SAMSUNG TECHWIN

8 CHANNEL/ 16 CHANNEL DVR

User Manual

SRD-852D/1652D





overview

FEATURES

The SRD DVR employs H.264 video encoding for 8 to 16 channel inputs and G.723 audio encoding for 4 channels, and supports hard disc recording and playback as well.

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

- Provides convenient User Interface
- 8/16 CH Composite Input Connectors
- Supports CIF(S)/2CIF(M)/4CIF(L) recording formats
- Network transfer supported
- De-interlacing processor for better picture quality
- Display of HDD information and status by using HDD SMART
- CIF(S) Size Recording in 480 (NTSC)/400 (PAL) IPS speed (SRD-1652D)
- CIF(S) Size Recording in 240 (NTSC)/200 (PAL) IPS speed (SRD-852D)
- Hard Disk overwrite function
- Mass storage hard disk backup through high-speed USB 2.0
- Backup function using USB 2.0 flash memory and external CD/DVD writer
- Simultaneous Record and Playback of 8/16-channel video data
- Various Search Modes (Search by Time, Event, Backup, POS and Motion Detection)
- Various Recording Modes (Time Lapse, Event, Scheduled Recording)
- Extended Hard Disk Connection (USB 2.0)
- Alarm Interface
- Remote Monitoring function by Windows Network Viewer

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.
- 13) 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

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.
- Before installing an additional HDD or connecting an external storage device (USB memory or USB HDD) to this DVR, check the compatibility. Consult your provider for the compatibility list.

Warning

Battery

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

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

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°F ~ +185°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."



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.

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 using the Power button on the front of your DVR.

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

This equipment is in door use and all the communication wirings are limited to inside of the building.

Standards Approvals

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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.

Remote Control	Power Cable	Network Viewer Software / User Manual CD
User Manual	Remote Control Battery (AAA)	SATA Cable
	0 a 0 ^a	
HDD Fixing Screw	Bracket Fixing Screw(4EA)	Bracket Rack

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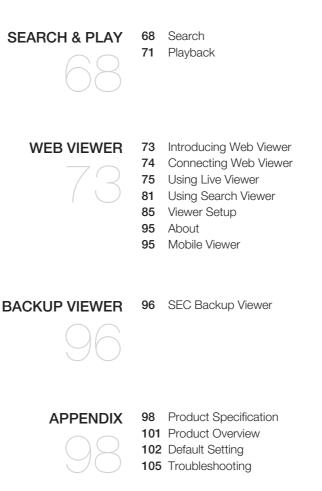


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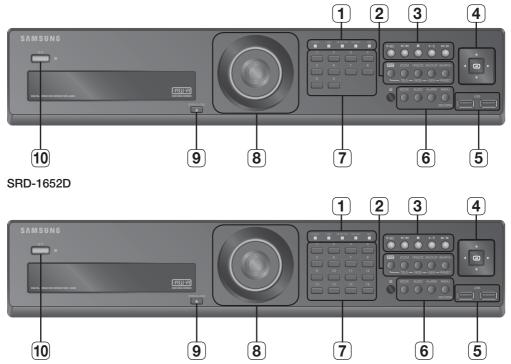
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<u>overview</u>

PART NAMES AND FUNCTIONS (FRONT)

SRD-852D

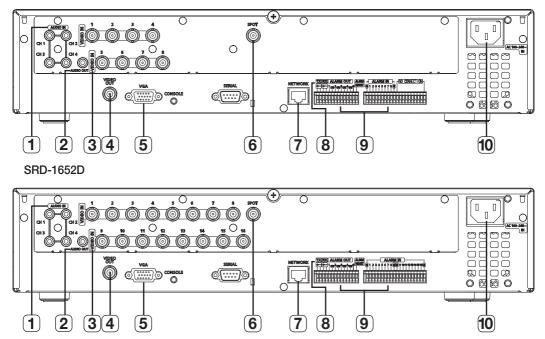


	Part Names	Functions
		ALARM : Lights on when an event occurs.
		HDD : Displays the normal access to HDD. Upon access to HDD, LED repeats on and off.
1	LED Indicator	NETWORK : Displays both network connection and data transfer status.
		BACKUP : Displays when Backup is in progress.
		REC : Lights on when recording is in progress.
		PTZ : Sets PTZ Mode ON/OFF.
		ZOOM(TELE) : Sets the screen to the x2 digital zoom. Runs the TELE function in the PTZ Mode.
2	Camera Control	FREEZE(WIDE) : Runs the FREEZE function in the Live Mode. Runs the WIDE function in the PTZ Mode.
		BACKUP(VIEW) : Runs the BACKUP function. Runs the Preset View function in the PTZ Mode.
		SEARCH(PRESET) : Goes to the search screen. Runs the Preset Setup function in the PTZ Mode.
	REC	Starts or ends the recording.
	∢ I/ ∢ ∢	Step Rewind (◄I) : Used for backward frame-by-frame search while in PAUSE. Fast Rewind (◄<) : Used for quick backward search while in Play.
3		Stop : Used to stop the playback.
	►/II	Play/Pause : Used to pause or resume the screen.
	►►/I►	 Fast Forward (▶►) : Used for quick forward playback. Step Forward (I►) : Used for forward frame-by-frame search while in PAUSE.
4	Direction / Select Button	Used to change a value or move the cursor up/down/left/right ($\blacktriangle \lor \blacklozenge \triangleright$). Selects a menu item or executes the selected menu.
5	USB Port 1 / 2	Connects the USB devices.
	MODE	Each time you press the button in Live mode, the screen mode will be switched in sequence. Each time you press the button in play mode, the screen mode will be switched in sequence. (1 live channel + (N-1) live channel)
6	AUDIO	Sets Audio ON/OFF.
	ALARM	Cancels the ALARM LED and the audible alarm when the alarm is going off, and to remove the icon.
	MENU/RETURN	Either goes to the system menu screen or moves to the upper menu from the lower menu.
7	Channel	Used to select channel numbers directly in the Live Mode, or numbers in the numeric input mode.
8	Jog shuttle	When a scroll bar appears in each menu, acts as a scrolling. In Play mode, - Jog : Pauses the playback and steps backward or forward. - Shuttle : Fast playback forward or backward.
9	OPEN/CLOSE	Used to open and close the DVR-RW disc tray.
10	Power	Power LED : Displays the power ON/OFF status. Power Button : Used to turn the DVR ON/OFF.

<u>overview</u>

PART NAMES AND FUNCTIONS (REAR)

SRD-852D



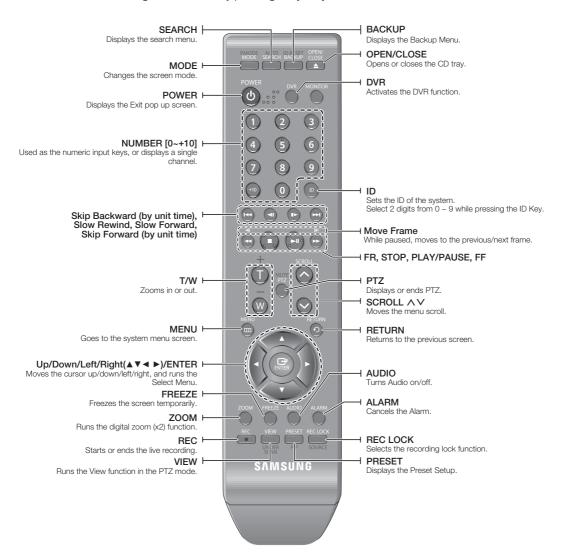
	Part Names	Functions
1	AUDIO IN	Audio input signal port (RCA jack).
2	AUDIO OUT	Audio Signal Output Port (RCA jack).
3	VIDEO IN	Composite Video Signal Input Port (BNC type connector).
4	VIDEO OUT	Composite Video Signal Output Port (BNC type connector).
5	VGA	VGA Video Signal Output Port.
6	SPOT	A live screen output port, separate from the VIDEO OUT.
7	NETWORK	NETWORK connector port.
8	RS-485	Used for RS-485 communication. (TX+, TX-, RX+, RX-)
9	ALARM	 ALARM IN 1~16 (SRD-1652D) : Alarm Input port. ALARM IN 1~8 (SRD-852D) : Alarm Input port. ALARM RESET IN : Alarm Reset port. ALARM OUT 1~4 : Alarm Output port.
10	AC 100-240V~ IN	AC 100~240V(50~60Hz)

overview

REMOTE CONTROL

DVR

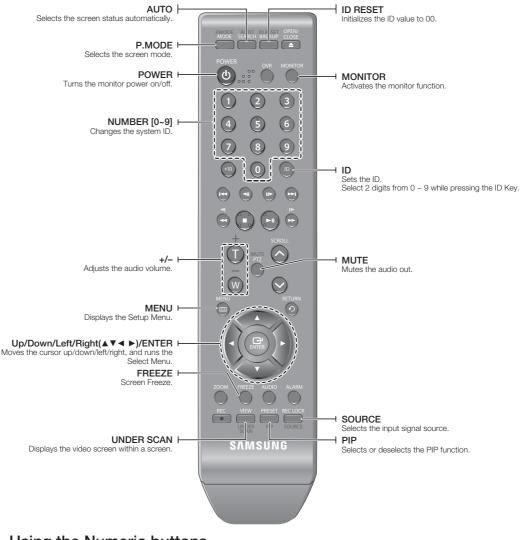
Available after switching to DVR mode by pressing the [DVR] button on the remote control.



Using the Numeric buttons

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

MONITOR



Available after switching to Monitor mode by pressing the [MONITOR] button on the remote control.

Using the Numeric buttons

CHANNEL 1-9	Press any button among 1 to 9.
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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 00.
- 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 48)

installation

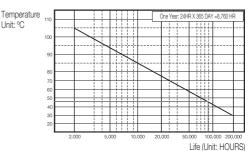
Please take note of the followings before using this product.

- 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 state-of-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°C \sim 40°C (32°F \sim 104°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 (Tma) 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 2]

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.



HDD ADDITION

You can install additional HDDs.

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.

- Number of HDDs supported : Default 1 HDD + Up to 3 HDDs added
- Make sure to unplug the power cord from the wall outlet before proceeding with the installation.
- By factory default, the unit is equipped with one HDD.
 - 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 DVR 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. Data may be lost due to external impacts during disassembly or installation of the DVR. HDD may be damaged if the DVR is suddenly stopped by a power cut or power off during operation. HDD or files stored inside may be damaged if the main body is moved or impacted during the HDD operation.

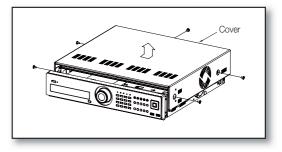
Cautions when adding a HDD

- 1. When adding a HDD, ensure that the cable does not get caught or the insulation does not come off.
- 2. Pay attention so as not to lose the disassembly screws or accessories.
 - If the screws or accessories are not put together correctly, the product may breakdown or not operate properly.
- **3.** Please check the HDD compatibility before adding a HDD.
 - Please contact your nearest dealer to obtain the list of compatible devices.

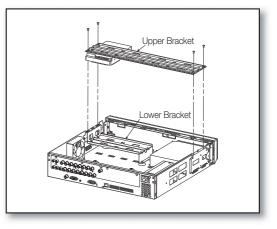
installation

If adding HDDs

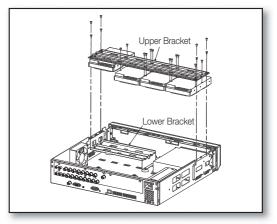
- The following figures are based on Model SRD-1652D.
- **1.** First, loosen the screws on both sides and remove the cover.



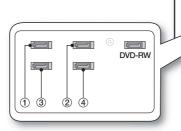
2. Disconnect the power and HDD Signal cable from the existing HDDs, then loosen the screws (x4) in the left/right and upper sides and remove the upper brackets.



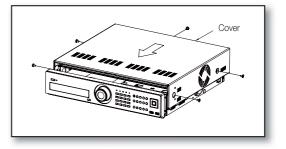
3. Install HDDs (x3) on the upper bracket and fix them with screws.



- When the installation of additional HDDs is done, insert the lower and upper brackets into the DVR and fix them with the provided screws.
- 5. When the installation of additional HDDs is done, connect the power cable and connect the HDD data cables (SATA Cable) to connectors ① ~ ④ on the main board.
 - Note that the number of a HDD data calbe is nothing to do with operation of the HDD. Just make arrangements of the connectors considering the length of each connector.



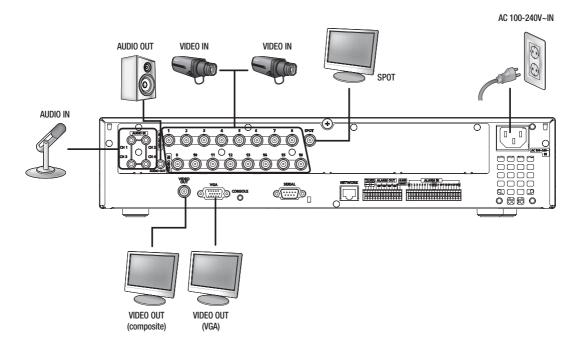
- 6. Check if the connectors are properly connected and there is no problem with wiring, and close the cover and fix it with screws.



connecting with other device

The following figures are based on Model SRD-1652D.

CONNECTING THE VIDEO, AUDIO, AND MONITOR



CONNECTING THE USB

- 1. By factory default, a USB port is provided for external connection.
- 2. You can connect a USB HDD, USB CD/DVD player, USB memory or mouse to the USB port.
- If a USB HDD is connected to the system, recognition and settings are available in "Menu > Setting the Device > Storage Device". (Page 46)
- 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 POS DEVICE

- 1. You can connect a POS device to the RS-232C port on the product's rear side when you connect it directly with a RS-232C cable.
- Connection setup for the RS-232C port is available in "Menu > Device > POS Devices", press the <POS Device Setup> button and set <Baudrate, Parity, Data, Stop bit and Transfer Type>. (Page 49)

CONNECTING THE ALARM INPUT/OUTPUT

The Alarm In/Out port at the back is composed of the following.

1. Alarm In Port for SRD-852D

G	1	A 2	L/ 3	 	 N 7	8	G	1.1	NC) (00	NM	IE(CT	10	N)]

2. Alarm In Port for SRD-1652D

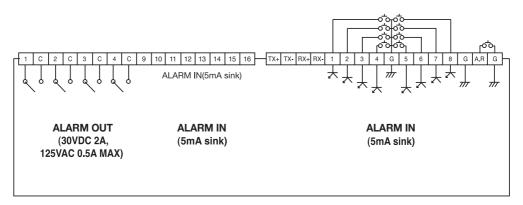
G 1 2	34:	 arn 8 G	0.000	 1011 ·	1213'	1415 [.]	16G

3.	Alarm	Out	Port
ν.	7 1001111	out	I OIL

TX RX ALARM (OUT ALARM
+-+-1 000 2 000 3 0	RESET

connecting with other device

- ALARM IN 1 ~ 8 (SRD-852D) : Alarm Input Port
- ALARM IN 1 ~ 16 (SRD-1652D) : Alarm Input Port
- ALARM RESET : On receiving an Alarm Reset signal, the system cancels the current Alarm Input and resumes sensing.
- ALARM OUT 1 ~ 4 : Alarm Output Port



CONNECTING THE RS-485 DEVICE

Connect the RS-485 device through the back port.



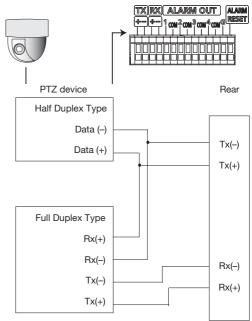
You can connect and control the PTZ camera which supports the RS-485 communication.

- Transfer Type : You may select either Half Duplex or Full Duplex as the data transfer type.
- Baud Rate : Supported Baud rates are 600/1200/ 2400/4800/9600/19200/38400.
 - Ø

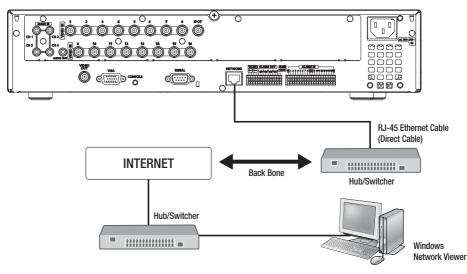
 Check if the RS-485 device is compatible with the product first.

- 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.

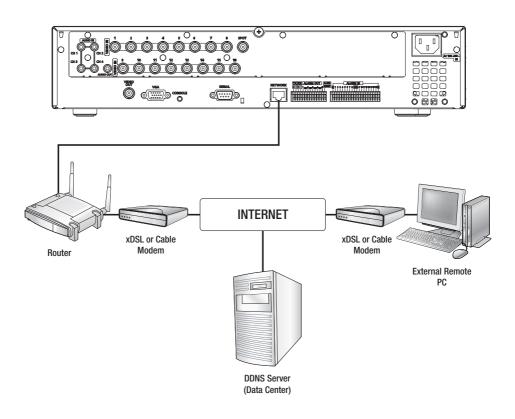
For further information, refer to the respective PTZ Camera's documentation.



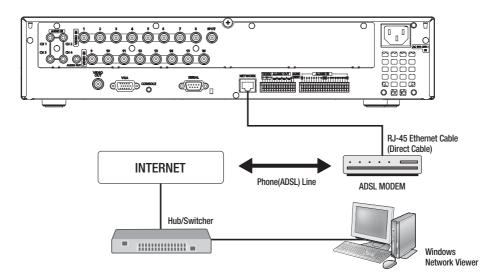
Connecting to Internet through Ethernet (10/100BaseT)



Connecting to the Internet using the router



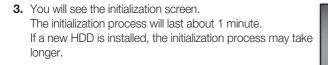
Connecting to Internet through ADSL



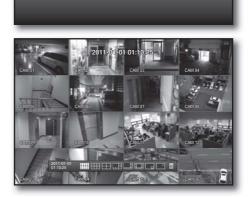
GETTING STARTED

Starting the system

- 1. Connect the power cable of the DVR to the wall outlet.
- 2. Press the Power button on the front panel.



4. The live screen appears with a beep.



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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 the front panel, 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 or the front panel 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 39)



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 or the front panel.

- The login dialog will also appear if you press a menu button on the remote control or the front panel of the DVR when the corresponding menu requires logging in.
- By default, initial ID and password are set to "admin", and "4321".



For the restricted permission, refer to "Permission Management > Setting Permissions". (Page 39)

Locking All Buttons

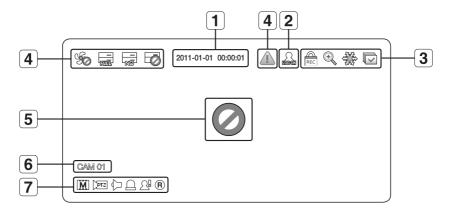
This will restrict access to all buttons available in the DVR.

- In Live mode, press buttons 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.



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	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.
		÷,	Displayed if the zoom function is activated.
			Displayed if you press the Pause button.
3	Screen Mode		Displayed in Auto Sequence mode where all channels are switched at the specific time interval.
		REC	Displayed if the recording is in process. (\square) To cancel the recording, enter the password.
		So	Displayed if there is a problem with the cooling fan.
			Displayed if the HDD is full and the DVR has an insufficient space to record.
4	System Operation		Displayed if no HDD is installed or the existing HDD should be replaced.
		Ø	Displayed if the HDD needs a technical examination.
			Displayed if a new firmware is found from the network.
5	Video Input Status	Ø	Displayed if no input is entered in the condition that the camera is set to $<\!0N\!>$.
<u> </u>	video input Status		Nothing will be displayed on the screen if the camera is set to $<\!\!0FF\!\!>$.
6	Camera Name	/ Channel	Displays the camera name and the changed channel, if any.
		II. / M / S	Displays the resolution of the recording screen. (Page 54)
		PTZ	Displayed in PTZ setting, and highlighted yellow if PTZ is in operation.
		$\Diamond I \not >$	Displays AUDIO ON/MUTE. Not displayed in video mode if deactivated.
7	Camera Operation	Д	If the sensor is set to $<$ ON $>$, the input signal will be displayed on the screen of the connected channel.
		24	Displayed if a motion detected in the condition that the motion detection is set to $<\!0N\!>$.
		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.

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 front panel or the remote control, you can access a desired menu by rightclicking 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 DVD operation mode.

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



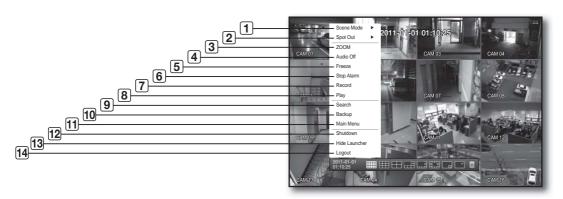
< Split Mode Menu >



< 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 29)
2	Spot Out	Refer to "Spot Out". (Page 31)
3	ZOOM	Refer to " Zoom ". (Page 32)
4	Audio On/Off	Refer to "Audio ON/OFF". (Page 32)
5	Freeze	Refer to "Freeze". (Page 32)
6	Stop Alarm	Stops the alarm output and the event monitoring. Refer to "Event Monitoring". (Page 33)
7	Record/Stop	Starts/stops the standard recording.
8	Play	Plays the search result (data). Refer to "Search & Play > Play". (Page 71)
9	Search	Refer to "Search & Play > Search". (Page 68)
10	Backup	Refer to "Using the DVR > Setting the Backup". (Page 58)
11	Main Menu	Accesses the main menu. Refer to the Using the DVR section. (Page 34)
12	Shutdown	Turns down the DVR.
13	Show/Hide Launcher	Shows or hides the launcher. Refer to "View the Launcher Menu". (Page 28)
14	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 66)
3	ZOOM	Enlarges the selected image. (Page 32)

2011-01-01 01:10:25

View the Launcher Menu

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-852D do not support the 16-split screen mode.







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 34)
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. This is available only in Single Live mode.
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.

SRD-1652D display Live images from 16 channels in a total of 8 layout of split screens.

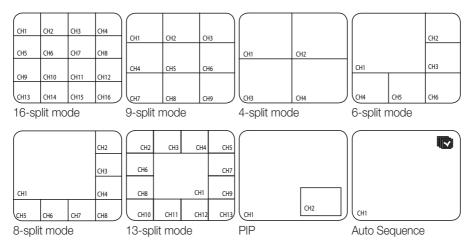
Switching the screen mode

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 front panel or the remote control to switch the mode in the sequence of the launcher menu items.



SRD-852D do not support the 16-split screen mode.

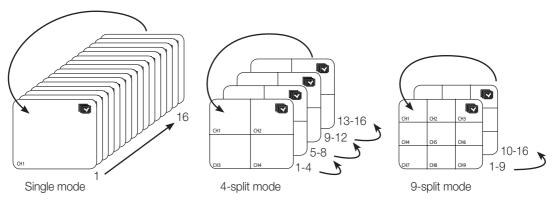


Switching the split mode

SRD-1652D display 16 Live images in the sequence of Single, 4-split and 9-split modes.

Auto Sequence

Ø



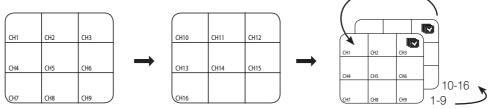
- In Single mode, If you have set <SEQ-Dwell Time> in "Setting the Device > Camera", Auto Sequence will be conducted at the set interval. (Page 44)
 - In a split mode, If you have set < Multi CH SEQ Time> in "Setting the Device > Monitor", Auto Sequence will be conducted at the set interval. (Page 50)



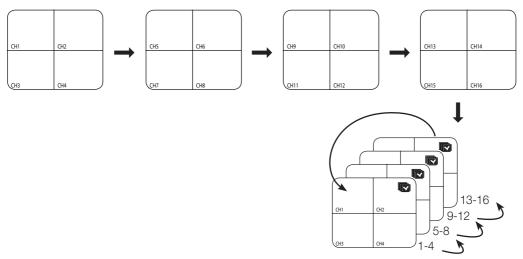
Manual Switching

Press the left/right button on the front panel or 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 $[\blacktriangleright]$ 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

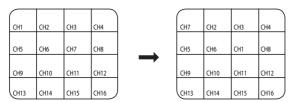
You can display the channel in a desired area of a split screen.

- 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



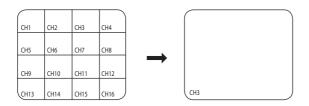
Switching to Single Mode

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 front panel or the remote control to switch to its Single mode.

Refer to "Remote Control > Using the numeric buttons". (Page 13)

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



SPOT OUT

The Spot Out monitoring is independent of the Live mode, which monitors a specific channel through the Spot Out port.

Selecting a Spot Out mode

If an event occurs such as sensor, motion or alarm from the Spot Out port in connection with a monitor, you can select a output screen mode.

- 1. In Live mode, right-click any area on the screen. The Live menu appears.
- **2.** Click Spot Out. Supports Auto Sequence and Single modes.



< Multichannel Live Menu >

ZOOM

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 the right-click menu. Press the [ZOOM] button on the front panel or 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 or the front panel to move the enlarged area.
- 4. Press the [ZOOM] button on the front panel or 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 (\Box) on the screen, or press the [**AUDIO**] button on the front panel or the remote control to turn it on/off.



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 front panel or the remote control, or click < Freeze > in the launcher menu.

The playback of the image is stopped temporarily.

2. Press the [FREEZE] button again, or click < Freeze >. This will release the freeze.

• LIVE

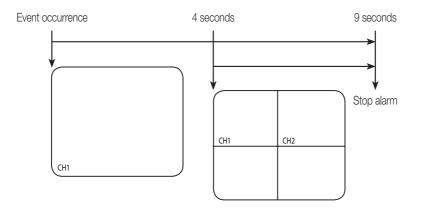
EVENT MONITORING

This will display the channel in sync with a specific event (Sensor/Motion/Video Loss) if it occurs. In **"Monitor** > **Event Display**", set the event monitoring to ON/OFF and specify the event display time. (Page 50)

- 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 50)
 - Ex : If you set < Event Display> to 5 seconds, and only one event occurs in CH 1.

Event occurrence 5 seconds

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.
- This will also apply to the Spot Out monitor.

using the DVR

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 or on the front panel.
 - If not logged in, it prompts with login window. Refer to "Login". (Page 24)



- 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.
- 4. 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.
- 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.



ate/Time/La	nguage Holiday
· Date	2011-01-01 YYYY-MM-DD V
• Time	08:14:24 24 Hours
Time Zone	GMT
· Time Sync.	Setup
· DST	Dec First (Sun) 0 Cec First (Sun) 0
 Language 	English
	,

- Server.
- Last Sync Time : Displays the most recent synchronization time from the selected time server.

- Time Server : Enter an IP or URL address of the time

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

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

O Date/Time/Language

Use 203.248.240.103

Usi

OK Cancel

o/l a

Time Server

- Last Sync Time

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

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

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.

- Ex : Select January 10th and check on <1/10> only to make every January 10th a holiday. Check both on <1/10> and <Jan 2nd Mon> to make every January 10th and 2nd Monday 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 [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.

using the DVR

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.

By default, initial ID and password are set to "admin", and "4321".

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

Using Virtual Keyboard

- ① 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.
- ④ 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.
 - You can use mouse wheel and jog shuttle button too.

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 or front panel.



Permission Management

admir

۰ID

Password
 Confirm PM

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.

- **1.** Use the up/down buttons ($\blacktriangle \nabla$) in <**System**> window to move to <Permission Management>, and press [ENTER] button.
- 2. Select <Group>. A window for <Add>, <Delete>, <Rename>, and <Group Authority> setup appears.
- **3.** Use direction buttons $(\blacktriangle \lor \blacktriangleleft \triangleright)$ to move to a desired item, and set the value.
- Backup Menu Record Lock M PTZ Rem Shutd ote Alarm Out • 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.

Permission Management

Group Authorit

Live View

Search

Group

Setup

Add Delete R

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 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.

- 1. 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.
- 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.
- Menu : You can set menus accessible with a specific permission. Group users can access the permitted menus only.

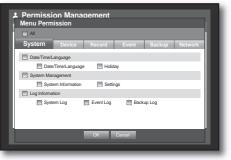
Select a menu to display the Menu Permission screen.

 Record Lock, PTZ, Remote Alarm Out, Shutdown : Select an item so that the item will be added to the permissions.

2. Select <OK>.

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





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.

1. 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	SAMSUNF
SAMSUNG	SAMSUNG Audio Off Freeza
SAMSUNG	SAMSUNG Liger Meru Hide Launcher Logot
SAMSUNG 201: 01:1	

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.
- 5. Select <OK>. You change to the password will be applied.

- ID abc
Password
Confirm P/W

USING THE DVR

Setting the User

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

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 <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 74)
 - For more information about use of Network Viewer, refer to the Network Viewer's user guide. (Page 5)
- 4. When the user setup is done, press <OK>.

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.
- 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.
- 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.



Admin	Group	User	Setup
• Group	Add User		Add
Gro	· Name	Kim	Delete
	- ID	ksh	
	- Viewer	Not Used	
	Select Group	ABC	
	Password		
	Confirm P/W		
		OK Cancel	
		< >> Pre	vious/Next Page
		OK Cancel	

Permission	n Management		
Admin	Group	User	Setup
Restricted Acc		Record Lock Shutdown	-
Restriction on	Network Access		
Auto Log out Manual Input of	3 min 🔽 D 🔲 ON		
	ОК	Cancel	

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- Manual Input of ID : Prompts you to enter the user ID manually for the login process.

 - 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

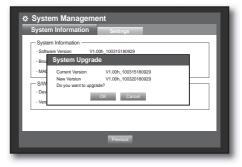
You can check the current system version, broadcasting system, MAC address. You can update the system. Using the mouse may help make setup easier.

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

System Informati	on Settings	
- System Information		
Software Version	V1.00h_100315180929	
· Broadcast Format	NTSC	
MAC Address	00:00:F0:54:FF:FF	
S/W Upgrade		
Device	USB2FlashStorage Vpgrade	
Version	V1.00h_100315180929	
	Previous	

· 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, CD/DVD 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.
- Updating progresses with 3 steps as shown in the figure.



-	System Manageme System Information	Settings	
[System Information Software Version V1.0 Broack S/W Upgrade MAC A Software upgrad Version	0h_100315180929	
	_	Previous	_

System Infor	mation Settings	
System Inform		
Broade S/V MAC A S/W U Device Version	/ Upgrade Schware upgrading Do not turn off during the upgrade.	
	Previous	

- **6.** When the updating is done, it automatically restarts. Do not turn the power off until it finishes restarting.
- If "Upgrade Failed" appears, retry from the step 4. When you experience continued failure, consult the service center for assistance.



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 0 MB (Remained Capacity) DVR-USB Social To Case Include Network Settings Laad Factory Default	System Inform	ation Settings
Load Factory Default Default	·DVR→USB	38010100 Export No data Import
	Load Factory De	fault Default

- Storage Device : Shows the connected storage device.
- Export : Exports DVR settings to the connected storage device.
- Import : 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.
- 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.
- 4. To move to the previous menu, press < Previous>.

System Information	Settings	
·USB	OK Cance	
	Previous	

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.

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 <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.
- 3. Use direction buttons (▲▼ ◀ ►) to move to a desired item, and press <**Search**>.

System Log	Event Log	Backup Log
Search Day	2011-01-01	Search
First Page	Last Page	Type View all
No.	Log List	Date/Time
LI		Previous/Next Page
	Previou	

USING THE DVR

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.



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 Info	ormation	
System Lo	g Event Log	Backup Log
Search Day	2011-01-01	~ # 2011-01-02 = Search
First Pag	e Last Page	Previous/Next Page
No.	User	Date/Time
_	Pre	vious

SETTING THE DEVICE

You can setup Camera, Storage Device, Remote Device, POS 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 or front panel.
- 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.



Camera

Video 🗸 Audio 🖌 CH Name

CAM 02

CAM 04

CAM 05

< >> Pre

OFF

us/Next Page

ON • OFF • ON • OFF •

ON 👻

ON -

4. Select <Camera>.

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

- 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.
- Audio
 - If set to < ON >, you can turn the audio of the channel ON/OFF on the Live screen.
 - If set to <OFF>, the channel's audio is off on the Live screen and not recorded.
 - Audio output is available for only 1 channel.
 - You can set audio inputs only between 1ch and 4ch.
- CH Name : Up to 15 characters including blanks are allowed. (The first character should not be empty.)
 - Refer to "Using Virtual Keyboard". (Page 36)
- SEQ-Dwell Time : You can set the dwell time between channels for the Live screen and Spot Out.
 - If set to <**OFF**>, the channel is not listed in the Auto Sequence mode.

- Progressive : You can set the progressive camera to ON/OFF.

■ If you set it to <**ON**> for the progressive camera, screen flickering will be reduced.

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 50.
- 6. When the camera setup is done, press <OK>.



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 Devices**" settings. (Page 48)

Using the mouse may help make setup easier.

- 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.
- ID : Set the ID of the connected camera of each channel. You can easily setup by using the numeric buttons on the remote control or front panel.
- 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. (Page 67)
- 4. When the PTZ setup is done, press <OK>.

Storage Device

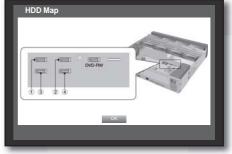
You can check information on storage devices.

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, CD/DVD). 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 < Device>.
- No. : Shows the assigned number of the internal HDD.
- To see the detailed positioning of the HDD according to the number, refer to <HDD Map>.
- Used/Total : Shows the used/total capacity of the storage device.
- Usage : Sets the storage device's usage.
 USB memory is used only for backups.
 - External USB HDD, SATA HDD are used for extension and backup.
 - A maximum of 2TB for each port is supported for backup on a high capacity SATA HDD such as RAID equipment (ex: SVS-5R), and a maximum of 4TB for extension purposes.
 - SVS-5R supports only RAID1 and RAID5.
- 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.
- HDD Map : Shows the internal HDD's locations according to assigned numbers.
 - Refer to this for servicing or additional HDD installation.
- 3. To move to the previous menu, press <OK>.





<SRD-852D/1652D>

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.

Devic	e e	Format	HDD Alarm	
Device	e 📃 Sel	ect	Used/Total	Usage
HDD	1		12.28G/499.37G	Internal
CD / DV	/D -		0/0	Backup
Format				

- 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>.



HDD Alarm

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

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.
- Select <HDD Alarm>. A window for setting HDD check and replace output ports and their durations appears.
- Use direction buttons (▲▼ < ►) to move to the desired item.
- Alarm
 - Alarm signal will output through the alarm out port on the rear side when selected <1>, <2>, <3>, and <4>.
 - If <BEEP> was selected, a beep will sound.
 - If <All> was selected, both beep sound and alarm signal through rear side ports will output.
- 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.

Device	Form	at	HDD Alar	n	
Check Alarm	Output Port	1	2 BEEP	3 Al	
Duration		OFF			
· Replace Alar	m Output Port	1	2	3	
Duration		4 OFF	BEEP	AI	

- Duration : Sets the alarm duration for the alarm signal and beep sound.
 - Check Alarm, Replace Alarm signals will output through the selected alarm out ports (1, 2, 3, and 4).
 - If <BEEP> was selected, a beep will sound.
 - If <AII> was selected, both beep sound and alarm signal through rear side ports will output.



Check> status means that the HDD is operating but it has problems that require technical examination.
() appears on the Live screen.

- <Replace> status means that the HDD has defect and requires immediate replacement. () appears on the Live screen.
- 4. When the HDD Alarm setup is done, press <OK>.

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.
- 4. Make sure to match IDs of the DVR, System Keyboard and Remote Control, and press < OK >.

Baudrate	Parity	Data	Stop Bit	Transfer type
9600 👻	None 👻	8 👻	1 v	Half Duplex 👻
System Keyboard Remote Control	OFF V	ID 00		

For changing the remote control's ID, refer to "Changing the Remote Control ID". (Page 13)

POS Devices

You can set properties of POS devices connected to the DVR.

A POS device connection requires channel, preset, and Port/Ethernet settings.

Using the mouse may help make setup easier.

- Use the up/down buttons (▲▼) in <Device> window to move to <POS Device>, and press [ENTER] button.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- POS USE : When selected <POS USE>, DVR and POS will be connected.
 - If you change settings for the device and press <**OK**> while the <**POS USE**> is not checked, the changes for POS device will not be saved.

POS	USE		POS Device Setup
POS	CH	Preset -	Port/Ethernet
1	None	No preset	None
2	None	No preset	None
3	None	No preset	None
4	None	No preset	None
5	None	No preset	None
6	None	No preset	None
7	None	No preset	None
8	None	No preset	None
		**	>> Previous/Next Page

USING THE DVR

7 8

- POS Device Setup : Sets the communication setups for the POS device and DVR.
 - It is independent to the Remote Device setup.

- CH : Select the camera to be synchronized to the POS device.
 - If selected a channel input field, "Sync Channel Setup" window appears.
 - One POS device can be synchronized to up to 16 cameras (channels), however one channel cannot be synchronized to multiple POS devices.
 - Channels to be synchronized to a POS device should be set to "Event" in "Main Menu > Record > Recording Schedule". (Page 52)
- Preset : Sets the name, start and end strings of the receipt for the preset.
 - Preset name should be unique.
 - Use <Add> button to display "Add Preset" window, and set its name, start string, and end string.
- Port/Ethernet : Sets the port number for the DVR and POS device connection.
 - COM1 : For RS-232C connections
 - 7001~7016 : For Ethernet connections
- 3. When the POS Device setup is done, press < OK>.





POS De

POS

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>.
- 3. 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
 Spot Out
 Mode

 Feren Daplay
 Date
 Time
 CH Name
 Kon
 Mod Sco Time
 Sec

 VGA
 BODe50

 Sharpness
 LivetT_(Low)

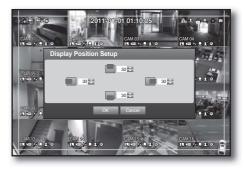
 Deplay Position Scop

 CK
 Lived
- Multi CH SEQ Time : Sets the interval between automatic display switching in 4-split and 9-split mode of the Live screen.
- Sharpness : You can adjust the sharpness of the video output signal.
- 4. When the monitor setup is done, press <OK>.

Screen Setup

Some monitors many 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.

- 1. In the <Device> window, press the up/down (▲▼) button to move to <Monitor> and press the [ENTER] button.
- 2. Select the <Monitor> item.
- **3.** 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 front panel or the remote control to adjust the data position.



USING THE DVR

Setting the Spot Out

You can set the DVR to output information / video apart from the monitor out.

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 <Spot Out>.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.



- Spot Out 1 : Specify a single channel for output. You can set the dwell time between the screen switching in "Setting the Device > Camera > SEQ-Dwell Time". (Page 44)
- Ø

 You can setup using the mouse right button in Live screen. Refer to "Spot Out". (Page 31)

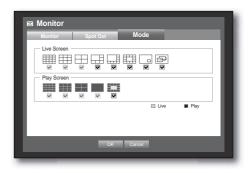
4. When the Spot Out is done, press <OK>.



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>.



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 or front panel.
- 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.



- 4. Select <Recording Schedule>. A window of scheduled recording setup appears.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.

CH1		1																						
AI ,	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun ⊧																								
Mon ⊧																								
Tue ►																								
Wed ▶																								
Thu ▶																								
Fri≯																								
Sat ⊧																								
Hol ⊧																								
□ No R	econ	ding	. 0	∎ C	onti	nuo	us		Ev	ent		B	loth	Cor	nt&E	vnt)		-	A	.pp)	y to	All	СН	

- 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>.
 - Event recording and scheduled recording starts about 3 seconds prior to the event/schedule for guaranteed recording.



Recording Color Tags

Color	Function	Description
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

Each press of a selected cell will cycle through <No Recording>-<Continuous>-<Event>-<Both(Cont&Evnt)>.

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, IPS, and quality of recordings by channel, and by recording type of standard / event.

Setting Standard Recording Properties

You can set each channel's resolution, quality and IPS for normal 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 <Standard>.
- 3. When the recording setup is done, press <OK>.
- Remaining count : If you change the settings of the resolution and the remaining rate, the frame rate available for each resolution will be recalculated.

Remaining	count : 4CIF(L) : 0	2CIF(M) : 0		CIF(S) : 0	
CH	Resolution -	Record Rate	-	Record Quality	-
1	CIF(S) 👻	7.5ips	Ŧ	Level4	¥ 🗅
2	CIF(S) v	7.5ips	Ŧ	Level4	-
3	CIF(S) v	7.5ips	Ŧ	Level4	-
4	CIF(S) +	7.5ips	Ŧ	Level4	Ŧ
5	CIF(S) +	7.5ips	Ŧ	Level4	+
6	CIF(S) v	7.5ips	Ŧ	Level4	-
7	CIF(S) +	7.5ips	Ŧ	Level4	Ŧ
8	CIF(S) +	7.5ips	Ŧ	Level4	-
		*	*	Previous/Next Page	•

CH	Pre Event 👻		POST Event 🗸	
1	OFF	*	1 min	
2	OFF	*	1 min	Ψ.
3	OFF	-	1 min	-
4	OFF	*	1 min	-
5	OFF	*	1 min	
6	OFF	*	1 min	-
7	OFF	*	1 min	-
8	OFF	*	1 min	
			Previous/Nex	t Page
		OK Ca	ncel	

Setting Event Recording Properties

You can set each channel's resolution, quality and IPS 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.
- 3. Use direction buttons (▲▼ ◀ ►) to move to a desired item, and select it.
- Resolution : Sets the resolution of the recorded screen.
- If you set the resolution to <4CIF(L)>, up to 4 channels are supported.
- Record Rate : Image Per Second, means the frames recorded per a second.
- Record Quality : Sets the recording quality.
 - The remaining rate for each channel displayed in DVR is a sum of frame rates in both standard recording and event recording.
 - You cannot increase the remaining count if the current remaining count has reached zero or there is no available remaining count from any other page. If this is the case, reduce the remaining count for the current page, or do so for the same channel on any other page.
 - Only if the resolution is set to 4CIF, you can select Level 9 for 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. Using the mouse may help make setup easier.

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

A Record Option
Disk End Mode Overwrite
Disk End Beep
Auto Delete
The recording information will be deleted.
Do you want to proceed?
OK Cancel
OK Cancel

- 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 "Overwrite".)
- 3. When the recording option setup is done, press <OK>.

Standar		vent				
Remaining	count : 4CIF(L) : 0		2CIF(M) : 0		CIF(S) : 0	
CH	Resolution -		Record Rate	Ŧ	Record Quali	ty 🕶
1	CIF(S)	*	7.5ips	Ŧ	Level4	- -
2	CIF(S)	Ŧ	7.5ips	Ŧ	Level4	-
3	CIF(S)	Ŧ	7.5ips	Ŧ	Level4	-
4	CIF(S)	Ŧ	7.5ips	Ŧ	Level4	-
5	CIF(S)	+	7.5ips	Ŧ	Level4	-
6	CIF(S)	Ŧ	7.5ips	Ŧ	Level4	-
7	CIF(S)	Ŧ	7.5ips	Ŧ	Level4	-
8	CIF(S)	¥	7.5ips	¥	Level4	
			44		Previous/Next Pa	ge

USING THE DVR

SETTING THE EVENT

You can set recording options for sensor, motion, and video loss event.

Sensor Detection

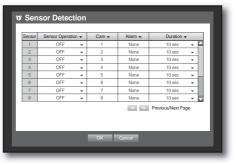
You can set the sensor's operating condition and connected camera, as well as alarm output and its duration. Using the mouse may help make setup easier.

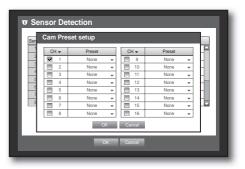
- 1. Press the [MENU] button on the remote control or front panel.
- Use the left/right button (◄ ►) to select <Event>. Event setting menu is selected.

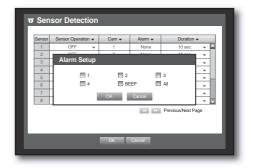


- Use the up/down buttons (▲▼) to move to <Sensor Detection>, and press [ENTER] button. A window of sensor detection setup appears.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Sensor Operation : Sets the operation mode of sensors.
 - < OFF> : Sensor does not operate.
 - <**N.O (Normal Open)**> : Sensor is opened. If the sensor is closed, it generates alarm.
 - <N.C (Normal Close)> : Sensor is closed.
 If the sensor is open by interruption, it generates alarm.
- Cam : Select a channel to be connected to the sensor. If selected camera, "**Cam Preset setup**" window appears. Select a channel and setup the preset.
 - Preset setup can be done in PTZ mode. Refer to "Preset Setting". (page 67)

- Alarm : Sets the alarm output method.
 - For further information on alarm output, refer to "HDD Alarm > Alarm". (Page 47)
- Duration : Sets the duration of alarm signal and alarm sound.
- 5. When the sensor detection setup is done, press <OK>.







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.

- 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 47)
- Alarm Duration : Sets the duration of alarm signal and alarm sound.
- 3. When the motion detection setup is done, press <OK>.

Setting the Motion Detection Area

- Select < Motion Region>.
- 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 <

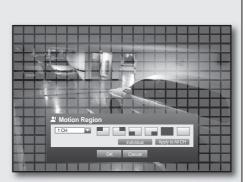
- To set the area using < Individual> selection
- In the "**Motion Region**" window, you can select cells individually by using <**Individual**>.

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 or front panel 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.
 When the motion detection actual is done process of the
- 3 When the motion detection setup is done, press <OK>.

6 OFF Level10(Hgh) None 10 ac 7 OFF Level10(Hgh) None 10 ac 8 OFF Level10(Hgh) None 10 ac ** >* PrevoueNext Page Motion Region Motion Region			5	OFF		Level10(High) 👻	None	10 sec	
8 OFF ↓ Level10(High) None 10 sec ↓			6	OFF	Ŧ	Level10(High) 👻	None	10 sec	-
n. 🔹 🕨 Previous/Next Page Motion Region			7	OFF	Ŧ	Level10(High) 👻	None	10 sec	-
Motion Region			8	OFF	Ŧ	Level10(High) 👻	None	10 sec	
Motion Region	۱.						44 >>	Previous/Next Pag	е
OK Cancel								Motion R	egion
OK Cancel									
OK Cancel			-	_	-		_		_
							Cancol		
						UK	Galicei		
		2		-		UK	Callor	_	-
				-		UK	Caller	-	-
				-		UK	Caller	_	
n sound.	n sol	unc	ł.			UK	Calice	_	
m sound.	n sol	unc	ł.			UK	Calice		
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m sound.	n sol	unc	1.			UK	Calife		
n sound.	n sol	unc	1.			UK			

P Motion D



✓ 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.

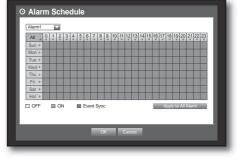
- Use direction buttons (▲▼ < ►) to move to a desired item, and set the value.
- Video Loss State : Sets whether to activate video loss detection.
- Alarm : Sets the alarm output method.
 - For further information on alarm output, refer to "HDD Alarm > Alarm". (Page 47)
- Alarm Duration : Sets the duration of alarm signal and alarm sound.
- 3. When the video loss detection setup is done, press <OK>.

Alarm Schedule

10

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.
- 2. A window of <Alarm Schedule> settings appears.
- Alarm : Sets the alarm output method.
 - For further information on alarm output, refer to "HDD Alarm > Alarm". (Page 47)
- <**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.
- Apply to All Alarm : Applies the configured schedule to all alarms.
 - 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>.





CH	Video Loss State 👻	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
			Previous/Next Page

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/DVD and USB/SATA type. (Page 98)

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 or front panel.
- 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 26)
- 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. If the built-in internal CD/DVD or external USB CD/DVD is used for the backup, you can select the format of recording between AVI and SEC.
- Type : Sets the backup data format.
 - AVI : Saves the CODEC information provided by the DVR with the recording data, and saved data can be played back by using external viewers (such as Windows Media Player) on a PC.
 - DVR : Saved data can be played back only by the DVR.
 - SEC : Saves data in the Samsung's proprietary format with built-in viewer, which supports immediate playback on a PC.
- Filename : You can set the back 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 34)

Start 2011-01-01 00:01:06	~	End 2011-01-01 08:25:45	
Overlap List0			
	3 🔲 4		8
Device USB-Storage		· Type AVI	
Folder \20110101\		Filename 0001 Chang	e
Check capacity		Backup	
		Used	
		Free	
	_		_

- 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.
 - When a CD/DVD or 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 a CD or DVD media causes errors, the disc tray opens and closes a several times, and eventually backup process will fail. In this case, replace the CD/DVD media and try again.
 - If backup has failed, select "Device > Storage Device" and check the free space of the HDD and check also if the HDD is properly connected.



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

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.

Connection Mode

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 or front panel.
- 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.



4. Select < Connection>.

A window of connection mode setup appears.

- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Connection Mode : Sets the network connection mode.
- Bandwidth : Sets the maximum data flow to be transferred. (Upload speed)

Options will vary depending on the selected connection mode.

- For <**Static IP**>, <**Dynamic IP**> : Select one from 50 kbps ~ 2Mbps, and Unlimited.
- For <**ADSL**>, select one from 50 kbps ~ 600 kbps.

Connection	Mode
Connection	Protocol
Connection Mode Bandwidth	Static IP 2005
- IP - Gateway - Subnet Mask - DNS	192:168. 1.200 192:168. 1. 255:255.25. Image: State Sta
	OK Cancel

- IP, Gateway, Subnet Mask, and DNS
 - For <**Static IP**> : You can directly input IP address, Gateway, Subnet Mask and DNS.
 - For <**Dynamic IP**> : IP address, Gateway, and Subnet Mask are set automatically.
 - For <**ADSL**> : IP address, Gateway, and Subnet Mask are set automatically.
- User ID, Password : In case you selected ADSL, provide the "User ID" and its "Password".

Connection	Protocol
Connection Mode Bandwidth	ADSL Cookbps
· IP · Gateway · Subnet Mask · DNS	192.168.1.200 192.168.1.1 255.255.255.0 Immual 168.126.63.1
· User ID · Password	ID

DNS server for <Dynamic IP> and <ADSL> can be set by user only if you selected <Manual>.

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

Setting the Protocol

- Use the up/down buttons (▲ ▼) in <Network> window to move to <Connection Mode>, and press [ENTER] button.
- 2. Select < Protocol>.
- Use direction buttons (▲▼ ◄ ►) to move to a desired item, and set the value.
- Protocol Type : Select the protocol type between TCP and UDP.
 - If selected UDP, selections of Port (TCP), Port (UDP), and Unicast/ Multicast are activated.
- Port (TCP) : Initially, <554~558> is set. It increases / decreases by 5.
 - TCP: It has better stability and lower speed when compared to UDP, and recommended for internet environments.
- Port (UDP) : Initially, <8000~8160> is set. It increases / decreases by 160.
 - UDP : It has less stability and faster speed when compared to TCP, and recommended for local area network (LAN) environments.
- Unicast/Multicast : Select one between Unicast and Multicast. If selected Multicast, Multicast IP and TTL are activated.
 - Unicast : Transfers data (UDP, TCP) individually to each connecting client.
 - Multicast : Multiple client can receive the data (only in UDP) without putting additional traffic load to the network.
- Multicast IP : User can directly input.
- TTL : Select from 0 ~ 255. Initial value for the TTL is set to $<\!\!5\!\!>$.
- Webviewer Port : Enter the port number for the Web Viewer. Initially, it is set to <80>.
- 4. When the protocol setup is done, press <OK>.

Connection	Protocol	
· Protocol Type	TCP	
Port(TCP)	554 🚔 - 558 🚞	
· Port(UDP)	8000 - 8160	
Unicast/Multicast	Unicast	
Multicast IP	224.126. 63. 1	
· TTL	5	
Webviewer Port	80 🔛	
		- 1
	OK Cancel	
	UK Canba	

DDNS

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.
- 2. Use virtual keyboard to enter user inputs.
 - Refer to "Using Virtual Keyboard". (Page 36)
 - If selected <OFF> or <Samsung DDNS>, input fields are deactivated.
 - If you select <Samsung DDNS>, the "DDNS host address" item will be displayed.
- 3. When the DDNS setup is done, press < OK>.

Refer to <DDNS Setting>. (Page 63)

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 IP mode
- Internet connection : Static IP ADSL, leased line, and LAN environments allows connection between the DVR and remote user.
- DVR Network Settings : Set the <Connection Mode> in <Connection> menu of the connected DVR to <Static IP>.
 - Consult your network manager for IP, Gateway and Subnet Mask.



DDNS

DDNS Site

Host Name User Name

User Passw

OFF

Connection	Protocol
· Connection Mode	Static IP
Bandwidth	2Mbps
r	
• IP	192.168. 1.200
Gateway	192.168. 1. 1
Subnet Mask	255.255.255. 0
· DNS	Manual 🔽 168.126. 63. 1
	OK Cancel

- Dynamic IP (DHCP) mode
- Internet connection : Connect the DVR directly to a cable modern, DHCP ADSL modern or FTTH network.
- DVR Network Settings : Set the <**Connection Mode**> in <**Connection**> menu of the connected DVR to <**Dynamic IP**>.

• ADSL (PPPoE: ID and password certification)

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

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

onnection	Protocol
Connection Mode Bandwidth	ADSL Cookbps
· IP	192.168. 1.200
Gateway	192.168. 1. 1
Subnet Mask	255.255.255. 0
·DNS	Manual 168.126. 63. 1
· User ID	ID
Password	
	OK Cancel

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 ADSL/Cable modem or a router in a Local Area Network (LAN) environment.

• Setting the DVR Network

- 1. Set the <Connection Mode> in <Connection> menu of the connected DVR to <Static IP>.
- **2.** Check whether the set IP address is in the static IP range provided by the Broadband Router. IP, 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 ~ 192.168.0.99 and 192.168.0.201 ~ 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 : 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>.
- External Port Range : Enter the TCP Port set in the <Port(TCP)> in <Protocol> menu of the connected DVR. If more than one DVRs are connected to the router, the TCP port can be different.
- **3.** Internal PC IP Address : Enter the IP address set to the <IP> in <Connection> menu of the connected DVR.
- 4. Internal Port Range : Set the same to the "External Port Range".

Connection	Protocol
Protocol Type	TCP
Port(TCP)	554 - 558
Port(UDP)	8000 - 8160
· Unicast/Multicast	Unicast 🔽
Multicast IP	224.126. 63. 1
· TTL	5
· Webviewer Port	80
	OK Cancel

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 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 <Protocol> menu of the connected DVR to the following :

Ex) Protocol Type : TCP Port (TCP) : 0554, 0555, 0556, 0557, 0558 DDNS Site : Samsung DDNS

• DDNS Settings of the Router

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

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.

- In the <Network> setting window, press the up/down
 (▲▼) button to move to <Live Transfer> and press the
 [ENTER] button.
 The Live Transfer window appears.
- Use the direction buttons (▲ ▼ < ►) to move to a desired item and set the value.
- 3. When the live transfer is done, press <OK>.
 - The resolution for real-time (live) transfer will be set to CIF(S). (Page 54)

Dive Trans	fer
Resolution Quality	CIF(S)
	OK Cancel

Mailing Service

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

 \mathbb{Z}

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.

SMTP Setting

Sets the SMTP mail server.

Using the mouse may help make setup easier.

- In the <Network> setting window, press the up/down
 (▲▼) button to move to <Mailing Service> and press the
 [ENTER] button.
- 2. 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 : 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.
- User : 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 : Use the virtual keyboard to enter the sender's e-mail address.
 - Refer to "Using Virtual Keyboard". (Page 36)
- TEST : Conducts the test on the server settings.
- 4. When the SMTP setting is done, press < OK>.

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.

- In the <Network> setting window, press the up/down
 (▲▼) button to move to <Mailing Service> and press the
 [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.
- 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 setting is done, press <OK>.

SMTP	Event	Group		Recipient	
· ServerType	SMTP mail Server				
Server Port	25				
- 🗐 Use Auther	itication				
• User					
Password	*******				
· Secure Transfer	Never				
· Sender			ex. user@e	xample.net	
TEST					
	ОК	Cancel			

SMTP	Event	Group	Recipient
Event Interval	10 min 🔽		
- Use Event Transfe	ır		
Sensor	Motion		
Change P/W	I HDD I	nfo l	Video Loss
Power On/Off	Manua	I Record	
	ОК	Cancel	

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.

Mailing Service

Recipi

Sensor

Change P/W

Power On/Off

Group

Motion

HDD Info

Manual Reco

Add Delete Re

Video Loss

The recipient is set separately from the DVR user group.

Using the mouse may help make setup easier.

- In the <Network> setting window, press the up/down
 (▲▼) button to move to <Mailing Service> and press the
 [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 setting is done, press <OK>.

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.

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



 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 setting is done, press <OK>.



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 button on the remote control or the front panel Select the [PTZ] button on the remote control or the front panel.
- Using the launcher menu
 Click PTZ < 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 PTZ < prz > icon on the live screen.
 - The PTZ function is available only if the PTZ camera is connected so that the PTZ icon is displayed on the screen.





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.

1. Launch the <PTZ Control> menu.

As the PTZ < [JFTZ] > 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 direction keys in the launcher menu or use direction buttons (▲▼ ◀ ►) on the remote control or the front panel to move the target area to record.
- 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 : You can use the Zoom function of the PTZ camera.
- IRIS : Adjusts the intensity of radiation incoming to the iris.



- Focus : Enables you to adjust the focus manually.
- Auto Pan : The camera automatically runs between the two points that you selected.
- Scan : The camera moves to the preset points in the specified sequence. If multiple presets are specified, the PTZ camera will automatically move to all of the preset points one at a time.
- Pattern : Makes the PTZ camera remember and follow the past route.
 - The functions of Auto Pan, Scan and Pattern are supported in the protocols of Samsung, Panasonic and Pelco, and are different in terms of the name and setting, depending on the protocols of Samsung, Panasonic and Pelco. (Panasonic : Auto Pan, Sequence, Sort / Pelco : Auto Pan, Frame Scan(Scan), Pattern)



Before entering the PTZ device control mode, set the values of the PTZ device in the <Setting the PTZ> menu. (Page 45)

Preset Setting

A preset is a set of specific target points of a PTZ camera, and up to 20 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**>.

(B

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.

- 1. Connect the PTZ camera to the DVR and run the PTZ camera again to display the camera's protocol setting window.
- 2. Check the protocol ID of the camera.
 - In "Device > Setting the PTZ", enter the PTZ camera ID in the ID input box of the channel that is connected to the PTZ camera. (Page 45)
- **3.** 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, Pelco D/P, AD 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 or the front panel.



- 3. The Search menu appears.
 - If you have not checked "POS USE" in the "Main Menu > Device > POS Device" menu, the Search menu does not include the "POS Search" item. (Page 48)
- The search can be restricted by the Auto Delete function. Refer to "Setting the Recording > Record Option". (Page 54)
 - 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 or the buttons on the front panel.)

Itime Search	
2011-01-01	Go to First Go to Last
	Overlapped Data List1 V Zoom In Zoom Out
No. of Concession, Name	00:01 0 12 24
	Ali Data
4 18	CAM 01
	CAM 02
	CAM 03
2011/01/01 00:01:17	CAM 04
Standard Schedule	CAM 05
Motion Sensor	CAM 06
VLoss Etc	CAM 07
	Previous/Next Page
	Play Return

- Zoom In : The map enlarges in detail.
- It will switch in the sequence of 24 hours 16 hours 8 hour 4 hours.
- 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 hour - 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.
- 2. 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 58) 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 : Displays the recorded channel.
- Play Start Time : Select a time that you start playing.
- **3.** Select a data item and click <**Play**>. The screen switches to the backup data playback mode.

		USB:USB2FlashStorage	- T
No.	Folder Name	File Name	_
1	20110101	16190000	
		Previous/Next Pa	ge
File Name Record Per Play Start T		- Channel 1 01 - 2011-01-01 01:01:10 16:30:52	



O Time Search

V.Loss Etc

2011-01-01

ed Data List1 🔽 Zoom In

Previous/Next Page

00:01 🗘

CAM 02

CAM 04

CAM 07

All CAM 01

search & play

POS Search

You can search for data in the POS device that is connected to the DVR.

You can use the mouse to select the related items.

- 1. Select <POS Search> in the <Search> menu.
- 2. Use direction buttons (▲▼◀ ►) to set the search criteria and press the [ENTER] button.
 - You can enter specific text to refine your search.
- Keyword : Use the virtual keyboard to enter a keyword.
- Search Criteria :
 - <**Case Sensitive**>: If selected, search will be performed case-sensitively.
 - < Whole Word> : If selected, only the exact matches with the keyword will be found.
- Preview : Select a data item in the list to display the preview image. Information about the image will be displayed on the bottom of the screen.
- Image: You can use these buttons to accelerate your search if you have a huge list of search results.
- **3.** Select a data item and click <**Play**>. The screen switches to the POS data playback mode.

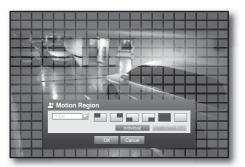
Motion Search

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 56)
 - 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.
- **3.** Select a data item and click <**Play**>. The screen switches to the motion data playback mode.





Date/Time 2011-01-01 0 Keyword	11:01:01		011-01-01 03:41:18 Case Sensitive	Search Whole Word
	POS	CH	Start Date/Time	Keyword
19111	1	1	2011-01-01 03:41:15	CHANGE _
	1	1	2011-01-01 03:41:15	CASH_
11111	1	1	2011-01-01 03:41:10	CASH_
2011/01/01 03:41:15				
CHANGE				
5.95				
			😽 🕨 Previ	ous/Next Page
	F	Play	Return	

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.

- 1. In Live mode, click < Play> in the right-click menu or < >> in the launcher menu, or press the Play button on the remote control or the front panel.
- **2.** Use the up/down button $(\blacktriangle \nabla)$ to select a menu.
 - For data search, refer to <Search>. (Page 68)
- 3. 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 < 6 > to set the current time to the start time of backup; you can specify a backup area using the mouse (yellow triangle).

Click < o > 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 58)
- Device : Select a backup device.
- Check Capacity : Enables you to check the capacity of the selected storage device.
- 4. 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 or the front panel.



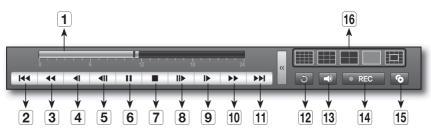
Spot Qu

Audio Of



search & play

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.
3	Backward Fast Play	Used for quick backward search while in Play.
4	Backward Slow Play	Used for backward frame-by-frame search while in PAUSE.
5	Step Backward	Moves backward by one frame at a time.
6	н	Pause
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. 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.
11	Skip Forward	Moves forward by unit time.
12	১	Return to the previous.
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 live video, archived video, PTZ control (if configured), etc.

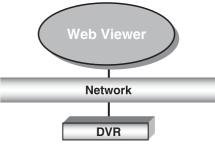
PRODUCT FEATURES

- Remote access from a standard browser
- Supports PTZ camera controls
- Supports 1, 4, 8, 16 camera viewing formats (maximum of 16 cameras in the list).
- Gets JPEG format images to print and save to "Print or Save JPEG format images".
- Record video in AVI format-compatible with popular media players. (needed the Xvid codec)

SYSTEM REQUIREMENTS

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

0\$	Windows XP Professional Windows 2000 Windows Vista Home Basic /Premium Windows 7		
Web Browser	Internet Explorer 6.0.2900.2180 or higher		
CPU	Intel Pentium 4.2 GHz		
Memory	512 MB		
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.		



$\gamma \sqrt{\rho}$

CONNECTING WEB VIEWER

1. Open your web browser and type the IP address or URL of DVR into the URL address box.



- The basic URL of the DVR is as following in case of MAC address :
 - 00-00-F0-ab-cd-ef : nabcdef.websamsung.net
 - 00-16-6c-ab-cd-ef : mabcdef.websamsung.net
 - 00-68-36-ab-cd-ef : pabcdef.websamsung.net
 - 00-09-18-ab-cd-ef : iabcdef.websamsung.net
 - You can also use registered URL which setups up in the Setup menu of your DVR.
- 2. Set the Admin ID and password same to those of the DVR Admin.

For general users, enter the DVR user ID and password.

- It allows up to 10 simultaneous access including the Admin (W and general users.
 - It does not allow multiple login of the Admin user.
 - Initial password of the Admin user is set to "4321".
 - 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 39)

veX cont

- All settings are applied by the DVR's settings.
- 3. Click < Install ActiveX Control...>.

<Unblock> to start Web Viewer.

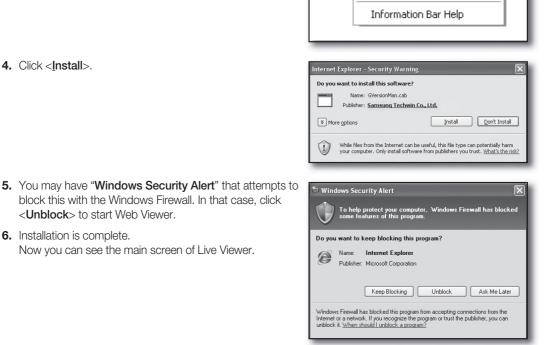
6. Installation is complete.

Downloading Active-X control may take several minutes according to the security settings on your PC.

block this with the Windows Firewall. In that case, click

Now you can see the main screen of Live Viewer.

4. Click < Install>.





Login	
• ID	admin
 Password 	••••
	ок
_	

Install ActiveX Control...

What's the Risk?

am•

USING LIVE VIEWER



The Live Viewer screen consists of following :

- (1) This displays the IP address and the model name of the connected DVR.
- (2) These menus consist of <LIVE>, <SEARCH>, <SETUP>, <ABOUT>.
- (3) These buttons are used for the screen split and full screen mode.
- (4) Shows the IP address and model name of the connected DVR.
- 5 Select <DVR Time> or <PC Time> for the OSD time information display setting of the Live Viewer.
- (6) These buttons are used for sequence and changing the screen channel.
- (7) These buttons are used for capture, print, and save the image.
- (8) Shows the channel of the connected DVR.
- (9) These buttons are used for PTZ related functions.
- 10 This displays the screen for connected camera with DVR.
- \mathbb{Z}
- The resolution is set to 1024X768 pixels.
- The initial split-screen mode is set according to the number of channels connected to DVR. You can change the split-screen mode by clicking buttons for split-screen modes.

OSD INFORMATION DISPLAY

- (1) The channel number, video size, and IP address of the connected DVR are displayed.
- (2) The current date and time will be displayed according to the selected time information display setting <DVR Time> or <PC Time>.
- (3) Alarm icon appears when alarm is issued. It disappears when pressed the [ALARM] button of the DVR.
- (4) Motion icon appears when motion is detected. It disappears when pressed the [ALARM] button of the DVR.
- (5) It displays whether the PTZ controls are active.



1

If you have set PTZ cameras for the DVR, "PTZ" is displayed on the screen. Select a PTZ camera channel and use the [PTZ] button for camera control.

SPLIT-SCREEN

You can change the split mode by clicking each number icon.









SINGLE MODE

QUAD MODE

NINE MODE

SIXTEEN MODE

Click <1>> button.

The screen displays the selected camera connected to the DVR in "SINGLE MODE".

• Click < < > button.

The screen displays the selected camera connected to the DVR in "QUAD MODE".

• Click <9> button.

The screen displays the selected camera connected to the DVR in "NINE MODE".

• Click <16> button.

The screen displays the selected camera connected to the DVR in "SIXTEEN MODE".

• Click < > button.

The screen displays the selected camera connected to the DVR in **"FULL SCREEN MODE**".

Double clicking on the screen or pressing any button of the keyboard returns to the previous mode.

1 4 9 16 +				
DVR Time OPC Time				
SEQUENCE PREVIOUS NEXT				
CAPTURE PRINT RECORD				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16				
Image: Second				
MENU				
AUTOPAN PRESET				
PATTERN SCAN				
SAMSUNG				

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.



- 16-split mode does not support "SEQUENCE", "PREVIOUS" and "NEXT".
- **SEQUENCE** : 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 $(1\sim9)$ to 7 channels $(10\sim16)$.

- In SIXTEEN MODE, the screen refreshes at the preset interval.
- Preset interval (10 seconds)
- PREVIOUS : 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).

In SIXTEEN MODE, the screen is refreshed.

1 4 192.168.1.200						
C						
CAPTURE	PRINT	R	ECO	RD		
1 2 3 4 9 10 11 12		6 14	7 15	8 16		
	Image: state					
MENU						
AUTOPAN		PRE	SET			
PATTERN		SC	AN			
SA	SAMSUNG					

1 4 9 16 🕀
192.168.1.200 / SRD-1652D
DYR Time PC Time
CAPTURE PRINT RECORD
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Image: style="text-align: center;">ZOOM Image: style="text-align: center;">Image: style="text-align: center;"/>Image: style="text-align: cente
MENU
AUTOPAN PRESET
PATTERN SCAN
SAMSUNG

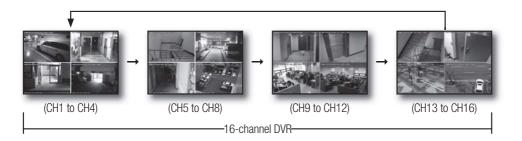
• **NEXT** : When this button is clicked, the next screen appears.

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 $(1 \sim 9)$ to 7 channels $(10 \sim 16)$. In SIXTEEN MODE, the screen is refreshed.

If 16-channel DVR is connected, clicking "NEXT" in QUAD MODE is to change the screen as shown in the picture.



SAVING THE LIVE SCREEN ON THE PC

- **CAPTURE** : Saves the current screen into a BMP or JPEG file.
 - The default saving path is "C:\Program Files\Samsung\Dvr Web Viewer\SnapShot\Live". To change the saving path, click <SAVE PATH (____)> button and then select the path you want. For Windows Vista or 7, the saving path is "C:\ users\(user ID)\AppData\LocalLow\Samsung\DVR Web Viewer\Snapshot\" by default, which cannot be modified.

CAPTURE	×		
SAVE PATH: FILE NAME:	C:\Program Files\Samsung\Dvr Web Viewer\Sr 192.168.1.200_554_20110101_134132_01_00		
FILE TYPE:	• BMP C JPEG		
	OK Cancel		

- The file is automatically named as following : "IP address_Port number_YYYYMMDD_camera number_index" Ex) 192.168.1.200_554_20110101_134132_01_00
- **PRINT** : Prints out the selected screen out of the currently displayed live screens. It also prints the IP address, time, camera number and the current event status together.

Print	<u>? ×</u>
Printer	
Name: HP LaserJet 6P	Properties
Status: Ready	
Type: HP LaserJet 6P	
Where: LPT1:	
Comment:	
Print range	Copies
• <u>A</u> I	Number of <u>c</u> opies: 1
O Pages from: to:	
C Selection	123 123 🗹 Collate
	OK Cancel

111

English _79

- **RECORD** : Saves the current image on the screen and saves it as a avi video file.
- To record it, it is required at least 1GB of available space.
 - The default saving path is "C:\Program Files\Samsung\Dvr Web Viewer\VideoClip\Live". To change the saving path, click <SAVE PATH (....)> button and then select the path you want. For Windows Vista or 7, the saving path is "C:\ users\(user ID)\AppData\Local-Low\Samsung\DVR Web Viewer\VideoClip\" and it cannot be modified.
 - The file is automatically named as following : "IP address_Port number_YYYYMMDD_camera number_index" Ex) 192.168.1.200_554_20110101_135105_01_00
 - For AVI Save, you need the Xvid codec for playing saved files.
 - HDD Minimum Free Size : During the recording, if there is no more capacity available in the HDD than set free space will prompt with a popup message : "Cannot record due to insufficient disc space in the HDD".

1 2 3 4

9 10 11 12

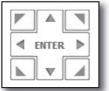
CHANGING THE LIVE SCREEN CHANNEL

- Blue numbers : The channel connected to the current live screen
- Gray numbers : The channel not connected to the current live screen

	(1	4		9	16
	19	2.168	.1.20	10 /	SRD-	1652
		0	DVR 1	Fime	() PC
0	SE	QUEN	CE	PREV	IOUS	
1				DP	INT	
0	C/	APTUR	SE	PR		
	C/	артия 2	3	4	5	6



USING PTZ CAMERA



• < (+) ZOOM (-)>

You can zoom in or out an image by using the ZOOM button.

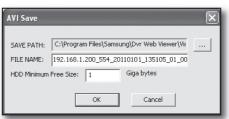
• <) IRIS

You can adjust the entering light amount by using the IRIS button.

• < 🙆 FOCUS 🙆 >

You can adjust the focus by using the FOCUS button.

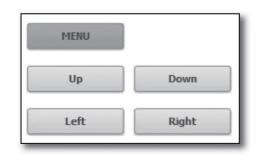




5 6 7 8

13 14 15 16

• MENU : Appears the camera menu screen.



- **PRESET** : Moves the lens direction to a preset direction.
- 1. If you click a preset, the camera moves to the selected preset's position.
- 2. You can delete the selected preset or all presets.
- 3. You can save a new preset number and name.



You can save presets up to 20.

- AUTOPAN : Moves the camera lens direction between 2 points set for the camera.
- **SCAN** : Moves the camera lens direction between 2 preset points of the camera.
- **PATTERN** : You can set camera various movement patterns such as zoom, move, etc. so that a camera automatically moves according to the pattern.
- Ø

 While the DVR controls a PTZ camera, Web Viewer cannot control the camera.

- Camera menu setup is only available for camera supporting the function.
- Each function of PTZ is same to that of the DVR.
- Pan/Tilt of the Smart dome camera is manipulated automatically to center the camera to the mouse clicked point.
- If you drag the mouse using the left button on a certain point, Pan/Tilt of the Smart dome camera is manipulated automatically to center the camera to the middle point between the dragging start and end position. Upward dragging will zoom out, while downward dragging will zoom in.
- Tilt of Power PTZ operates properly within 45°.
- Power and Pan Tilt functions are only available for camera supporting the functions. Ex : Samsung SCC-C6475

USING SEARCH VIEWER



The Search Viewer screen consists of following :

- (1) This displays the IP address and the model name of the connected DVR.
- (2) These menus consist of <LIVE>, <SEARCH>, <SETUP>, <ABOUT>.
- (3) These buttons are used for the screen split and full screen mode.
- (4) Shows the IP address and model name of the connected DVR.
- (5) These buttons are used for capture, print, and save the image.
- (6) This displays a calendar at which you can search the recorded video.
- (7) This displays a timeline at which you can search the recorded video by the time.
- (8) These buttons are used for controlling playback.
- (9) This displays the screen for playback of recorded video.

SEQUENCE>, <PREVIOUS>, <NEXT> buttons are not available in SEARCH menu.

SPLIT-SCREEN

You can change the split mode by clicking each number icon.





SINGLE MODE

QUAD MODE

- Click <(1)> button. The screen displays the selected camera connected to the DVR in "SINGLE MODE".
- Click <
 > button. The screen displays the selected camera connected to the DVR in "QUAD MODE".
- Ø

• Only SINGLE and QUAD MODE are available in SEARCH menu.

If 16 channel DVR is connected, you can select a mode from SINGLE to SIXTEEN MODE.

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 connection is limited to 3.

1 4 9 6 0 10 10 10 10 10 10 10 10 10 10 10 10 1				
SEQUENCE PREVIOUS NEXT				
CAPTURE PRINT RECORD				
2	011 🔅	02		•
S M 6 7 13 14 20 21 27 28	1 8 15 1 22 2	V T 2 3 9 10 6 17 3 24	F 4 11 18 25	S 12 19 26
	10	oay		
■ 0 CH01 CH02 CH03 CH03 CH04	0	12 😑	:23	24 🕨
	•	•		••
4	(I	•	M
	SNM	SUNG		



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SAVING THE LIVE SCREEN ON THE PC

- **CAPTURE** : Saves the current screen into a BMP or JPEG file.
- The default saving path is "C:\Program Files\Samsung\Dvr Web Viewer\SnapShot\Search". To change the saving path, click <SAVE PATH (____)> button and then select the path you want. For Windows Vista or 7, the saving path is "C:\ users\(user ID)\AppData\LocalLow\Samsung\DVR Web Viewer\Snapshot\"and it cannot be modified.

CAPTURE		×
SAVE PATH:	C:\Program Files\Samsung\Dvr Web Viewer\Sr	
FILE NAME:	192.168.1.200_554_20110101_134132_01_00	
FILE TYPE:	● BMP C JPEG	
	OK Cancel	

- The file is automatically named as following : "IP address_Port number_YYYYMMDD_camera number_index" Ex) 192.168.1.200_554_20110101_134132_01_00
- **PRINT** : Print out the current screen. It also prints IP address, time, camera number and current event state.

int	<u>? ×</u>
Printer	
Name: HP LaserJet 6P	Properties
Status: Ready	
Type: HP LaserJet 6P	
Where: LPT1:	
Comment:	
Print range	Copies
	Number of <u>c</u> opies: 1
O Pages from: to:	
C Selection	123 123 🔽 Collate
	OK Cancel

• **RECORD** : While in playback, press this button saves the video data of the selected channel as an AVI file. (It is saved in the designated folder on your PC.)

To stop recording, click this button again.

(1/

- To record it, it is required at least 1GB of available space.
- The default saving path is "C:\Program Files\Samsung\Dvr Web Viewer\VideoClip\Search". To change the saving path, click <SAVE PATH (____)> button and then select the path you want. For Windows Vista or 7, the saving path is "C:\users\(user ID)\AppData\LocalLow\Samsung\DVR Web Viewer\VideoClip\" and it cannot be modified.
- The file is automatically named as following : "IP address_Port number_YYYYMMDD_camera number_index" Ex) 192.168.1.200_554_20110101_135105_01_00
- For AVI save, you need the Xvid codec for playing saved files.

AVI Save	X
SAVE PATH: FILE NAME:	C:\Program Files\Samsung\Dvr Web Viewer\Vic
HDD Minimum	
	OK Cancel

WEB VIEWER

SEARCHING THE RECORDED VIDEO IN THE CALENDAR

If the video data has been recorded on a date, the date is distinguished in green. If you click the date, the recorded video information is displayed in the time line. When you click <**Today**>, it will be synchronized with the system time (date) of the current PC.



SEARCHING THE RECORDED VIDEO IN THE TIMELINE

It displays the recorded video data status on the DVR after a date is selected. The normal mode displays the time ranging from 0 to 24 Hours while the extension mode displays the time every 2 hours.

[Normal Mode]

- If you click <)> button, it changes to the extension mode.
- Each time line represents 1 hour.

[Extension Mode]

- If you click <>> button, it changes to the normal mode.
- Each time line represents 5 minutes.

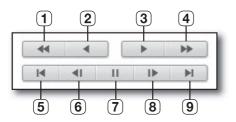
The channels are ranging from CH01 to CH16.

₫ 0	© 12 🔍	24 🕨
CH01		A
CH02	11-50-00	
CHO3	11:30:23	1.00
CHO4		V

11	0 12 0	13 Þ
CH01		A
CH02	11.50.02	
CH03	11:30:23	
CH04		V



CONTROLLING PLAYBACK



- (1) Fast Backward : Reverse-plays faster(2x).
- (2) Reverse Play : Performs Reverse Play.
- (3) Play : Performs playback.
- (4) Fast Forward : Plays faster(2x).
- (5) Go to First : Moves the beginning time of recorded video in the time line.
- 6 Step Backward : Performs one step reverseplay by one frame.
- 7 Pause : Stops the playback temporarily.
- 8 Step Forward : Performs one step forward by one frame.
- (9) Go to Last : Moves the last time of recorded video in the time line.



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 34)

- 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.

black / Tune / Language black / Tune / Language black / Tune / Language black / Tune / Year Norm Gey black / Tune /	System	Device	Record	Event	Network
Line Date Year Monty Subday 2011;5:22 2011;0:0 2010;0:0 2010;0:0 Promission Two None 2010;0:0 2010;0:0 2010;0:0 Paragori Trans Spring Trans Spring Date Spring Spring Spring Paragori Trans Spring County W Monty Paragori Date Format VYYY**********************************	Date/Time/ Language	Date/Time/Lan	guage		
Modely 2011-5-22 S011-6 D2/m 22/m Permission The Hor Min 89 Namage 12 2015 S2/m 65/m 80/m Namage The Synch Min 89 Namage The Synch Min 89 The Synch Min Min 89 The Synch Min Min 89 The Synch Min Min 80 The Synch Min Min 80 Defe Final YYYY-HAM-S0 Min Min Cafe Final 24 Hours Min 10	Date/Time	Date /Time			3
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4

(9) 192.168.1.200 / SRD-1652D

PRINT

-2011

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2 3 10 4 5 12

16 23 17 24 18 25 26

Today

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CAPTURE

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6 13 20 7 8

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CH01 CH02

СНОЗ

CH04

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14 21 28 15

22

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• Time Synchronization Setup

Set the time synchronization.



System	Device	Record	Event	= Network
Date/Time/*	2011-2-22 Time	Hour	Me sec	
Date/Time Language	12.11.20 Time Sync.	12 ~	11 × 07 × P	M (46)
Holiday	Time Zone	GMT 🖉		
Permission Banage	Time Sync. Display	Setup	NOL UAMI	-
	Date Format	YYYY-MM-D0	and provide the	
System Hanage	Time	24 Hours	*	
	DST			
	Start		w Sun ~ 24 s	
	Language	Dec Se Pirst	9 Sun 9 24	-
	Language	English		
		100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	Ap	by Cancel
			Ар	py Canon

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.

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.

System	Device	Record	Event	Hetwork
Date/Time/	Admin			
Permission R Manage	Admin	admin		
Admin	Passwort			
Group	Cunfirm NW			
User				
Setup				
System Hanage				
			E	loply Cancel

WEB VIEWER

Apply Cancel

• Group

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

First of all, add a group.



User

• User

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



You can set the user permission.

System	Device	Record	Event	= Network
Date/Time/	Setup			
Permission A Manage) Bachop) Remote Alarm Out	Record Lack	Search Al
Admin	Restriction on Networ			LT AL
Group	Al Network		Web Viewer	
User	Auto Log Inf	OFF 💌		
Setup	Manual Input of Ø	O ON		
System Hanage				
				pply Cancel
			1.0	101

System Management

For more information, refer to <System Management> in the <System Setup> menu. (Page 40)

System Information

You can see information of the current system. Check the software version, broadcast format and MAC address.

System	Device	Record	Event	Network			
Date/Time/ *	System Info	rmation					
Permission		System In	breation				
Manage	Software Version	8	v0.50h_110214181	514			
System	Broadcast Format	6	NTSC.				
Hanage	MAC Address		00.09.18.01.C5.7A				

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 44)

Camera

Camera

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

Cantera	T	Cam	era				
Camera	Video		Audio	LANDAR CO.	SEQ-Dwell Time	Progressive	
PTZ	CH	Sel All		Sel All 🖌	Cit Name	Set All	Sel All 💌
Storage	1	ON .		OFF 💌	CAM 01	5 500 M	OFF 💌
	2	QN		OFF V	CAN 02	5 sec 💌	OFF V
Remote Device	32	ON .	1	OFF 👻	CAM 03	5 sec 💌	OFF 😽
POS Device	4	ON.	٧	OFF 💌	CAM 04	5 sec 💌	OFF 💌
Contraction of the second	5	ON .	-		CAM 05	Stec 🛩	OFF V
Monitor	6	QN	*		GAM 06	5 sec 💌	OFF M
	7	ON	×		CAN 07	5 sec M	OFF M
	6						>

• PTZ

You can configure the settings of the PTZ camera that is connected to the DVR. Set the ID and protocol.

Camera	PTZ					1
Camera			125	Protoco		1
PTZ	CH		D	Set All	1	
Storage	100	0	2	SAMSUNG	EW	
Device	2	1	14	SAMSUNG	E P	
Remote	3	2	~	SAMSUNG	-E 🖌	
Device	4	3	~	SAMSUNG	-E 💌	
PDS Device	5	4		SAMSUNG	-E 💌	
Monitor	6	5	1	SAMSUNG	E 🕶	
- TIONITON	2	6		SAMSUNG	-E 👽	
	0.0	7	*	SAMSUNG	-E 💌	
	9	8	191	SAMSUNG	-E M	
	Line Martin		(M)	App		-11

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.

System	Device				nt Networ
Camera	De De	vice			100
Storage Device	Device	ALC:	Used/Total	Usage	StatusManagement
	HOD	4	123.66K/499.37G	internal	Normal
Device	CO/D/VD	+ 5	0.0	Beckup	Normal
Remate Device					
Device					
Device PDS Device					
Device PDS Device					
Device PDS Device					
Device PDS Device					

WEB VIEWER

• 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.



POS Device

You can set the channel, preset and communication port of the POS device that is connected to the DVR.



You cannot set to use the POS device remotely.

System	10000	Device	Record Eve	nt Network	
Camera		POS Device			1
Storage Device	POS	USE			
DEFICE	POS	CH	Preset	Port/Ethernet	
Bemute	. 1	None	No preset	None	1
Device	2	None	No preset	None	1
POS Device	3	None	No preset	Note	
Monitor	4	None	No preset	None	1
Pionitos	8	None	No preset	Note	
	0.	None	No preset	None	
	7	None	No preset	None	Т
	- B)	None .	No preset	None	
	9	None	No preset	None	
	10	None	No preset	None	16
	805	Device Setup		Apply Cancel	1

Monitor

Monitor

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

Camera	Monitor		283
Storage Device	Event Display	OFF M	
Remote	Ossptary	Date	
Device		Time	
05 Device		CH Name	
-		loon	
Monitor	MUE CHIDEQ Time	5 sec 💌	
Monitor	VDA	000-500	
Spot Out	Sharpress	Level1 (Low)	
Hode	Print In said	ESTRICTION OF	



Spot Out

If an event occurs such as sensor, motion or alarm from the Spot Out port in connection with a monitor, you can select a output screen mode.



• Mode

You can switch between live mode and play mode.

	Record	Event	Network
Mode			
Une Screen			
		Industrial and Industrial and Industrial Ind	
Rey Screen			
the state of the s			
		4	Cancel
	Une Screen	All Screen	

Record

For more information, refer to <Setting the Recording>. (Page 52)

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 confirmation window.

Recording Schedule	Rec	ording So	chedule			
Event	CH 1 💌					
Buration						
REC Quality	Sun)	Apply to	AB CH			
Resolution	Non 3 Tue 3					
Record	West)	 Apply recording schedule to all channels? 				
Option	Dut					
	103		OK	Cancel		
	(ist)	TITLE I	Test in the local dist			
	Hat y					
	No Recor	rding Col	tinuous Even	t Both(Cont&Evnt)		
	Apply bri	ALCI			asty Carcel 1	

Event Record Duration

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

Lvent Crit Set All w Set All w Crit Set All w Set All w Becard 1 0/FF w 1 min w s s s s s s s s s s s s s s s s s <th></th> <th></th> <th>Device</th> <th></th> <th>Reco</th> <th>ord</th> <th></th> <th>Event</th> <th></th> <th>Net</th> <th>NO1</th>			Device		Reco	ord		Event		Net	NO1
Lvent Crit Set All w Set All w Crit Set All w Set All w Becard 1 0/FF w 1 min w s s s s s s s s s s s s s s s s s <th></th> <th></th> <th>Event</th> <th>Reco</th> <th>rd Durat</th> <th>tion</th> <th></th> <th></th> <th></th> <th></th> <th></th>			Event	Reco	rd Durat	tion					
BEC Quality 2 OFF M 1 min M 10 OFF M 1 min Resolution 3 OFF M 1 min M 11 OFF M 1 min Record 4 OFF M 1 min M 12 OFF M 1 min	ord	СН					Сн			POST E	
Resolution 3 OFF W 1 min W 11 OFF W 1 min Record 4 OFF W 1 min W 12 OFF W 1 min	tion		OFF	9	1 min	M		OFF		1 min	×
Record 4 OFF W 1 min W 12 OFF W 1 min	uality.	2.1	OFF	*	1 min	M	:10	OFF	×	1 min	M
Record	ution	3	OFF	*	1 min	(M)		OFF	×	1 min	~
			OFF	~	1 min	¥	- 42	OFF	¥	1 min	v
Option 5 OFF w I min w 13 OFF w I min		5	017	*	1 min	8	-33	OFF	*	1 min	M
E OFF W 1 min W 14 OFF W 1 min	_	6	OFF	M	1 min	M	14	OFF	v	1 min	
7 OFF V 1 min V is OFF V 1 min		7	OFF	Y	1 min	M	15	OFF	×	1 min	M
E OFF V I min V II OFF V I min		÷.	OFF.	4	1 min	M	-11	OFF	v.	1 min	~

REC Quality & Resolution

Standard/Event

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

Recording	6000	Standard			
Event	Renaiting		2CF(M)	0 CF(S) 0	_
Record Duration	CH	Resolution Set All	Record Rate Sol All M	Record Guality Sel All	i i
REC Quality	1	CIF(S) 😽	7,5 ips 💓	Level4	×
Resolution	2	CIF(S) 💌	7,5 ips .	Leveld	v
Standard	3	CIF(S) 🐱	7,5 ips 💌	Level4	×
Event	4	CIF(S) 💌	7.5 ips 🖌	Level4	
CONTRACTOR OF THE OWNER	. 5	CIF(S) 🖌	7.5 lps 😽	Level4	4
Option	16	CIF(S) 🛩	7,5 ips 💌	Level4	¥
	7	CIF(S) v	7.5 ips 💌	Level4	v
		CIF(S) 🐱	7,5 ips 🖌	Level4	*

Record Option

You can set the Disk End Mode.



Event

For more information, refer to <Setting the Event>. (Page 55)

Sensor Detection

You can set the sensor operation mode and the synchronized camera as well as the alarm output type and the duration.

Sensor Detection		Sensor De	tectio	n			
Motion Detection	Sensor	Secol	eration 🛩	Can	Alarn	Durate Sel All	n (*
Video Loss	1	OFF	*	1	None	10 sec.	1
Detection	2	OFF	¥	2	None	10 sec	
Alarm	3.	OFF	M	3	None	10 sec	
Schedule	345	OFF		4	Nose	10 sec	10
	- t	OFF	~	5	None	10 sec	2
	6.	OFF		6	None	10 sec.	-
	Ť.	OFF		7.	None	10 sac	
		OFF:	×	0	None	10.sec .	100

English _91

web viewer

Motion Detection

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

Sensor Detection	-	Motion	Dete	action					ľ
Motion	OI	Mode Set All	~	Sensitivity Set All	101	Alarm	Atarm Dur	1000	I
Detection	1	OFF:	M I	Level10(High)	2 2	None	10 sec	8	ł
Video Loss Detection	2	OFF.	~	Level10(High)	~	None	10 sec	4	
	3	OFF	*	Level10(High)	*	None	10 sec	¥	
Alarm Schedule	-4	OFF	4	Level10(High)	v	None	10 sec	¥	
	15	OFF	*	Lavei10(High)	٧	None	10 sec	×	1
	6	OFF.	~	Level10(High)	٧	None	10 sec	M	l
	17	OFF	×	Level10(High)	v	None	10 sec	×	
		OFF	4	Level10(High)	v	None	10 sec	4	1
	3							>	

Motion Region

Set the target motion detection area

System	Device	Record	Event	Network	
Sensor Detection	Motion Re	gion			1
Motion Detection	1 СН 💌 🔜	Sence	Inverse	Apply to All CH	
Video Loss Detection					
Alarm Schedule					
					1
					6
				Apply Exit	

Video Loss Detection

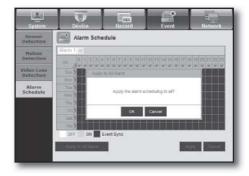
You can set the alarm output time if a video loss occurs.

Detection	V	lideo Loss I	Detect	ion		
Motion	СН	VideoLass Sel All	State	Alarm	Alarm Dur Set All	ation V
		OFF	~	None	10 sac	
Video Loss Detection	20	OFF	M	tione	10 sec	35
Alarm	3.	OFF		None	10 зес	14
Schedule	4	OFF	*	None	10 sec	196
	5	OFF	1	None	10 sec	1
	6	OFF	~	14000	10 sec	34
	7	OFF	~	None	10 зес	w.
	8	OFF.	1	None	10 sec	14
	9	OFF	×	None	10 sec	140

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.



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Network

For more information, refer to <Network Configuration>. (Page 59)

Connection

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

Connection

Protocol

You can set the network connection route.

You can configure the protocol related settings.



Mode	Protocol	
Connection	Protocol Type	TCP 💌
Protocol	Port(TCP)	554 🔹 - 558 🔹
DDNS	Port(UDP)	8000-8160
Live	UnicestMuticest	Unicast
Transfer	Nuticest P	224.126.63.1
Mailing	771.	5
	Webviewer Post	80

DDNS

You can check the DDNS settings.



Live Transfer

A remote user can set the images of the DVR.

• Live Transfer

The image resolution for the data received by the remote user will be fixed to CIF.



Mailing Service

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

• SMTP

Event

server sends mails for.

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

You can set the event interval and specify which events the

Mode	SMTP			
DONS	50777			
Live	ServerType	SMTP mail Ser	wer	
Transfer	Server			
Mailing	Pert	25	*	
Service	Use Authentication			
SHTP				
Event	Personnel			
Group				
Recipient	Secure Transler	Never	M	
	Sender		ex user	Qexample.net
			As	ply Cancel

2

• 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.



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ABOUT

Click < ABOUT>.

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

🥭 Web Viewer for Samsung DVR – Windows Intern,,, 💷 🗷
🔊 http://192,168,1,200/cgi-bin/webviewer?action=about&port=55
SAMSUNG WEB VIEWER
for
SRD-1652D
Web Viewer Version: 1.0 Create Date: 2011. 2. 14
Copyright Samsung Techwin Co.Ltd.,2008

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 confi gured) in real time.

Key Features

- Remote access via Smart phone
- Voice Recognition
- 1-split and 4-split modes supported in Live Viewer (However, search is not available).
- 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



backup viewer

SEC BACKUP VIEWER

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

Backup in the format of SEC will involve in generating two files: one for the backup data and one for the viewer. 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
- CPU : Intel Core2-Duo 2.4GHz or higher
- RAM : DDR PC-3200 1G or more
- VGA : Geforce 6200 or higher

Name			Description
1	Audio	■ / <i>■</i>	A toggle button. Each time you press this button, the audio output will toggle between activated and deactivated.
	Audio		You can adjust the volume level from 0 to 100.
	Screen Printout		Saves the current screen as an image file. Supported file formats include BMP and JPEG.
2	ocreation		Prints out the current screen. You should have installed the appropriate printer driver before you can print out the screen.
3	File Tamper Detection		A toggle button. Each time you press this button, it will toggle between activated and deactivated. The closed lock icon indicates activation of the file tamper detection, which will blink the screen three times and stop playing if an unauthorized manipulation of a data file is detected. A message of "The file is forged" will display in the menu bar.
4	Dein	terlace	You can enable the De-interlace function.
	Zoom In/Out		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.
5			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.
6	Display of storage 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.
	Speed	.ili€	A toggle button; each time you press this button, the "Slow Playback " icon changes its color to display it's activated/deactivated. If it is activated, you can use the play speed control to adjust the play speed up to x1/16 forward and backward respectively, whereas if deactivated, you can adjust up to x16 forward and backward.
7		R	A toggle button; each time you press this button, the "Lock Speed" icon changes its color to display it's activated/deactivated. If activated, the adjusted speed will be kept even if you release the mouse on the speed bar. If deactivated, the adjusted speed will be applied only while you use the mouse to hold the adjusted speed, and if you release the mouse, the speed will restore to x1.
		000000cc.[J.2200000	You can adjust the play speed up to x16 forward and backward respectively, which varies according to the frame rate per second of the source. Fast playback maximum is limited to x2 for footages recorded at 20 \sim 30 ips (frames per second), x4 for 11 \sim 19 ips, x8 for 6 \sim 10 ips, and x16 for footages recorded at slower than 6 ips.
	Play	۲	Displays the next frame. This is available only if the playback is stopped.
8		۲	A toggle button. Press it once to start playing the video and switch the button mode to 'Pause', and press it again to switch the button mode to Play and stop playing temporarily.
		Ø	Displays the previous frame. This is available only if the playback is stopped.

appendix

PRODUCT SPECIFICATION

		Details		
Item		SRD-1652D	SRD-852D	
Vide -	Inputs	16 composite video 0.5–1 Vpp	8 composite video 0.5–1 Vpp	
Video	Resolution	704x480 NTSC, 704x576 PAL		
	Frame rate	480ips NTSC, 400ips PAL	240ips NTSC, 200ips PAL	
Live	Resolution	704x480 NTSC, 704x576 PAL		
	Multi Screen display	1/4/6/8/9/13/16/PIP	1/4/6/8/9/13/PIP	
Performance				
OS	Embedded	Linux		
	Compression	H.264		
	Record Rate	NTSC : Up to 120ips @ 704x480 PAL : Up to 100ips @ 704x576	NTSC : Up to 60ips@ 704x480 PAL : Up to 50ips@ 704x576	
		NTSC : Up to 240ips @ 704x240 PAL : Up to 200ips @ 704x288	NTSC : Up to 120ips @ 704x240 PAL : Up to 100ips @ 704x288	
		NTSC : Up to 480ips @ 352x240 PAL : Up to 400ips @ 352x288	NTSC : Up to 240ips @ 352x240 PAL : Up to 200ips @ 352x288	
Recording		NTSC : - Manual - Schedule (Continuous/Event) - Event(Pre/Post) - Time lapse (0.9/1.9/3.8/7.5/15/30 ips)		
	Mode	PAL : - Manual - Schedule (Continuous/Event) - Event(Pre/Post) - Time lapse (0.8/1.6/3.1/6.2/12.5/25 ips)		
	Overwrite modes	Continuous		
	Pre-alarm	Up to 5sec		
	Post-Alarm	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, Pos, Motion	(%All Search Included Preview Function)	
Search &Playback	Playback function	Fast Forward / Backward Slow Forward / Backward Step Forward / Backward		

Item		Details				
		SRD-1652D	SRD-852D			
	Transmission speed	Up to (8)Mbps, Unlimited(8M)/2/1.5/1Mbps/800/600/500/400/300/200/100/ 50kbps				
	Bandwidth control	Selectable				
	Stream	H.264(Max CIF 120ips)				
Network	Remote users Maximum	Search(3) / Live Unicast(10) / Live Multicast(20)				
	Protocol support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP	P, DDNS, RTP, RTSP			
	Monitoring	Net-i Viewer, Smart viewer, Webviewer, Smart Phone Viewer				
	Internal HDD	Up to 4 SATA HDDs				
	External HDD	-				
Storage	DVD Writer (Back-up)	YES				
	USB (Back-up)	USB 2.0, 2 ports(Front)				
	File Format (Back-up)	AVI, BU (DVR Play back), EXE (Include Player)				
Security	Password Protection	1Admin, 10 Group , 10 User per 1 Group, User can be assigned authority for function				
coounty	Data Authentication	Watermark				
Interface						
	Smart Phone	Android, i-Phone				
	Protocol support	RTSP/RTP(UDP), CGI, HTTP				
Smart phone		Wi-Fi : CIF Max 4ips(Single Channel) / CIF	- Max 4ips(Quad Channel)			
	Transmission speed	3G : CIF Max 4ips(Single Channel) / CIF Max 4ips(Quad Channel)				
	Remote users Maximum	Live(1)				
	VGA	Analog RGB 800x600, 1024x768, 1280	x1024 resolution			
	HDMI	-				
Monitors	Main Composite	BNC, 1 Vp-p, 75 ohm				
	Spot Composite	Analog Spot (1) (Single Channel, No OSD))			
	Loop Outputs	-				

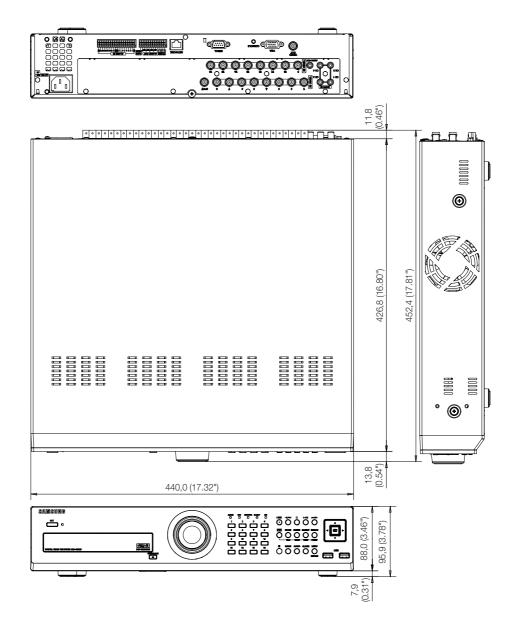
appendix

Item		Details		
		SRD-1652D	SRD-852D	
	Inputs / Output	4 line in (Built in 4CH, RCA) / 1 line out (RCA)		
Audio	Compression	ADPCM		
	Sampling rate	16KHz		
Alarm	Inputs / Outputs	Terminal 16(8) inputs (NO/NC), Terminal 1 inputs (Alarm Reset), Terminal 4 relay outputs (NO/NC), Rating : 24V DC/1A, 125V AC / 0.5A		
	Remote notification	Notification via e-mail		
	Ethernet	1 RJ45 10/100 Base-T		
	Serial interface	RS-232/RS-485 for PTZ, System Keyboard		
	USB	USB 2.0, 2 ports(Front)		
Connections	e-SATA	-		
	Application Supoort	Mouse, Remote Controller		
	PTZ Protocol support	Samsung-E/ Samsung-T/ Pelco-D/ Pelco-P / Panasonic/ Phillips/ AD/ DIAMOND/ ERNA/ GE/ VCL TP/VICON		
General				
Flashing	Input Voltage /Current	100 to 240 VAC $\pm 10\%$; 50/60 Hz, Autoranging		
Electrical	Power consumption	Max. 55 W (with 1x HDD)		
Environmental	Operating Temperature / Humidity	+0°C to +40°C (+32°F to +104°F)/20%	GRH to 85%RH	
	Dimension (W x H x D)	440 x 88 x 426.8 mm (17.32 x 3.46 x 1	6.80 inch)	
Mechanical	Weight (With hard disks)	Approx. 7.5 kg		
	Rack mount kit	2 EA		
Lauguage		Korean, Japanese, Chinese, English, Frei Polish, Czech, Turkish, Netherlands, Port Rumania, Serbia, Croatia, Hungary, Gree	uguese,Swedish,Danish, Thailandais,	

PRODUCT OVERVIEW

• SRD-1652D

unit : mm (inches)



appendix

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-1652D

Category	Details			Factory Default
			Date	YYYY-MM-DD
			Time Format	24 hours
	Data/Time/Language	Data /Time /Language	Time Zone	GMT
	Date/Time/Language	Date/Time/Language	Time Synchronize	OFF
			DST	OFF
System Settings			Language	English
		Admin	ID	admin
	Permission	Aumin	New Password	4321
	Management	Cotting	Restricted Access	All
		Setting	Auto Logout	OFF
	System Management	System Information	Broadcast Format	NTSC/PAL
			Video	ON
		Comoro	Audio	OFF
	Camera	Camera	CH Name	CAM 01 ~ CAM 16
			SEQ-Dwell Time	5sec
		PTZ	ID	Camera No.
			Protocol	None
		Screen Setup	Brightness	50
			Contrast	50
			Color	50
Device	Storage Device	HDD Alarm	Check Alarm Output Port	OFF
Device			Duration	OFF
			Replace Alarm Output Port	OFF
			Duration	OFF
		Baudrate		9600
		Parity		None
		Data		8
	Remote Device	Stop bit		1
		Transfer Type		Half Duplex
		System Keyboard		OFF
		Remote Control		ON(00)

Category		Details		
	POS Device			OFF
			Display	All
			Switch to Split Screen	5 sec
		Monitor	VGA	800x600
Device	Monitor		Sharpness	Level1 (Low)
	IVIOIIILOI		Display Position Setup	30
		Spot Out	Spot Out	CH1
		Mode	Live Mode	ALL
		MOUE	Play Mode	ALL
	Recording Schedule	Channel 1		Event
	Event Record	PRE Event		OFF
	Duration	POST Event		1 min
			Resolution	CIF(S)
		Normal Recording	Frame Rate	7.5 ips
Decenting	REC Quality/		Record Quality	Level 4
Recording	Resolution	Event	Resolution	4CIF(L)
			Frame Rate	30 ips
			Record Quality	Level 4
			Setup	Overwrite
	Record Option	Disk End Mode	Disk End Beep	OFF
	-	Auto Delete		OFF
		Sensor Operation		OFF
	Orange Detection	Camera		Camera No.
	Sensor Detection	Alarm		None
		Duration		10 sec
		Mode		OFF
		Sensitivity		Level10(high)
Event	Motion Detection	Alarm		None
		Duration		10 sec
		Motion Region		All Area
		Video Loss State		OFF
	Video Loss Detection	Alarm		None
		Duration		10 sec
	Alarm Schedule	Alarm1		Event Sync

appendix

Category	Details			Factory Default
		Connection	Connection Mode	Static IP
			Bandwidth	2Mbps
			IP	192.168.1.200
			Gateway	192.168.1.1
	Connection Mode		Subnet Mask	255.255.255.0
			DNS	168.126.63.1
		Protocol	Protocol Type	TCP
			Port (TCP)	554~558
			Webviewer Port	80
Network	DDNS	DDNS Site		OFF
Network	Live Transfer	Resolution		CIF(S)
		Quality		Low
	Mailing Service	SMTP	Server	OFF
			Port	25
			Use Authentication	OFF
			Secure Transfer	Never
		Event	Event Interval	10 min
			Use Event Transfer	OFF
			Group	OFF
		Group	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 on the front panel, 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 on the front panel 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 on the front panel 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) – deactivate the alarm sound. 3) To release the event : Event Record Mode - Alarm (Motion Detection/Video Loss) – 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.

appendix

Symptom	Countermeasures
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.
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.
I have installed an additional HDD on the DVR but it does not recognize the HDD.	 See the compatibility list to check if the additional HDD is supported by the DVR. For the compatibility list, contact the retailer where you purchased the DVR.
I have connected an external storage device (external SATA HDD) to the DVR but the DVR seems not to recognize it.	 See the compatibility list of external storage devices to check if the connected device is supported by the DVR. For the compatibility list, contact the retailer where you purchased the DVR.
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 either AVI or 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 [■] button on the DVR or the remote control, or click the [■] icon on the launcher to switch to Live mode.

Symptom	Countermeasures
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 front panel of the DVR or 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 and video loss. 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>
The image quality of the recording data is not good.	 Increase the resolution and quality level in Menu – Record – Quality / Resolution. 1) Resolution: Select a bigger size when specifying the recording size. (4CIF>2CIF>CIF) The recording image in the CIF format shows a deteriorated quality as it is enlarged from a small-sized image. 2) 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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Version 2.1, February 1999

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8 Channel/ 16 Channel DVR User Manual

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