarm signal output and its dwell time.
- 3. When the tampering detection setup is done, press <OK>.
 - Since the tampering detection is designed and optimized to function in accordance with the user defined sensitivity level, it may not render a significant difference in detection with varied sensitivity in general monitoring situations.
 - When the tampering detection mode is set <0N>, it is recommended that the pre event recording time of the corresponding channel should be set to 10 seconds or longer.

1	OFF 👻			
	UFF V	Medium 👻	None	10 sec 👻
2	OFF 👻	Medium 👻	None	10 sec 👻
3	OFF 👻	Medium 👻	None	10 sec 👻
4	OFF 👻	Medium 👻	None	10 sec 👻
5	OFF 👻	Medium 👻	None	10 sec 👻
6	OFF 👻	Medium 👻	None	10 sec 👻
7	OFF 👻	Medium 👻	None	10 sec 👻
8	OFF 👻	Medium 👻	None	10 sec 👻
				Previous/Next Page

CH	Video Loss Sta	te 🗸	Alarm 👻	Alarm Duration 👻
1	OFF	*	None	10 sec 👻
2	OFF	*	None	10 sec 👻
3	OFF	*	None	10 sec 👻
4	OFF	*	None	10 sec 👻
5	OFF	*	None	10 sec 👻
6	OFF	*	None	10 sec 👻
7	OFF	*	None	10 sec 👻
8	OFF	*	None	10 sec 👻
			44.5	 Previous/Next Page
				Help

Alarm Schedule

You can set the conditions and operating hours for scheduled alarms. Using the mouse may help make setup easier.

- Use the up/down buttons (▲▼) in <Event> window to move to <Alarm Schedule>, and press [ENTER] button.
- Use direction buttons (▲▼◀►) to move to a desired item, and set the value.
- Alarm : Sets the alarm output method.
- For further information on alarm output, refer to "HDD Alarm > Alarm". (Page 50)
- ON : Marked in orange, and always generates alarm on scheduled time.
- OFF : Marked in white, no alarm is generated even if an event occurs.
- Event Sync : Marked in Blue, generates alarm only when an event occurs.

When the alarm is generated on the scheduled time, you can stop the alarm by canceling the schedule.

3. When the Alarm Schedule setup is done, press < OK>.

BACKUP

You can check the backup device and set the backup schedule by channel or by time. The product only supports external HDD of USB memory. (Page 115)

Setting the Backup

You can backup the desired data to a connected device. Using the mouse may help make setup easier.

- 1. Press the [MENU] button on the remote control.
- Use the left/right button (◄ ►) to select <Backup>. Backup menu is selected.





- Press the [ENTER] button.
 A backup window appears.
 You can directly access it from the "Live screen menu".
 (Page 24)
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Backup Range : Sets the <**Start**> and <**End**> time for the backup.
- Channel : Sets the channel to backup. You can select multiple channels.
- Device : Select a backup device from the recognized devices.
- Type : Sets the backup data format.
 - DVR : Saved data can be played back only by the DVR.
 - AVI : The backed up images are saved in an .avi format. Gom Player, VLC Player, and Window Media Player are recommended as the media player compatible with this format
 - In case of Windows Media Player, download the latest codec from www.windows7codecs.com and install it prior to use.
 - SEC : Saves data in the Samsung's proprietary format with built-in viewer, which supports immediate playback on a PC.
- File Name : You can set the backup file name.
 - Refer to "Using Virtual Keyboard". (Page 36)
- Check capacity : Shows the size of the selected backup data, used and available capacity of the selected backup device.
- Overlap : Shows a list of overlapping data on a same time according to the number of data. It appears when one channel has multiple data on a certain time point due to changing of time or time zone settings, etc.
 - Refer to time and time zone of "Setting the Date/Time/Language". (Page 33)
- 5. When the backup setup is done, press <OK>.
 - If no available device is recognized for backup, <**0K**> button is not activated.
 - The application may slow down during the backup.
 - You can switch to the menu screen during the backup in operation, but playback of data is not available.
 - The data can be played back on a Webviewer while the backup is in progress but audio does not function.
 - When a memory device is used for backup, it is not available to use the full capacity of the media since the system consumes a part of its capacity.
 - If backup has failed, select "Device > Storage Device" and check the free space of the backup device and check also if the backup device is properly connected.



Pressing the <Exit> during the backup will return to the previous menu, while the backup progresses.



English _61

NETWORK CONFIGURATION

It provides networked monitoring of Live screen from a remote place, and supports mail forwarding function with events. You can configure the network environment which enables such functions.

Please refer to the Quick Guide enclosed when connecting a network with the wireless USB adaptor used only for Samsung DVR.

Connection Mode

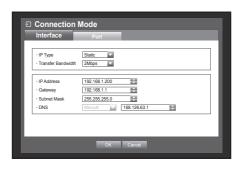
4. Select < Interface>.

You can set the network connection route and protocol.

Setting the Connection

Sets the protocol and environment of the network. Using the mouse may help make setup easier.

- 1. Press the [MENU] button on the remote control.
- Use the left/right button (◄ ►) to select <Network>. Network menu is selected.
- Use the up/down buttons (▲ ▼) to move to <Connection Mode>, and press [ENTER] button.



Connection Mode
 DDNS
 Live Transfer
 Mailing Service

Interface	Port		
IP Type Transfer Bandwidth	PPPoE V 600kbps V		
IP Address Gateway Subnet Mask DNS	192.168.1.200 192.168.1.1 255.255.255.0 Manual	168.126.63.1	
· ID · Password	ID		

- A window of connection mode setup appears.
 5. Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- IP Type : Sets the network connection mode.
- Transfer Bandwidth : Sets the maximum data flow to be transferred. (Upload speed) Options will vary depending on the selected connection mode.
 - For <**Static**>, <**DHCP**> : Select one from 50 kbps ~ 2Mbps, and Unlimited.
 - For <**PPPoE**>, select one from 50 kbps ~ 600 kbps.
- IP Address, Gateway, Subnet Mask, and DNS
 - For <**Static**> : You can directly input IP Address, Gateway, Subnet Mask and DNS.
 - For <**DHCP**> : IP Address, Gateway, and Subnet Mask are set automatically.
 - For <**PPPoE**> : IP Address, Gateway, and Subnet Mask are set automatically.
- ID, Password : In case you selected PPPoE, provide the "ID" and its "Password".

DNS server for <DHCP> and <PPPoE> can be set by user only if you selected <Manual>.

6. When the connection setup is done, press <OK>.

Setting the Port

- Use the up/down buttons (▲ ▼) in <Network> window to move to <Connection Mode>, and press [ENTER] button.
- 2. Select <Port>.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Protocol Type : Select the protocol type between TCP and UDP.
- to Throve to a desired
 "-Mutcast PAders
 [24/2033]
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Protocol Type	TCP
· Device Port	4520 ~ 4524
· UDP Port	8000 ~ 8160
Unicast/Multicast	UDP-Unicast
Multicast IP Address	224.126.63.1
Multicast TTL	5
· HTTP Port	80
Secure Video Transmi	ssion 🔲 ON 👿 OFF
* Multi Browser Support	
Device Port 4505~4530	, HTTP Port 80

- TCP : If compared to UDP, TCP connection is more stable but slow. Recommended for Internet connection.
- UDP : If compared to TCP, UDP connection is less stable but fast. Recommended for use in LAN environment.
- If selected UDP, selections of Device Port, UDP Port and Unicast/Multicast are activated.
- If setting the connection mode to PPPoE, you cannot select UDP for the protocol type.
- Device Port : Initially, <4520~4524> is set. It increases / decreases by 5.
 - TCP: It has better stability and lower speed when compared to UDP, and recommended for internet environments.
- UDP Port : Initially, <8000~8160> is set. It increases / decreases by 160.
- Unicast/Multicast : Select one between UDP-Unicast and UDP-Multicast. If selected Multicast, Multicast IP and TTL are activated.
 - UDP- Unicast : Transfers data packet to an individual client.
 - UDP-Multicast : Allows data communication to multiple clients causing no additional traffic to the network.
- Multicast IP Address : User can directly input.
- Multicast TTL : Select from 0 ~ 255. Initial value for the TTL is set to <5>.
- HTTP Port : Enter the port number for the Web Viewer. Initially, it is set to <80>.
- Multi Browser Support : The Web Viewer can be used with a browser that supports the Silverlight. The multi viewer can be used only if the HTTP port is set to 80, protocol type is TCP and device ports range within 4505-4530.

This is for the Siliverlight's security purposes.

• Secure Video Transmission: Determine the network video transmission data is encrypted or not. Encrypt: ON, Not Encrypt: OFF.

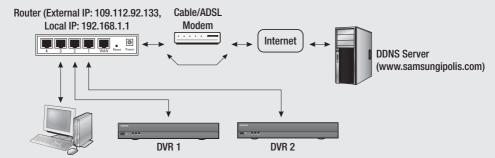
If you set the secure video transmission mode, the max bandwidth performance will be limited. When ON is selected, multi browser is not supported.

4. When the protocol setup is done, press <OK>.

Notification

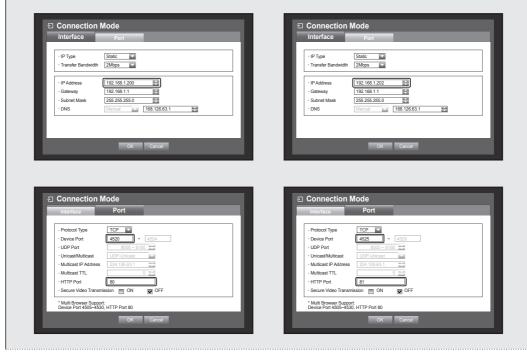
In a multi-browser environment, the <HTTP Port> should be set to 80 (private port). Select one between 4505 and 4530 for RTSP

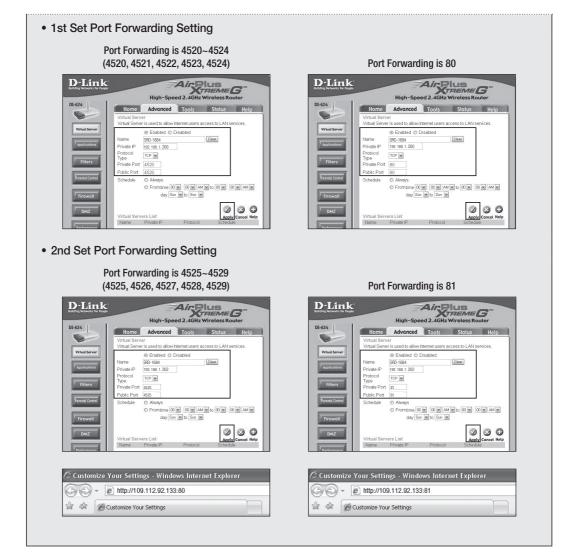
Network Overview



Local PC

Custom	DV	R 1	DV	R 2
System	WEB	RTSP	WEB	RTSP
IP	192.168.1.200	192.168.1.200	192.168.1.202	192.168.1.202
Protocol	TCP	TCP	TCP	TCP
Private Port	80	4520~4524	81	4525~4529
Public Port	80	4520~4524	81	4525~4529





Connecting and Setting the Network

Networking may differ from the connection method, check your environment before setting the connection mode.

When no router is used

- Static mode
- Internet connection : Static PPPoE, leased line, and LAN environments allows connection between the DVR and remote user.
- DVR Network Settings : Set the <Connection Mode> in
 <Interface> menu of the connected DVR to <Static>.
 - Consult your network manager for IP Address, Gateway and Subnet Mask.
- DHCP mode
- Internet connection : Connect the DVR directly to a cable modem, DHCP PPPoE modem or FTTH network.
- DVR Network Settings : Set the <Connection Mode> in
 <Interface> menu of the connected DVR to <DHCP>.

Interface	Port			
	Static			
· IP Type				
Transfer Bandwidth	2Mbps			
	100 100 1 000			
IP Address	192.168.1.200			
Gateway	192.168.1.1			
Subnet Mask	255.255.255.0			
DNS	Manual 🔽 1	68.126.63.1	\$	
	ОК	Cancel		

PPPoE mode

- Internet connection : An PPPoE modern is directly connected to the DVR, where the PPPoE connection requires user ID and password.
- DVR Network Settings : Set the <Connection Mode> in
 <Interface> menu of the connected DVR to <PPPoE>.
 - <ID> and <Password> should be the same to the PPPoE user information.

If you don't know the ID and password, consult your PPPoE service provider.

Interface	Port		
IP Type Transfer Bandwidth	PPPoE		
 IP Address Gateway Subnet Mask DNS 	192.168.1.200 192.168.1.1 255.255.255.0 Manual	168.126.63.1	
· ID · Password	ID		

When a router is used



To avoid IP address conflict with the DVR's static IP, check followings :

· Setting the DVR with a static IP

- Internet connection : You can connect the DVR to a router which is connected to an PPPoE/Cable modem or a router in a Local Area Network (LAN) environment.

Setting the DVR Network

- 1. Set the <Connection Mode> in <Interface> menu of the connected DVR to <Static>.
- 2. Check whether the set IP address is in the static IP range provided by the Broadband Router. IP Address, Gateway, and Subnet Mask : Consult your network manager.
 - Check whether the set IP address is in the static IP range provided by the Broadband Router.
 - If a DHCP server is configured with starting address (192.168.0.100) and end address (192.168.0.200), you should set the IP address out of the configured DHCP range (192.168.0.2 \sim 192.168.0.99 and 192.168.0.201 \sim 192.168.0.254).
- 3. Check the Gateway address and subnet mask are equal to those set in the Broadband Router.

Setting the DHCP IP Address of the Broadband Router

- 1. To access the Broadband Router's configurations, open a web browser on the local PC that is connected to the Broadband Router and enter the router's address (ex : http://192.168.1.1).
- 2. At this stage, make the local PC's windows network configurations to the below example :
 - Ex) IP Address : 192.168.1.2 Subnet Mask : 255.255.255.0 Gateway: 192.168.1.1
- Once connected to the Broadband Router, it prompts with password. While entering nothing to the User Name field, enter "admin" into the password field and press <OK> to access the router configurations.
- Access the router's DHCP configuration menu and set its DHCP server activation, and provide the start and end address.

Set the start address (192.168.0.100) and end address (192.168.0.200).



Above steps may differ from the router devices depending on the manufacturer.

Setting Router's Port Forwarding

- 1. Set the protocol to <TCP>.
- 2. External Port Range : Enter the TCP Port set in the <Device Port> in <Port> menu of the connected DVR. If more than one DVRs are connected to the router, the TCP port can be different.
- Internal PC IP Address : Enter the IP address set to the <IP Address> in <Interface> menu of the connected DVR.
- 4. Internal Port Range : Set the same to the "External Port Range".

Interface	Port		
Protocol Type	TCP		
Device Port	4520	4524	
· UDP Port	8000 ~ 8	60	
Unicast/Multicast	UDP-Unicast		
Multicast IP Address	224.126.63.1	10-10 10-10	
Multicast TTL		5	
HTTP Port	80		
Secure Video Transm	ission 📄 ON	OFF	
* Multi Browser Suppor Device Port 4505~4530	t:), HTTP Port 80		

Above steps may differ from the router devices depending on the manufacturer. Port forwarding is required when you want to access the DVR connected to the router from outside of the router's network.

DDNS

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You can set the DDNS site for a remote user's network connection.

Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <Network> window to move to <DDNS>, and press [ENTER] button. DDNS Setup screen appears.
- 2. Use the virtual keyboard to enter the <Product ID>.
 - Refer to "Using Virtual Keyboard". (Page 36)
 - If selected <OFF> input fields are deactivated.
 - If selected <iPOLiS>, the server name field is disabled.
- DDNS Site : Set whether to use DDNS or not, and select the DDNS site if enabled.
- Server Name : Enter the server name of the selected DDNS site.
- Product ID : Enter the product ID which was registered to the DDNS site.
- Quick Connect : Appears if the <DDNS Site> is set to <iPOLiS>.
 To use this feature, connect the DVR to a UPnP router and set to <Use>.

If the quick connect setup has been cancelled while progressing, it is automatically set to <Not Used>.

3. When the DDNS setup is done, press <OK>.

<u>main menu</u>

DDNS Setting

DDNS is a short form of Dynamic Domain Naming System.

DNS (Domain Name System) is a service that routes a domain name consisting of user friendly characters (ex : www.google.com) to an IP address consisting of numbers (64.233.189.104).

DDNS (Dynamic DNS) is a service that registers a domain name and the floating IP address with the DDNS server so that the domain name can be routed to the IP address even if the IP is changed in a dynamic IP system.

• Setting DDNS in the DVR

Set <Protocol Type> in the <Port> menu of the connected DVR to the following :

Ex) Protocol Type : TCP Device Port : 4520~4524 DDNS Site : iPOLiS

• DDNS Settings of the Router

Select the corresponding menu for the network transfer protocol of the router.

• SETTING UP SAMSUNG iPOLIS DDNS

Go to Your PC

- 1. Open your browser and go to http://www.samsungipolis.com and click <LOGIN>.
- 2. You first need to create an account. Click <SIGN UP>.
- **3.** Follow the account registration instructions on the website.
- **4.** After completing the account registration, login to your account.

ostr	() LOGIN	
	ID PASSWORD	LOGIN
	Remember ID	
	> Not a member yet? Please register first.	SIGN UP
	Have you lost your ID or PASSWORD?	FIND ID/PW >

5. Add your DVR to your account. Click < PRODUCT REGISTRATION>.



6. Create a name(Product ID) for your DVR. Use 4 to 20 alphanumeric characters without spaces. Select classification, model number of the DVR and click <**REGISTER**>.

MY DDNS		-
egister a new IPO tequired information	LIS product and manage your videos in real time.	
PRODUCT ID *	ID must be 4 to 20 alphanumeric characters (A to Z and 0 to 9) To register multiple products, please enter their Product ID separately To change the product ID, you must delete and re-register the product	
	http://www.samsungipolis.com/sdc75300tcme	
CLASSIFICATION *	Shop security Choose product category.	
MODEL NUMBER *	SDR-C75300 V > Choose product model.	
LOCATION	Office > Determine the location to install the system (or camera). > Designate the installation location within 10 alphabet letters.	
DESCRIPTION	Test > Describe product for management purpose.	
		REGISTER > CANCEL

7. After registration, you should see your product in the list.

MY DDNS				HOM IN THE	E > DDNS S	ERVICE > MY DON
Registered products. To add more products to your	account, please click on	PRODUCT REC	ISTRATION	at the hotton.		
To bue more products to your		THODOUT HE		er ine bouon.		
NO Product ID	MODEL		LOCATION	STATUS	VIEW	MANAGEMENT
NO Product ID 1 sdt:75300home	MODEL SDR-C75300		Office	OFF	VIEW	edit delete

Go back to DVR

1. From network tab, click on <DDNS>.

2. Under DDNS Site, select <iPOLiS>.

Samsung iPOLiS website.

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3. Under Product ID, enter the product ID you created on the Under Quick Connect, select < Use> and click < OK>.

DDNS

If the connection was not successful, your router may not be

supporting UPNP. For more information on enabling UPNP on your router, please see Router manual.



	DDNS Site	iPOLIS
	Server Name	www.samsungipolis.com
	Product ID	
	Quick Connect	Not Used Use
	· DDNS Host Address	http://www.samsungipolis.com/
h		
		OK Cancel

聲 T 🗰 🗛 🌀

🕤 Connection Mode DDNS Live Transfer Mailing Service

Network

DDNS	
· DDNS Site	iPOLIS
Server Name	www.samsungipolis.com
Product ID	srd1684home
Quick Connect	Not Used 💟 Use
· DDNS Host Address	http://www.samsungipolis.com/srd1684home
	OK Cancel

Live Transfer

Sets the quality of the image that is transferred from the DVR to the network. Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <Network> window to move to <Live Transfer>, and press [ENTER] button. The Live Transfer window appears.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Resolution: Shows the selected network profile's resolution setting.
- Quality: Shows the selected network profile's image quality setting.
- 3. When the live transfer is done, press <OK>.

CH	Resolution -		Quality 🗸	
1	CIF	Ψ	Low	÷
2	CIF	*	Low	*
3	CIF	*	Low	*
4	CIF	*	Low	*
5	CIF	*	Low	*
6	CIF	*	Low	*
7	CIF	*	Low	*
8	CIF	*	Low	Ŧ

Mailing Service

You can send an e-mail to a DVR-registered user at a specific time interval, or if an event occurs.



- If an event occurs with a channel where the camera's video is set to <0FF> or the remaining recording count is set to <0FF>, only the text notification will be sent to the applicable email address.
- If you set the interval of the e-mail notice too short, the e-mail server may consider it as spam that will not be transferred normally.

SMTP Setting

Sets the SMTP mail server.

- Use the up/down buttons (▲ ▼) in <Network> window to move to <Mailing Service>, and press [ENTER] button.
- Select <SMTP>. You will see the SMTP setting window.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- ServerType : Displays the connected server type.
- Server Address : Enter a server to connect to.
- Port : Sets the communication port.
- Use Authentication : Check this if the SMTP server uses user authentication. The account input box will be activated.
- ID : Enter a user to use authentication when connecting to the SMTP server.
- Password : Enter the password of the SMTP server user.
- Secure Transfer : Select one from <Never> and <TLS (if available)>.
- Sender Address : Use the virtual keyboard to enter the sender's e-mail address.
 - Refer to "Using Virtual Keyboard". (Page 36)
- E-mail Test : Conducts the test on the server settings.
- 4. When the SMTP setup is done, press <OK>.

SMTP Event Group Recipie
ServerType SMTP mail Server
· Server Address
Port 25
Use Authentication
ID
Password
Secure Transfer Never
Sender Address ex. user@example.r
E-mail Test

Event Setting

You can set the interval and type of the event that will be sent to the user.

Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <Network> window to move to <Mailing Service>, and press [ENTER] button.
- 2. Select <Event>.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Event Interval : Set the event interval.
 - If a series of events occurs, the e-mail will be sent at the specified interval, not on each event.
- The number of attached images for each event : Set the number of images attached to the e-mail sent in case an event occurs.
 - Can attach 1 to 5.
- Use Event Transfer : Select an event type to send if an event occurs. If the selected event occurs, the e-mail will be sent to the group that has the recipient authority.
- 4. When the event setup is done, press <OK>.

Group Setting

You can set the group to whom the e-mail is sent, and specify the permission for each group. You can add recipients for each group in the <**Recipient**> menu item.

The recipient is set separately from the DVR user group.

- Use the up/down buttons (▲ ▼) in <Network> window to move to <Mailing Service>, and press [ENTER] button.
- 2. Select <Group>.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Add : Select < Add> and use the virtual keyboard to add a group.
 - Refer to "Using Virtual Keyboard". (Page 36)
- Delete : Deletes the selected group.
- Rename : You can reset the recipient permission of an existing group.
- Recipient Permission : Set the permission of the recipient group.
- 4. When the group setup is done, press <OK>.

Mailing Se	rvice			
SMTP	Event	Group	Recipient	
Event Interval The number of al Use Event Tra	10 min 🔽 ttached images for each	event 1	•	
Motion	📃 Tam	pering		
Change P/W	HDE) Info	Video Loss	
Power On/O	ff 📃 Man	ual Record		
	ОК	Cancel		

☑ Mailing Service		
SMTP E	vent Group	Recipient
· Group	Add	Delete Rename
Motion	Tampering	
Change P/W Power On/Off	HDD Info	Video Loss
	OK Cancel	

MAIN MENU

Recipient Setting

You can add/remove a recipient(s) to/from the specified group and edit the group if necessary. Using the mouse may help make setup easier.

- Use the up/down buttons (▲ ▼) in <Network> window to move to <Mailing Service>, and press [ENTER] button.
- 2. Select <Recipient>.
- 3. Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.

Mailing Service								
SMTP	Event	Group	Recipient					
· Group	NI Group		Add					
Group	Name	e-Mail Addres	ss Delete					
		44 ÞÞ. Pr	evious/Next Page					
	OK	Cancel						

• Add : You can select a recipient name, e-mail address or group.

You should have created a group in the <**Group**> menu item before you can add a user to the group.

- For inputting the recipient name and email address, refer to "Using Virtual Keyboard". (Page 36)
- 4. When the recipient setup is done, press <OK>.

🖾 Mailing	j Service				
SMTP	Event		Group	Recipient	
- Group	Add recipient			Ado	
	Email Select Group	ABC	Cancel		
			≪ ₩	Previous/Next Page	
		ОК	Cancel		

main menu

CONTROLLING A PTZ DEVICE

The DVR enables you to adjust the settings of a PTZ camera as well as an ordinary one to your preference.

PTZ Device

The PTZ device can be activated only if a channel in connection with the PTZ camera is selected.

Getting started with PTZ

The PTZ camera is available, only if a channel is selected, in the following way :

- Using the remote control buttons Press the [PTZ] button on the remote control.
- Using the launcher menu
 Click < PTZ > to display the live launcher.
- Using the right-click menu in Live mode Right-click any area on the screen to display the context menu, and select <PTZ Control>.



- Using icons on the live screen
 Click the < [FT] > icon on the live screen.
 - The PTZ function is available only if the PTZ camera is connected so that the < [FTZ] > icon is displayed on the screen.



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Using the PTZ camera

You can use one camera to perform all functions of PAN, TILT and ZOOM for monitoring multiple places and set the preset to your preference in a desired mode.

- Launch the <PTZ Control> menu. As the <[PTZ] > icon on the bottom right corner turns yellow, you access the "PTZ Control" mode to display the "PTZ Control" menu.

 Be sure to configure PTZ working environments before operation, since the PTZ Working(Active) mark can be appeared to be activated even when PTZ is not operative.

 Use the PTZ wheel in the launcher menu to adjust the monitoring area, or use the direction buttons (▲ ▼ ◄ ►) on the remote control to move the camera to a desired place.



• PTZ Wheel : Clicking a nearer point to the center will move in that direction slowly; clicking a farther point from the center will move fast.

Keep clicking left to rotate the lens counter clockwise; keep clicking right to rotate the lens clockwise.

- Zoom (Q Q): You can use the Zoom function of the PTZ camera.
- IRIS (6 6) : Adjusts the intensity of radiation incoming to the iris.
- Focus (🛽 🛆) : Enables you to adjust the focus manually.
- Swing : Moves between the preset start point and end point.
- Group : Moves in the path specified by combining the preset, pattern and auto pan.
- Trace : Moves camera's framing in the predefined path.
- Preset : Sets the preset position for camera framing and moves to designated preset position when selecting a desired preset.
- Tour : Moves in the path specified by combining multiple groups.
 - For the coaxial communications, the operation may differ depending on the protocol.



- Before entering the PTZ device control mode, set the values of the PTZ device in the <Setting the PTZ> menu. (Page 47)
- For camera specifications that supports PTZ comtrol depending on communication method, refer to our web site.

main menu

Preset Setting

A preset is a set of specific target points of a PTZ camera, and up to 127 presets per a camera can be stored. Using the mouse may help make setup easier.

- 1. In PTZ Control mode, use the direction buttons to adjust the camera in a desired direction.
- 2. Select the <Save> key.

The virtual keyboard for inputting the preset will appear.

- Refer to "Using Virtual Keyboard". (Page 36)
- Save : You can add and save the preset.
- Rename : You can change the settings of the existing presets.
- Delete : Deletes the selected preset.
- Delete All : Deletes all existing presets.



If you replace the camera of the channel that stores the preset list with a new one, you should reset the preset accordingly.

3. Press <OK>.

The preset will be saved as a name that you entered.

Camera Setting

A PTZ camera has its own menu system. Optimize the PTZ camera according to the DVR.

Using the mouse may help make setup easier.

- Select <**Camera Setup**> in the PTZ Control menu. The camera-specific menu appears.
 - You can configure the settings of only those cameras that support the protocols of Samsung T/E, Pelco D/P, Phillips, AD, Vicon, GE and Panasonic.
 - If you are setting Auto Pan or Pattern in the camera menu, press and hold the appropriate button for a certain time so that the button operation can be different from that in normal PTZ setting.



search & play

SEARCH

You can perform the search for recorded data by the time or by the search criteria such as an event. You can access the <**Search**> menu directly in Live mode.

- 1. In Live mode, right-click any area of the screen. The Live menu appears.
- Select <Search>.
 Or, press the [SEARCH] button on the remote control.



- 3. The Search menu appears.
- The search can be restricted by the Auto Delete function. Refer to "Setting the Recording > Record Option". (Page 56)
- Overlapped data : It only appears if there exists overlapped data on a certain time, produced due to the change of DVR's time setup. The latest data comes first, from <List0>.
 It does not appear in <Backup Search>.



Time Search

You can search for recorded data of a desired time.

As the time to display may be different depending on the time zone and the DST standard time, the time of data recorded in the same time can be displayed differently depending on time zone and DST settings.

Using the mouse may help make setup easier.

- 1. Select <Time Search> in the <Search> menu.
- 2. Select a date to search.
 - Refer to "Using the Calendar". (Page 35)
- The record data on the specific date will be listed. The display bar is different according to the data type. So check the data type for the color in the left pane.
- Use direction buttons (▲▼ ◀ ►) to set the search criteria and press the [ENTER] button.
- Go to First : Moves to the earliest date.
- Go to Last : Moves to the most recent date.
- Time : Enter a time to perform the search or use the up/down button <\$> to select one.
- Previous/Next Page : Moves to the previous / next page. (Use the remote control)
- Zoom In : The map enlarges in detail. It will switch in the sequence of 24 hours - 16 hours - 8 hours- 4 hours.

O Time Search			
2015-01-01	Go to First Go	to Last	
	Overlapped Data List	1 🔻 Zoom In 🗌	Zoom Out
The second second	00:01 \$ 0	12	24
Seal P	All 📃	Data	
	CAM 01		1.1.1
	CAM 02		
	CAM 03		
2015/01/01 00:01:17	CAM 04		
Standard Schedule	CAM 05		
Motion Etc	CAM 06		
VLoss	CAM 07		
Tampering		↔ Previous/Net	xt Page
	Play Re	tum	

search & play

• Zoom Out : The map will switch in the reverse order of the detailed mode above.

It will switch in the sequence of 4 hours - 8 hours - 16 hours - 24 hours.



Double-click a desired time to zoom it in/out.

- Preview : Click < Channel> and select (click, drag) a time in <Duration> to display a still image for the portion.
 - If the selected channel does not contain any recorded data, it will be marked black.
- Select a data item and click < Play>. The screen switches to the data playback mode.



Event Search

You can search for events by the channel and play them.

Using the mouse may help make setup easier.

- 1. Select < Event Search> in the < Search> menu.
- Use direction buttons (▲▼ ◀ ►) to set the search criteria and press the [ENTER] button.
 - All record events on a specific date will be found. (Normal/ Schedule recording included)
- Date/Time Preview : If you select a data item in the list, the still image of the selected data will be displayed in the left preview pane.
- Event : Displays the type of the event that occurred.
- Select a data item and click <Play>. The screen switches to the event data playback mode.



Backup Search

Searches for backup data in the connected backup device. Only data in the format of DVR is included in the search. Refer to <**Type**> in "**Backup** > **Setting the Backup**". (Page 59)

Using the mouse may help make setup easier.

- 1. Select <Backup Search> in the <Search> menu.
- 2. Use direction buttons (▲▼◀ ►) to set the search criteria and press the [ENTER] button.
- Record Period : Displays the record period.
- Channel info : Displays the recorded channel.
- Play Start Time : Select a time that you start playing.
- Select a data item and click <Play>. The screen switches to the backup data playback mode.

		USB:USB2FlashStorage	
No.	Folder Name	File Name	
1	20150101	16190000	
		≪ IN Previous/Next Pa	age
 File Na Record Play St 	Period 2015-01-01 01:01:0	I - 2015-01-01 01:01:10 16:30:52	

Motion Search

If a motion is detected in each channel, you can set a desired area to perform the search. You can use the mouse to select the related items.

- 1. Select < Motion Search> in the < Search> menu.
- 2. Use direction buttons (▲▼◀ ►) to set the search criteria and press the [ENTER] button.
 - If you set the motion area to <Manual Area>, the <Setup> button will be activated.
- Motion Region : Select an area to perform the search.
- All Area : Searches for all areas of the selected channel.
- Current Area : Searches for the motion area for each channel specified in "Motion Detection > Setting the Motion Detection Area". (Page 57)

- Manual Area : You can set the motion area manually.

- Setup : The Setup button will be activated only if you have set the motion area to Manual. Press this button to display the area setting window.
- Date/Time : The Date/Time will be automatically set by the hour, and the end time will be automatically set to one hour later than the start time if it is set.
- Preview : Select a data item in the list to display the still image of the item.
- Select a data item and click < Play>. The screen switches to the motion data playback mode.



┝╋╋┝	
	╺╋┪╴┼┥╍┝╣┩┼╎╎┼╎┦╋╸
	* Motion Region
	CH1
	Individual Apply to All CH
	OK Cancel

search & play

PLAYBACK

Play

You can play data stored in the HDD and backup a desired portion of the data. Using the mouse may help make setup easier.

- In Live mode, click < Play> in the right-click menu or
 > in the launcher menu, or press the Play button on the remote control.
- **2.** Use the up/down button ($\blacktriangle \nabla$) to select a menu.
 - For data search, refer to <**Search**>. (Page 77)
- Select a data item and click < Play> in the Search menu. The selected data is played and the play launcher appears on the screen.
 - If there is an existing data, <Play> will start immediately without performing the search.
- Playback Information : Displays the date and time of the current data in the top corner.
- Backup : Click < 💿 > to set the current time to the start time of backup; you can specify a backup area using the mouse (yellow triangle).

Click < > again to set the current time to the end time of the backup and the "**Backup Range**" window appears.

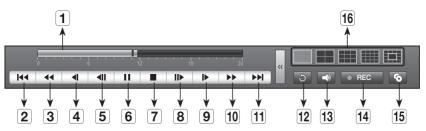
- Type : Supports formats of DVR, AVI and SEC.
 Refer to a list of formats in "Setting the Backup".
 (Page 59)
- Device : Select a backup device.
- Check Capacity : Enables you to check the capacity of the selected storage device.
- If you want to return to the Live screen in Play mode, click < < > in the launcher menu or press the
 button on the remote control.





Device USB-Storage Type SEC	
Folder \20150101\ · File Name 0001 Char	▼ inge
Check capacity Backup : Used : Free :	

Using the Playback Button



	Part Names	Functions				
1	Play Timeline	Indicates the current playback point, and can be used to move.				
2	Skip Backward	Moves backward by unit time. (Move by 10 minutes)				
3	Backward Fast Play	Used for quick backward playback. (2 - 64x speed)				
4	Backward Slow Play	Used for backward frame-by-frame search while in PAUSE. (1/2 - 1/8x speed)				
5	Step Backward	Moves backward by one frame at a time.				
6	Pause Stops playing the current video temporarily.					
7	Stop Stops playback and moves to the live screen.					
8	Step Forward	Moves forward by one frame at a time.				
9	Forward Slow Play Ensured to play forward up to 4 channels simultaneously at a low speed. (1/2 - 1/8x speed) In a split mode, the real time playback may not be supported, depending on the record quality, resolution and number of channels. And some frame rates may be supported.					
10	Forward Fast Play Used for quick forward playback. (2 - 64x speed)					
11	Skip Forward Moves forward by unit time. (Move by 10 minutes)					
12	Return Return to the search setup screen.					
13	Audio Sets Audio ON/OFF.					
14	REC	Records all channels in Live mode.				
15	Partial Backup	Begins backup of the selected section of the video being played, with the specified starting/ ending point.				
16	Mode Switch	Click a desired playback mode or press [MODE] to switch the screen mode in sequence. The grey area in the center of the 13-split mode plays the Live channel. The default channel of the Live mode is CH1, which can be changed later.				

INTRODUCING WEB VIEWER

What is Web Viewer?

Web Viewer allows remote access to your DVRs. You have access to li ve video, archived video, PTZ control (if configured), etc.

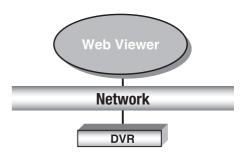
Product Features

- Remote access from a standard browser
- Supports PTZ camera controls
- Supports 1, 4, 9, 16 camera viewing formats (maximum of 16 cameras in the list).
- Gets jpeg, bmp or png format images to print and save to "Print or Save jpeg, bmp or png format images".
- Record video in AVI format-compatible with popular media players. (needed the H.264 codec)

System Requirements

The following lists the minimum suggested hardware and operating system requirements needed to run the Web Viewer.

OS Windows XP Professional Windows Vista Home Basic / Premium Windows 7, Windows 8 Mac OS 10.7 and later versions					
Web Browser - Windows OS : Internet Explorer 7.0 or higher, Firefox 9 or higher, Chrome 15 higher Mac OS : Safari v5.1, v6.1, v7.0 (Mac OS X only - 10.7, 10.9)					
CPU	ntel i5 2.8GHz or faster				
Memory	2GB or more				
Monitor High Color 16-bit 1024 x 768					
HDD 50 MB (Installation space required) * Additional HDD space required for recording. Recorded file size will vary depending on recording quality settings.					



CONNECTING WEB VIEWER (Windows)

- 1. Open your web browser and type the IP address or URL of DVR into the URL address box.
 - "192.168.1.200" is set to IP by default.

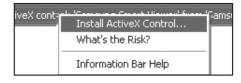
Ø

Ø

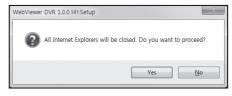
- Set to an available IP address in "Network > Connection Mode".
- The URL connection will be enabled only when the DDNS connection settings have been completed.
- A user with the admin permissions should provide the admin ID and password. A registered user should provide the user ID and password.
 - The default password can be exposed to a hacking thread so it is recommended to change the password after installing the product.
 - Set password for your wireless network if you use the product with a wireless router. Being not protected with password or using the default wireless router password may expose your video data to potential threat.
 - Please change your password every three months to safely protect personal information and to prevent the damage of the information theft.

Please, take note that it's a user's responsibility for the security and any other problems caused by mismanaging a password.

- It allows up to 10 simultaneous access including the Admin and general users.
- It does not allow multiple login of the Admin user.
- Password of the Admin and general users can be changed in <Permission Management> menu of the DVR.
- Normal users should have set <Viewer> under <Permission Management> to "Use" before connecting to the Web Viewer. (Page 36)
- All settings are applied by the DVR's settings.
- If you change such as the permission settings with logged in to the Web Viewer, you may go back to the log in screen.
- 3. Click < Install ActiveX Control...>.



4. When the installation confirm message appear, click [Yes] button.





http://192.168.1.200/

5. When a program installation wizard window appears, press the [Install] button to install the program.



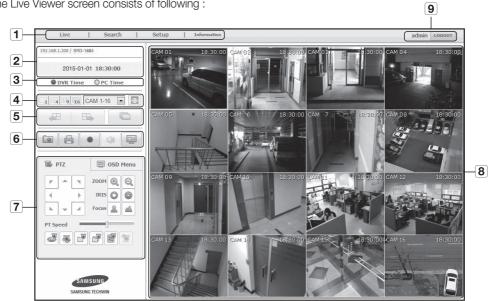
6. When the program installation is complete, the Explorer window closes.

Open the web viewer window again to log in. Live Viewer's main screen appears when you log in successfully after installing the program.



USING LIVE VIEWER (Windows)

The Live Viewer screen consists of following :



	Menu	Functions					
1	Menu Selection	Switches into corresponding menu screen by clicking each menu.					
2	Address, Name, Time	Displays the IP, model name, time, etc. of connected DVR.					
3	DVR Time, PC Time	Select < DVR Time > or < PC Time > for the OSD time information display setting of the Live Viewer.					
4	Split Mode Selection	de Selection Selects the type of split screen and specify the channel displayed in Display Pane.					
5	Change Channel	witches into previous/next channel or perform Auto Sequence. lick Auto Sequence button to display the Time Interval Selection menu.					
	CAPTURE	Saves current video for selected channel in designated path.					
	PRINT	Prints current video image for selected channel through designated printer.					
6	AVI Save	Records the live video in AVI file format in designated path, and then stops recording. Recording status icon is displayed on screen during recording.					
	Audio	Sets the sound connected to each channel to ON/OFF.					
	OSD	Select the format of OSD information that will be displayed.					
	PTZ	Controls connect PTZ camera(s).					
[7]	OSD Menu	Goes to the relevant menu screen of a camera, which supports OSD menu and changes the menu.					

Menu Functions						
8						
9	User ID, Logout	Displays the user's ID. Click Logout icon for logout.				

OSD Information Display

- 1 The channel number of the connected DVR are displayed.
- (2) Either the <**DVR Time**> or the <**PC Time**> will be displayed as the current date and time, according to your configuration.
- 3 It displays whether the PTZ controls are active.
- 4 Shows Audio On/Off status.
- **5** Motion icon appears when a motion is detected.
- **6** Tampering icon appears when a tampering is detected.
- 7 Shows the recording status.



1 2 CAM 01 18:30:00 19:30:00 19:30:00 19:30:00 19:30:00 19:30:00 19:30:00 19:30:00 10

Connected DVR

This displays the IP address and the status of the connecting DVR.



Connection failure message

No Response : Appears when the DVR does not respond. **Access Denied** : Appears when the maximum number of users is exceeded.

The number of simultaneous connections are limited to 10.

Setting the Display of the OSD Time Information

Select <**DVR Time**> or <**PC Time**> for the OSD time information display setting.

- DVR Time : Based on the time of the connected DVR
- PC Time : Based on the time of the PC currently running the Web Viewer.

192	2.168.	1,200 /	SRD	-1684	<u>,</u>			
		201	15-01	-01	18:	30:0	00	
[]]	۲	DVR	Time		O P	сті	me	



Split-Screen

Click split mode selection button to switch to the corresponding screen mode.

OVR Time OPC Time	
□1 = 4 = 9 = 6 CAM 1-16 💽 🔀]





QUAD MODE





NINE MODE

SIXTEEN MODE

To switch to full screen mode

Click < []>. Current split screen app

Current split screen appears in full screen. Press the [**ESC**] key to exit the full screen mode.



Changing the Live Screen Mode

- 16-split mode does not support "Sequence", "Previous" and "Next".
- 📰 : When this button is clicked, the previous screen appears.
 - In SINGLE MODE, the channel numbers are switched in reverse order.
 - In QUAD MODE, the screens are changed like 1st 4 channels (1~4) → 2nd 4 channels (13~16) → 3rd 4 channels (9~12) → 4th 4 channels (5~8).
 - In NINE MODE, the screens are changed from 9 channels (1~9) to 7 channels (10~16).
- \bullet $\hfill \blacksquare$: When this button is clicked, the next screen appears.
 - In SINGLE MODE, the channel numbers are sequentially switched from 1 to 16.
 - In QUAD MODE, the screens are changed like 1st 4 channels (1~4) → 2nd 4 channels (5~8) → 3rd 4 channels (9~12) → 4th 4 channels (13~16).
 - In NINE MODE, the screens are changed from 9 channels (1~9) to 7 channels (10~16).
- 📄 : When this button is clicked, screens are switched at a preset interval.
 - In SINGLE MODE, the channel numbers are sequentially switched from 1 to 16.
 - In QUAD MODE, the screens are changed like 1st 4 channels (1~4) → 2nd 4 channels (5~8) → 3rd 4 channels (9~12) → 4th 4 channels (13~16).
 - In NINE MODE, the screens are changed from 9 channels (1~9) to 7 channels (10~16).
 - Default setting time (10 seconds)

To capture a screen

- Click < i>> button. When a pop-up window appears, select the saving path for captured image.
- 2. Select the path and name the file. And then click the <Save> button.
- **3.** Save current camera's video image as .bmp, .jpg or .png file.
 - If the viewer is running without the administrator's permission in Windows Vista/7, you may not save the captured image as .bmp, .jpg or .png file.



OVR 1	Fime OPC	Time
1 4 89	16 CAM 1-16	•

Sequence Duration	x
Duration : 10	Seconds (10 ~ 60)
Ok	Cancel

To print a screen

- 1. Click $< \square >$ button.
- 2. Print current camera's video image with the printer connected to the PC operating the Web Viewer.

Select Printer	
Hadd Printer ≝ Fax ∰ Microsoft XPS Document Writer)
Status: Ready Location: Comment:	Print to file Preferences Find Printer
Page Range G All C Selection C Cyrrent Page C Pages: Enter page numbers and/or page ranges separated by commas. For example, 1,5-12	Number of gopies: 1 +

To save as AVI

- Click < >> button. When "AVI Setup" window appears, select the record saving path and capacity.
- Select a desired path, enter the maximum recording capacity, and then click <OK> button.
 - Save current channel's video as AVI file. For playing a video clip, you can use the free video player to play the video. (ex: GOM Player, KM Player, etc.)
 - After saving an AVI file, install the CODEC when playing it in Windows Media Player.
 - However, the video may not played properly, depending on the CODEC compliance of the player. At least 1GB of free space is required for recording.
 - While recording current data in Web Viewer, you cannot select Split Mode buttons, switch to the previous/next screen, or activate Auto Sequence function.
 - If the viewer is running without the administrator's permission in Windows Vista / 7, you may not change a folder when saving a video as AVI file.

Audio

• 💷 : Sets audio of each connected channel to On/Off.

OSD

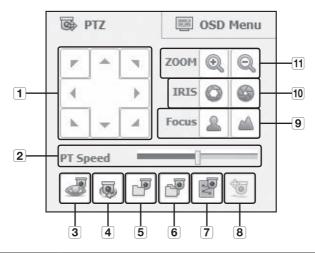
• 🔄 : Select Show OSD on the Live screen.

VI Setup			23
AVI Saving Path		Bro	owse
C:\Users\tsto\Videos			
Set disk free space : 108.09 GB Free	[1	GB
ок	Cancel	1	

CONTROLLING A CONNECTED PTZ CAMERA

Controlling PTZ

If PTZ camera is connected, the < m > icon appears on screen. When selecting corresponding camera channel, the PTZ tab is provided to allow you to control the PTZ.



	Part Names	Functions
1	Direction Adjustment	Adjusts the direction of a camera.
2	PT Speed	Adjusts the PAN, TILT reaction speed.
3	Preset	Sets the preset position for camera framing and moves to designated preset position when selecting a desired preset.
4	Swing	Moves between the preset start point and end point.
5	Group	Moves in the path specified by combining the preset, pattern and auto pan.
6	Tour	Moves in the path specified by combining multiple groups.
7	Trace	Moves camera's framing in the predefined path.
8	PowerPTZ	Click or drag on the screen to control PTZ.
9	Focus	Adjusts the focus of the camera.
10	IRIS	Adjusts image's brightness by controling the camera's iris.
11	ZOOM	Zooms in/out the image by controling camera's zoom.

To set a preset

- 1. Click < I > button to display "Preset" window.
- 2. Click < > to select a desired preset number.
- 3. Enter the name of preset.
- **4.** Use direction keys to adjust the direction which camera aims at.
- 5. Click the <**RECORD**> button.

To activate the preset

- 1. Click < I > button to display "Preset" window.
- 2. Select a desired preset to activate from the list. The camera's framing moves to the preset position.



To activate Swing, Group, Tour and Trace

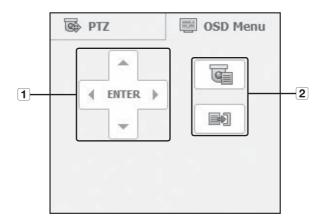
You can activate listed functions in the same manner as using a preset. For more information, refer to corresponding user manul of applicable camera.



Only selective functions of the camera can be supported, depending on camera.

Controlling OSD Menu

If connected PTZ camera supports the OSD menu, press the < 🗐 > to enter camera's menu screen to change its settings.



	Part Names	Functions
	Direction Adjustment	You can go to a desired menu.
	ENTER	Selects a desired item.
2	Menu On/Off	You can On/Off camera's OSD menu settings.



For more information about camera's OSD menu, refer to corresponding user manul of each camera.

USING SEARCH VIEWER

The Search Viewer screen consists of following :

Up to 3 users can access simultaneously.



	Menu	Functions
1	Menu Selection	Switches to the corresponding menu screen by clicking each menu.
2	Address, Name, Time	Displays the IP, model name, time, etc. of connected DVR.
3	Split Mode Selection	Selects the type of split screen and selects the channel displayed in Display Pane.
	CAPTURE	Saves current video for selected channel in designated path.
	PRINT	Prints current video image for selected channel through designated printer.
4	AVI Save	Records the live video in AVI file format in designated path, and then stops recording. Recording status icon is displayed on screen during recording.
	Audio	Sets the sound connected to each channel to ON/OFF.
	OSD	Select the format of OSD information that will be displayed.
5	Calendar	Displays the video-recorded date in blue and today in white. Click the date in blue color to display the recorded video information in timeline.
6	Overlapped Data	Displays and zooms in/out recorded video data. If overlapping data found, this function selects one of them to play.

	Menu	Functions
7	Play Control	Adjusts current video's playback speed and played time position.
8	Recording Color	Displays the corresponding color depending on recorded data type if you place your mouse cursor on that area.
9	Display Pane	Plays corresponding data on the screen if you select a search result.
10	User ID, Logout	Displays the user's ID. Click Logout icon for logout.

Searching the Recorded Video in the Calendar

Dates having recorded video are marked in blue. Click a date marked blue to display video information on the timeline. When you click < Today >, it will be synchronized with the system time (date) of the current PC.

To search by date

You can select the search date by using calendar.

- **1.** Click $< \boxed{\ll} >$ or $< \boxed{\gg} >$ to select the year to search.
- Click < <> > or <>> > to select the month to search. The date including data appears in blue and today appears in red.

		Ma	ay 20	15		
«	<	3	Today	1	>	3
s	м	т	W	т	F	s
26	27	28	29	30	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	1	2	3	4	5	6

- Click the date to search in calendar. The first image of searched video data on the date is displayed on screen and the data is displayed in the timeline.
- To search video data on today, click < Today >. Today's date is selected.

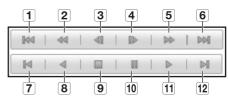
To adjust timeline

If searched data are overlapping, you can select a desired data, move its playback time point, and zoom in/ out the timeline.

- 1. Select the number of data to search if data is overlapping. It appears only when data are overlapped and assigns <0> to the most recent data.
- **2.** Click your desired time point to play on the timeline. The playback start point is moved.
- **3.** Click < + >, < > to zoom in/out the zoom factor to display time.
- 4. To show the previous/next timeline in zoomed-in status, click < 💽 > or < 💽 > to go to the left or right.

Names and Functions of Play Buttons

- Moves backward by 10 minutes from the current playing point.
- Plays in reverse at doubled speed. The playback speed is doubled up to 64x speed.
- **3** Moves backward by 1 second from current playing point.
- (4) Moves forward by 1 second from current playing point.
- 5 Plays at doubled speed. The playback speed is doubled up to 64x speed.
- **6** Moves forward by 10 minutes from the current playing point.
- 7 Moves to the recording start point on the corresponding timeline.
- 8 Plays in reverse.
- 9 Stops playing. When resuming playback, it is played from the recording start point.
- 10 Pauses playing. When resuming playback, it is played from the stopped point.
- 1 Plays normally.
- 12 Moves to the recording end point on the corresponding timeline.



VIEWER SETUP

You can configure the DVR settings remotely on the network. To configure the DVR settings, click <**Setup**>.

System

You can configure the various settings of the DVR system.

Date/Time/Language

For more information, refer to <Date/Time/Language> in the <System Setup> menu. (Page 33)

- 1. Select < Date/Time/Language> in the System menu.
- 2. Configure the DVR settings according to your system environment.

• Date/Time

Set the date and time.

Brief Charles and State	work
Lenging Date Year Heath Application Permission 2015-1-25 2015 - 20 20 20 Permission The Heath Heath Heath Heath Synthesis The Strict 22 7 04 All Heath	
Initiany Data Test	
Permission Tme Hour Inn sec Manage 02:07:09 02:* 07 * 04 * All * System Tim: Stance	
02 07 09 02 × 07 × 04 × AM × System Time Sync.	
Manage	
Time Zone GMT+02:00 -	
Time Sync. Setup Ket Used	
Display	
Date Format YYYY-MW-DD -	
Time 24 Hours	
DST	
Start Dec * First * Sun * 00 *	
End Dec + First + Sun + 00 +	
Language	
Language English	
	_
Apply Ca	incel

• Time Synchronization Setup

Set the time synchronization.

Display

Date Format : Set the date type. Time : Select a time format to display on the screen.

• DST (Daylight Saving Time)

DST is displayed an hour ahead of the standard time of the time zone.

• Language

Select a preferred language for the DVR.

Time Synchro Synchrosization Time Sarver Last Sync Time Activate as Server	nization Setu Use 203248.24 - Use		Network	
Time Server Last Sync Time	203.248.24			
Last Sync Time				
		Pal		
Activate as Server	Use			

Holiday

You can set specific dates to Holidays according to your preferences. For more information, refer to <**Setting Holiday**> in the <**System Setup**> menu. (Page 35)

Permission Management

For more information, refer to <Permission Management> in the <System Setup> menu. (Page 36)

Admin

You can change the admin ID or the password.

- You can type the ID with alphanumeric characters only.
- For the password, use alphabets and special characters excluding <\> and <">.
- If you click < ① >, a simple guideline to setting the password is shown.

Group

Users are classified into groups and the permission can be set according to the group.

First of all, add a group.







Apply Cancel

 $\/// \in$

• User

You can add, change or remove a user or users.



Setup

You can set the user permission.

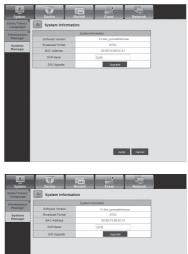
System	Device	Record	Event	Network	
Date/Time/ Language	Setup				
Permission ² Manage	Restricted Access			E AI	
Admin	Restriction on Network				
Group	All Network		Web Viewer		
User	Auto Log out	OFF •			
Setup	Monual Input of ID	O ON @ OF			

System Management

For more information, refer to <System Management> in the <System Setup> menu. (Page 41)

System Information

You can see information of the current system. Check the Software Version, Broadcast Format, MAC Address, DVR name and S/W Upgrade.



Permission	5	System Information		
Manage	Software Version	V1.0xh_yymmddhhmmas		
System	Broadcast Format	NTSC 00.08.74.88.5C.41		
Manage	MAC Address			
	DVR Name	DVR		
	S/W Upgrade	Upgrade		
	Upgrade De you want to	upprado? Bronse OK Genoal		

Device

You can check a list of devices that are connected to the DVR and configure the necessary settings. Click < Device> in the menu screen.

For more information, refer to "Setting the Device". (Page 45)

Camera

Camera

You can configure the settings of the camera that is connected to the DVR.



• Privacy Region

You can specify a certain area of the camera video to be protected for your privacy.

• PTZ

You can configure the settings of the PTZ camera that is connected to the DVR.

Set the ID and protocol.



Apply Exit

) $1/i \Omega / \Omega / \Omega / \Omega$

Storage Device

You can check and change the settings of the storage device.

Device

You will see a list of storage devices that are connected to the DVR. You can check the type, used/total, usage and status of the device.

		J	REC	-		
System Camera	(minute)	vice	Record	Eve	nt Network	
Storage #	Device	No.	Used/Total	Usage	Status Management	
Device	HDD	1	1.17G/1.97T	Internal	Normal	1
HDD Alerm						
Remote						
Monitor 8						
romost						



HDD Alarm

You can set the alarm output channel and the alarm duration for an error.

Remote Device

You can see a list of remote devices including PTZ cameras and system keyboards that are connected to the RS-485 port of the DVR and configure the necessary settings.



Monitor

• Monitor

You can configure the monitoring screen settings and set the output system.

SRD-493 does not support Multi CH SEQ Time.



• Mode

You can switch between live mode and play mode.



WEB VIEWER

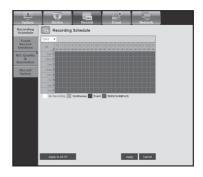
Record

For more information, refer to <Setting the Recording>. (Page 54)

Recording Schedule

If you set a recording schedule for a specific date and time, the recording will start at that specific time.

- Apply to All CH : Click < Apply to All CH> to display the





Event Record Duration

confirmation window.

You can set the start and end times of recording that will be activated if an event occurs.

System		Device	Record		Event	Network
Recording	1	Event Reco	rd Duration			
Event	СН	Pre Event Sel Al 👻	POST Event Set AL +	CH	Pre Event Sel Al 👻	POST Event
Duration	1	OFF .	1 min 👻	9	OFF .	1 min 💌
EC Quality		OFF .	1 min 💌	10	OFF .	1 min 👻
& Resolution		OFF .	1 min 💌		OFF •	1 min 👻
Record	-4	OFF •	1 min 👻		OFF .	1 min 👻
Option		OFF •	1 min 💌		OFF •	1 min 💌
	6	OFF •	1 min 💌	14	OFF •	1 min 💌
		OFF •	I min 💌		OFF ·	1 min 💌
		OFF .	1 min 👻	16	OFF .	1 min 👻
		OFF •	T min 👻		OFF •	1 min 🔹
					Appl	y Carroel

REC Quality & Resolution

Standard/Event

You can set the resolution, frame rate and recording quality for each channel.

System		Device		Record	_	Event		100423
Schedule	Ē	Standar	d					
Event Record Duration	сн	Resolu Sel Al		Record Sel Al		Record C Sel All	iuality	Туре
REC Quality 2		CIF	~	7 105	~	Level4	~	SD
& Resolution		CIF	~	7 fps.	~	Level4	~	SD
Standard	3	GIF	~	7 125	~	Level4	~	SD
Event	4	CIF	~	7 fps	~	Level4	~	SD
Record	5	CIF	~	7 tps	~	Level4	~	SD
Option	5	GIF	×	7 \$ps	~	Level4	~	SD
		CIF	~	7.fps	~	Level4	~	SD
	0	GIF	~	7 105	~	Level4	~	SD
	0	CIF	×	7 tps	×	Level4	~	SD
	10	CIF	~	7 655	~	Level4	~	SD
		CIF	~	7 fps	~	Level4	~	SD
		CIF	~	7 tps	~	Level4	~	SD
		CIF	~	7 fps	~	Level4	~	SD
	14	CIF	~	7 fps	~	Level4	~	SD
	15	CIF	~	7 fps	~	Level4	~	SD
	18	CIF	~	7 fps	~	Level4	~	SD

Record Option

You can set the Disk End Mode.



Event

For more information, refer to <Setting the Event>. (Page 57)

Motion Detection

You can set the motion detection mode and the sensitivity as well as the alarm output type and the duration.

Motion	1	Motion De	tection		
ideo Loss	СН	Node Sel All +	Sensitivity Set All	Alam	Alarm Duration
npering	1	OFF .	Level100High)	None	10 sec -
ection	2	OFF .	 Level100High) 	None	10 sec -
1700	3	OFF .	 Level100High) 	None	10 sec -
edule	-4	OFF .	 Level100High) 	None	10 sec -
	5	OFF .	 Level100High) 	None	10 sec -
	6	OFF .	 Level100High) 	None	10 sec -
	7	OFF .	 Level100High) 	None	10 sec -
	8	OFF .	 Level100High) 	None	10 sec -
	9	OFF .	 Level100High) 	None	10 sec -
	10	OFF .	 Level100High) 	None	10 sec 🕒
	11	OFF .	 Level100High) 	None	10 sec 🕒
	12	OFF .	 Level100High) 	None	10 sec 🕒
	13	OFF .	 Level100High) 	None	10 sec 🕒
	14	OFF .	 Level100High) 	None	10 sec 🕒
	15	OFF .	 Level100High) 	None	10 sec 🕒
	16	OFF .	 Level100High) • 	None	10 sec -

n viewer $\mathbb{N}/($

Motion Region

Set the target motion detection area.



Video Loss Detection

You can set the alarm output time if a video loss occurs.

Motion Detection	1 N	/ideo Loss E	etectio	n		
/ideo Loss Detection	СН	Video Loss Sel Al	State	Alarm	Alam Dur Sel Al	zion V
ampering	1	OFF	~	None	10 sec	~
Detection	2	OFF	~	None	10 sec	~
Alarm	3	OFF	~	Note	10 sec	~
Schedule	4	OFF	~	Note	10 sec	~
	5	OFF	~	None	10 sec	~
	6	OFF	~	None	10 sec	~
	7	OFF	~	None	10 sec	~
	8	OFF	~	None	10 sec	~
	0	OFF	Y	None	10 sec	~
	10	OFF	~	Note	10 sec	~
	11	OFF	~	None	10 sec	~
	12	OFF	~	None	10 sec	~
	13	OFF	~	None	10 sec	~
	16	OFF	~	None	10 sec	~
	15	OFF	¥	None	10 sec	~
	18	OFF	~	None	10 sec	~

Tampering Detection

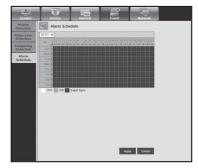
You can set whether to generate alarm and its dwell time for video tampering events.

Motion		Tampering I	Record	Event	Network
Detection		rampering	Detection		
Video Loss Detection	СН	Node Sel Al	Set All	Alarm	Alerre Duration
Tampering	1	OFF	Medium -	None	10 sec 👻
etection	2	OFF	 Medium 	None	10 sec 📼
Alarm	3	OFF	Medium -	None	10 sec 👻
Schedule	4	OFF	 Medium 	None	10 sec 👻
	5	OFF	Medium -	None	10 sec 👻
	6	OFF	 Medium 	None	10 sec 👻
	7	OFF	 Medium 	None	10 sec 👻
	8	OFF	 Medium 	None	10 sec 👻
	9	OFF	 Medium 	None	10 sec 👻
	10	OFF	 Medium 	None	10 sec 👻
	11	OFF	 Medium 	None	10 sec 👻
	12	OFF	 Medium 	None	10 sec 👻
	13	OFF	 Medium 	None	10 sec 👻
	- 14	OFF	 Medium 	None	10 sec 👻
	15	OFF	 Medium 	None	10 sec 👻
	16	OFF	 Medium 	None	10 sec 👻

Alarm Schedule

You can schedule the alarm output according to the day of the week and the time.

The default setting is Event Sync, which activates the alarm only if an event occurs.



Network

For more information, refer to <Network Configuration>. (Page 61)

Connection Mode

A remote user can access the DVR via the network to check the current mode and the IP address.

Interface

You can set the network connection route.



• Port

You can configure the protocol related settings.

System		Record Event Network
Connection * Mode	Port	
Interface	Protocol Type	TCP ·
Port	Device port	4520 - 4524
DDNS	UDP Port	8000-8160
Uve Transfer	UnicastRuticast	UDP-Unicast V
Mailing Service	National IP address	224.126.63.1
	Muticast TTL	5
	HTTP Port	80 🖨
	Secure Video Transmission	O ON @ OFF
		Tablovar Spot Doarth (B03, HTP-A-18 App) Case

web viewer

DDNS

You can check the DDNS settings.



Live Transfer

Sets the quality of the image that is transferred from the DVR to the network.

• Live Transfer

A remote user can set the image resolution of the transferred data.

System	Device	Record	Event Network				
Connection Node	Live T	Live Transfer					
DDNS	СН	Resolution Set All 👻	Quality Sel All				
Live Transfer	1	CIF 👻	Low -				
Mailing Service	2	CIF +	Low •				
Service	4	CIF 👻	Low -				
	5	CIF 👻	Low -				
	6	CIF 👻	Low -				
	7	CIF 👻	Low 👻				
		CIF 👻	Low 👻				
	9	CIF 👻	Low 👻				
	10	CIF 👻	Low 👻				
	11	CIF 👻	Low 👻				
	12	CIF 👻	Low 👻				
	13	CIF 👻	Low 👻				
	14	CIF 👻	Low 👻				
	15	CIF 👻	Low 👻				
	16	CIF 👻	Low 👻				
			Apply Carcel	1			

Mailing Service

You can specify the SMTP server that sends a mail if an event occurs and set the recipient group and users.

• SMTP

You can set the server that sends mails and specify if you use the authentication process.



• Event

You can set the event interval and specify which events the server sends mails for.



• Group

You can add a group to receive the mail if an event occurs and set the permission to receive the event mail for each group.

Recipient

You can add a user or users who will receive the mail.

INFORMATION

Click < Information>.

Displays the model name of connected DVR and the version of Web Viewer.





CONNECTING WEB VIEWER (Mac)

Safari on MAC.

If you want to use DVR Web Viewer with Safari Browser on a Mac, please refer to this user guide and install Multi Viewer with firmware upgrade if necessary.

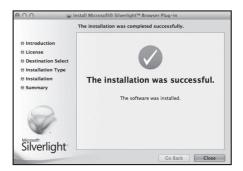
- Mac OS versions available : Mac OS X 10.7/10.9
- Safari : v5.1, v6.1, v7.0
- 1. Click [Click now to Install] to display the installation screen as shown.



- 2. Double-click the [Silverlight.pkg] icon to display the Silverlight plug-in installation screen as shown.
- ⊖ ∩ ∩ Silverlight Silverlight.pkg
- **3.** Click [**Continue**] to start installing Silverlight plug-in. When done, you will see the screen as below.



4. Click [Close] to exit from the Silverlight plug-in installation screen.



· If Microsoft Silverlight plug-in is already installed

- 1. Use a web browser to connect to the DVR.
- **2.** If Silverlight plug-in is already installed, you will see the login screen as shown.
- **3.** If the login screen does not appear, check if the DVR set is connected properly with a valid IP address.

Login	
• ID	
 Password 	
	ок

- If automatic proxy is activated and an invalid DNS server is specified while configuring network, the Internet access may not be available.
 - For more details on using the Web Viewer, please refer to "Connecting Web Viewer (Windows)". (Page 85)

• If Safari 6.1 or higher is used, set it as shown below.

- 1. Select Safari "Preferences > Security > Internet Plugin".
- 2. Click on silver light plugin.
- 3. Set the DVR address to "Allow Always" or "Run in Unsafe Mode".
- When the program has finished installing, open the web viewer again to login.
 When installation is finished, and you are successfully logged in, the live viewer main screen will appear.



web viewer

USING LIVE VIEWER (Mac)

The Live Viewer screen consists of following :



	Menu	Functions
1	Name, Address	Displays a connected DVR's IP address and model name.
2	Menu Selection	Consists of <live> ,<about> and <logout> menu.</logout></about></live>
3	Split Mode Selection	These buttons are used for the screen split and full screen mode. Supports up to a maximum of 9 channels due to performance constraints of Silverlight.
4	Name, Address	Displays a connected DVR's IP address and model name.
5	Audio	Sets the sound connected to each channel to ON/OFF.
6	DVR Tim, PC Time	Select <dvr time=""> or <pc time=""> for the OSD time information display setting of the Live Viewer.</pc></dvr>
7	Change Channel	Switches into previous/next channel or perform Auto Sequence. Click Auto Sequence button to display the Time Interval Selection menu.
	CAPTURE	Saves current video for selected channel in designated path.
8	PRINT	Prints current video image for selected channel through designated printer.
0	RECORD	Starts and stops recording. If you cannot play the file recorded from the web, please install the H.264 CODEC. ex) MAC: perian_1.2.3.dmg (http://perian.org)
9	Channel	Indicates connected DVR's channels.
10	PTZ	Controls connect PTZ camera(s).
11	Display Pane	Displays the video of camera connected to DVR.

MOBILE VIEWER

What is Mobile Viewer?

Mobile Viewer is management software that enables you to connect to DVR (Digital Video Recorder) remotely and control the video playback and PTZ operations (if configured) in real time.

Key Features

- Remote access via Smart phone
- Voice Recognition
- 1-split and 4-split modes supported in Live Viewer
- Supports single channel search function
- Switch channels using the touch-sensitive LCD panel
- PTZ camera operations supported (complies with the protocol of the connected DVR)
- Up to 16 channels supported

Compatible Smartphone

This application is optimized for

ß

- iOS OS v5.1.1, v6.0, v6.0.2, v6.1, v7.0, v8.0
- Android OS v.2.3.5, v4.0.3, v4.1.2, v4.2, v4.3
 - For more information, refer to the user manual. (http://www.samsungcctv.com)

SAMSUNG iPOLiS mobile

Android OS

Version 2.X Created Date 20xx. xx. xx Copyright ⓒ : Samsung Techwin This software uses FFmpeg under LGPL v2.1.

backup viewer

SEC BACKUP VIEWER

You can play a file that is backed up in the format of SEC.

Backup in SEC format produces backup data file, library file and self-executable viewer file.

If you run the backup file viewer, the backup data file will be automatically played.



Recommended System Requirements

PCs with a lower specification than the recommended below may not fully support forward/backward and high-speed playback.

- OS : Windows XP professional, Windows Vista, Windows 7, Windows 8
- CPU : Intel i5 2.8GHz or faster
- RAM : 2G or more
- VGA : Geforce 6200 or higher

	Part Name	es	Functions
1	Split Screen	4:3 16:9	Set the screen's aspect ratio to be displayed.
	Spin Screen	1 9 16	The screen switches to the selected split screen mode.
		ĨO	Saves the current video's image as in an image file. Supports jpeg file format.
(2)	Screen Printout		Prints out the current screen. You should have installed the appropriate printer driver before you can print out the screen.
3	Audio		A toggle button. Each time you press this button, the audio output will toggle between activated and deactivated.
0	Addio		You can adjust the volume level from 0 to 100.
4	Watermark	A / A	Press the button to enable file tampering detection, to detect data file forging.
5	Deinterlace		You can enable the De-interlace function.
6	Show OSD		Check the OSD checkbox to display the OSD information on the backup playback screen. Information such as backup date, day of the week, time, model name, and channel number will be displayed on the screen.
7	Enlarge /		Collapses the time range that is displayed on the range bar of the storage time. You can collapse the range bar until the overall range is shortened to 24 hours.
	Reduce Timeline	<u>+</u>	Enlarges the time range that is displayed on the range bar of the storage time. You can enlarge the range bar until the overall range is extended to 1 minute.
8	Restore Timeline	?	Restores the timeline to the default.
9	Display of sto	rage time range	Displays the time range of a stored video file. You can move the gridline of the range bar to select a time point to play.
10	Playback Control		You can adjust the video playback of the timeline.



If it has a high recording rate and is played at high speed playback of 16x or higher speed in the backup viewer, actual playback speed may not reach the set playback speed.

PRODUCT SPECIFICATION (SRD-893, SRD-1684)

lkom		Details		
π	em	SRD-893	SRD-1684	
M ² Lee	Inputs	8CH BNC	16CH BNC	
Video	Resolution	1920 x 1080, 1280 x 720, 928 x 480, 7	04 x 480 / 928 x 576, 704 x 576	
	Frame rate	240fps@ 1920 x 1080 /240fps@1280 x 720 / 240fps@928 x 480	480fps@ 1920 x 1080 /480fps@1280 x 720 / 480fps@928 x 480	
Live	Resolution	1920 x 1080 (Full HD) / 1280 x 720 (HE)) / 928x480 (wD1)	
	Multi Screen display	1/4/7/9/13/Sequence/PIP	1/4/7/9/13/16/16(A)/Sequence/ PIP	
Performance				
0S	Embedded	Linux		
	Compression	H.264		
	Record Rate	NTSC: Up to 240fps@1920 x 1080 / PAL: Up to 200fps@1920 x 1080 NTSC: Up to 240fps@1280 x 720 / PAL: Up to 200fps@1280 x 720 NTSC: Up to 240fps@928 x 480 / PAL: Up to 200fps@928 x 576	NTSC:Up to 240fps@1920 x 1080 / PAL: Up to 200fps@1920 x 1080 NTSC:Up to 480fps@1280 x 720 / PAL: Up to 400fps@1280 x 720 NTSC:Up to 480fps@928x480 / PAL: Up to 400fps@928x576	
Recording	Mode	NTSC: Manual, Schedule (Continuous/Event), Event(Pre/Post), Time lapse (1~30 fps) PAL: Manual, Schedule (Continuous/Event), Event(Pre/Post), Time lapse (1~25 fps)		
	Event	Video Loss, Motion(Sensitivity Level 1~10), Tampering		
	Overwrite modes	Continuous		
	Pre Event	Off/5 sec		
	POST Event	Up to 6 hour (5, 10, 20, 30 sec, 1, 3, 5, 10, 20 min, 1, 2, 3, 4 ,5, 6 hour)		
	Search mode	Date/time, Event, Back up, Motion (*All se	earch included preview function)	
Search & Playback	Playback function	Fast forward / backward (2x, 4x, 8x, 16x, only Slow forward / backward (1/2x, 1/4x, 1/8 Step forward / backward (2x, 4x, 8x, 16x only	3x)	
	Transmission speed	4CIF / 2CIF / CIF (NTSC : 120 / 240 / 240fps, PAL : 100 / 200 / 200fps)	4CIF / 2CIF / CIF (NTSC : 120 / 240 / 480fps, PAL : 100 / 200 / 400fps)	
	Bandwidth	Up to 32Mbps		
	Bandwidth control	Selectable		
Network (IPv4)	Stream	H.264(4CIF/2CIF/CIF Selectable)		
	Remote users Maximum	Search 3 / Live unicast 10 / Live multicast 20		
	Protocol support	TCP/IP,DHCP,PPPoE,SMTP,NTP,HTTP,DDN	NS,RTP,RTSP,SNMP, UPnP	
	Monitoring	Smart viewer, Webviewer, Mobile Viewer,	SSM(CMS)	

lton		Deta	ils	
n	tem	SRD-893	SRD-1684	
	Smart Phone	Android OS v.2.3.5, v4.0.3, v4.1.2, 4.2, v iOS OS v5.1.1, v6.0, v6.0.2, v6.1, v7.0, v		
Smart phone	Protocol support	RTP, RTSP, HTTP, CGI		
	Remote users Maximum	Live 2 / Playback 1		
	Internal HDD	Up to 1 SATA HDD		
Storage	USB (Back-up)	USB 2.0, 2 ports		
-	File Format (Back-up)	BU(Playback from DVR), SEC (Includes Pla	ayer), AVI	
Security	Password Protection	1 Admin, 10 Group, 10 User per 1 Group		
occurity	Data Authentication	Watermark		
Interface				
	VGA	1 VGA (1280x720, 1280x1024, 1920x10)80)	
Monitors	HDMI	1 HDMI (1280x720, 1280x1024, 1920x1080)		
	Simulatneous Output	VGA and HDMI		
	Inputs / Output	1CH line in/ 1CH line out		
Audio	Compression	G.711		
	Sampling Rate	8KHz		
Alarm	Remote notification	Notification via e-mail		
	Ethernet	1 RJ45 10/100 Base-T		
	Serial interface	RS-485		
	USB	USB 2.0, 2 ports (Front/Rear)		
Connections	Application Supoort	Mouse, remote controller		
	Protocol support	Samsung-E/ Samsung-T/ Pelco-D/ Pelco-	P/Panasonic/ Phillips/ AD/ VICON/GE	
	Coax Protocol	NTSC/PAL : PTZ Control via Coaxial Cable AHD(Coaxitron) : ACP	(Pelco-C (Coaxitron))	
General				
Electrical	Input Voltage /Current	DC12V Adaptor, 100~250V AC $\pm 10\%$, 5	0/60Hz	
	Power consumption	Max. 23W (with 1 HDD)		
Environmental	Operating Temperature / Humidity	+0°C to +40°C (+32°F to +104°F) / 20°	% to 85% RH	

Item		Details		
		SRD-893	SRD-1684	
Dimension (W x H x D)		W300 x H48 x D208.7 mm (11.81" x 1.89" x 8.22")		
Mechanical	Weight (With hard disks)	1.57kg (3.46 lb) (with 1TB HDD) 1.61kg (3.55 lb) (with 1TB		
Lauguage		Korean, Japanese, Chinese (Simplified), English, French, German, Spanish, Italian Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumania, Serbia, Croatia, Hungary, Greek, Chinese (Traditional), Finnish, Norwegian (25 Language)		

PRODUCT SPECIFICATION (SRD-493)

Item		Details	
		SRD-493	
Video	Inputs	4CH BNC	
Video	Resolution	1920 x 1080, 1280 x 720, 928 x 480, 704 x 480 / 928 x 576, 704 x 576	
	Frame rate	120fps@ 1920 x 1080 / 120fps@1280 x 720 / 120fps@928 x 480	
Live	Resolution	1920 x 1080 (Full HD) / 1280 x 720 (HD) / 928x480 (wD1)	
	Multi Screen display	1 / 4 / Sequence / PIP	
Performance			
0S	Embedded	Linux	
	Compression	H.264	
	Record Rate	NTSC: Up to 120fps@1920 x 1080 / PAL: Up to 100fps@1920 x 1080 NTSC:Up to 120fps@1280 x 720 / PAL: Up to 100fps@1280 x 720 NTSC:Up to 120fps@928x480 / PAL: Up to 100fps @928x576	
Recording	Mode	NTSC: Manual, Schedule (Continuous/Event), Event(Pre/Post), Time lapse (1~30 fps) PAL: Manual, Schedule (Continuous/Event), Event(Pre/Post), Time lapse (1~25 fps)	
	Event	Video Loss, Motion(Sensitivity Level 1~10), Tampering	
	Overwrite modes	Continuous	
	Pre Event	Off/5 sec	
	POST Event	Up to 6 hour (5, 10, 20, 30 sec, 1, 3, 5, 10, 20 min, 1, 2, 3, 4 ,5, 6 hour)	
	Search mode	Date/time, Event, Back up, Motion (*All search included preview function)	
Search & Playback	Playback function	Fast forward / backward (2x, 4x, 8x, 16x, 32x, 64x) *Backward play with I-frame only Slow forward / backward (1/2x, 1/4x, 1/8x) Step forward / backward(2x, 4x, 8x, 16x, 32x, 64x) *Backward play with I-frame only	
	Transmission speed	4CIF / 2CIF / CIF (NTSC : 120 / 120 / 120fps, PAL : 100 / 100 / 100fps)	
	Bandwidth	Up to 32Mbps	
	Bandwidth control	Selectable	
Network (IPv4)	Stream	H.264(4CIF/2CIF/CIF Selectable)	
()	Remote users Maximum	Search 3 / Live unicast 10 / Live multicast 20	
	Protocol support	TCP/IP,DHCP,PPPoE,SMTP,NTP,HTTP,DDNS,RTP,RTSP,SNMP, UPnP	
	Monitoring	Smart viewer, Webviewer, Mobile Viewer, SSM(CMS)	

Item		Details
r	tem	SRD-493
	Smart Phone	Android OS v.2.3.5, v4.0.3, v4.1.2, 4.2, v4.3 iOS OS v5.1.1, v6.0, v6.0.2, v6.1, v7.0, v8.0
Smart phone	Protocol support	RTP, RTSP, HTTP, CGI
	Remote users Maximum	Live 2 / Playback 1
	Internal HDD	Up to 1 SATA HDD
Storage	USB (Back-up)	USB 2.0, 2 ports
	File Format (Back-up)	BU(Playback from DVR), SEC (Includes Player), AVI
Security	Password Protection	1 Admin, 10 Group, 10 User per 1 Group
Security	Data Authentication	Watermark
Interface		
	VGA	1 VGA (1280x720, 1280x1024, 1920x1080)
Monitors	HDMI	1 HDMI (1280x720, 1280x1024, 1920x1080)
	Simulatneous Output	VGA and HDMI
	Inputs / Output	1CH line in/ 1CH line out
Audio	Compression	G.711
	Sampling Rate	8KHz
Alarm	Remote notification	Notification via e-mail
	Ethernet	1 RJ45 10/100 Base-T
	Serial interface	RS-485
	USB	USB 2.0, 2 ports (Front/Rear)
Connections	Application Supoort	Mouse, remote controller
	Protocol support	Samsung-E/ Samsung-T/ Pelco-D/ Pelco-P/Panasonic/ Phillips/ AD/ VICON/GE
	Coax Protocol	NTSC/PAL : PTZ Control via Coaxial Cable (Pelco-C (Coaxitron)) AHD(Coaxitron) : ACP

Item –		Details
		SRD-493
General		
Flootricol	Input Voltage /Current	12V DC Adaptor,100~250V AC ±10% , 50/60Hz
Electrical	Power consumption	Max. 12 W (with 1 HDD)
Operating Temperature / Humidity+0°C to +40°C (+		+0°C to +40°C (+32°F to +104°F) / 20% to 85% RH
	Dimension (W x H x D)	W300 x H48 x D208.7 mm (11.81" x 1.89" x 8.22")
Mechanical	hanical Weight (With hard disks) 1.47 kg (3.24 lb)(with 1TB HDD)	
Lauguage		Korean, Japanese, Chinese (Simplified), English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese,Swedish, Danish, Thailandais, Rumania, Serbia, Croatia, Hungary, Greek, Chinese (Traditional), Finnish, Norwegian (25 Language)

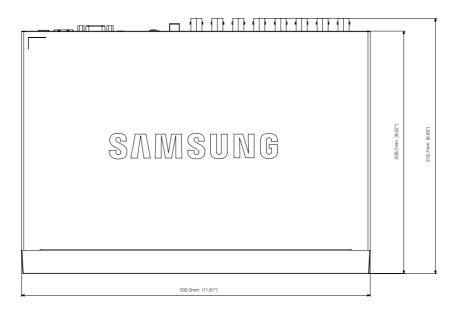


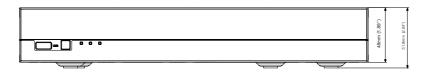
PRODUCT OVERVIEW

• SRD-1684

unit : mm (inches)

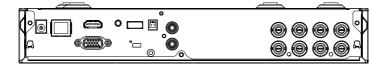


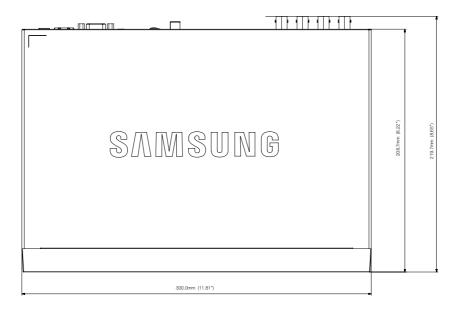


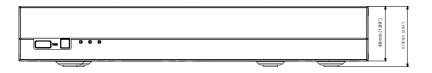


• SRD-893

unit : mm (inches)





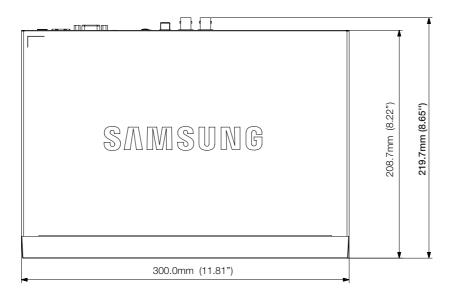


лЦіх apper

• SRD-493

unit : mm (inches)







DEFAULT SETTING

This returns the factory default settings.

The settings are made as follows;

- Use System/Load Factory Default in MENU
- The default settings are based on SRD-1684.
- The initial administrator ID is "admin" and the password should be set when logging in for the first time. Please change your password every three months to safely protect personal information and to prevent the damage of the information theft. Please, take note that it's a user's responsibility for the security and any other problems caused by mismanaging a password

Category		Details		Factory Default
			Date	YYYY-MM-DD
			Time Format	24 hours
	Data /Tima /Languaga	Data /Tima /Languaga	Time Zone	GMT
	Date/Time/Language	Date/Time/Language	Time Synchronize	OFF
			DST	OFF
Custom Cottingo			Language	English
System Settings		Admin	ID	admin
		User	Group	All Group
	Permission Management		Restricted Access	Search/Backup
	Management	Setup	Auto Logout	OFF
			Manual Input of ID	OFF
	System Management	System Information	Broadcast Format	NTSC/PAL
			Video	ON
			Audio	OFF
		Camera	CH Name	CAM 01 ~ CAM 16
			SEQ-Dwell Time	5 sec
			Туре	HD
	Camera		Port	RS-485
		PTZ	ID	Camera No.
Device			Protocol	None
			Brightness	53
		Screen Setup	Contrast	53
			Color	50
			Check Alarm Output Port	OFF
	Storage Device	HDD Alarm	Time Format Time Zone Time Synchronize DST Language ID Group Restricted Access Auto Logout Manual Input of ID Broadcast Format Video Video Audio CH Name SEQ-Dwell Time Type Port ID Protocol Brightness Contrast Color	OFF
	SIULAYE DEVICE		Replace Alarm Output Port	OFF
			Duration	OFF

Category		Details		Factory Default
		Baudrate		9600
Baudrate Baudrate Parity Data Data Stop bit System Keyboard Remote Control Device Remote Control Monitor Multi CH SEQ Time Monitor VGA/HDMI		Parity		None
		8		
	Remote Device	Stop bit		1
		System Keyboard		OFF
		Remote Control		ON(00)
Device			Event Display	OFF
			Display	All
		Monitor	ParityImage: step int of the step int	5 sec
	Monitor			1920 x 1080
				ON
		NAI-	Live Screen	ALL
		IVIOUE	Play Screen	ALL
	Recording Schedule	CH1~CH16		Both(Cont&Evnt)
	Event Record Duration	PRE Event	Event Display Display Multi CH SEQ Time VGA/HDMI HDMI Resolution Auto Detection Live Screen Play Screen Play Screen Resolution Frame Rate Record Quality Resolution Record Rate Record Quality	OFF
		POST Event		1 min
			Resolution	CIF
		Normal Recording	Frame Rate	NTSC: 7fps PAL: 5fps
Depending	DEC Quality/Decolution		Record Quality	Level 4
Recording	REC Quality/Resolution		Resolution	4CIF
		Event	Record Rate	NTSC: 7fps PAL: 5fps
			Record Quality	Level 4
		Dick End Mode	Setup	Overwrite
	Record Option		Play Screen Play Screen Resolution Frame Rate Record Quality Resolution Record Rate Record Quality Setup	OFF
		Auto Delete		OFF

Category		Details		Factory Default	
		Mode		OFF	
Event		Sensitivity		Level10(high)	
	Notion Detection Mode Motion Detection Alarm Duration Duration Wideo Loss Detection Alarm Video Loss Detection Alarm Alarm Duration Alarm Alarm Duration Alarm Tampering Detection Alarm Alarm Duration Interface Interface Interface Interface		None		
		Duration	Image: Server Image: Server	10 sec	
		Motion Region		All Area	
		Video Loss State		OFF	
Event	Video Loss Detection	Alarm		None	
		Alarm Duration		10 sec	
		Mode		OFF	
	Tamparing Dataction	Sensitivity		Medium	
		Alarm		None	
		Alarm Duration		10 sec	
	Alarm Schedule	BEEP		Event Sync	
			IP Type	Static	
			Transfer BandwidthIP AddressGatewaySubnet MaskDNSProtocol TypeDevice PortHTTP PortSecure Video TransmissionSecure Video TransmissionSecure Video TransmissionSecure Video TransmissionSecure Video TransmissionLSecure Video TransmissionSecure Video TransmissionLSecure Video TransmissionLSecure Video TransmissionLSecure TransferEvent IntervalThe number of attached images for each eventUse Event TransferUse Event TransferGroup	2Mbps	
		Interface		192.168.1.200	
		Interface Transfer Bandwidth IP Address Gateway Gateway Subnet Mask DNS DNS DNS	192.168.1.1		
	Connection Mode		255.255.255.0		
	Connection wode		Transfer Bandwidth IP Address Gateway Subnet Mask DNS Protocol Type Device Port HTTP Port Secure Video Transmission Secure Video Transmission Secure Transfer Event Interval The number of attached images for each event Use Event Transfer Group	168.126.63.1	
				TCP	
		Dort	Device Port	4520~4524	
		POIL	HTTP Port	80	
			Secure Video Transmission	OFF	
	DDNS	DDNS Site		OFF	
Network	Live Transfor	Resolution		CIF	
		Quality		Low	
			Server	OFF	
		SMTD	Port	25	
		SIVITY	SIVIT	Transfer BandwidthIP AddressGatewaySubnet MaskDNSProtocol TypeDevice PortHTTP PortSecure Video TransmissionSecure Video TransmissionSecure Video TransmissionUse AuthenticationSecure TransferEvent IntervalThe number of attached images for each eventUse Event TransferGroup	OFF
			Secure Transfer	Never	
	Mailing Service		Event Interval	10 min	
		Event		1	
			Use Event Transfer	OFF	
		Group	Group	OFF	
		aroup	Recipient Permission	OFF	

TROUBLESHOOTING

Symptom	Countermeasures
The system does not turn on and the indicator on the front panel does not work at all.	 Check if the power supply system is properly connected. Check the system for the input voltage from the power source. If the problem persists even after you have taken the above actions, check the power supplier and replace it with a new one if necessary.
Some channels display just a black screen even if they receive video sources.	 Check if the camera connected to the system properly displays the image. Sometimes, this problem may occur on a camera that is not properly connected to the video source. Check if the camera is properly supplied with power. Sometimes, this problem may occur on a channel with weak video signal from a video distributor that is connected to multiple systems. In this case, input the video source of the camera directly into the DVR. This may find the cause and solve the problem.
If I press the [REC] button, the REC indicator does not flash, nor the player start recording.	 Check if there is a free space on the HDD for the recording. Check if the record mode is set to ON in the record mode setting.
The screen displays the logo image repeatedly.	 This may occur from a problem with the main board, or the related software is corrupt. Contact the nearest service center for more information.
The Channel button does not work on the Live screen.	 The Channel button does not work if the current screen is in the event monitoring mode. In the event monitoring screen, press the [ALARM] button to exit the screen and select a channel.
The cursor will not move to the Start button when I start the calendar search.	 Check if the channel and the date that you want to play are marked with the V symbol. Both channel and date should be checked before you can start playing with the Start button.
When the alarm sounds, I press the [ALARM] button to release the alarm but it does not work. The alarm persists and I could not set it off in any way.	 Press the [MENU] button to release the alarm in the following way: 1) To release the event monitoring mode : Monitoring Mode – set the duration of the event monitoring to Off. 2) To release the alarm sound : Event Record Mode - Alarm (Motion Detection/Video Loss/Tampering Detection) – deactivate the alarm sound. 3) To release the event : Event Record Mode - Alarm (Motion Detection/Video Loss/Tampering Detection) – set the mode to Off.
No response is made even if I press the [PTZ] button on the Live screen.	 Menu → Camera → Check if the current protocols and other settings in the PTZ device are properly configured according to the PTZ camera.
I've found that the DVR does not recognize as many disks as installed when I have connected multiple external HDDs to the DVR.	• It takes time for the DVR to recognize multiple external HDDs. Try again in a moment and if the problem (of failure to recognize as many HDDs as connected) persists, it may occur due to a mechanical error of the HDD installed. Try again with a different HDD.

Symptom	Countermeasures
A message of "Need to reset date/time." Is displayed on the screen.	 This message is displayed if there occurs a problem with the time setting of the internal clock or an error in the clock itself. Contact the retailer or the service center for more information.
The time bar is not displayed in Search mode.	• The timeline can switch between normal and extension mode. In extension mode, the time bar may not be displayed in the current timeline. Switch to normal mode or use the left or right button to navigate through the time bar.
The "NO HDD" icon and an error message are displayed.	• Check the HDD for connection. If the problem persists in a normal condition, contact the nearest service center to have the HDD checked by the service personnel.
If I press the ESC key in full screen mode of the WebViewer, the system does not switch to a normal split mode.	 Press the ALT+TAB keys to select 'ACTIVE MOVIE' and press the ESC key again. The system will switch to a normal split mode.
I found it difficult to configure the network settings if using the default search, backup and router settings.	 For more information, refer to the user manual. If you want to check the basics of the product for a quick start, refer to the quick start guide (backup, search). If you use the router for network connection, refer to the "Connecting to the Internet using the router" section in this manual.
I forgot the password.	Contact the DVR administrator for help.
Backup data is just not played by the PC or DVR.	 When you are backing up data, you have choices about the player either: PC or DVR. Make your selection before proceeding. If you are using the PC to play the data, the format of the backup file should be SEC. If you are using the DVR for this purpose, formatting backup files should be done by the DVR.
My player does not switch to Live mode while in playback.	 Press the Stop [I] button on the remote control, or click the [I] icon on the launcher to switch to Live mode.
Recording does not work.	 If your player does not display a Live image at all, that indicates recording does not work so first check if you see an image on the screen. Recording does not work if the recording settings are not properly configured. Manual Record: Press the [REC] button on the remote control to start recording. Scheduled Record: Specify a desired time in Menu – Record – Recording Schedule. Recording will start at the specified time. <continuous> Record: Recording will proceed in any conditions at the specified time.</continuous> <event> Record: When an event occurs, recording will perform only if the event is of alarm, motion detection, video loss and Tampering Detection. If there is no event found, recording will not perform.</event> <continuous event=""> Record: If there is no event found, Continuous recording will perform. Whereas, if an event occurs, Event recording will perform.</continuous>

Symptom	Countermeasures
The image quality of the recording data is not good.	 Increase the resolution and quality level in Menu – Record – Quality / Resolution. Resolution: Select a bigger size when specifying the recording size. (1080p>720p>WD1>4CIF>2CIF>CIF) The recording image in the CIF format shows a deteriorated quality as it is enlarged from a small-sized image. Record Quality: Specify a bigger level for the recording quality.
	 If you increase the resolution and the recording quality, the data size increases accordingly. So the HDD will be filled faster. Overwriting will overwrite the existing data so recording will proceed at a shorter interval.

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To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.



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