Śĸmsung

Real Time DVR

SHR-2040/2041/2042 User's Manual

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Safety Regulations

Please be sure to keep the following in mind for the right use of the product to pre-vent proprietary risk or damage.

- Do not use multiple plugs at once.
 This may cause abnormal heat generation or fire
- Do not put a vase, flowerpot, cup, cosmetics, medicine, or vessel with water around you.
 - This may cause fire.
- Do not bend the power cord forcibly nor put a heavy material on it.
 This may cause fire.
- Do not touch the power plug with wet hands.
 This may cause electric shock.
- Insert the power plug firmly enough not to shake.
 This imperfect connection may cause fire.
- Keep the product off humidity, dust, or soot.
 This may cause fire or electric shock.
- Do not put metals(coin, hair pin, metal piece, etc.) or inflammable materials(match, paper, etc.) in the ventilation hole.
 This may cause fire.
- Keep the surrounding temperature between 0°C to 40°C and keep the product off humidity.
 This may be a surround to b
 - This may cause breakdown.
- Secure sufficient ventilation.
 This may cause abnormal operation due to high temperature.
- Keep the product off direct ray of light or heat from the heating device
 - This may cause fire.
- Do not disassemble, repair, or remodel the product.
 This may cause fire, electric shock, or injury due to abnormal operation.
- Do not pull out the power cord.
 This may destroy the power cord, eventually, cause fire or electric shock.



- Plug out in the event of thunder or lightning.
 This may cause fire.
- Keep your children off the battery after you take it out of the product. They tend to swallow it unconsciously.
 - If your children swallow it, please see the doctor immediately.
- Install the product at a safe place or attach the product to the wall or ceiling with a stand firmly enough not to fall to the ground.
 - This may injure people.

Before we start

This User's Manual describes the basic usage of SHR-2040/2041/2042. This Manual contains all the matters necessary for using SHR-2040/2041/2042 such as brief instruction, part name, function, connecting other equipment, and menu setup of SHR-2040/2041/2042.

- SEC retains the copyright on this User's Manual.
- This User's Manual cannot be copied without SEC's prior written approval.
- We are not liable for any or all losses to the product incurred by your use of nonstandard product or violation of User's Manual.
- If you want to open the system case to touch the inside, please consult with an expert who works for the shop where you bought the product.
- You may download open source codes from the following website. (See CCTV Part of http://www.sec.co.kr)

WARNING

[Battery]

As wrong exchange of the battery in SHR-2040/2041/2042 may cause explosion, you shall use the certified battery for SHR-2040/2041/2042. The battery specification is as follows.

-Normal Voltage: 3V

-Normal Capacity: 220mAh

-Continuous Standard Load: 0.2mA -Operating Temperature: -30 ~ +60°C

[System Shutdown]

 Power-off without terminating the system in the System Shutdown menu may incur improper motion like data loss and disk failure. Power-off shall be done in the System Shutdown menu.

Standards Approvals

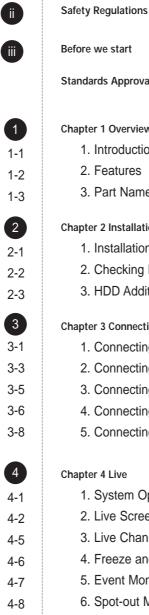


Note : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

> This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance whit 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.

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Chapter 1 Overview

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Introduction

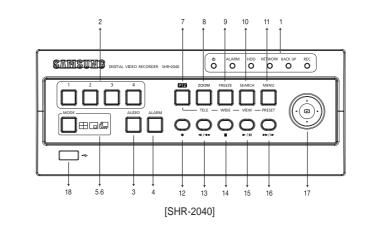
The Digital Video Recorder(DVR) compresses the 4 channel of camera input data into the MPEG4 video file and the 4 channel of voice input data into the ADPCM audio file in the real time to record them in the Hard Disk or retrieve them from the Hard Disk simultaneously. In addition, it transfers the Video/Audio out through a network in the real time and it is able to monitor the Video/Audio remotely by your PC.

Features

- 4 CH Composite Input Connectors
- NTSC / PAL Video Source Compatible
 (NTSC : SHR-2040/SHR-2041/SHR2042, SHR-2040N / SHR-2041N / SHR-2042N PAL : SHR-2040P/SHR-2041P/SHR2042P)
- Able to record the CIF sized (NTSC-352 x 240/PAL-352 x 288) video at the speed of 120 ips(NTSC)/100ips(PAL)(Image Per Second)
- 4 CH Loop Through Video Connectors
- Hard Disk Overwrite Mode
- Large Quantity Hard Disk Backup by USB2.0
- Backup function by the USB2.0 memory and exterior CD/DVD writer(SHR-2042 supports the internal CD-RW.)
- Able to record, play, and transmit both audio and video files to Windows Network Viewer(Smart Viewer) simultaneously
- Able to record and play the audio 4CH
- Variable Search Mode (Time/Date, Event, Camera)
- Variable Recording Mode (Time Lapse, Event, Schedule)
- Extended Hard Disk Connection (USB2.0)
- Alarm Interface function (Input : 4, Output:2, Reset:1)
- Remote Monitoring function by Windows Network Viewer(Smart Viewer)

1-3

Part Names and Functions



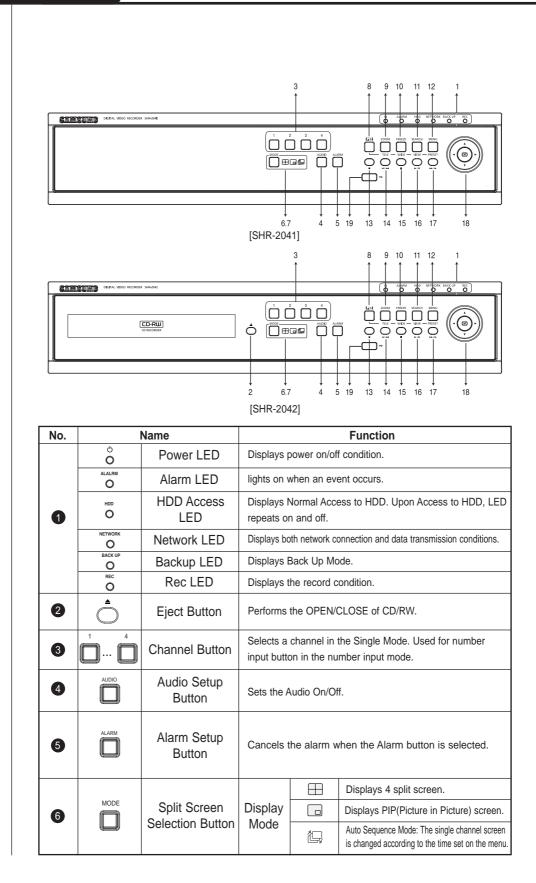
No.		Name	Function					
	ပံ O	Power LED	Displays power on/off condition.					
		Alarm LED	lights on v	lights on when an event occurs.				
0	HDD	HDD Access LED	Displays Normal Access to HDD. Upon Access to HDD, LED repeats on and off.					
	NETWORK	Network LED	Displays bo	Displays both network connection and data transmission conditions.				
	BACK UP	Backup LED	Displays I	Displays Back Up Mode.				
		Rec LED	Displays t	he record c	ondition.			
2		Channel Button	Selects a channel in the Single Mode. Used for number input button in the number input mode.					
3	AUDIO	Audio Setup Button	Sets the Audio On/Off.					
4		Audio Setup Button	Cancels the alarm when the Alarm button is selected.					
	MODE	Split Screen Selection Button	Display Mode		Displays 4 split screen.			
5					Displays PIP(Picture in Picture) screen.			
_				íQ,	The single channel screen is changed according to the time set on the menu.			
	MODE	Mode Selection Button		\square	Displays 4 split screen.			
6					Displays both LIVE Channel and Playback Channel in the PIP Screen simultaneously.			
			Search		Displays 6 split screen. (1 CH playback screen and 4 CH live screen)			
					Displays 9 split screen. (4 CH playback screen and 4 CH live screen)			

No.	Name		Function				
0	PTZ	PTZ Button	Performs the TELE, WIDE, PRESET, and VIEW function.				
8	ZOOM	ZOOM(TELE) Button	1 0	Sets up Digital Zoom(x2). (Performs the TELE function by pressing the PTZ button.)			
9	FREEZE	FREEZE(WIDE) Button		REEZE function in the DISPLAY Mode. VIDE function by pressing the PTZ button.)			
0	SEARCH	SEARCH(VIEW) Button	Displays the sea (Performs the V	arch method. /IEW function by pressing the PTZ button.)			
0	PRESET	MENU (PRESET) Button	Displays the system setup menu or enters to the upper menu.(Performs the PRESET setup function by pressing the PTZ.)				
12	Ō	RECORD	Records the record setup set in the normal record mode.				
13	Q 41/44		Fast/Step Reverse	Fast Reverse: Used for the fast rewinding search in the playback mode. Step Reverse: Used for the 1 step reverse search during the pause.			
14	Ō	Search Function Key	STOP	Used for the search stop in the playback mode.			
15	O ►/II		PLAY/PAUSE	Toggles in the playback mode to activate PLAY/PAUSE.			
16	0 ++/ +		Fast/Step Forward	Fast Forward: Used for the fast-forwarding search in the playback mode. Step Forward: Used for the 1 step-forwarding search during the pause.			
		Direction Button Key		In case of setting the details of Menu, it is used as Direction Key. (For PTZ Operation)			
Ð				In case of setting the details of Menu, it increases the value or it is used as Direction Key. (For PTZ Operation)			
				In case of setting the details of Menu, it is used as Direction Key. (For PTZ Operation)			
			▼	In case of setting the details of Menu, it decreases the value or it is used as Direction Key. (For PTZ Operation)			
				Acts as the Enter key for the menu setup.			
18	~	USB Port	Connects the US	SB type device.			

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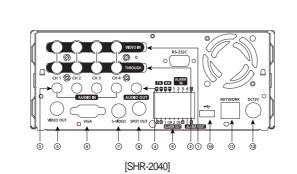
SHR-2040/2041/2042 USER'S MANUAL



No.		Name		Function		
				\square]	Displays 4 split screen.
		Mode Selection Button]	Displays the selected channel to the Single Mode
	MODE		Search)	Displays both LIVE Channel and Playback Channel in the PIP Screen simultaneously.
						Displays 6 split screen. (1 CH playback screen and 4 CH live screen)
						Displays 9 split screen. (4 CH playback screen and 4 CH live screen)
8	PTZ	PTZ Button	Performs the TELE, WIDE, PRESET, and VIEW function.			
9	ZOOM	ZOOM(TELE) Button	Sets up Dig (Performs	-		x2). function by pressing the PTZ button.)
0	FREEZE	FREEZE(WIDE) Button				E function in the DISPLAY Mode. function by pressing the PTZ button.)
0	SEARCH VIEW	SEARCH(VIEW) Button		Displays the search method.(Performs the VIEW function by pressing the PTZ button.)		
Ð	MENU PRESET	MENU (PRESET) Button	Displays the system setup menu or enters to the upper menu.(Performs the PRESET setup function by pressing the PTZ.)			
13	Ò	RECORD	Records the record setup set in the normal record mode.			
14			Fast/Step search in the playback mode.		Reverse: Used for the 1 step reverse	
13	0	Search Function	STOP		Usec	for the search stop in the playback mode.
16	○	Key	PLAY/PAL			gles in the playback mode to activate Y/PAUSE.
Ð	0 >>//>>		Fast / Ste Forward	ep d	sear Step	Forward: Used for the fast-forwarding ich in the playback mode. Forward: Used for the 1 step-forwarding ch during the pause.
		Direction Button Key			In ca usec	ase of setting the details of Menu, it is as Direction Key. (For PTZ Operation)
					incre Dire	ase of setting the details of Menu, it eases the value or it is used as ction Key. (For PTZ Operation)
18					In ca usec	ase of setting the details of Menu, it is I as Direction Key. (For PTZ Operation)
					decr	ase of setting the details of Menu, it eases the value or it is used as ction Key. (For PTZ Operation)
					Acts	as the Enter key for the menu setup.
19	~	USB Port	Connects t	he USI	B typ	be device.

1-6

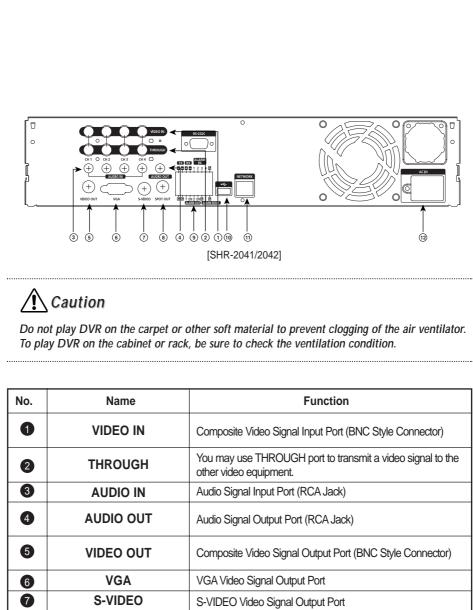
1-7



A Caution

Do not play DVR on the carpet or other soft material to prevent clogging of the air ventilator. To play DVR on the cabinet or rack, be sure to check the ventilation condition.

No.	Name	Function
0	VIDEO IN	Composite Video Signal Input Port (BNC Style Connector)
2	THROUGH	You may use THROUGH port to transmit a video signal to the other video equipment.
3	AUDIO IN	Audio Signal Input Port (RCA Jack)
4	AUDIO OUT	Audio Signal Output Port (RCA Jack)
6	VIDEO OUT	Composite Video Signal Output Port (BNC Style Connector)
6	VGA	VGA Video Signal Output Port
1	S-VIDEO	S-VIDEO Video Signal Output Port
8	SPOT OUT	SPOT Out Output Port (BNC Style Connector)
9	ALARM	- ALARM IN 1~4 : Alarm Input Port - ALARM RESET IN : Alarm Reset Port - ALARM OUT1~2 : Alarm Output Port - TX+, TX-, RX+, RX- : RS-485 Communication
0	USB	USB connection Port
0	NETWORK	Network Connection Port
12	DC-IN	12V Power Socket Support



	VUA		
7	S-VIDEO	S-VIDEO Video Signal Output Port	
8	SPOT OUT SPOT Out Output Port (BNC Style Connector)		
9	ALARM	- ALARM IN 1~4 : Alarm Input Port - ALARM RESET IN : Alarm Reset Port - ALARM OUT1~2 : Alarm Output Port - TX+, TX-, RX+, RX- : RS-485 Communication	
10	USB	USB connection Port	
0	NETWORK	Network Connection Port	
12	AC-IN	(NTSC) AC 100~230V Power Socket Support (PAL) AC 100~230V Power Socket Support	

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Chapter 2 Installation

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2-1

Installation Environment Setup

Do not play DVR on the carpet or other soft material to prevent clogging of the air ventilator. To play DVR on the cabinet or rack, be sure to check the ventilation condition.

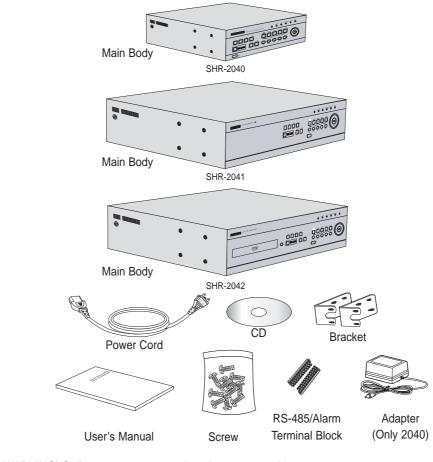
You should pay attention to the following before you use the product.

- 1. Do not use it outdoor.
- 2. Do not let water or liquid in the connection part or the product itself.
- 3. Do not impose excessive shock or force.
- 4. Do not pull out the power plug unreasonably.
- 5. Do not disassemble the product on your own.
- 6. Do not exceed the rated input or output range.
- 7. Use certified power cord only.
- 8. Use the power cord with a ground for the product with an input ground.

Checking Product & Accessory

Upon delivery of a product, you shall unwrap the product and put it on the even floor or where you want to use it. Then you shall check if the following items are in it.

- Main Body
- User's Manual
- One Power Cord
- Two Brackets
 - These are not supplied in SHR-2040.
 - Brackets are used to attach the product to the rack.
- Smart Viewer Software CD (PDF Manual included)
- Special Screws
 - Please keep special screws well to be used for HDD addition.
 - These are not supplied in SHR2040.
- 2 EA of RS-485/Alarm Terminal Block



WARNING) SHR-2040 set must use the adapter we provide. Adapter: ADP-5412WD

2-3

HDD Addition

You can add up HDD to the product.(2040-1 HDD/2041-3 HDDs/2042-2 HDDs) However, since the product contains has many parts which may incur electric shock, accident, or product breakdown and improper installation or setup may disturb HDD recognition or normal product operation, you shall consult with an expert of the agency where you bought the product.

[Caution for HDD Addition]

- Do not let the cable stuck improperly nor uncoated. (This may cause breakdown or fire.)
- Be careful not to hurt yourself by sharp edges of the product.
- Be careful not to miss the disassembled screws or parts. Imperfect assembly due to short of screws or parts may cause breakdown or malfunctioning.

[HDD Addition Procedure]

1. Loosen screws on both sides(5 points) and back(1 point) to detach the product cover.





[SHR-2040]



2-5

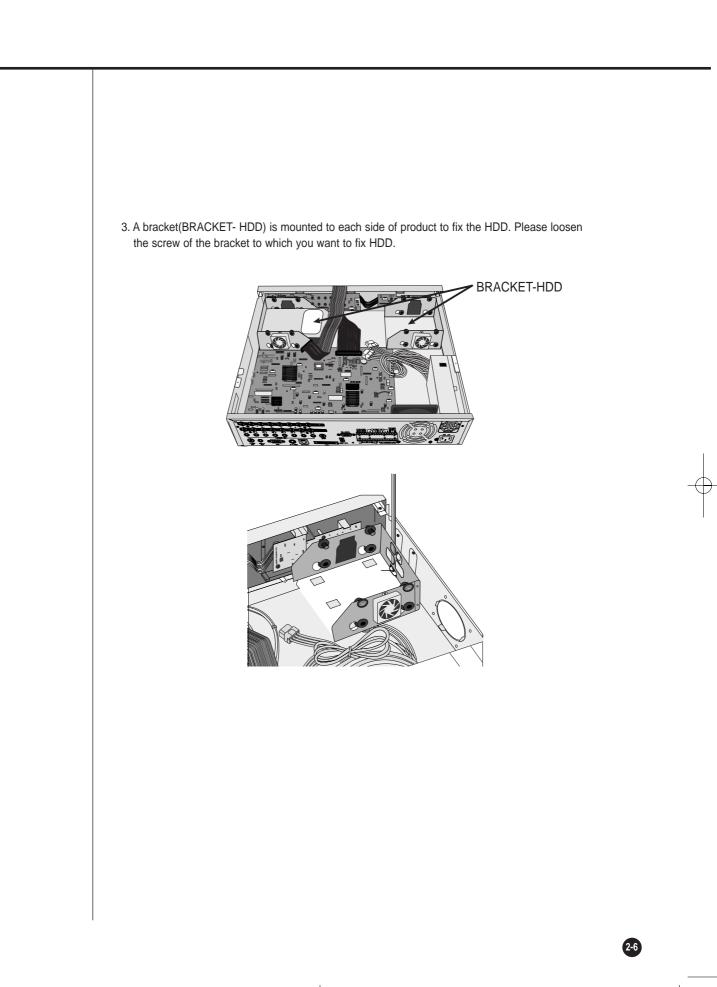
2. Detach the cover from the product. (Pull out the cover slightly and lift from the back side to detach.)



[SHR-2040]

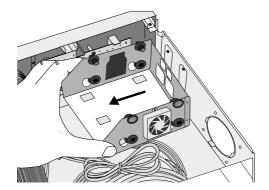


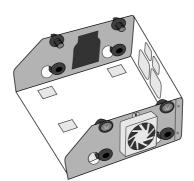
[SHR-2041/2042]



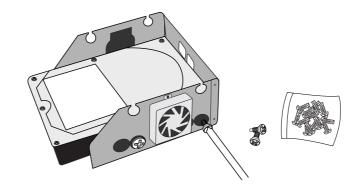
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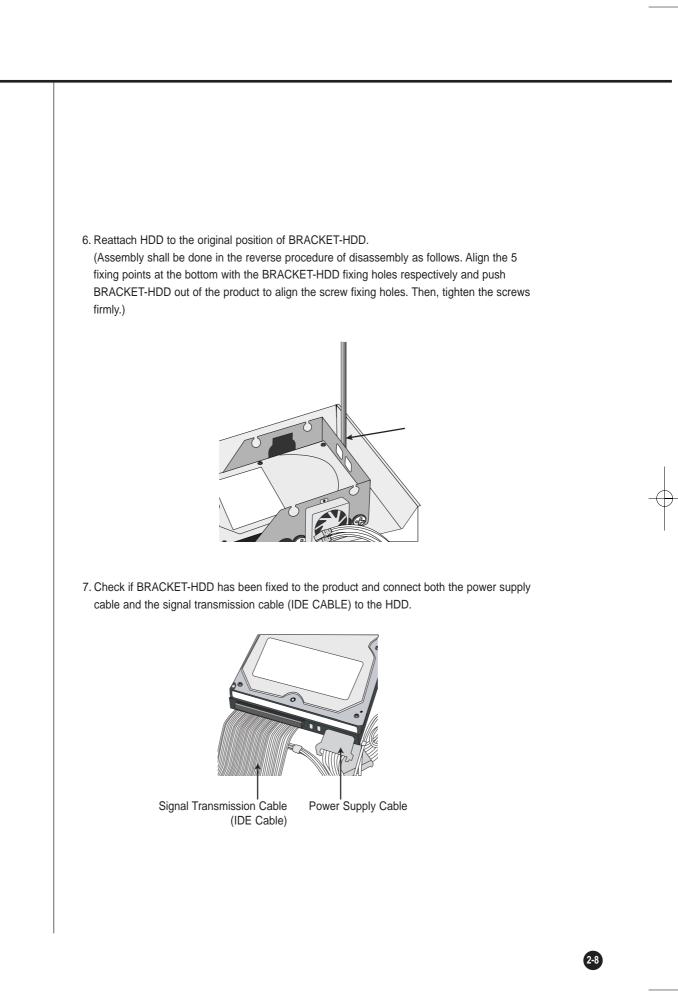
4. Pull BRACKET-HDD to the product center to detach the fixed part at the bottom and detach BRACKET-HDD from the product.





5. Tighten 4 special screws(BWH,6-32UNC,L10.5), supplied as an accessory to fix HDD to BRACKET-HDD. (A force to tighten the screw shall be strong enough to resist vibration.)





- 8. Check the connector, wiring, and cable fixing condition inside the product and close the cover.
- 9. Tighten cover-fixing screws. (5 points on both sides and 1 point in the back side)
 * You can apply 2 HDDs to each BRACKET-HDD as shown in the figure.



\land Caution

For HDD addition, please select the same HDD with the existing HDD fixed to the product as far as possible.

- SHR-2040 : 1 at Primary Slot and 1 at Secondary Slot respectively
- SHR-2041 : 2 at Primary Slot and 2 at Secondary Slot respectively
- SHR-2042 : 2 at Primary Slot and 1 at Secondary Slot(The internal CD-RW is connected to the secondary master.) respectively

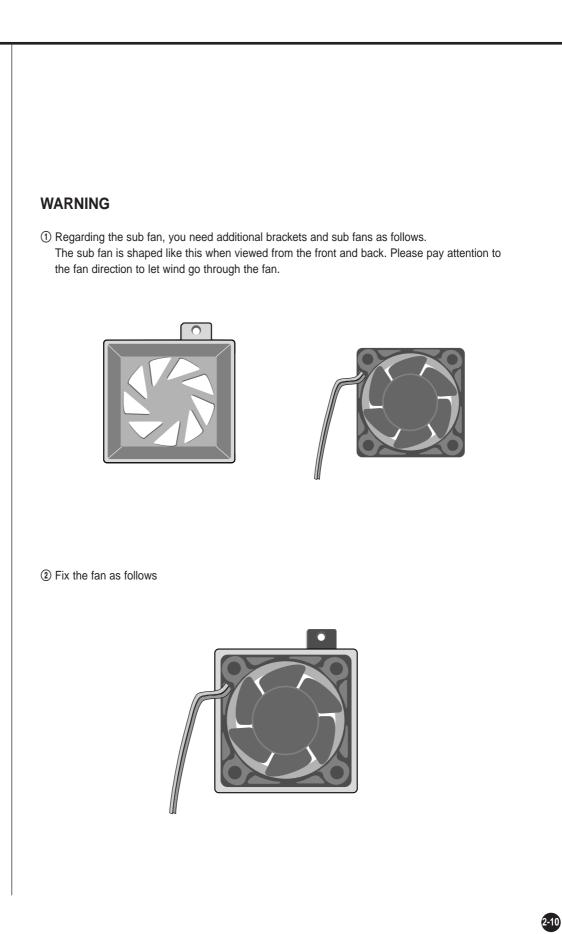
Both HDDs attached to Primary Slot and Secondary Slot should be set to Master and Slave respectively. Refer to User's Manual for Master or Slave Jumper Setting.

In the event of only one HDD installation, it shall be inserted into the Primary slot.

Note

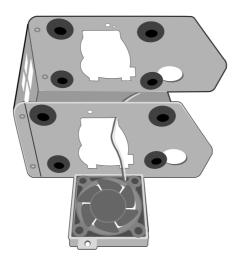
2-9

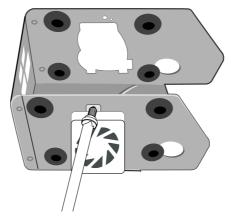
Refer to Appendix 2 to see which HDD specifications are supplied.

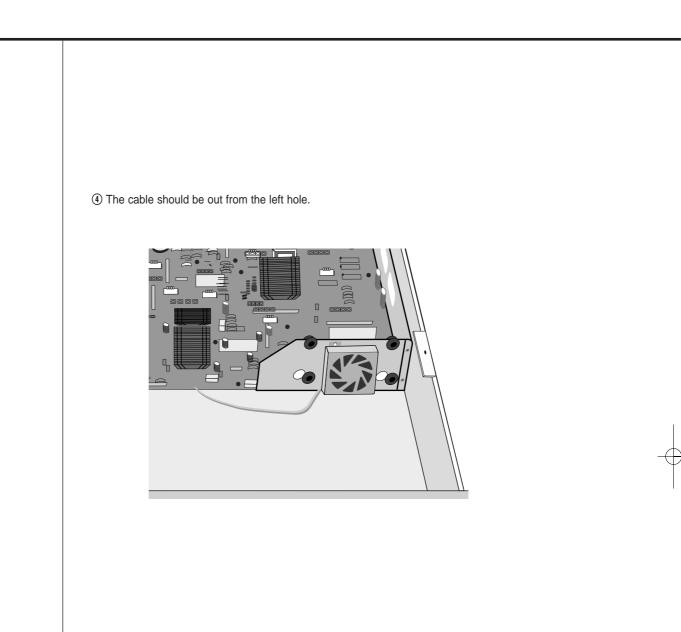


2-11

③ Please install the fan which is seen at the right from the front view of SHR-set as follows.







2-12

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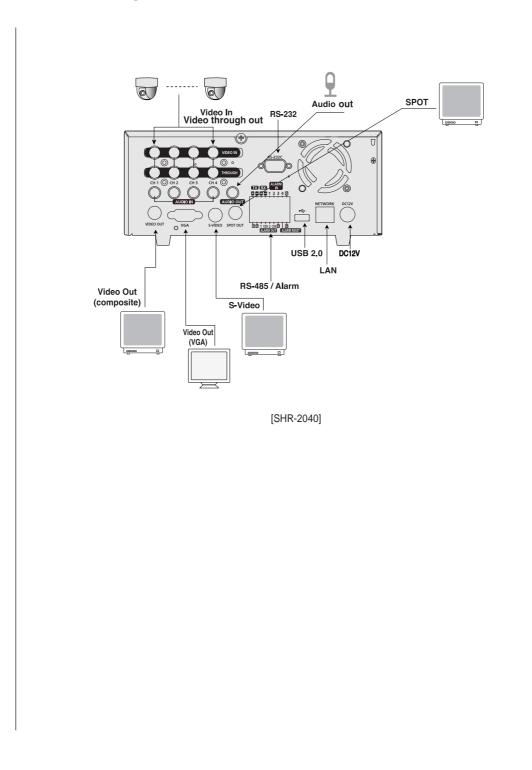


Chapter 3 Connecting with other device

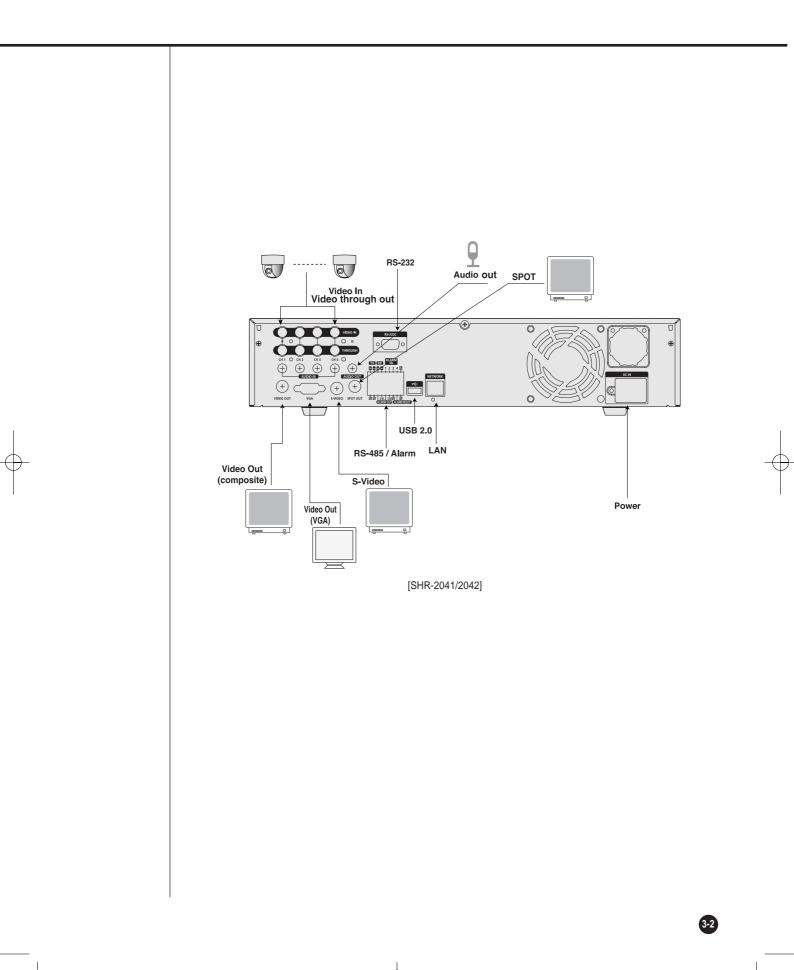
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3-1

Connecting the Video, Audio, and Monitor

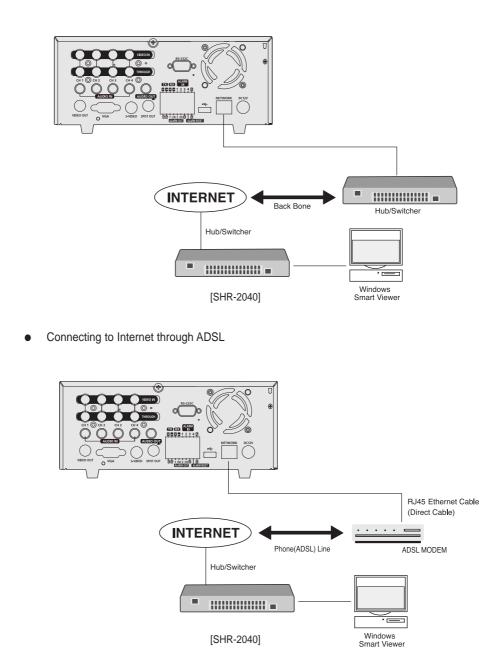


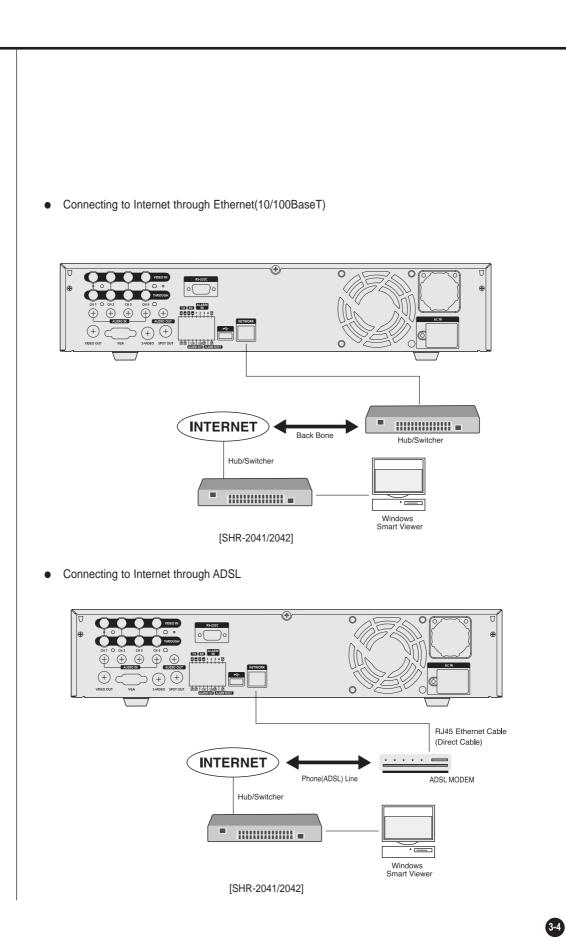
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Connecting the Network

Connecting to Internet through Ethernet(10/100BaseT)





Connecting the USB

- 1. There are two USB connecting ports on the front and back of SHR-2040/2041/2042.
- USB Hard Disk, USB CD/DVD, and USB Memory are connected through the front and back ports of SHR-2040/2041/2042.
- 3. Only one USB device can be connected with each USB connecting port.
- If the USB HDD is connected to the system, it should be detected and set through Menu - System - HDD setup before the operation.
- It supplies the function of HOT PLUG, which connects/removes the USB device, during the system operation.

Note

See 5-8 System (HDD Setup) of User's Manual.

\bigwedge Caution

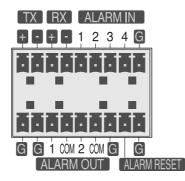
- Wait until the USB device connected by hot plug is stabilized enough and click CONNECT in SHR-2040 / 2041 / 2042 MENU before use.
- USB port on the front and back of SHR-2040/2041/2042 cannot be connected to same kinds of USB device. (For example, the case is that 2 CD-RW devices or 2 USB Memories are used by connection with the front and back of system.)
- If you use the USB Memory on SHR-2040/2041/2042, it should be composed of the format being supported by SHR-2040/2041/2042. Although you format it with FAT32 format on PC, it will be re-formatted, in case of (when) connecting with SHR- 2040/2041/2042.

A Caution

- The hard disk of USB device should be set to Master.

Connecting the Alarm Input/Output

The Alarm IN/OUT port in the back of SHR-2040/2041/2042 is composed of the following elements.

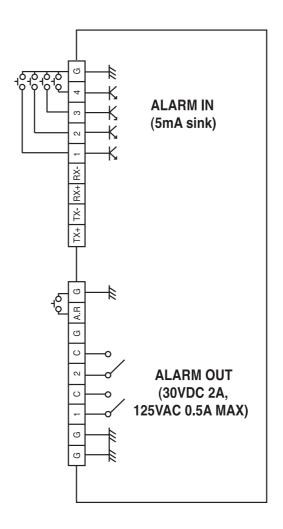


ALARM IN/OUT Connection

	Name	Function
1	- ALARM IN1 - ALARM IN2 - ALARM IN3 - ALARM IN4	ALARM Input Port
2	- ALARM RESET IN	On receiving an ALARM RESET signal, the sys- tem cancels the current ALARM input and output signal and then resumes sensing.
3	- ALARM OUT1 - ALARM OUT2	ALARM Output Port

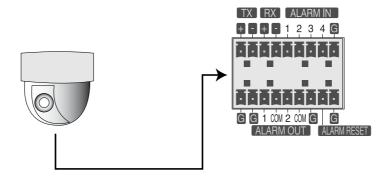
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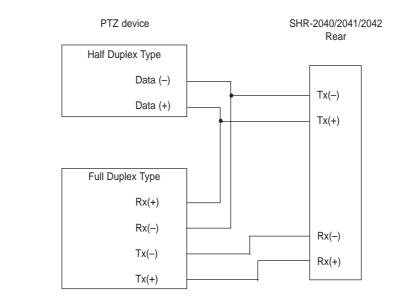


Connecting the RS-485 Device

- Connect the RS-485 Device through the back port of SHR- SHR-2040/2041/2042.
- You can install and control the PTZ camera supporting the RS-485 communication.



• You can adopt either Half Duplex or Full Duplex method for the connection.



Baud Rate supports 600/1200/2400/4800/9600/19200/38400.

<u> (</u>Caution

Check if RS-485 device is compatible with SHR-2040/2041/2042 first. Then pay attention not to change the polarity(+, -) of RS-485 when connecting it.

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Chapter 4 Live

4

System Operation

• Turn the power on and the following LOGO pops up on the screen.



- After the LOGO appears, all of LED in the front flickers 6 times to initialize the system for operation.
- Upon completion of normal initialization, the Live screen appears accompanying a beep sound.
- It requires 30 to 40 seconds until the Live screen appears.

Note

If a new HDD is installed, it may require more time to be appeared the Live screen due to the initialization time of a new HDD.

If the Live screen does not appear continuously or the LED in front repeats flickering, please check the connection between inside and outside. If the system does not operate in normal, contact with the shop where you bought the product.

The Live screen does not affect the earlier MENU setup. If you reboot the system
after power-off during recording, the Live screen will appear, accompanying recording.

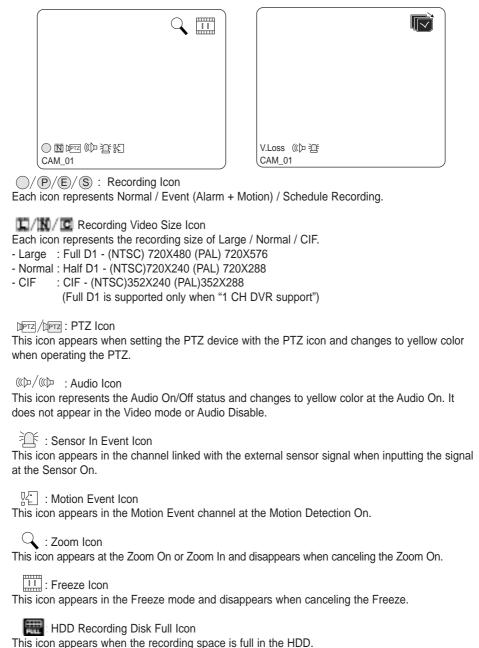
Note

If the Live screen dose not appear, check if the Video Out comes out in Composite mode or VGA mode.

Live screen Mode

Definition of Live Screen Icon

The Live screen icons display the current setup and function status of each screen.



 Auto sequence Icon This icon appears in the auto sequence mode.
 Backup Playback Icon This icon appears when the backup data is played.
 Fan Error Icon

This icon appears when the fan stops.

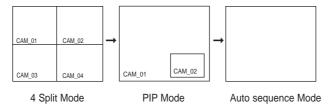
i This icon appears when there is no HDD.

V.Loss / V.Off : Video Input Status

If there is no more video data input in the Video On, [V.Loss] appears in the channel. If you set Video On/Off to Off, [V.Off] will appear.

Definition of Live Screen Mode

The system receives 3 live images and displays them in the following 3 modes.



• 4 Split Mode:

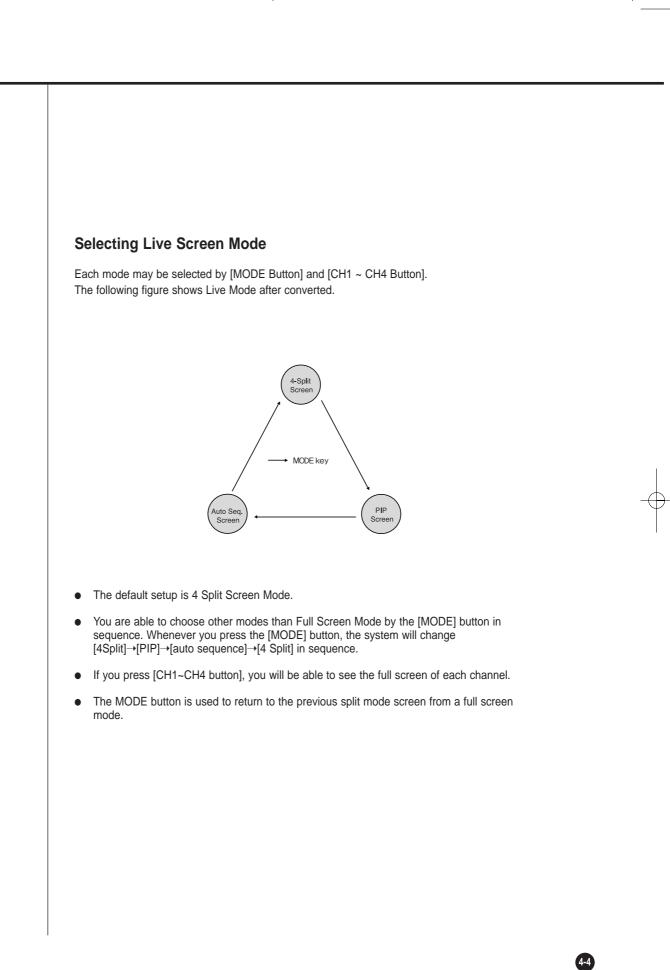
4-3

Four channels are split in the screen separately. You are able to choose a channel as you want to in each split mode.

• PIP(Picture In Picture) Mode:

Displays a one-fourth sized screen in the full screen. You are able to choose a channel as you want to, which is displayed in the full screen and reduced screen area. You may move the PIP screen at 5 stages in the Full screen with the \blacktriangle , \forall key.

 Auto sequence Mode: Displays the full screen of each channel in sequence according to the setup time.



Live Channel Selection and Audio On/Off Setup

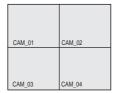
In other split modes than Full Screen Mode and Auto Sequence Mode, you can choose a channel to be displayed in each split area on your own. In addition, the channel being set to Audio On can be set to Audio On/Off in all Live Modes.

Audio On/Off Setup in the Full Screen

In the Full Screen Mode, the selected channel Audio is automatically turned on and you can set up Audio On/Off with toggling the channel button. Depending on the Audio On/Off setup condition, the Audio icon of the channel changes to the Yellow/white color.

Audio On/Off Setup in the 4 Split Mode

If you press [ENTER] Button in the 4 Split Mode, the selection cursor in the following figure will appear and the channel concerned will be selected. If you press the Audio button in the status of being selected a channel, you can set Audio On/Off for the channel concerned. Depending on the Audio On/Off setup condition, the Audio icon of the channel changes to the Yellow/white color.



Channel Selection and Audio On/Off Setup in the PIP Mode

As in the 4 Split Mode, if you press [ENTER] button in the PIP Mode, the selection cursor appears and the concerned channel is selected. With being selected a channel, you can select a channel on the current screen by the [CH1 ~ CH4] button and set Audio On/Off by the Audio button as in the 4 Split Mode. Depending on the Audio On/Off setup condition, the Audio icon of the channel changes to the Yellow/white color.

Note

4-5

Audio On/Off of 4 split mode cannot be set in the playback screen.

Freeze and Zoom

Freeze Function

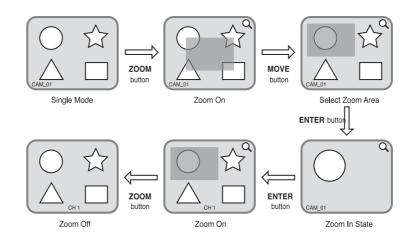
Freeze function pauses the video image in the Live Screen, it is only available in the Live Mode. You can set Freeze On/Off with [FREEZE] Button and [FREEZE LED] is turned on or off depending on the Freeze On/Off setup condition.

Zoom Function

Zoom function enlarges the selected area to double size, and it is only available in the single mode.

If the [ZOOM] button is pressed in the single mode, the Zoom area appears. Use the UP/DOWN/LEFT/RIGHT key to adjust the position of Zoom area. After selecting the Zoom area, press the [Enter] button to display the selection area in double size. You can adjust the video image position with the UP/DOWN/LEFT/RIGHT key at the Zoom in state. For Zoom off at the Zoom in state, use the [ZOOM] button.

[ZOOM LED] is turned on or off depending on the Zoom On/Off setup condition.



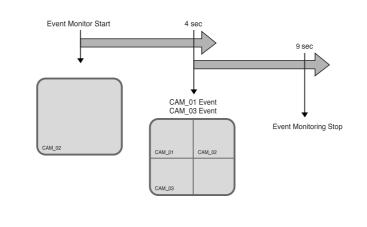
Event Monitoring

Event monitoring displays the channel synchronized with a event on the screen when a special event (Sensor/Motion/Video Loss) occurs. Event monitoring On/Off and event duration setup is available in [Menu] ->[Monitoring] mode.

If you set the event monitoring interval to 5 seconds and an event occurs at CH2 in the beginning as following figure, the system will display CH2 in the full screen for 5 second. If another event occurs within 5 seconds, it is displayed together with the existing event. As the following figure, both CH1 and CH3 events occur within 5 seconds (for example, after 4 seconds) after occurring CH2 event, these three events are split into 4 screens. If the new event does not occurs during the event duration, the system will return to the

previous Live mode. Pressing the [ALARM] button during the event duration makes the event monitoring stop. On occurring an event, [ALARM LED] is turned on. Press the [ALARM] button to turn [ALARM LED] off.

The alarm setup is initialized and the event icon disappears, and the event monitoring is off if it is on when pressing the [ALARM] button. After alarming, the event recording is continued again for set time.



Note

The Alarm LED does not turn off even though the event recording is finished. To turn the Alarm LED off, press the [ALARM] button.

Spot-out monitoring

Spot-out Monitoring has nothing to do with Live Screen Output, it monitors the full screen of a certain channel. If you select the Monitoring in the MENU, the one channel among CH1 ~ CH4 is output with a Spot-out or channels are output one by one at an interval as Auto Sequence Mode in the Live Mode. Live screen icon does not appear in the spot-out monitoring. The interval is as same as the Auto Sequence time in the Live Mode. If the Spot-out Event Monitoring is On, it is possible to see the event channel with Spot-out. In case of simultaneous event occurrence at more than one channel, the lowest numbered event channel has the first priority to be spotted out.

🕂 Caution

If the built-in HDD is not connected, or it operates with power applying in error, () indicating "built-in HDD error" is displayed at the top of left. At this time,

(1) Live screen mode (2) Monitoring mode by Smart Viewer

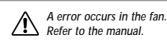
operate only and the other functions including recording, search, playback, menu setup, and PTZ do not operate. If the above problem is occurred, be sure to contact a service center to settle the problem.

.....

🚹 Caution

If the fan in a set does not operate or has a problem, a fan error message pops up in the live screen as below picture. And the fan error icon appears at the top of left . If it is, check the fan in the set. The icon at the top of left disappears automatically if the fan recovers its operation.

Fan Information





Chapter 5 Menu Setup

5

5-1

Before Use

Selection

The yellow cursor shows the current window. Use the ▲, ▼, ⊲, ► key in the front to move the cursor on your desirous menu. If you press the "Enter" key with the cursor clicking on your desirable menu, the system will enter the new mode. Press the "Enter" key to finish the selection. On seeing Drop Down Menu, use the ▲ or ▼ key to move the cursor on your desirable menu.

- "OK" or "Cancel" in Menu Setup Window Once changed, the new menu setup procedure will be finalized by pressing "OK". Pressing "Cancel" will cancel the new setup and return to the upper menu.
- Front "MENU" and "SEARCH" Button The MENU button or SEARCH button, if pressed first, acts as an entrance button. Once entering, it reverses the page to the previous one.
- The ">" or "V" mark beside the title copies the line in the arrow direction to the value of the first line.
- The first page of the menu is structured as follows.

MENU SETUP			SAMSUNG
⊞ ar System	•		
🕮 Camera	•		
Monitoring			
් Record Mode	•		
🔄 Event Record	•		
Record Schedule			
🐌 Backup			
무击 Network	•		
Move/Control	🖬 Sele	ect	···· Exit

System

• System Menu has the following items in detail.

MENU SETUP	SAMSUNG
🖽 System 🕨 🕨	Date/Time/Language
Camera ► Monitoring Record Mode Event Record ► Backup Th Network ►	Password Load Faotory Default System Log Event Log System Information and Setup HDD Setup HDD Mode Setup Remote Control Device System Shutdown
Move/Control	C Select Exit

Date/Time/Language Setup

		ne/Language Setup
Date		2004-03-10
Time		14:37:11
Date Format		YYYY-MM-DD
Time Form	at	24 Hours
Language		English
DST	Off	2004-01-01 00:00:00 — 2004-01-01 00:00:00
		OK Cance

- Press the "Enter" key and the ◄, ► key to move to Y/M/D. Use the ▲, ▼key to change the date. Press the "Enter" key to come out of the mode.
- Time Press the "Enter" key and the ◄, ► key to move to H/M/S. Use the ◄, ► key to change the time. Press the "Enter" key to come out of the mode.
- Once changed, the date and time will remain unchanged until you press "OK" or "Cancel".

Note

[Date/Time Change]

Pressing "OK" after you change date and time, you will be asked by a pop-up window if you really confirm the change. Here, press "Yes" to change the time. Since Date/Time does not change in backup process, be sure to stop the backup process before you change Date/Time. If the date or time is changed, the system reboots.

🕂 Caution

[Date/Time Change]

If the Date/Time changes to the original value, the data recorded before the change may be deleted. For example, if the time is changed from 8 am to 7 am, all the data recorded between 7 am and 8 am will be deleted.

- Date Format The system supports 3 formats, YYYY-MM-DD / DD-MM-YYYY / MM-DD-YYYY.
- Time Format The system supports 2 formats, 24 Hour / 12 Hour(AM/PM).
- Language

After selecting a language, OSD is expressed in the selected language. The available language is added in the list.

DST(Daylight Saving Time)

DST sets the watch one hour faster than the local standard time. This menu makes the system count for DST in DST regions. The system goes one hour faster and reboots at the setup date.

If the DST is Off, it does not operate. And it is impossible to enter the right date menu. To setting the DST, enter the start time on the left and the end time on the right of '~'. DST is allowed to set Month/Date/Time only. Year/Minute/Second remains inactivated.

Note

[On DST Setup]

Backup in progress will be cancelled. Recording in progress will be suspended for a moment until rebooting.

A Caution

[On DST Operation]

As the system goes one hour earlier, the data recorded since an hour ago will be deleted. As DST activates at the preset time, you are recommended to take the utmost care of preventing any trouble incurred by data deletion or rebooting.

assword		
	E Password	
	New Password ******* New Password Contirm *******	
	Password Lock On)K Cancel
The Default Pass	word is 4321.	
allowed to create	a password up to 4 digits. I at the left. Press the "Enter	d inside SHR-2040/2041/2042. Yo Press the "Enter" key and a chan er" key after change to move to "N
	ew password. You shall be	obliged to input New Password ir input, New Password Confirm inp
Password Setup If it is set to On, a menu button.	window for asking the pas	ssword pops up when pressing the
	ou are allowed to enter the ou press the menu button.	e menu mode without being asking
button in the front	, the Password window will action is cancelled after pop	ive Mode immediately. If you pres Il pop up. If the correct password i oping up a message for the
Note		
[All Key Lock On] If you select this, the locked.	system will change to the Live	e Mode immediately and keys will be

Load Factory Default

MENU SETUP	SAMSUNG
System Camera Monit Monit Sure to I Thecord Sure to I Sure to I Sure to I Event OK Backup Thetwork	Date/Time/Language Password Load Faotory Default Default Setting? Cencel d Setup HDD Mode Setup Remote Control Device System Shutdown
Move/Control	🖙 Select 🚥 Exit

• It used to initialize all the menu setup values. The recorded data will not be deleted. Press "OK" in the confirmation window to start initializing.

System Log

No.	System Log List	Date/Time
339	Record Start CH[5]	2004-03-10 10:00:29
338	Record Start CH[6]	2004-03-10 10:00:29
337	Record Start CH[4]	2004-03-10 10:00:29
336	Record Start CH[0]	2004-03-10 10:00:29
335	Record Start CH[7]	2004-03-10 10:00:29
334	Play Back Start	2004-03-10 10:00:09
333	Power Failure Recorery	2004-03-10 09:59:38
332	System Start	2004-03-10 09:59:30

- System Log is used to check the important record by an administrator.
- It displays such contents of a system related log and its execution date/time as System Start, System Termination, and Menu Setup Change.
- First : Moves to the first Log page.
- Prev : Moves to the previous Log page.
- Next : Moves to the next Log page.

5-5

• Last : Moves to the recent Log page.

System Log List

System Start	Starts the system.	Time Change	Changes the Date/Time.
Login(Admin)	Viewer Login (Admin)	Load Factory Default	Initializes the system.
Logout(Admin)	Viewer Logout (Admin)	System Upgrade	Changes the system S/W.
Login(User)	Viewer Login (User)	Disk Full	No Space in the HDD
Logout(User)	Viewer Logout (User)	Backup Start	Starts the backup.
Setup Start (Local) Set	Enters into the menu.	Backup End	Ends the backup.
Setup End (Local) Set	Comes out of menu.	Backup Stop	Stops the backup.
Setup (Remote): Viewer	Sets the menu.	Backup Fail	Backup Failure
Play Back Start	Starts the playback.	ATA HDD Erase	Erases the ATA Data.
Play Back End	Ends the playback.	USB HDD Erase	Erases the USB HDD data.
Record Start CH[N]	Starts the Channel [n] recording.	USB MEMORY Erase	Erases the USB MEMORY data.
Record End CH[N]	Ends the channel [n] recording.	Overwrite Playback Stop	Stops the playback by overwrite.
Power Failure Recovery	Returns the system after power interruption.	Backup Stop(Overwrite)	Stops the backup by overwrite.

Event Log

- It used to check the record regarding Event like Alarm / Motion / Video Loss.
- It displays the contents of a log regarding event and its execution date / time.
- First : Returns to the first Log page.
- Prev : Back to the previous Log page.
- Next : Forwards to the next Log page.
- Last : Moves to the recent Log.
- Event Log List

Video Loss CH[N]	Means the occurrence of Channel [N] Video Loss.
Alarm Detection CH[N]	Means the occurrence of Channel [N] alarm.
Motion Detection CH[N]	Means the occurrence of Channel [N] Motion.

System Information and Setup

🖽 System Info	rmations and Se	etup слизино
Sortware Version	SHR204X-V1.0.0	-20050701080722
Broadcast Format	NTSC	
Mac Address	00:00:F0:XX:XX	:XX
Delete device		
ATA	Internal	\checkmark
USB HDD	Backup	
USB memory	Backup	
USB S/W upgrade	ок	Cancel

- Software Version : Displays the current version. Setup is not available.
- Broadcast Format : Displays the current Format(NTSC/PAL) . Setup is not available.
- Mac Address : 6 Byte hardware address. Setup is not available.

Device Erase

This erases the data in ATA / USB HDD / USB memory. Click the checkbox of the device that you want to erase and press "OK" You are not allowed to erase the data in Backup progress.

USB S/W Upgrade You can update the program by use of USB device. If there is no device, "USB S/W Upgrade fail" window pops up.

Note 1

[Internal HDD]

This is a physical hard disk connected with the IDE cable inside the SHR2040/2041/2042 main body, and stores data.

[External HDD]

This is a physical hard disk connected with the port and terminal in the back of the SHR2040/2041/2042 main body, and stores data. This can be used as Extended HDD or Backup HDD.

- Extended HDD : Supplements Internal HDD quantity. Connected, it takes the place of Internal HDD.
- Backup HDD : Backs up the data recorded in the set.

Note 2

[ATA]

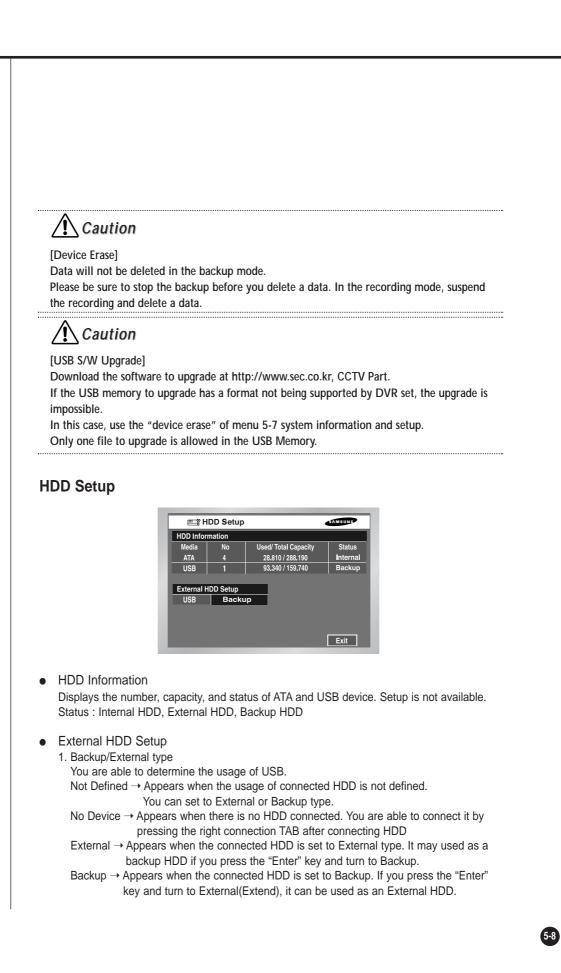
5-7

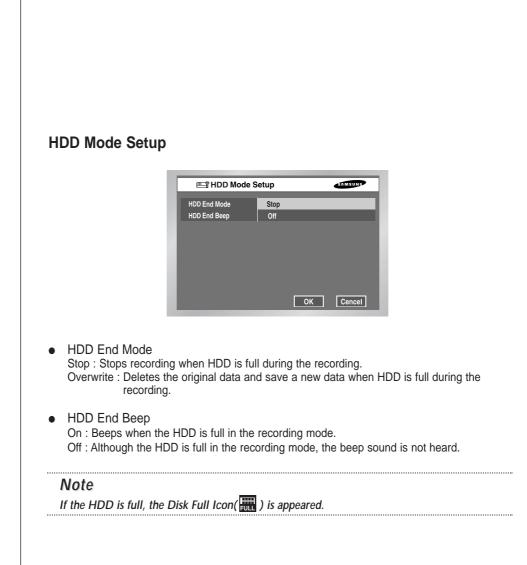
Usage : Internal HDD This is a physical hard disk connected with the IDE cable inside the SHR2040/2041/2042 main body. [USB]

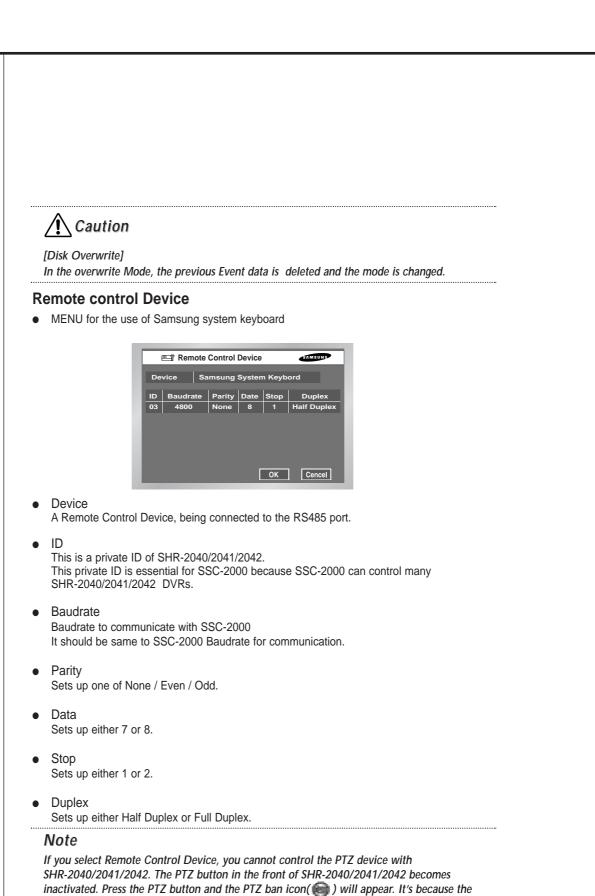
Usage : External HDD(Extended HDD or Backup HDD)

This is a physical hard disk connected with the USB port in the back of the SHR SHR2040/2041/2042 main body,

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RS-485 port setup was done for Remote Control Device.

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System Shutdown



• Terminates the work in action safely and turns the power off. Press "OK" in the confirmation window and plug out when you see "Safe to Power Off".

ACaution

[System Shutdown]

5-11

Power-off without terminating the system in the System Shutdown menu may incur improper motion like data loss and disk failure. Power-off shall be done in the System Shutdown menu.

Camera

• The detailed Camera Menu items are as follows.

MENU SETUP		SAMSUNG		
🖽 System	►			
💷 🗠 Camera	►	Camera Configuration		
Monitoring		PTZ Device		
් Record Mode		Screen Setup		
💩 Event Record	►			
Record Schedule				
🐌 Backup				
무: Network	►			
Move/Control		🖬 Select 🔤 Exit		

Camera Config.

и	📼 Camera Config			SAMSUNG	
Cam	Video 🗸	Audio 🗸	Title	Auto Seg 🗸	
1	On	On	CAM 01	5sec	
2	On	On	CAM_02	5sec	
3	On	On	CAM_03	5sec	
4	On	On	CAM_04	5sec	
			ОК	Cancel	
			UK	Cancel	

Video

On : Camera images from a selected channel appear. Off : Camera images from a selected channel disappear. Covert1 : Displays the information except for the Video information of selected channel. Covert2 : Does not display the any information. Audio/Cam name/Auto sequence setup are impossible in the Off channel.

- Audio
 - On : Makes the sound of selected channel on. Off : Makes the sound of selected channel off.

• Title

You can name the camera of selected channel.

If you press the [Enter] key, the Virtual keyboard will come out.

- Virtual Keyboard If you move the cursor, you can type text by text.
 - Up to 15 texts can be typed.

Keyboard cannot be composed of all spaces.

Pressing Caps Lock changes the keyboard that can be selected. (2 Modes)



Auto Sequence

i-13

You are allowed to set the duration of each channel at the Auto Sequence channel in the Live Mode.

A channel, set to Off, does not operate in the Auto Sequence Mode.

PTZ Device	
	Cam ID Protocol - Baudrate - Parity - Data - Stop - 1 000 Samsung 38400 None 8 1 2 001 Vicon 38400 None 8 1 3 002 Panasonic 19200 None 8 1 4 003 Diamond 38400 Even 1 Serial Mode : Half Duplex OK Cancel
 ID It is an ID for PT. 	Z Camera and available to set from 0 to 255.
The following pro	/ the PTZ device. otocols are now being supported. / Panasonic/ AD/ Philips/ Erna/ PelcoD/ PelcoP/Vcltp/ Diamond/ Kalatel
 Baurate Baurate is support 	rted by the PTZ device. 600/ 1200/ 2400/ 4800/ 9600/ 19200/ 38400
 Parity It is set to the on 	e of None, Even, and Odd.
 Data It is set to either 	7 or 8.
 Stop It is set to either 	1 or 2.
 Duplex It is set to either 	Half Duplex or Full Duplex.
A Caution	
	nall be same to the PTZ device setup. ase refer to User Manual of the PTZ device manufacturer.

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Screen Setup



- It is a window to set Brightness/Contrast/Color for the camera image of each channel. Put the cursor on the channel that you want to adjust and set Brightness/Contrast/Color. Once selected, the channel appears in the right PIP area. Use the ▲ or ▼ button to adjust the value from 0 to 100.
- If you mark ✓ in the select CH, all the channel values will become the same as the finally selected channel value.
- "Default value" resets the current channel to the basic value of 50.

Monitoring

Monitoring		SAMSUNG
Event Monitoring	Duration	Off
OSG Display	Date	On
	Time	On
	Title	On
	Status	On
Spot Out Channel	CH1	
Spot Out Event Monitor	Off	
Monitor Out	Composite C	Dut
1CH DVR Support	Off	
		OK Cancel

• Event Monitoring

It is possible to set to Off/3sec/5sec/10sec/20sec/30sec/Continuous.

① Off : Event Monitoring does not operate to turn to the screen where an event occurs.

② 3sec/ 5sec/ 10sec/ 20sec/ 30sec : Sets the duration time of screen in the Auto Sequence mode.

③ Continuous : The Event Monitoring screen remains alive until you press the "Alarm" button in the front to cancel the screen manually.

OSG Display

 ${\scriptstyle \textcircled{0}}$ Date : The date is displayed on the screen when it is On, and not displayed when it is Off.

- 2 Time : The time is displayed on the screen when it is On, and not displayed when it is Off.
- ③ Cam name : The Cam name is displayed on the screen when it is on, and not displayed when it is off.

④ Status : Audio/Ptz is displayed on the screen when it is on, and not displayed when it is off.

Spot Out Channel

Spot Out channel is used to let one of two monitors monitor a channel, focusing on it. Spot Out channel supplies two functions, continuous monitoring of only one channel and Auto Sequence to display all the channels one by one.

① Auto Sequence setup ranges from Ch1 to Ch 4.

⁽²⁾ In the Auto Sequence mode, Spot Out channels are displayed in turn.

③ Duration time for Auto Sequence is as same as set for Camera setup.

Spot Out Event Monitor

Sets if event monitoring will be executed for Spot Out channels.

① Off : The event monitoring dose not operate in the Spot Out channel.

② 3sec/ 5sec/ 10sec/ 20sec/ 30sec : Sets the duration time of screen in the Auto Sequence mode.

③ Continuous : Once scrolled down, the screen remains displayed until you delete "Alarm" LED in the front manually.

• Monitor

You are not allowed to connect VGA OUT and Composite/S-Video OUT simultaneously. Consequently, the user is obliged to choose either Composite Output or S-Video Output.

① Composite : Makes the output come out through the "Composite / S-Video OUT" port.
 ② VGA : Makes the output come out through the "VGA Out" port.

When changing the output from Composite to VGA or from VGA to Composite, the system reboots automatically.

1 CH Support

1 CH DVR is supported. If 1 CH Support is On, 1 CH is supported. If 1 CH Support is Off, 4 CH is supported.

If 1 CH Support is On, a set reboots and support 1 CH.

A Caution

[Video Out]

When setting the Composite Output, VGA output does not come out. When setting the VGA Output, Composite Output does not come out. If you press the No. 1 button for 5 seconds in the Live Mode with keeping the MODE button pressed, the system will change from VGA to COMPOSITE or from COMPOSITE to VGA and reboot.

[1 CH support]

In the case of 1 CH support, the event monitoring, Spot out channel, Spot out event monitoring cannot be set. Full D1/Half D1/ CIF is supported for the video size in the 1 CH. If the Full D1 is set and 1 CH support Off is selected, the video size in the 4 CH set to CIF. In the 1 CH setup, the system value is initialized.

in the TCH setup, the system value is initialized

Recording Mode

Record Mode

• Details for Record Mode Menu are as follows.

Cam	Mode -	Quality -	Rate -	Cam	Mode -	Quality -	Rate –
1	On	Very High	10 ips	1	On	Very High	8.33 ips
2	On	High	10 ips	 2	On	High	8.33 ips
3	On	High	10 ips	 3	On	High	8.33 ips
4		Low	10 ips	4			8.33 ips

If you press the front "REC" button, the mode value to be recorded will be set.

- For the setup of Event Recording Mode value, refer to 5-20. Event Recording Mode Setup Menu.
- Mode
 - On : The current channel is recorded if the REC button is pressed.
 - Off : The current channel is not recorded even thought the REC button is pressed. The default value is set to "On".
- Quality
 - It sets the Quality.

Set to the one among Very high/High/Normal/Low.

Rate

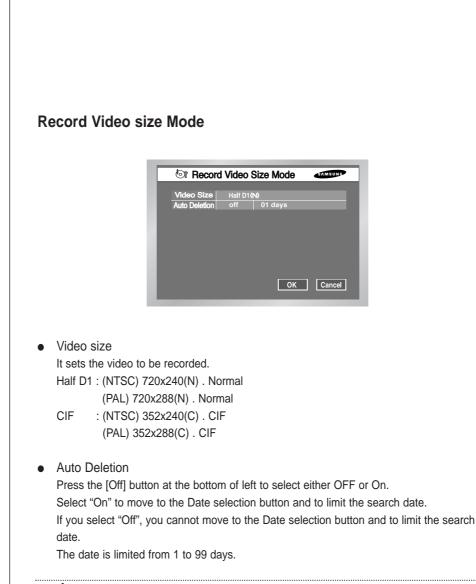
It sets the Rate means the number of screen recorded every second. If it is set to 15 ips(NTSC)/12.5 ips(PAL), the system records too many screens per second and the playback continues intermittently since recording is more detailed. This is appropriate for concentrated monitoring zone setup. IIn case of NTSC, select one out of 30 ips / 15 ips / 10 ips / 7.5 ips / 5 ips / 3 ips / 1 ips. In case of PAL, select one out of 25 ips / 12.5 ips / 8.33 ips / 6.25 ips / 5 ips / 2.5 ips / 1 ips.

The Recording Menu will be activated depending on Video On/Off in the Camera Setup (Menu5-12). When less than 2 cameras are activated at HALF D1, the frame rate of recording may start from 30IPS and when more than 3 cameras are activated at Half D1, the frame rate of recording may start from 15ips(NTSC) / 12.5ips(PAL). CIF supports from 30ips(NTSC) / 25ips(PAL) regardless of the number of activated camera.

Video size

The Video size is displayed at the bottom of left.

SHR-2040/2041/2042 USER'S MANUAL



/Note

To select Full D1, set 1 CH Support to On in the monitoring mode.

Event Record Mode

• The detailed items of Event Record Menu are as follows.

MENU SETUP	SAMSUNG
🖽 System 🕨 🕨	
📼 🕒 Camera 🛛 🕨	
Monitoring	
🔄 Record Mode	
💩 Event Record Mode 🕨	Event Record Mode Setup
Com Record Schedule	Alarm Detection Setup Motion Detection Setup
🐌 Backup	Video Loss Detection Setup
무击 Network 🔹 🕨	
<.p>▲ Move/Control	🖼 Select 🚥 Exit

Event Record Mode setup

ିଜ	Event Recor	d Mode S	Setup	SAMSUN
Cam	Quality -	Rate -	Pre-Event -	Post-Event
1	Very High	10 ips	5sec	5sec
2	Very High	10 ips	5sec	5sec
3	Very High Very High	10 ips 10 ips	5sec 5sec	5sec 5sec
Resol	ution : Half D	n	ОК	Cance
PAL	Event Recor	d Mode 9	Setup	SAMSUN
6				-
	Quality -	Rate -	Pre-Event -	Post-Event
Cam				-
Cam	Quality ~ Very High	Rate - 8.33 ips	Pre-Event → 5sec	Post-Event 5sec
Cam	Quality ~ Very High Very High	Rate - 8.33 ips 8.33 ips	Pre-Event → 5sec 5sec	Post-Event 5sec 5sec

- Event Record Mode setup Sets a mode to be recorded when an event occurs.
- V. Size (Video Size) Sets the size of a screen to be recorded. Half D1 : (NTSC) 720x240(N) → Normal (PAL) 720x288(N) → Normal CIF : (NTSC) 352x240(C) → CIF (PAL) 352x288(C) → CIF

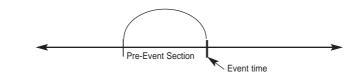
-20)

- Quality
 Quality will be determined.
 Select the one among Very High/High/Normal/Low.
- Rate

Sets the Rate the number of screen recorded every second. It you set to 15ips, the system records too many screens per second and play continues intermittently since recording is more detailed. This is appropriate for concentrated monitoring zone setup. In case of NTSC, select the one of 30 ips/ 15 ips/ 10 ips/ 7.5 ips/ 5 ips/ 3 ips/ 1 ips.

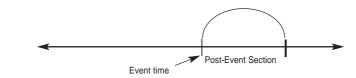
In case of PAL, select the one of 25 ips/ 12.5 ips/ 8.33 ips/ 6.25 ips/ 5 ips/ 2.5 ips/ 1 ips.

- The Event Recording setup menu will be activated depending on Video On/Off in Camera Setup (Menu5-12).
- When the video size in the Camera Setup Menu is set to Half D1 and less than 2 cameras are activated, the frame rate of recording may start from 30ips(NTSC)/25ips(PAL) and when the video size in the recording mode is set to Half D1 and more than 3 cameras are activated, the frame rate of recording may start from 15ips(NTSC) / 12.5ips(PAL). CIF supports from 30ips(NTSC) / 25ips(PAL) regardless of the number of activated camera.
- Pre-Event



Records the situation until Alarm is issued. Off : No recording 5sec/ 10sec/ 20sec/ 30sec : The recording time options before Alarm issue

Post-Event



Records the situation since Alarm is issued.

Off : No recording

5sec/ 10sec/ 20sec/ 30sec/1min/3min/5min/10min/20min: Sets the recording time after an event occurs.

Video size

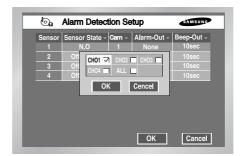
The Video size is displayed at the bottom of left 5-19.

Alarm Detection Setup

 Off : Sensor does not operate.
 N.O(Normal Open) Sensor : Sensor remains open all the time and if closed, an alarm will be issued. (A Contact)

Cam

Sets a camera that will synchronize with the current sensor. The default value is currently set to the sensor number. A sensor shall be synchronized with at least a camera. Multi-selection is possible.



Alarm-out

Sets the Alarm-Out when Alarm Sensor sounds.

5 Alarm Outs are supported un the present.

Choose an alarm-out that you want to synchronize with the current sensor. Multi-selection is possible.

୍ଦ୍ରି କ	larm-out		SAMSUNG
Sensor 1 2 3 4	Sensor State - N,O Off 1 - All - Off Off 0 - Off	Alarm-Out - None Beep - Cencel	Beep-Out - 10sec 10sec 10sec 10sec
		ОК	Cancel

-22

Beep-Out

Sets the Alarm-Out Duration. Alarm-Out continues for the set value. Off / 3sec / 5sec / 10sec / 20sec / 30sec

SHR-2040/2041/2042 USER'S MANUAL

Motion Detection Setup

ം	Ca Motion Detection Setup								
Cam	M.D State -	Area –	Sensitivity -	Alarm-Out -	Beep-Out -				
		Set	Very High	Beep	10sec				
2	On	Set	Medium	1,4	10sec				
3	On	Set	Medium	None	10sec				
4	On	Set	Medium	None	10sec				
			_	ок	Cancel				

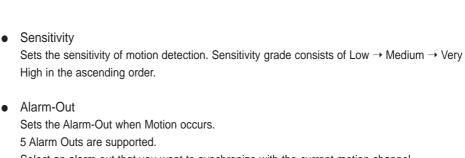
Motion Detection Mode
 Off : Motion Detection does not operate
 On : Motion Detection operates.

Area

Selects the Motion Detection area. It is composed of 45x40(NTSC)/45x48(PAL) sized Block. It is impossible to set 4 block rows(Up/Down/Left/Right) to allow them to be displayed in all monitors.

- ► Select All : Selects the whole area.
- Select Block : Selects a block every time. Selection is done by a toggle system.
- Select Quarter : Splits the whole area into 4 pieces, which enables selecting a fourth of the whole area.
- ► Clear All : Cancels the whole area.
- ► Save & Exit : Saves and exits.
- ► Exit : Exits without saving.



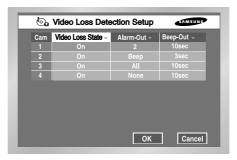


Select an alarm-out that you want to synchronize with the current motion channel. Multi-selection is possible.

Beep-Out

Sets the Alarm-Out Duration. Alarm-Out continues for the determined duration. Off/ 3sec/ 5sec/ 10sec/ 20sec/ 30sec

Video Loss Detection Setup



• Video Loss State

Off : Video Loss does not operate. On : Video Loss operates.

Alarm-Out

Selects the Alarm-Out when the current Video Loss occurs. 3 Alarm Outs are supported in the present. Select an alarm-out that you want to synchronize with the current motion channel. Multi-selection is possible.

• Beep-Out

Sets Alarm-Out Duration. Alarm-Out continues for the determined duration. Off/ 3sec/ 5sec/ 10sec/ 20sec/ 30sec

Record Schedule

e	2 000	не	COI	a	SC	ne	d	ul	e	_	_	_	_	_	_	_	•	5٨	MS	UN.	0	_
CH >	СН	1	CH	12	C	н	3		СН	4	C	н	5	IK	СН	6	0	СН	7	c	ж	8
CH /	CH	9	CH	10	С	H 1	1	С	H 1	12	C	H	3	C	Ж	14	C	Η	15	C	H 1	6
All 🔒	01	\$	34	5	\$	7	\$	ŝ	1 <u>0</u>	ij.	12	13	<u>14</u>	15 V	16	17	<u>18</u>	19	20 20	21	22	23
S≻																						
M >																						
T >																						
W>																						
T >																						
F≻																						
\$ >																						
H >																						
Ev	ntinu ent F th(Co	lec	ordi	nq					Γ	Н	olio	da	y	F	C	ЭK		1	С	ar	ICE	el el

This setup selects a time to record automatically. Selection by the day or by the time is available. The default value is set to "Event Record".

- Press "CH >" copies the value of Channel 1 to all the channels.
- The horizontal axis numbered from 0 to 23 represents the time value.
 The vertical axis numbered from S to H represents the day value. (H : Holiday)
 Selection by the day or by the time is available.
- Pressing "ALL" converts the overall setting of the selection window into Continuous → Event Record → Schedule/Event Record.
- Record Schedule
 Recording starts automatically on the preset time.

 Recording follows the condition that set in 5-18.Record Mode.
 Refer to 7-2 Record Schedule.

Event Recording

Recording starts automatically when an event (Alarm/Motion Detection/Video Loss) occurs within a setup time. Recording follows the condition that set in 5-20.Event Record Mode setup.

- Recording follows the condition that set in 5-20.Event Rec
- Refer to 7-3 Event Recording.
- Schedule Record is yellow, Event Record is Blue, and Schedule/Event Record is red.

• Schedule / Event Record On occurrence of Event, Continuous Recording is replaced with Event Recording Mode.

• Holiday

If you press "Holiday", a calendar pops up and you are able to designate holidays. Move to a date and press "Enter" to complete designation. Press "Enter" once more to cancel designation.

"H" at the bottom of the table means a holiday.

9	∎Holida	y Setup)		-	MSUNG
	_	2	2004 ()3	_	►
Sun	Mun	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			
				С	к	Cancel

Backup

Backup



- If there is a device, the free space and the backup device is displayed.
- Select a date, time, and camera No. to backup, and press "Start".
- When you change Start Date/Time or End Date/Time, free space keeps updated in the Free Space zone.
- A file name is composed of Folder/File Name. A folder is composed of the backup date(YYYYMMDD) while a file name is composed of the time(HHMM).
 A file may be renamed by the virtual keyboard. A file name can composed of the maximum 5 letters.
- In case that more than one backup device is connected, click the box in the bottom of left corner to select a backup device.
- If there is no backup device, Warning sign pops up. Select and connect Backup Device in 5-8.HDD Setup and proceed the backup.
- Press the "Stop" to stop the backup.
- Pressing Cancel during the Backup returns to the upper menu but this does not affect the backup process.
- In case of USB HDD, the AVI check is impossible.

A Caution

[In Backup Process]

Pressing THE "Cancel" returns to the upper menu but this does not affect Backup process. Press "Stop" to stop the backup.

The speed of the set may down during the backup.

<u>∕</u>Note

SHR-2040 supports the internal CD-R/W.

🔨 Note

In case of AVI backup, the backup playback is available in the PC, but it is not available in the set.

Network

IP Setup

무击 IP Setup	SAMSUNG
Connection Mode	Static IP
Bandwidth	2 Mbps
Admin Password	*****
User Password	****
IP	192.168.001.201
Gateway	192.168.001.001
Subnet Mask	255.255.255.000
DNS	168.126.063.001
ADSL User ID	ID
Password	******
	OK Cancel

Connection Mode

Designates the kind of the network connected to the main body of SHR-2040/2041/2042. Static IP : When the main body is connected to the network with Static IP.

Dynamic IP : When the main body is connected to the network with Dynamic IP supplied by DHCP.

ADSL(PPPoE) : When the main body is connected to the ADSL network with PPPoE.

Bandwidth

Designates the network speed to which the main body of SHR-2040/2041/2042 is connected.

Unlimited / 2 Mbps / 1 Mbps / 600 Kbps / 300 Kbps

In case of ADSL, the bandwidth should be selected 600 Kbps or 300 Kbps.

A Caution

When the main body is connected to the network using high speed LAN, set to 1 Mbps or 2 Mbps. When the main body is connected to the network supporting low bandwidth such as ADSL, set below 600 Kbps. If you set Bandwidth high though the main body is connected to a slow network, the network load will get heavy therefore the connection with Smart Viewer or video monitoring may be instable.

Note

In case of ADSL, the Protocol type is fixed to TCP.

Admin Password

Used for the connection between Smart Viewer and the set with the authority of Admin. The password can be input 8 digits in maximum. Press "Enter" and the left numeric keys from 1 to 4 for setup. The default password for ADMIN is 4321.

User Password

Used for the connection between Smart Viewer and the set with the authority of user. The password can be input 8 digits in maximum. Press "Enter" and the left numeric keys from 1 to 4 for setup. The default password for USER is 4321. SHR-2040/2041/2042 USER'S MANUAL

IP Sets the IP address for the main body of SHR-2040/2041/2042 to connect with the network. If the Connection Mode is set to Static IP, you shall type in IP yourself. If the connection mode is Dynamic IP or ADSL(PPPoE), the IP allocated by the DHCP server or ADSL company will be automatically displayed. In case of failure of DHCP or ADSL connection, 000.000.000 will be displayed. Then, press OK to retry connection to get IP. If you continue to fail in DHCP or ADSL connection, keep the main body of SHR-2040/2041/2042 off for a while and turn it on for retry. Gateway Sets the Gateway Address in the SHR-2040/2041/2042 main body. Subnet Mask Sets the Subnet Mask Address in the SHR-2040/2041/2042 main body. DNS Sets the DNS Address in the main body of SHR-2040/2041/2042. The default value of DNS is 168.126.63.1. Generally, you don°Øt have to alter the DNS default but you may be hard to connect to the network sometimes if you use DHCP or ADSL. In this case, call the network manager or ADSL company to set up a new DNS address. ADSL User ID If the main body of SHR-2040/2041/2042 is connected with the ADSL(PPPoE) network, input User ID subscribed to the ADSL company. You may input User ID with a Virtual keyboard as long as 40 digits irrespective of alphabets, numbers, or symbols. Password If the main body of SHR-2040/2041/2042 is connected to the ADSL(PPPoE) network, input the user password subscribed to the ADSL company. You may input the password with a Virtual keyboard as long as 40 digits irrespective of alphabets, numbers, or symbols.

🕂 Caution

Be sure to set IP/Port/SubnetMask/Gateway/DNS to let Smart Viewer connect with the main body of SHR-2040/2041/2042.

Wrong IP/Port/Gateway/SubnetMask/DNS may prevent Smart Viewer from being connected to the main body of SHR-2040/2041/2042.

Please call the network manager or ADSL company to get each setting value.

Caution

In case of ADSL, the audio is not played in the SmartViewer.

Transfer Protocol Settings

Transfer Protocol S	oungo	
	1	
Protocol type	UDP	
Port (TCP)	554.555.556.557	
Port (UDP)	8000-8159	
Unicast/Multicast	Unicast	
Multicast IP	241.126.063.001	
TTL	005	
	ок	Cancel

- You may select either TCP or UDP for the protocol type.
 If you select ADSL from the IP setup page, only TCP is available.
 While TCP is selected, Audio transmission is not available.
- The available Port(TCP) ranges from 554 to 998 and the port number will be changed by 4. Once the first digit is determined, the following 3 digits will change accordingly.
- The available Port(TCP) ranges from 8000 to 9760 and the port number will be changed by 160.
 Once the first digit is determined, the remaining digits will change accordingly.
- Unicast is set to the default value and Multicast can be selected in Unicast / Multicast.
- Multicast IP will be activated and its setup is available only when Multicast is selected from Multicast/Unicast.. Select a number from 224.0.0.0 to 239.255.255.255 for the D-Class IP address.
- TTL will be also activated and the value from 0 to 255 can be set only when Multicast is selected from Multicast / Unicast. The default value is 5.

Note

If you want to connect IP Router with the main body of SHR-2040/2041/2042, you shall designate a port for SHR-2040/2041/2042 in the IP Router setup menu. The main body of SHR-2040/2041/2042 uses 4 ports for TCP communication. In addition, if you want to use the DHCP function backed by IP Router to allocate Dynamic IP to the main body of SHR-2040/2041/2042, you shall designate a port for the IP which SHR-2040/2041/2042 has been allocated by the IP Router setup menu. If you use IP Router, you are recommended to rather determine IP and Port numbers to be allocated to the main body of SHR-2040/2041/2042 from the IP Router setup menu, set the connection mode to Static IP for the main body of SHR-2040/2041/2042, and input the determined IP and Port number in IP Router than use the DHCP function. Please refer to the IP Router User's Manual or call the manufacturer to set up IP Router.

Callback Settings

 The Callback function is used to forward a callback message to the IP where SmartViewer is in action in case Alarm, Motion Detection, or Video Loss event occurs.

On/Off Off	
IP Address 192.1	68.001.010
Port(UDP) 7900	
Retry 05	

- On/Off : Off is default but you may choose On.
- IP Address : IP setting is available only when On is selected from On/off Setting. Select the IP address of PC where SmartViewer is in action.
- Port(UDP) : You may choose one from 7900 to 7999 and the number changes by 1. Selects the Port value for the Callback Connection menu from SmartViewer Setup.
- Retrial : You may choose one from 1 to 20 and the number changes by 1.

ACaution

- Though Callback is set to ON, any Callback message will be created unless Alarm, Motion Detection, and Video Loss are set by EventRecord.
- Unless the Callback button is clicked, SmartViewer does not receive any Callback message.

Network Setup

Port Setup for SmartViewer Connection

- The Port value for DVR registration of SmartViewer (Setup → Site Setup) shall be as same as that of the set (TCP).
- If you want to use the IP Router, you shall forward the activated Port depending on the current setting value.
 - If set to TCP, allocate 4 ports to the IP Router whose Port(TCP) was set.
 - If set to UDP, allocate 4 ports whose Port(TCP) was set and 160 ports whose Port(UDP) was set to the IP Router.

In the event of TCP Setup from Transfer Protocol Setup Page

 The ports allocated to Port(TCP) will be used for SmartViewer connection control and stream forwarding.

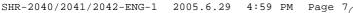
In the event of UDP Setup from Transfer Protocol Setup Page

- The ports allocated to Port(TCP) will be used for SmartViewer connection control and the ports allocated to Port(UDP) will be used for stream transfer.
- If you set to Multicast
 - Both MultiCast IP and TTL Setup will be activated.
 - MultiCast IP means the group address(D-Class IP Address : 224.0.0.0 ~ 239.255.255.255) for MultiCast Forwarding.
 - TTL(Time To Live) indicates how many Routers will be passed for MultiCast Forwarding.
 - When you are unable to use Multicast by the Network(LAN or ADSL) characteristic as both Set and SmartViewer are installed, the message, "Not Connected" will be displayed in the SmartViewer screen. Please alter the TCP or UDP(Unicast) setting value.
- In the event of poor image from SmartViewer
 - When the bandwidth of the network where Set is installed is smaller than the quantity of transfer stream packet, the image is sometimes poor. Set the IP setup bandwidth lower than the current setting value. (In case of ADSL, it is recommended 300Kbps or 600Kbps for the bandwidth.)

5-32

- If this effort is no use, alter the protocol type to TCP.

SHR-2040/2041/2042-ENG-1 2005.6.29 4:59 PM Page 6





Chapter 6 PTZ Camera Control

6

6-1

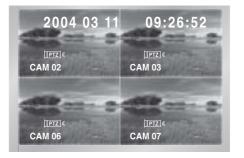
PTZ Camera Control Mode

• Select a proper PTZ camera Configuration value in MENU to enter PTZ Control Mode.

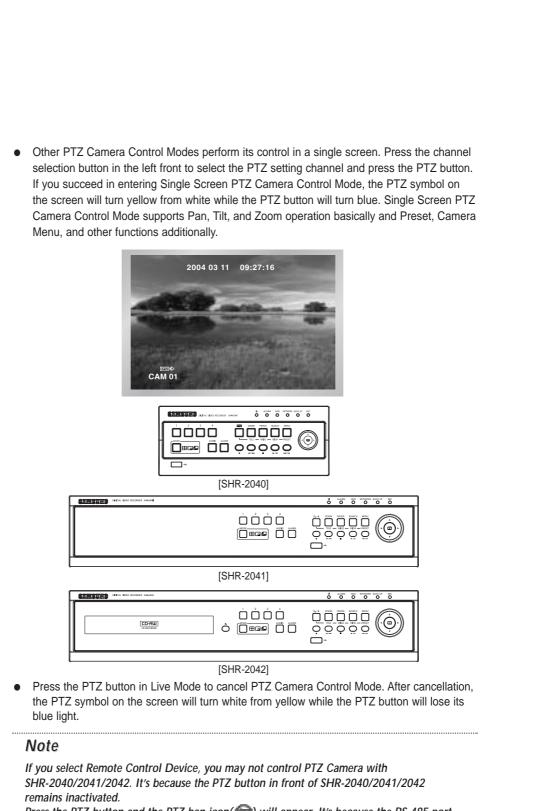
^~m	ID	Protocol v	Baudrate√	Parity √	Data √	Stop v
1		Samsung	38400	None	8	1
2	001	Vicon	38400	None	8	
3	002	Panasonic	19200	None	8	
4	003	Dismond	38400	Even	8	

- Selected in MENU, the PTZ symbol(PTZ) is displayed on the channel in the screen.
- If you press the Enter() button among direction keys in front of Split Screen, a blue bar will appear in the monitor screen. Use direction keys to move this bar until you reach the channel with the PTZ symbol and press the PTZ button in front of SHR-2040/2041/2042 to enter PTZ Camera Control Mode.
 If you succeed in entering PTZ Camera Control Mode, the PTZ symbol on the monitor

screen will turn yellow from white while the PTZ button in front of SHR-2040/2041/2042 will turn blue. PTZ Camera Control Mode supports Pan, Tilt, and Zoom operation.





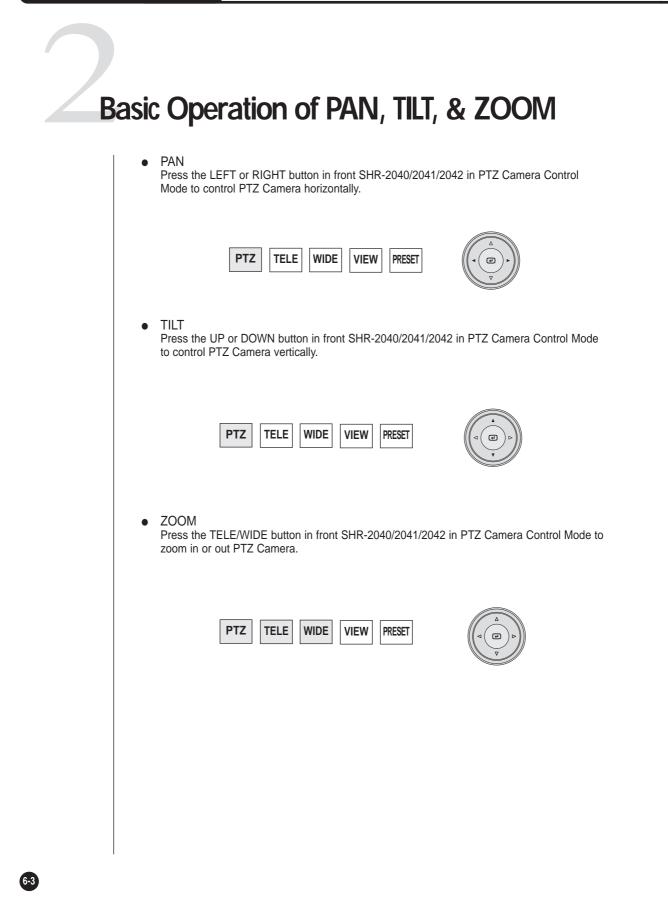


Press the PTZ button and the PTZ ban icon() will appear. It's because the RS-485 port setup was done for Remote Control Device.

The some functions of PTZ camera are used under restriction.

6-2

SHR-2040/2041/2042 USER'S MANUAL



Preset Setup

- Records a certain position of PTZ Camera.
- Memorizes up to 20 PTZ Camera positions at the moment.

Note

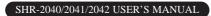
For AD Protocol PTZ Camera, this memorizes only 7 Presets.

 Press the Preset button in front of SHR-2040/2041/2042 in Single Screen PTZ Camera Control Mode to set up Preset.



• After Preset setup, press ENTER.

F	PTZ Position Se	tting	SAMSUNG
No.	Position Name	Del∨	
1		Del	IPTZ PTZ Control
2		Del	
3		Del	
4		Del	States and - D
5		Del	ALC: NOT THE OWNER.
6		Del	CONTRACTOR OF CONTRACT
7		Del	
8		Del 🖵	
Pre	v Next	Exit	



6-5

- Move the cursor to right and press ENTER in PTZ Control Mode first. Then, press the "Enter" to run P/T/Z/ operation mode in the PIP screen and press the "Enter" again to cancel P/T/Z/ Motion Mode.
- Press Enter at the Position Name position to see Virtual Keyboard. Enter the type position name and press the "OK" to save the position and position name.

PTZ Position Setting	,
ROOM	1
	I
M N O P Q R S T U V W X Y Z 1 2 3 4 5 6 7 8 9 0	I
	I
CapsLock Delete << Back Space	I
OK Cancel	l

- Press the "Del" to delete both Position and Position Name with the number.
- Click the Press Del 🗸 on the top to delete all positions and position names in memory.



 Camera Menu is a menu supplied by PTZ Camera itself. This Menu sets up several conditions of PTZ Camera.

Note

Panasonic or Samsung Protocol Camera only is authorized for Camera Menu setup.

 Press the Preset button in front of SHR-2040/2041/2042 in Single Screen PTZ Camera Control Mode to select Camera Menu.



Camera Menu

Exi



• Press the "Preset" button in front of SHR-2040/2041/2042 to return to the upper menu from camera menu.

6-7

Preset View

- Preset setup allows your movement to a certain saved position of PTZ Camera.
- Press the VIEW button in front of SHR-2040/2041/2042 in Single Screen PTZ Camera Control Mode to select Preset.(For example, Samsung Protocol)



(For example, Samsung Protocol)

• Control the cursor until it reaches a preset position number that you want to move and you can check it in the right PIP Screen.

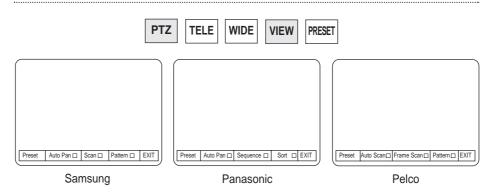


Other View

 Press the "VIEW" button in front of SHR-2040/2041/2042 in Single Screen PTZ Camera Control Mode to supply PTZ Camera. This is a very special function.

Note

Samsung, Panasonic, PelcoP, or PelcoD Protocol PTZ Camera supports this function. Samsung : Auto Pan / Scan / Pattern Panasonic : Auto Pan / Sequence / Sort Pelco(P,D) : Auto Scan / Frame Scan / Pattern



- After you select a function, press Enter. Then the function will be checked and start running.
- If you select other function during the operation, the previous function will be unchecked and the current function will be checked.



(For example, Samsung Protocol)

6-8

- If you put P/T/Z/ during the operation or enter the Preset Setup or Camera Menu Setup during the operation, the function in action will be suspended and unchecked.
- Restarting SHR-2040/2041/2042 system during the operation has no effect. The function continues its duty and remains checked.



Chapter 7 Recording

7

SHR-2040/2041/2042 USER'S MANUAL

REC (Normal Recording)

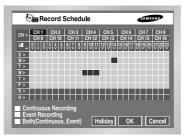
- Pressing REC the button starts recording as set in the record mode. Then, REC LED lights on and a recording icon appears on the screen. During the recording in HDD, the front HDD LED blinks.
- During the normal recording, you can stop it by pressing the REC button. If the recording stops, REC LED lights out.

Warning

If the work that has to stop the recording(Time change, File delete, HDD connect/disconnect etc.) is performed during the recording, the current recording stops.

Schedule Recording

 While "Record Schedule" or "Schedule/Event recording" is selected in the Record Schedule menu, Schedule Recording automatically starts. Otherwise, Schedule Recording remains inactivated. During the Schedule Recording, Recording Icon appears on the screen. During the recording in HDD, the front HDD LED blinks.



 If the Event Recording is selected, the recording starts at the every event. In this case, the recording is saved according to the Event Record setup of the channel (Video size, Recording quality, Frame rate, Pre-Alarm, Post-Alarm).

Note

Even in case of an event, Event Recording will not start unless Event Recording or Schedule/Event recording is selected in the Schedule Recording.

Warning

If the work that has to stop the recording(Time change, File delete, HDD connect/disconnect etc.) is performed during the recording, the current recording stops.

7-2

SHR-2040/2041/2042 USER'S MANUAL

Event Recording

- Alarm Detection Sensor operation mode in Alarm of Event Record menu shall be set to N.O (Normal Open) or N.C (Normal Close).
- Motion Detection Motion detection in the Event Recording menu shall be set to On.
- Video Loss Detection Video Loss in Event Record menu shall be set to On.
- Event Recording Mode Sets the recording type when an event occurs. In particular, depending on PreAlarm Off or PostAlarm Off, PreAlarm or PostAlarm Recording is disabled respectively.

Warning

If the work that has to stop the recording(Time change, File delete, HDD connect/disconnect etc.) is performed during the recording, the current recording stops



Chapter 8 Search and Play

8

Before Use

SEARCH		SAMSUNG
Calendar		
Event		
Date / Time	_	
Go to First		
Go to Last		
Backup	_	
Move/Control	🖬 Select	Search Exit

- Pressing the "SEARCH" button shows Search Menu on the screen as seen above.
- Calendar Search searches a video file by the use of a calendar at the desired time.
- Event Search searches a video file recorded by the occurrence of event.
- Date/Time Search searches a video file by the entering of a day and time.
- "Go To First" searches a video file from the oldest one.
- "Go To Last" searches a video file from the latest one.
- Backup Search searches backed-up video file.
 Searches the backup video of backup device connected with the set.

Note

During Event Recording, the Search or Play button has no power to let you enter the Search mode. On entering the Search mode, (()) will appear.

Calendar Search

C⊦	і 1 🔽 Сн	2 🗌 Сн	з 🔲 Сн	4			
			2	2004 ()3		
	Sun	Mun	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5	6
		8	9	10	11 🗸	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31			
ل ا	23.			, , , , , , , , , , , , , , , , , , , ,	14 15 16	17 18 19	20 21 22

- Be sure to select both the channel and the date to search. And press the [Start] button to search for the desired time.
- Use a calendar to search the video file of desired time. Four channels in maximum are in the range of search.
- Select the channel up to 4 by the use of ◀, ► and Enter button. And then the date column will be displayed in thick blue when it has a video recorded in the channel.
- Use the ◀, ► button until you reach the Year/Month setup line and use both buttons and the "Enter" button to select Year/Month.
- If you select a day by the [Enter] button, a checkbox will appear on the right of the date number and the checkbox will be checked.
- Use the ▼ button until you reach the Time bar and move to the time you want with the
 ↓ button, and then press the Enter button to select a time.
- If you want to start the search, press the [Start] button. And press the [CANCEL] button to move to the previous menu.
- You are able to search every 30 minutes.

8-2

Event Search

	nt Search (Can Select	, —
СН 1 🗹	сн 2 🔲 сн 3 🛄 сн 4 🛄	
No.	Date / Time	Event Mode
18 🗹	2004-03-11 09:40:40	Motion Recording
17 🗖	2004-03-11 09:40:40	Motion Recording
16	2004-03-11 09:40:40	Motion Recording
15	2004-03-11 09:40:40	Motion Recording
14	2004-03-11 09:40:40	Motion Recording
13	2004-03-11 09:40:40	Motion Recording
12	2004-03-11 09:40:40	Motion Recording
11 🗖	2004-03-11 09:40:40	Motion Recording

- Searches Normal Recording, Schedule Recording, Alarm Recording, Motion Recording, and V.Loss(Video Loss) Recording by the time.
- You shall select a channel to search to see the event information of the channel.
- On the basis of event information for each channel, the system searches a video file for the event. Only one channel is allowed for video search.
- If you use both the [Enter] button and the ◄, ► button key to select a channel, the system will show the list of event for the selected channel only.
- After channel selection, you can use the ◄, ► [Enter] button to select an event out of the list. The checkbox on the left of the selected event number will be checked.
- If you want to start the search, use the ▼ button until you reach [START] and press the [Enter] button. If you want to cancel the search, move to the [Exit] and press the [Enter] button. If you wish to view the event list of the next screen, select [NEXT] and press the [Enter] button and if you wish to view the event list of the previous screen, select [PREV] and press the [Enter] button.

Date/Time Search

1 2004-03-10 08:38:59 2004-03-11 09:43:51 2 2004-03-10 08:38:59 2004-03-11 09:43:51 3 2004-03-10 08:38:59 2004-03-11 09:43:51 4 2004-03-10 08:38:59 2004-03-11 09:43:51	Cam	Start Date / Time	End Date / Time
3 2004-03-10 08:38:59 2004-03-11 09:43:51	1 🗸	2004-03-10 08:38:59	2004-03-11 09:43:51
	2 🔲	2004-03-10 08:38:59	2004-03-11 09:43:51
	3	2004-03-10 08:38:59	2004-03-11 09:43:51
	4	2004-03-10 08:38:59	2004-03-11 09:43:51

- Use the Day/Time information to search a video file at the time as you desire. Up to 4 channels can be searched at once.
- After you select a channel with the ▲, ♥, [Enter] button, the checkbox on the right of selected event number will be checked.
- Use the ▼ button until you reach the Search Time setup line. Press the [Enter] button to change the search time. Search Time change will be done by the Year/Month/Day/Hour/Minute/ Second unit with the ▲, ▼, button. For your convenience, you may hold on a key to change the value continuously.
- If you want to start the search, use the ▼ button until you reach [START] and press the [Enter] button. If you want to cancel the search, move to the [CANCEL] and press the [Enter] button.
- The time information, 2005-03-10 08:38:58 on the bottom left corner, represents the time when play starts.

8-5

Go to First Search

1 2005-03-10 (
2003-03-10	08:38:59
2 2005-03-10 0	08:38:59
3 🗖 2005-03-10 (08:38:59
4 2005-03-10 0	08:38:59

- Searches the oldest one among recorded video files. Up to 4 channels can be searched at once.
- After you select a channel with the ▲, ▼, [Enter] button, the checkbox on the right of the selected channel number will be checked.
- Press the [Start] button want to start the search and to cancel. And press the [Cancel] button to cancel the search.

Go to Last Search

1 J 2005-03-11 09:43	
	3:51
2 2005-03-11 09:43	3:51
3 2005-03-11 09:47	7:34
4 2005-03-11 09:43	0.54

- Searches the latest one among recorded video files. Up to 4 channels can be searched at once.
- After you select a channel with the ▲, ▼,[Enter] button, the checkbox on the right of the selected channel number will be checked.
- Press the [Start] button want to start the search and to cancel. And press the [Cancel] button to cancel the search.
- If you start Go To Last Search during recording, the system will search the video image right at the time of entering Search.

Backup

Backup	Search(Can Select 1 Event)
No.	File Name
1 ⊻	20050302/1104
2 🗆	20050303/1412
3 🗆	20050304/1645
4 🗆	20050304/1705
5	20050304/1905 👻
• File N	lame : 20050302/1104
	Time: 2005-03-02 11:04:34
	īme : 2005-03-02 11:05:56
• Chan	nel Info : 1, 2, 3, 4
	2005-03-02 11:04:34
	Prev Next Start Exit

- First, select the backup device.
- Mark the data of device.
- Select the file name to backup, and the detail information of a file is displayed in the below.
- The [Previous] button shows the previous page.
- The [Next] button shows the next page.
- The [Start] button plays the desired file.
- The [Exit] button exits the menu.

Note

8-7

SHR-2042 supports the internal CD-R/W.

Playback

- Press the PLAY/PAUSE button(>/II) to play the data recorded in HDD.
- If you used the SEARCH button for playback just before, the system would remember the information of the played channel until you click the PLAY/PAUSE button(>/II) again, then the system plays the previous channel.
 If you press the PLAY/PAUSE button(>/II), the Search Menu will appear as far as you never tried the playback.

Note

Pressing the PLAY button(\blacktriangleright/II) does not affect the playback as far as the user stays in the MENU. Be sure to exit from the MENU to start the playback.

Press the STOP button(
) to stop the playback. If you press the Playback/PAUSE button(
 /II) once more, the recording will resume from the point where the previous recording stops. When the data position reaches the end of HDD during the playback, the playback will be paused.

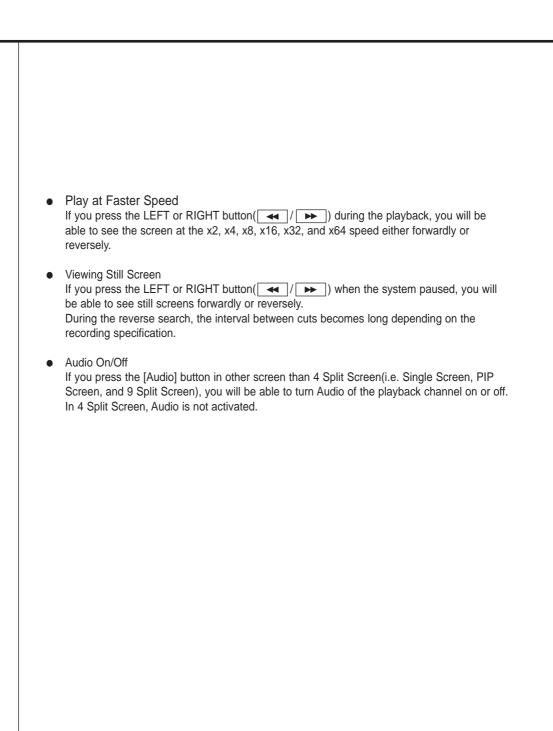


SHR-2040/2041/2042 USER'S MANUAL

8-9

Definition Play Screen Mode

4 Split Screen	Single Screen	PIP Screen	6 Split Screen	9 Split Screen
 2 Single Screen : 3 PIP Screen : 	If you select more the This appears when y [CH1~CH4] button in with the single screet selected area will be the use of direction If you press the Moo appear(The large sc on the bottom right and DOWN key to m press the [ENTER] I press the Channel be the live screen.	you select one char in the other split scre en. If you press the e enlarged by twice. key. de button while the creen displays the cl corner displays a Lin nove small PIP scre button, a blue bar w putton, you will be al	anel in Search. If yo een, the selected ch ZOOM button in the And you can move single screen plays, hannel in play while ve channel in PIP ty een (Live Channel) v ill appear in the live ble to turn to the ch	u press the annel appears e single screen, the the zoom area by PIP Screen will the small screen ype). Use the UP vertically. If you annel selected by
④ 6 Split Screen :	If you press the Moo The single screen in screens are displayed	n playing is displaye	d at the top of right,	
5 9 Split Screen :	If you press the Moo The 4-split screen in screens are displaye	n playing is displaye	d at the top of right,	





Chapter 9 **Smart Viewer**

9

9-1

Introduction

Smart Viewer is a program that a general PC user is able to install SHR-2040/2041/2042 to his PC to monitor the video and audio data in the real time through network without going to the site where SHR-2040/2041/2042 is installed.

Feature

- Thanks to the transmission of video data compressed by the MPEG-4 Video Compression method, it can play the video images of good quality.
- Thanks to the G.726 Voice Compression method, it supplies the voice data of good quality. Use of armored MIC improves the quality of remote voice.
- Thanks to the transmission of video/audio stream through RTP(Real-Time Transport Protocol), the real-time video playback is excellent and multi-users' simultaneous connection does not affect the transmission speed in whole abruptly.
- Command & Control by RTSP(Real-Time Streaming Protocol) enables safety control through the network.
- Variable transport protocols are supported (TCP/IP, UDP(Unicast, Multicast)).
- Connection is open to you at any time to monitor video and audio data by inputting IP Address only.
- You can not only perform real-time recording(*.dvr format) with User's PC whereas necessary during the monitoring but also convert recorded video files(*.dvr format) into frame unit images((JPEG format).
- Up to 3 Smart Viewer users are allowed to connect to a DVR simultaneously. (If the multicast is used, up to 6 users can connect.)
- With a Smart Viewer, you are allowed to connect to as many as 9 SHR-2040/2041/2042s to monitor them simultaneously.
- Smart Viewer is optimized in the resolution of 1024X768.

PC Specification(Recommendation)

- OS : Win98SE, WinMe, Win2000, WinXP
- Recommendation : CPU Pentium 3 1GHz or higher RAM 256 MB or higher VGA RAM 32Mb or higher DirectX 8.1 or higher

Note

9-3

Depending on Recording Rate, Video Size, and user's PC specification set to SHR-SHR-2040/2041/2042, the number of Smart Viewer playback frame varies. For the detailed specification, refer to Appendix 5.

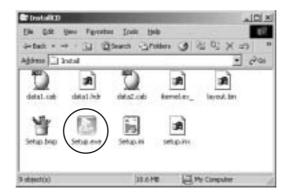
Smart Viewer Installation

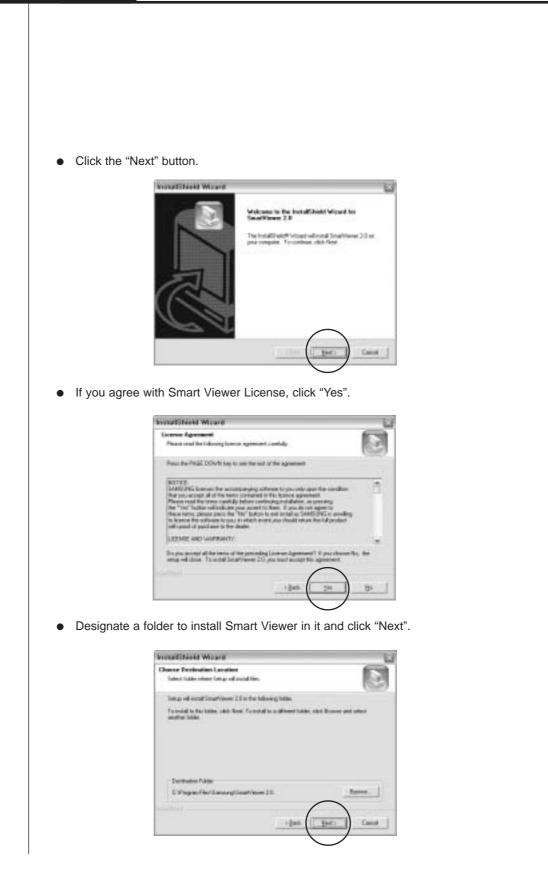
Smart Viewer Installation

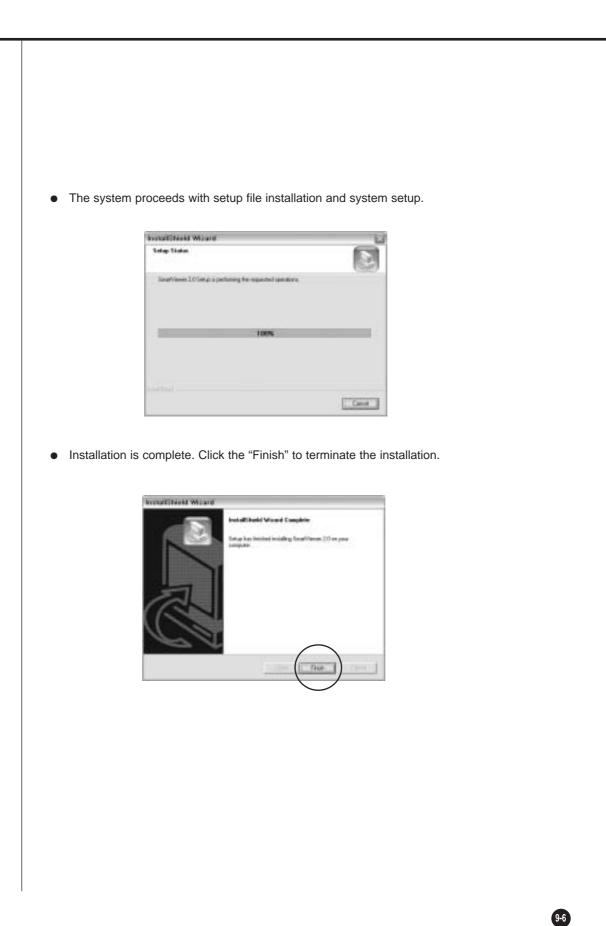
• Put a Smart Viewer Program CD in CD-ROM and open the "Smart Viewer" folder in the CD.

States and a state of the second states of the seco	Search -3roker	• 3 近近天日	Ļ.
Agbers Dutal	100	20	90
(Smart) Menuals	Sadup Verer		

• Run the "Setup.exe" file.







9-7

Smart Viewer Program Execution

• Double-click the Smart Viewer icon in the background screen to run the program.



Smart Viewer Initial Screen

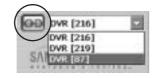
2				na witheway got for Projection
3003.00.00.00.00 ТС 3 РН 02:16.16	annan a	Commen	Contractor	
6 Canan	umaci)	Courses	ummin)	(anana
	mumo	5	(Comment	Coince
The second secon	Commony	Gamma	Corner	Gunner
		10		

Screen Description

- ① This is the button to enter the Search mode in which you can search and play remote the video file recorded in SHR-2040/2041/2042 and enter the Monitoring mode for real-time video monitoring.
- This button terminates or minimizes the program.
- ③ It displays the current date, day, and time.
- ④ This button is used for the connection with the preset DVR(SHR-2040/2041/2042) or site.
- (5) This screen shows the monitoring video.
- (b) These buttons select the window displays the event message and the window displays the connection condition of camera.
- ⑦ This window displays the event message from SHR-2040/2041/2042 in the real-time.
- (8) These buttons display the status of current channel.
- In the set of the s
- 1 These buttons are used for PTZ related functions.
- (1) These buttons are used for screen split and Sequence Mode.
- 1 This button is used for the connection Callback.
- (1) This button is used for Favorite function when connecting to the site.
- (i) This button pops up the Setup Mode window to change Smart Viewer or SHR-2040/2041/2042 setup. (Refer to 9-30. Setup Mode.)

Monitoring Mode

- DVR(SHR-2040/2041/2042) / SITE Connection
 - Select the name of DVR(SHR-2040/2041/2042) or site for connection and click the connection button.



Note

You can set the name, IP, and password of DVR(SHR-2040/2041/2042) for connection in the Setup mode. Also, the site setup which permits simultaneous connection to multi-DVRs(SHR-2040/2041/2042) is available in the Setup mode. You are allowed for the simultaneous connection with no more than 9 DVR(SHR-2040/2041/2042) as you approaches at the site.

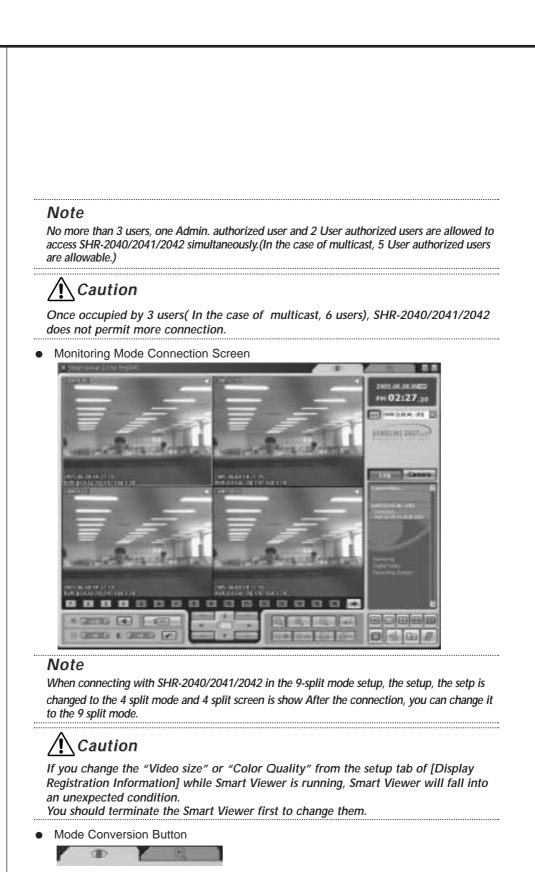
- Connection Failure Cases
 - 1. Password Certification Failure



- In case of discord between the Network password set to SHR-2040/2041/2042 and the connection password set to Smart Viewer, a window pops up to induce retry of password input.
- 2. Admin User Connection Failure



- Where SHR-2040/2041/2042 that you wish to connect to has been already occupied by other user in an Admin authority, you are authorized with access to SHR-2040/2041/2042 concerned in a User authority.



- This button converts the monitoring mode and the search mode.

`9-10`

•	Time Information
	2004.02.04.HED PM 05:03.33
	 As soon as you are connected to SHR-2040/2041/2042, the current date, day, and time of SHR-2040/2041/2042 will be displayed. Otherwise, the current date, day, and time of your PC will be displayed.
•	Connection Information
	DVR [static]
	 As soon as you are connected to SHR-2040/2041/2042, the connection button will display connection status. If you click the connection button here, connection will be cancelled.
•	Play Screen OSD Information
1 2	Channel no., camera name, and video size will be displayed. Video Size : (C)CIF / (N)Normal / (L)Large If the Video data of the current channel are recorded in your PC, REC mark is displayed.

- ③ Audio ON/OFF Button is displayed.
- ④ The name and IP address of SHR-2040/2041/2042 in connection are displayed.
- (5) The current channel alarm status is displayed.
- (6) The controllability of the current channel PTZ is displayed.

Note ③ Clicking the speaker icon turns the audio of channel on or off. i Audio OFF it : Audio ON If you turn the audio of a SHR-2040/2041/2042 channel off, "Disable" will be displayed. of a contract of the second se * For the Audio on channel now, use the following audio button to adjust the volume and set the mute. Note (5) the alarm or motion detection occurs at the channel of SHR-2040/2041/2042, which is set to alarm or motion detection, it is displays on the screen in the real-time with an icon. 1 : Motion Detection Alarm Event Note

(6) If you connect and set up PTZ Camera in SHR-2040/2041/2042, PTZ controllability for the channel will be displayed.

* Select a channel capable of PTZ and use the PTZ button at the bottom to control PTZ. (Refer to the description of PTZ button.)

Event Log Display Window



- Click the Log button to activate the log display window.
- It displays the event(alarm, user connection, and setup change) occurring at SHR-2040/2041/2042 in the real-time.

Note

[Event Message]

- ► Connecting.. : Trying to connect to SHR-2040/2041/2042.
- Connected.: Succeeded connecting to SHR-2040/2041/2042.
- ► Connection Failed : Failed in connecting to SHR-2040/2041/2042.
- ▶ Disconnected.. : Finished connecting to SHR-2040/2041/2042.
- ▶ Setup(Remote) : SHR-2040/2041/2042 setup at Dvr Setup of Viewer changed.
- ► Setup Start / End (Local) : Start/Finish the Menu screen at SHR-2040/2041/2042.
- Video Loss CH[N] : Video Loss at the N channel of SHR-2040/2041/2042 encountered.
- ► Alarm Detection CH[N] : Alarm issued at the N channel of SHR-2040/2041/2042.
- ▶ Motion Detection CH[N] : Motion detected at the N channel of SHR-2040/2041/2042.
- Time Change : Date/Time of SHR-2040/2041/2042 changed.
- ► Load Factory Default : SHR-2040/2041/2042 System initialized.
- ▶ Network Change : SHR-2040/2041/2042 Network setup changed.
- System Shutdown : SHR-2040/2041/2042 System terminated.
- ▶ Hdd Format : SHR-2040/2041/2042 HDD initialized.
- ▶ Disk Full : No more space in SHR-2040/2041/2042 HDD.
- ▶ Power Failure Recovery : SHR-2040/2041/2042 resumed after power failure.
- Backup Start/End/Fail/Stop : Backup at SHR-2040/2041/2042 started/finished/failed/stopped.
- ▶ Network Traffic Busy : Data transport in the network is not smooth.
- Access Denied(Limit Over) : Over connection.

A Caution When Time Change, Load Factory Default, Network Change, System Shutdown, or Hdd Format event occurs, Smart Viewer terminates the connection automatically. Camera connection Indication Window DAM.D DM IS DAM, DB - Displays the connection condition of DVR and CAMERA in the list. Note [DVR Icon Color] ▶ Successfully connected to SHR-2040/2041/2042, the icon turns yellow, otherwise, turns black. [DVR Icon Color] ► Connected to CAMERA for monitoring, the icon turns yellow. ► Connectable, the icon turns blue, otherwise, turns black.

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Screen Split Selection Button

			田	田	■
--	--	--	---	---	---

- Small Sized Single / Single / Quad / Nine-Split Mode Sixteen-Split Mode
- You can change the Split Mode of the screen under monitoring.
- Sequence Mode Button

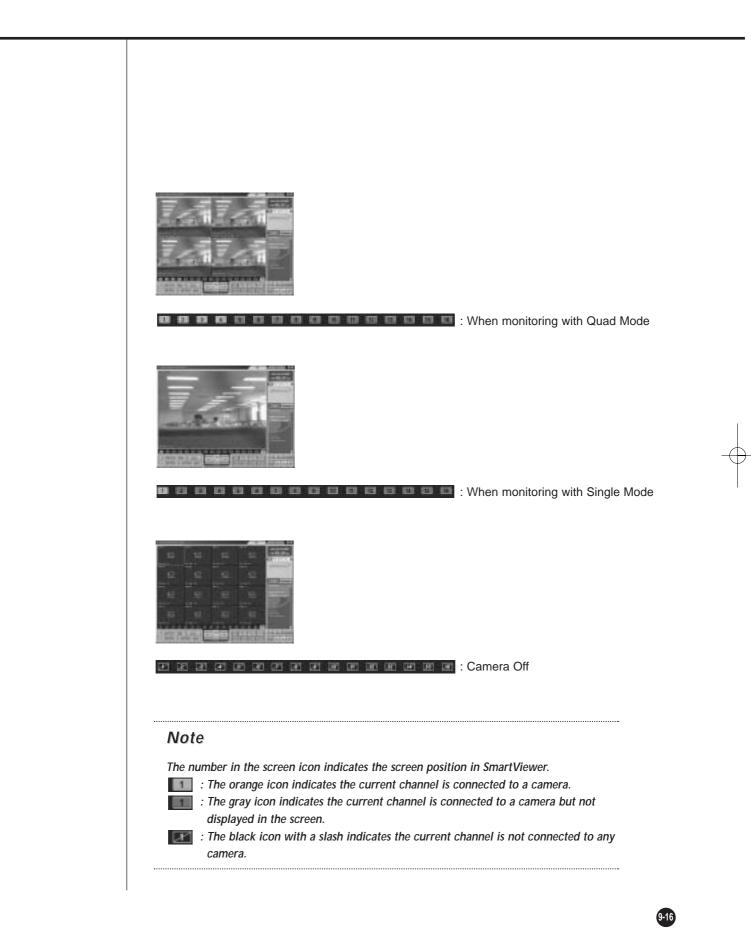


- Changes the channel to be played at the preset interval.
- The sequence time interval can be set at the Setup Mode?Viewer Setup.
- In Single Mode : 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 1 (CH)
- In Quad Mode : 1,2,3,4 → 1,2,3,4 (CH)
- In Nine-Split Mode : 1,2,3,4 -> 1,2,3,4(CH)
- In Sixteen-Split Mode : 1,2,3,4 → 1,2,3,4 (CH)

Note

If you connected with multi-DVRs(SHR-2040/2041/2042) through a site, the sequence will operate as follows.

- In Single Mode : DVR1:3CH $\rightarrow ... \rightarrow$ DVR1:4CH \rightarrow DVR2:1CH $\rightarrow ... \rightarrow$ DVR1:1CH
- In Quad Mode : DVR1:1,2,3,4CH → ... → DVR2:1,2,3,4CH → ... DVR3:1,2,3,4CH
- In Nine-Split Mode : DVR1:1,2,3,4CH → DVR2:1,2,3,4CH →... DVR3:1,2,3,4CH
- In Sixteen-Split Mode : DVR1:1,2,3,4CH → DVR2:1,2,3,4CH → DVR3:1,2,3,4CH
- Monitoring screen condition Information / Selection Button
 - Displays the Split or Monitoring condition of the screen in play.



NEXT Button



- Click the NEXT(Mouse Left Button) to see the channel next to the current channel.
- In Single Mode : 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 1 (CH)
- In Quad Mode : 1,2,3,4 \rightarrow 1,2,3,4 (CH)
- In Nine-Split Mode : 1,2,3,4 \rightarrow 1,2,3,4 (CH)
- In Sixteen-Split Mode : 1,2,3,4 →1,2,3,4 (CH)

Note

If you connected with multi-DVRs(SHR-2040/2041/2042) through a site, the sequence will operate as follows.

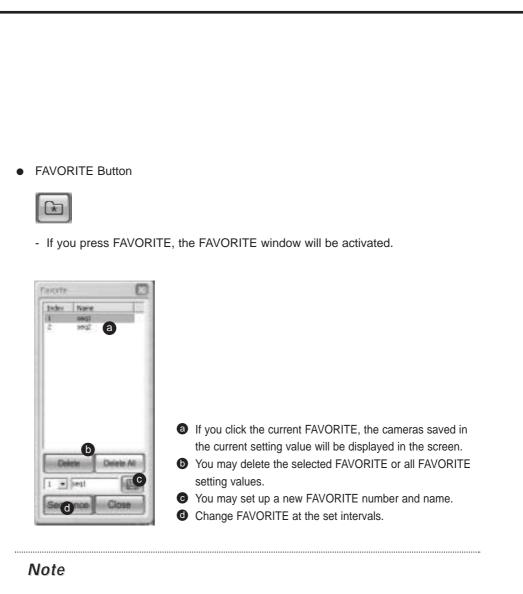
- In Single Mode : DVR1:3CH $\rightarrow ... \rightarrow$ DVR1:4CH \rightarrow DVR2:1CH $\rightarrow ... \rightarrow$ DVR1:1CH
- In Quad Mode : DVR1:1,2,3,4CH $\rightarrow ... \rightarrow$ DVR2:1,2,3,4CH $\rightarrow ...$
- In Nine-Split Mode : DVR1:1,2,3,4CH → DVR2:1,2,3,4CH → DVR3:1,2,3,4CH
- In Sixteen-Split Mode : DVR1:1,2,3,4CH \rightarrow DVR2:1,2,3,4CH \rightarrow DVR3:1,2,3,4CH ...

CALLBACK Button

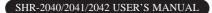


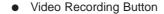
- If you press CALLBACK, the CALLBACK window will be activated to receive messages.
- Receiving a message, Smart Viewer automatically tries to contact a DVR.
- In the event of Video Loss, Alarm, or Motion Detection, a message is received.

[182,368,1.20]	- 0
Video Loss (H[2]	. 11
Mon Peb 7 09:05:25 208	9
[192.368.1.20] Hideo Loss CH[3]	
Mon Peb 7 08-05-28 208	- 11
[182.368.1.20]	211
Hideo Loss CH[4]	
Mon Feb. 7 08:08 25 208	s. 18
T 182, 968, 1, 20]	1
Holeo Latar (24(5))	
Mon Feb 7 09 05 25 208	6
[192.168.1.20]	
Hideo Loss CH[8]	
Mon Feb 7 09 (05-26 208	6 (j)
[192.368.1.20]	
Hideo Loss CH[7]	
Mon Feb 7 09:05:25 208	5. II.
[192.366.1.20]	
Holes Loss CH[1] Mon Peb 7 09-05-25 208	
[192.568.1.20]	9.
Rdeo Loss CHER	
Mon Peb 7 09 08 25 208	
[182.960.1.20]	
Rideo Loss CH(10)	- 62



- The FAVORITE button is available only when you contact SITE.
- The FAVORITE information setting value is saved in the Config file even after you are away from the SITE.
- If you change the DVR list composing the SITE from Setup, the FAVORITE setting value will be initialized





10.00

If you select a channel in the playback and click the "Save" button, the video will be saved in a file format with the extension of *.dvr in a designated folder of your PC.

- The name of the directory in which an image will be saved, the file name, and the image save length shall be set up at the Setup Mode → Viewer Setup.
- The video length to be saved can be set from one minute to 10 minutes.
- The saved video can be played in the Local mode of Search mode.
- Click the button again to stop recording. However, manual suspension is prohibited for 10 seconds after recording started.
- Audio Volume Control Button



- You can control the audio volume of channel in the playback or set to mute for it.
- You can adjust the audio volume from 0 to +10.
- Video Brightness/Contrast Control button



- Select the channel in the playback and use the control button(+,-) to adjust the brightness or contrast of video.
- The default value is set to +5.
- You can adjust the brightness or contrast from 0 to +10.
- Press the **second** button to recover the default value.

Note

The adjusted Audio volume, brightness, and contrast values will be saved in your PC and remain unchanged even if you terminate Smart Viewer and restart it.

* OS of Windows 98 or ME do not support this Brightness/Contrast function.



-	1000	and the second
	0.01	*
-	- v [-

- Select a channel connected to PTZ Camera to control PTZ related functions.

- PAN Left / Right
- TILT Up / Down
- Diagonal Control
- The channel under PTZ control will be displayed in the center of the button.



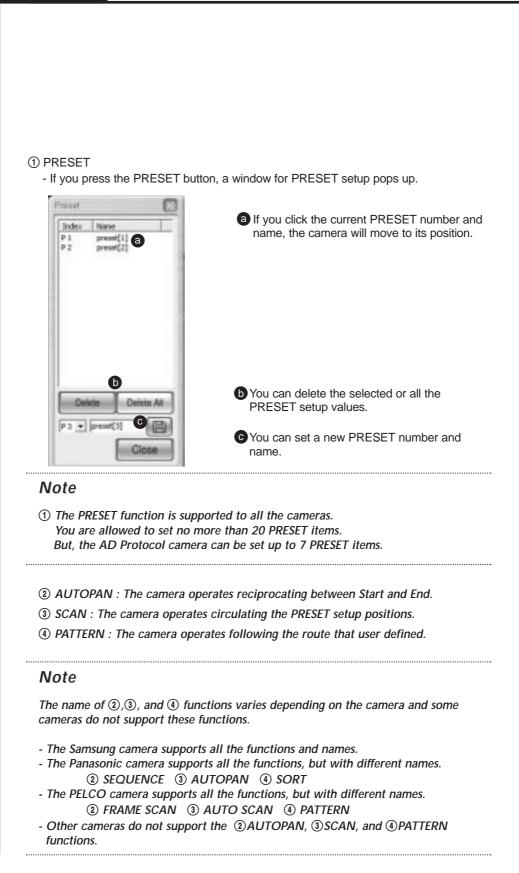
12 ZOOM IN / OUT

- ③ POWER ZOOM : Click P button to activate POWER ZOOM.
 - POWER ZOOM is a function to zoom in or zoom out the video screen by clicking the screen.
 - After POWER ZOOM is dominant, ZOOM IN / OUT will zoom in or out the video screen.
 - POWER ZOOM Operation Procedure : Click POWER ZOOM \rightarrow Select ZOOM IN or OUT \rightarrow Click ZOOM IN or OUT zone in the video screen \rightarrow ZOOM IN / OUT will be activated in the clicked zone.

Note

The PAN / TILT / ZOOM function is supported to all the cameras. But, POWER ZOOM is supported only by Samsung Smart Dome Camera, and assured to the operation of TILT below 45°.





Self Menu Setup of PTZ device



① You can set the function menu in the PTZ camera.



- ① This is a Menu screen supplied by the camera itself, seen from Viewer.
- ② Use the $\uparrow/\downarrow/\leftarrow/\rightarrow$ button for the movement between menus.
- 3 This is a button for the role of Enter.

Note

The Camera Menu Setup function is supported by Samsung and Panasonic camera only.

\land Caution

As far as SHR-2040/2041/2042 uses the PTZ camera control functions, Smart Viewer can not control PTZ Camera. The PTZ Camera control functions can be used by the user with Admin authority.

Search Mode

- The initial screen of search mode
 - The search mode is divided into the remote mode to search and play the SHR-2040/2041/2042 video and the local mode to play *.dvr file saved in the directory designated by your PC.

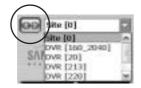


- To change to the search mode for the remote control of video recorded in SHR-2040/2041/2042.
- To show the playback video.
- ③ To change to the remote mode for the transmission of video recorded in SHR-2040/2041/2042 through network.
- ④ To change to the local mode for the playback of *.dvr files recorded in your PC.
- (5) Calendar window to select "Year/Month/Day" for search.
- (6) To control the audio volume and video brightness/contrast.
- To change the screen split.
- (8) Button for the Record / Convert File / Print / Setup functions.
- (9) To control the playback of searched video.
- 10 To display the next channel in order.
- ① To change the channel and DVR or renew the calendar window and Time Line.
- Timeline to display the time information of search date recorded in SHR-2040/2041/2042.

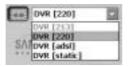
Note

- When connecting to the site, select a DVR to search in the camera connection list.
- When connecting as a user, you are denied to access the search mode.

DVR(SHR-2040/2041/2042) Selection/Change by contacting SITE
 Same as "DVR(SHR-2040/2041/2042)/SITE Connection" of the monitoring mode.



- DVR(SHR-2040/2041/2042) Selection/Change by contacting SITE
 - Select SHR-2040/2041/2042 from the Contact list.
 - SHR-2040/2041/2042 turns black if contacted with the ADMIN authority and turns gray if contacted with the USER authority.
 - Without the ADMIN authority, search is not accessible.

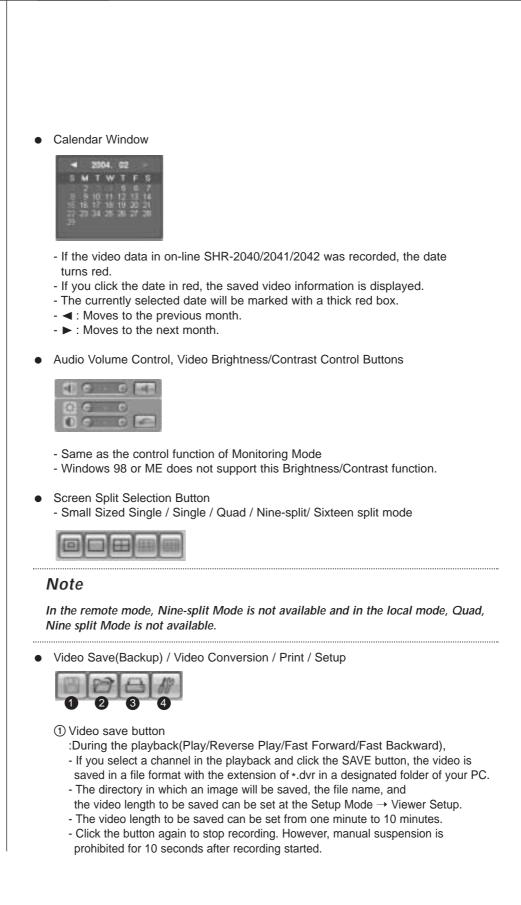


- Remote Mode
 - This mode transfers the video data recorded in SHR-2040/2041/2042 by network for the playback.
 - Up to 4 channels are allowed for simultaneous search and playback.
 - The video information at the time indicated by the timebar will be displayed in the playback screen.



When clicking, it changes to the remote mode.





(2)	Back	up	But	ton
-----	------	----	-----	-----

- If not playback(Stop), the video save button performs the backup function.

Backup	
Channel :	01 ch
Camera Name	CAM_01
Date :	2005. 06. 08
Start Time :	00 • h 00 • m 00 • s
End Time :	00 • h 00 • m 00 • s
File Type :	C AVI Re C AVI Re
	e%.
	Start Stop Close

- If the save button is pressed, the window for backup pops up.
- Set a Start/End tome for backup and select a file format to save.
- The backup starts when the "Start" button is clicked. The backup file is saved according to the setting route; Setup → Viewer Setup → Video Recording → Video Location.
- To stop the backup, click the "Stop" button.

Note

Video saving in the remote mode is available only when the Play/Reverse Play/Fast Forward/Fast Backward button remains pressed down.. The backup function in the remote mode is available at the Stop status.

③ File Converting Button

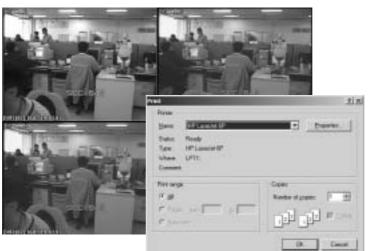
- This function converts *.dvr files into "*.jpg" files.

(NW PRO)		(Com
	# 3PEG Prame C Joid Video	
Quest 1		

- Click the "Open" button to select a *.dvr file to be converted.
- Select the JPEG Frame or AVI Video.
- If the JPEG Frame is selected, the file is converted into the "*.jpg" file by clicking the "Start" button. The converted "*.jpg" file is saved according to the setting route Setup → Viewer Setup → File Converting → Jpeg Location.
- I f the AVI Video is selected, the file is converted into the "∗avi" file by clicking the "Start" button. The converted "∗.avi" file is saved according to the setting route Setup → Viewer Setup → File Converting → AVI Location
- Press the "Start" button to convert it to a *.Jpg file. Press Setup → Viewer Setup → File Converting to save the converted *.jpg file.
- Click the Stop button to pause the file conversion.

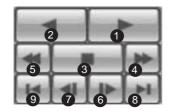
④ Print

- This function outputs the screen zone of the playback video which is now being displayed.

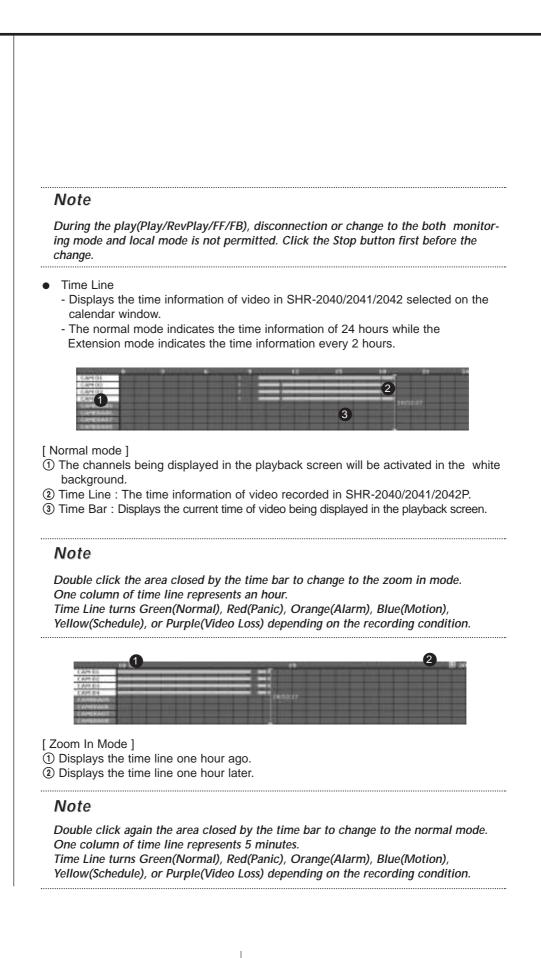


(5) Setup Mode Button

- This button pops up the setup mode window.
- Play Buttons



- 1 Play : Play
- ② Reverse Play : Reverse Play
- ③ Stop: Stop
- ④ Fast Forward : Faster Play
- (5) Fast Backward : Faster Reverse Play
- (6) Step Forward : Forward playback per second.
- ⑦ Step Backward : Reverse playback per second.
- (1) Go to First : Playback of the first image in the time Line
- (9) Go to Last : Playback of the latest(last) image in the time Line



Next Button

-

- Changes the channel as the Next button does in the monitoring mode.

Note

During the video playback(Play/RevPlay/FF/FB), the channel change is not available.

Reload Button



- Updates the record time information in the calendar window and time line.

- Local Mode
 - Plays *.dvr file saved in the directory of your PC by the Record function.
 - You can search and play only one channel.
 - You are allowed to access it regardless of connecting with SHR-2040/2041/2042.
 - Other functions than the calendar display function are as same as those of the remote mode.
 - The time information of LocalFile will be displayed at the first channel position in the time line together with the file name.



: Selects a file to be played in the file selection window and changes to the local mode.

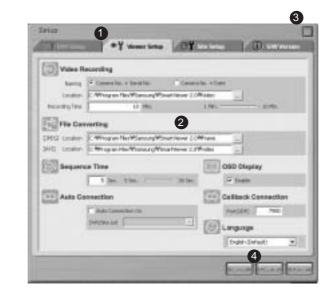


Note

Only the *.dvr file saved by the audio activation can be played in the local mode.

Setup Mode

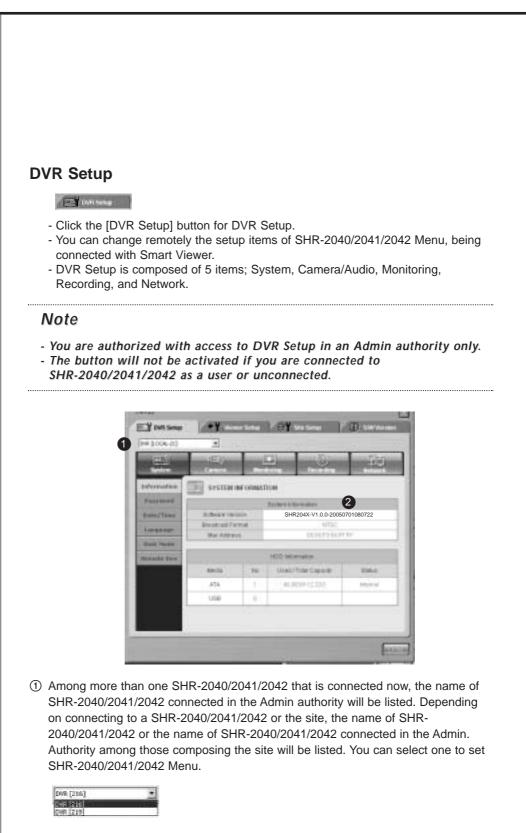
Initial Screen



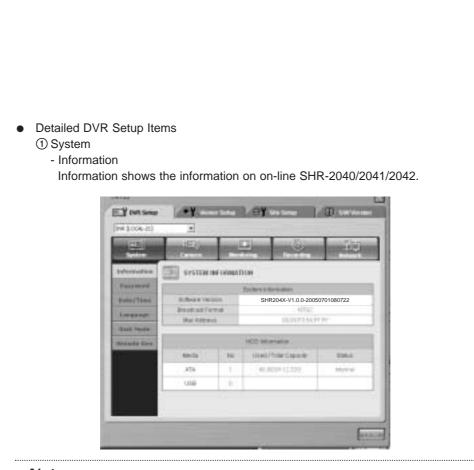
- Button to select items for DVR Setup, Viewer Setup, Site Setup, and S/W Version setup.
- It shows what the selected Setup item can set up in detail.
- ③ button to terminate the setup window.
- ④ Button to save the information revised in the setup window, remark the information prior to such a revision, or terminate the setup window.

SHR-2040/2041/2042	USER'S MANUAL
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•	Setup Item Selection Button
	Y viewer Setap @Y Set Venue () SAVANCED
	 It is used for the selection of each setup item. It is composed of 4 items- DVR Setup, Viewer Setup, Site Setup, and S/W Version.
	- DVR Setup: Allows you to change the remote menu setup items of SHR-2040/2041/2042.
	- Viewer Setup : Allows you to set the various kinds of item concerning the operation of Smart Viewer.
	- Site Setup : Allows you to set SHR-2040/2041/2042 information, that is SHR-2040/2041/2042 name, IP Address, ID, and Password that you are going to contact through Smart Viewer or registers all the registered SHR-2040/2041/2042s at a site for control.
	- S/W Version : Shows the current version of Smart Viewer, system requirement, and the System S/W version of on-line SHR-2040/2041/2042 and upgrades SHR-2040/2041/2042 System S/W remotely.
•	Save/Cancellation of Revised Information
	and the second first second
	- Click the [Apply] button to save the information revised in the setup window and click the [Cancel] button to display the information before such a revision.
•	Closing the setup window
	- Click the [X] icon on the top of right corner in the setup window or click the [Close] button to close the setup window.
	 If more than one setup item have been revised before you close the setup window, the following message box pops up. If you press OK, the revised information will be saved, closing the setup window but if you press CANCEL, the revised information will be flown away, closing the Setup window.
	Setan i system parameters av changed, Mill ynu nave nave paterment T
	Canad



② To display the setup menu for selected SHR-2040/2041/2042.



Note

For the detailed items of DVR Setup, refer to Chapter 5.

- Password

Sets the password for the control of SHR-2040/2041/2042 Menu or SHR-2040/2041/2042 key input.





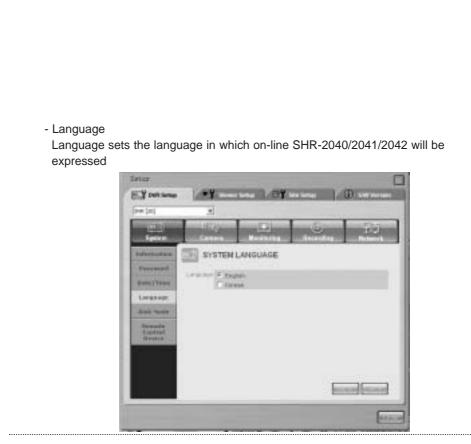
⚠ Caution System Password shall be composed of numeric only, up to 8 digits. Note - The Delete key and the combination of Ctrl+C or Ctrl+V in the keyboard are not supported at the System Password input. - Use the BACKSPACE key to delete the contents. Note Default System Password is set to 4321. - Date/Time Data/Time is used to set the information of Date, Time, Format, and DST for on-line SHR-2040/2041/2042. EY can s DATE/TIME SETUR

Note

- If you change the Data/Time value, SHR-2040/2041/2042 automatically cuts the connection with Smart Viewer to apply the new time setup.
- Upon completing the new time setup for SHR-2040/2041/2042, you are permitted to resume the connection with the Smart Viewer.

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- But, Display Format or DST can be set without the disconnection.

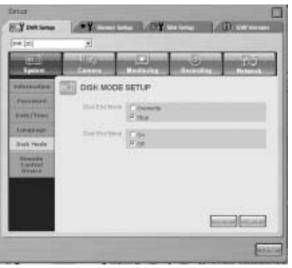


Note

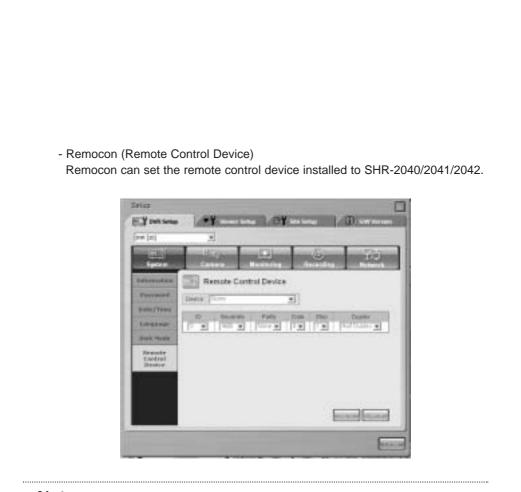
The change of language by the system language results in the change of language expression setup of SHR-2040/2041/2042. In short, the language setup of Smart Viewer does not change.

Language specification to be supported is subject to change later.

- Disk Mode
- In Disk Mode, you can set the writing mode of HDD installed to SHR-2040/2041/2042.







Note

If you install the remote control device to the main body of SHR-2040/2041/2042 and activate the setup, PTZ control is not available in the Viewer.

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2 Camera

- Config.

Config. sets Video, Audio On/Off, Camera Title, and Auto Sequence Time for each channel of on-line SHR-2040/2041/2042.

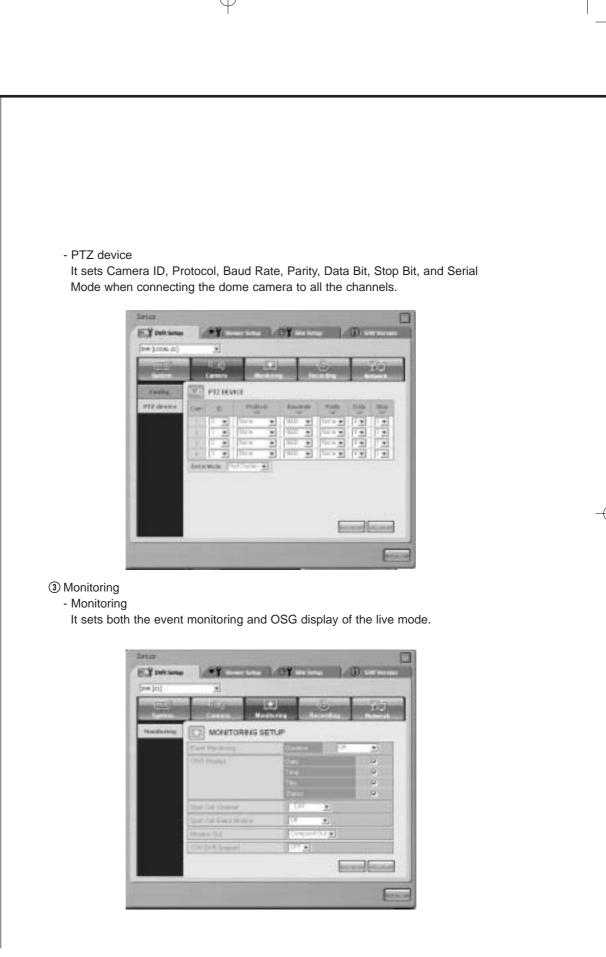
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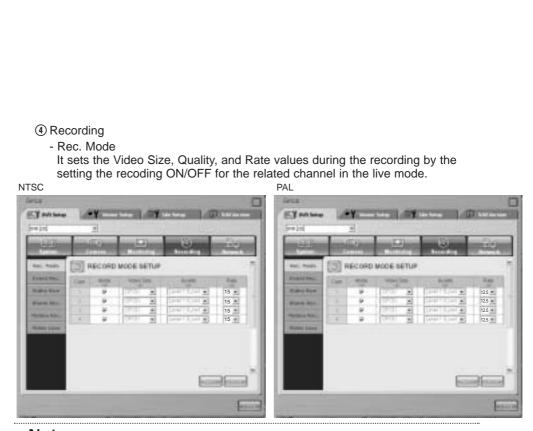
A Caution

- Only English is supported for the title. If you type in and apply the title in your native language, warning message pop sup to ask your retyping.
- The title should be composed of no more than 15 digits.
- If you leave the title blank and apply it, Warning message pops up to ask your retyping.

Note

- The Delete key and the combination of Ctrl+C or Ctrl+V in the keyboard are not supported for title input.
- Use the BACKSPACE key to delete the contents.





Note

Full D1(L) Video Size does not support 15ips, 10ips (NTSC) / 12.5ips, and 8.33ips(PAL) Rate.

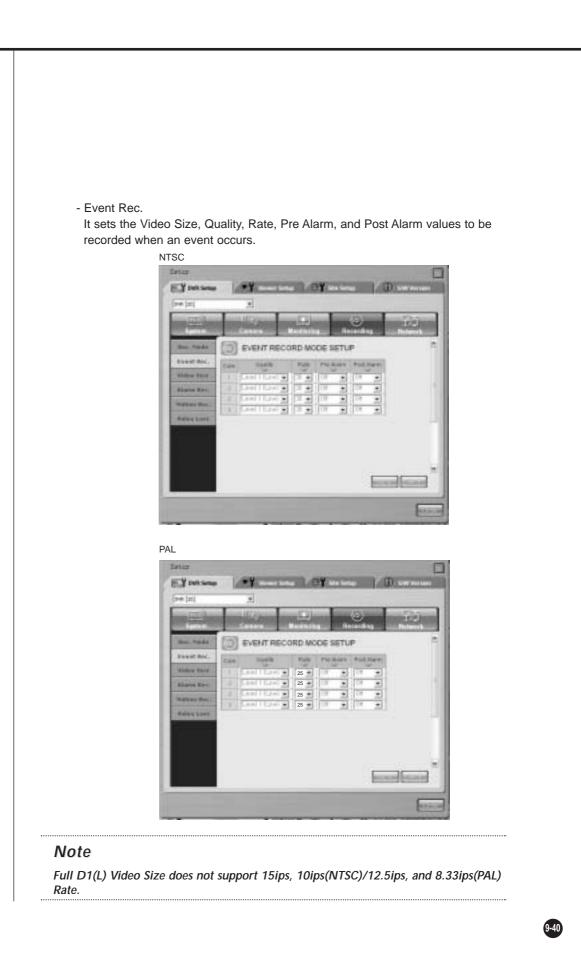
- Video size Rec.

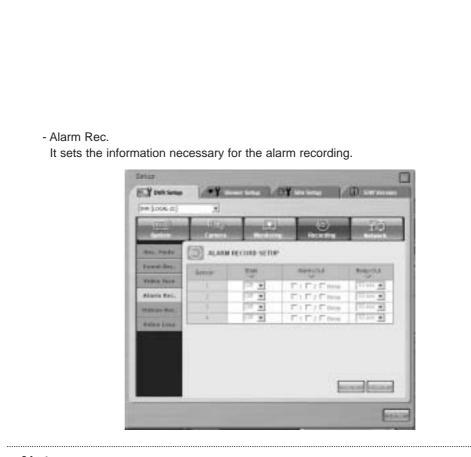
Sets the Video size. The Video size being set in the menu affects to the ips setup of Rec. Mode and Event Rec.

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		Frank Frank

Note

Full D1(L) Video Size does not support 15ips, 10ips (NTSC) / 12.5ips, and 8.33ips(PAL) Rate.

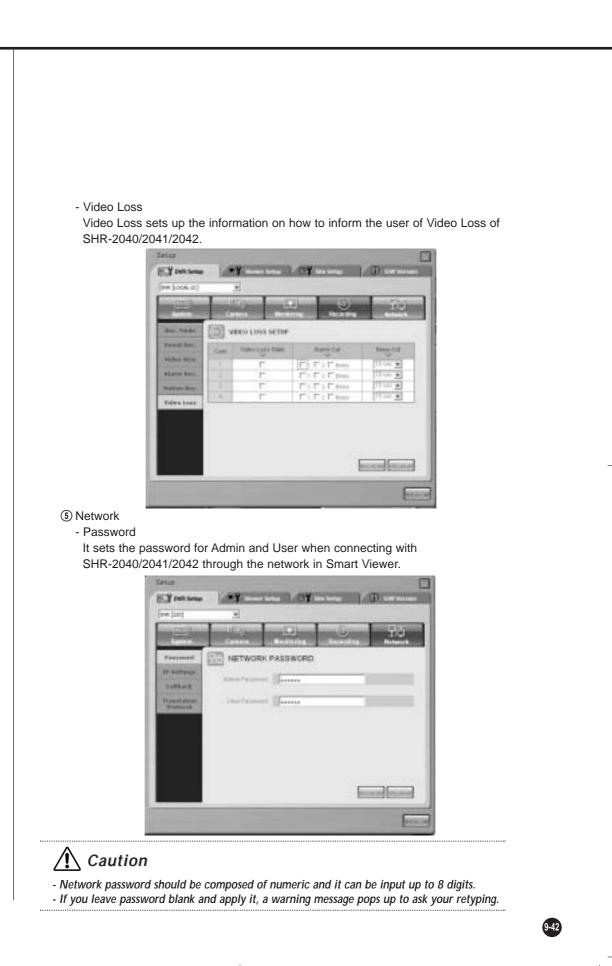




Note

More than one camera should be selected to apply the alarm.

- Motion Rec.
 - It sets the information necessary for the recording by the motion Detection.



Note

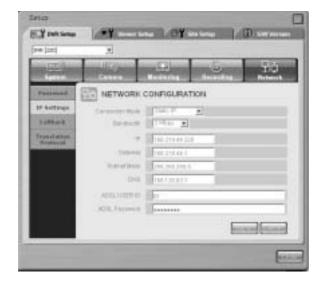
- The Delete key and the combination of Ctrl+C or Ctrl+V in the keyboard are not supported to the network password input.
- Use the BACKSPACE key to delete the contents.

Note

- Default Admin Password is set to 654321.
- Default User Password is set to 654321.
 - IP Settings

It sets the network connection method of SHR-2040/2041/2042. SHR- SHR-2040/2041/2042 supports the connection with Static IP, Dynamic IP, and ADSL(PPPoE). It can set the network bandwidth. Adjust the bandwidth to the network condition in which SHR- SHR-2040/2041/2042 is connected.

It sets the IP Address, Gateway, Subnet Mask, and DNS. Input both ID and password of the sub scriber for ADSL.

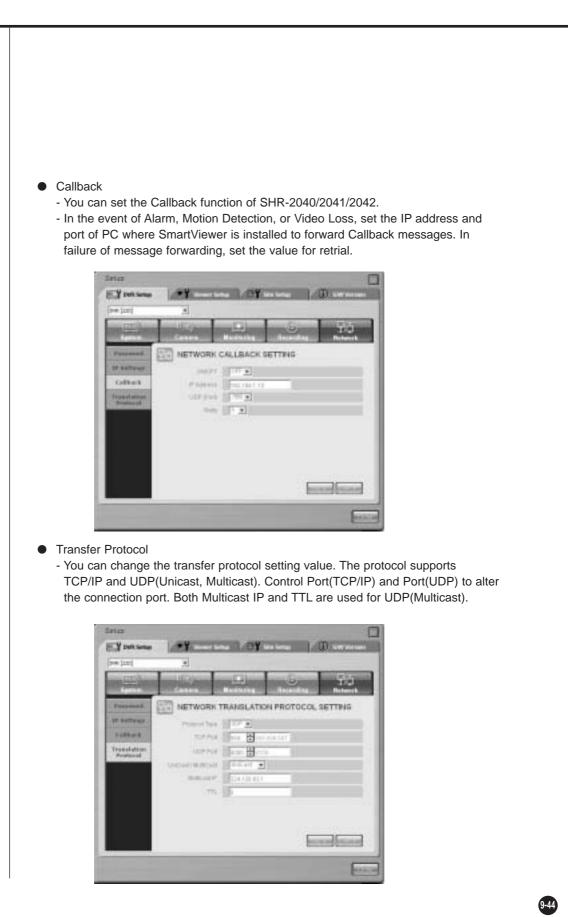


A Caution

- Be sure to inquire the network manager before you input Network IP, Gateway, Subnet Mask, and DNS.

- Both ADSL ID and Password can be input up to 40 digits of alphabets, numbers, and symbols without discrimination.





Note

- SHR-2040/2041/2042 uses 4 ports for TCP connection.
- The PORT number is flexible and 4 consecutive numbers are grouped for the change ($554,555,556,557 \rightarrow 558,559,560,561$)
- If you use the IP Router for network composition, you should allocate a protocol for SHR-2040/2041/2042.

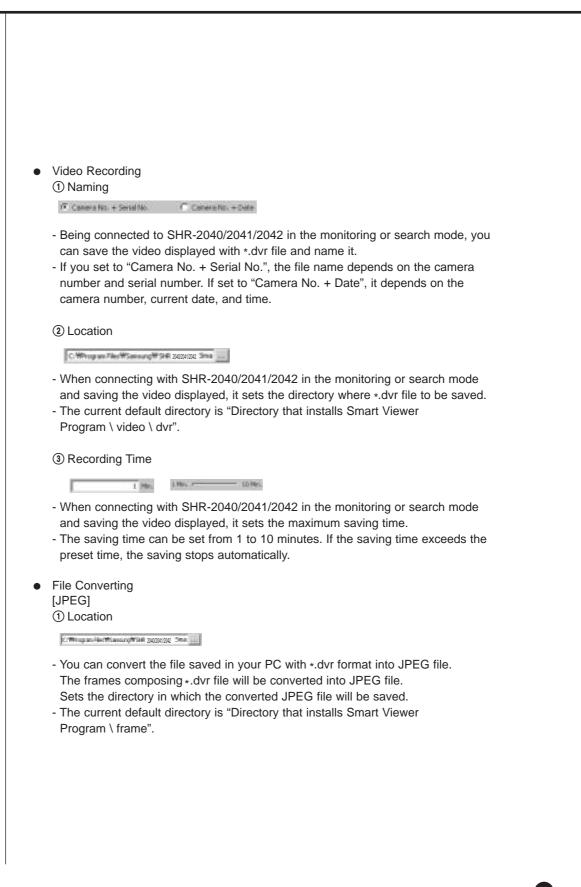
Viewer Setup

** Viena Setup

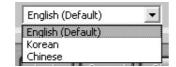
- Click the [Viewer Setup] for Viewer Setup.
- Viewer Setup sets the various kinds of item related to the operation of Smart Viewer.
- Viewer Setup is composed of 5 items; Video Recording, File Converting, Sequence Time, OSD Display, and Auto Connection.



- Item to set the information necessary for saving the video data displayed into *.dvr file when connecting with SHR-2040/2041/2042.
- ② Item to set the information necessary for converting the file saved in your PC with *.dvr file into JPEG.
- ③ Item to set the information necessary for the auto sequence mode.
- ④ Item to set the information of Smart Viewer OSD.
- (5) Item to set whether Smart Viewer shall be automatically connected to DVR(SHR-2040/2041/2042) or Site when it begins running.
- (6) Item to set a port for the callback connection.



•	Sequence Time
	10 (94), 8 Sei, - 38 Sei
	- When connecting with SHR-2040/2041/2042 in the monitoring mode, set the auto sequence time if the auto sequence is set. The time can be set from 10 to 20 minutes.
•	OSD Display
	17 Enable
	 Sets if OSD shall be displayed on each channel of Smart Viewer. Whether you check "Enable" or not, OSD will appear or not. However, Audio icon, PTZ icon, REC icon, and Alarm/Motion event icon will not be affected by the OSD condition.
•	Callback Connection
	Pulguars 7900
	- Sets the port for Callback connection.
•	Auto Connection
	- Sets if the smart viewer is automatically connected to SHR-2040/2041/2042 or site at the initial operation.
	 If you check "Auto Connection On", the names of SHR-2040/2041/2042 and Site currently registered at the DVR/Site list will be displayed in the following list. If you select one from the list, the smart viewer will connect to the selected SHR-2040/2041/2042 or Site when it operates later.
	37 Auto Convestion On
	DWR25bit List - DWR LIST - D
•	Language

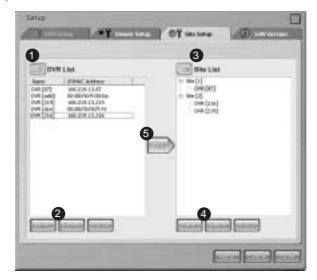


- Sets the language used in the SmartViewer.

Site Setup

- Click the [Site Setup] button for Site Setup.

- The information of DVR(SHR-2040/2041/2042) or Site that you want to connect by Smart Viewer is set in the Site Setup.
- Smart Viewer allows you to connect with DVR(SHR-2040/2041/2042) or Site registered only here.



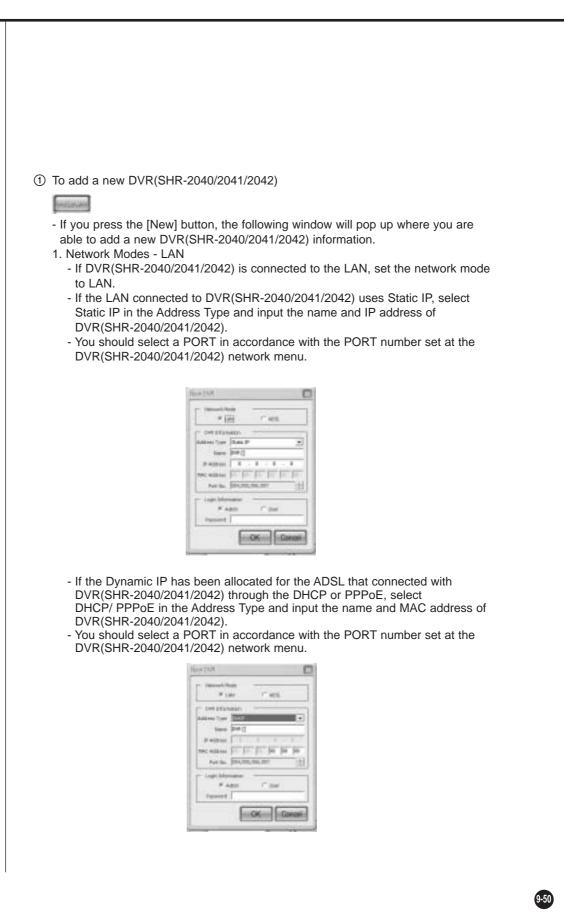
- ① The DVR(SHR-2040/2041/2042) list that registered by the user is displayed.
- ② The button to add a new DVR(SHR-2040/2041/2042), delete, or edit the exist DVR(SHR-2040/2041/2042)
- ③ The site list that registered by the user is displayed.
- ④ The button to add a new site, delete, edit the exist site, or delete DVR(SHR-2040/2041/2042) that composes the site.
- ⑤ The button to add DVR(SHR-2040/2041/2042) selected from the DVR list to the Site selected from the Site list. But, if the selected DVR(SHR-2040/2041/2042) is set to ADSL Network, it cannot be registered to the site.

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D٧	R	List	



- The information of DVR(SHR-2040/2041/2042) that you want to connect by Smart Viewer is set in the DVR List.
- You can register a new DVR(SHR-2040/2041/2042) or delete and edit the DVR(SHR-2040/2041/2042) selected from the registered list, and the name and IP / MAC Address of the registered DVR(SHR-2040/2041/2042) is displayed in DVR List.



2.Network Modes - ADSL

- If DVR(SHR-2040/2041/2042) is connected to the ADSL, set the network mode to ADSL.
- If the ADSL connected to DVR(SHR-2040/2041/2042) uses Static IP, select Static IP in the Address Type and input the name and IP Address of DVR(SHR-2040/2041/2042).
- You should select a PORT in accordance with the PORT number set at the DVR(SHR-2040/2041/2042) network menu.

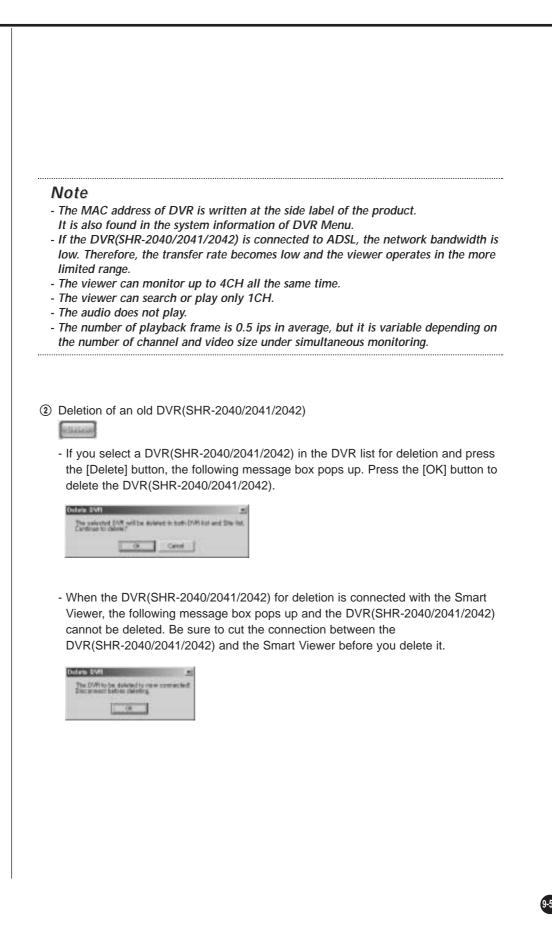
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If the Dynamic IP has been allocated for the LAN that connected with DVR(SHR-2040/2041/2042) through the DHCP, select DHCP in the Address Type and input the name and MAC address of DVR(SHR-2040/2041/2042).
You should select a PORT in accordance with the PORT number set at the DVR(SHR-2040/2041/2042) network menu.

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T 100	1 7	es.
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F Loge block F Ag Franket	- C	Conon

Note

- DVR may be named in both English and Korean with the maximum 15 letters.
- The login password should be same to the network password for SHR 2040/2041/2042 to connect.
- To add a new DVR, input all the information required.



SHOULD BE

SHR-2040/2041/2042 USER'S MANUAL

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③ To Edit the old DVR(SHR-2040/2041/2042)

- If you select a DVR(SHR-2040/2041/2042) in the DVR list to edit and press the [Edit] button, the following message box pops up. Press [OK] button to edit the DVR(SHR-2040/2041/2042).

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Address Types	Las P .
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NAC HORSEN	has been been been been
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Passed.	

- When the DVR(SHR-2040/2041/2042) to edit is connected with the Smart Viewer, the following message box pops up and the DVR(SHR-2040/2041/2042) cannot be edited. Be sure to cut the connection between the DVR(SHR-2040/2041/2042) and the Smart Viewer before you edit it.

reaty DVII	
The SVH to be modified to re Disconnect before readilying	ow connected
(The second seco	

Site List				
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connected with the allowed to register registered list. Also site selected in the - In the site list, both DVR(SHR-2040/20	smart viewer at once a new site ,and delete you can add or delete site list. the name of a register 41/2042) that compose	Rs(SHR-2040/2041/204 vith a site in the site list or edit the selected site a DVR(SHR-2040/204 ed site and the name of s the site are displayed O DVRs(SHR-2040/204	. You are in the 1/2042) to the f with a list.	
connected with the allowed to register registered list. Also site selected in the - In the site list, both DVR(SHR-2040/20 A site can be comp	smart viewer at once a new site ,and delete you can add or delete site list. the name of a register 41/2042) that compose	vith a site in the site list or edit the selected site a DVR(SHR-2040/204 ed site and the name of s the site are displayed	. You are in the 1/2042) to the f with a list.	
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 To delete an old site or DVR(SHR-2040/2041/2042) If you select a site or DVR(SHR-2040/2041/2042) in the site list for deletion and press the [Delete] button, the following message box pops up.
 Press the [OK] button to delete either site or DVR(SHR-2040/2041/2042). When deleting the DVR(SHR-2040/2041/2042), it is deleted from the site composition but the DVR(SHR-2040/2041/2042) information is not deleted.
The pelected She With with the databased in She list. Canthing to database?
- When the site to delete or the site that is composed of the DVR (SHR-2040/2041/2042) to delete is connected with the Smart Viewer, the following message box pops up and the site or the DVR (SHR-2040/2041/2042) cannot be deleted. Be sure to cut the connection between the DVR (SHR-2040/2041/2042) and the Smart Viewer before you delete it.
Delance Site () The Site DAT to be determed in row- connected Charameter before deleting.
(3) the information of an old site
- If you select a site in the site list to edit and press the [Edit] button, the following message box pops up and you can edit the site information.



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S/W Version

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- If you press the [S/W Version] button, the smart viewer version, system requirements, and the version of DVR(SHR-2040/2041/2042) System S/W, being connected to the smart viewer, are displayed.
- You can upgrade the on-line DVR(SHR-2040/2041/2042) System S/W remotely. You are authorized with S/W upgrade in an Admin authority only. With the authority of user or without connecting with the DVR(SHR-2040/2041/2042), your access will be denied.

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- ① Displays the smart viewer version and system requirements.
- ② Displays the version and name of DVR if any DVR(SHR-2040/2041/2042) is being connected with the smart viewer. You are also able to upgrade remotely the on-line DVR(SHR-2040/2041/2042) S/W.

Smart Viewe	er Version					
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 DVR Versie if any DVR name of D' DVR(SHR- DVR(SHR- When the s it displayed Each DVR DVR(SHR-2 - Smart View Select a I 	on not only (SHR-2040 VR(SHR-2 -2040/2041 -2040/2041 smart view d with a gra Version ha 2040/2041/2 ver upgrad	displays the co 0/2041/2042) is 040/2041/2042) /2042) is being /2042) S/W ver er does not con ay and "Not con as a check box, 2042) S/W Upgr	onnected being con composi connected sion. nected w nected" is which is rade (SHR-204 2) to be u	DVR(SI nnected ng a sit d with t ith the I display used fo	l with Sm e if any he site b DVR(SHF yed in the r S/W Up /2042) S/	art Viewer or ut also display R-2040/2041/2 e status. ograde.

② Click the following button to open the "SHR-2040/2041/2042 Firmware" file
in format.

Lest m 240/2041/2042 SmartVener - + 30 C C	nd m	2040/2041/2042	
--	------	----------------	--

③ Press the [Upgrade] button to transmit a file to the selected DVR(SHR-2040/2041/2042) and start the upgrade of DVR(SHR-2040/2041/2042) S/W.



④ The progress of file transmission and upgrade is displayed at the bottom.

A Caution

Be sure to suspend all the DVR system functions in action such as recording, MENU, backup, and playback before you upgrade the DVR(SHR-2040/2041/2042) S/W. Never try to turn the DVR(SHR-2040/2041/2042) power off during the S/W upgrade.

The S/W upgrade requires about 5 minutes. If the S/W upgrade is suspended accidentally, the previous S/W will be left intact.

Note

The new Firmware necessary for DVR(SHR-2040/2041/2042) S/W upgrade should be downloaded from the CCTV Part in Products Section at the http://www.samsungelectronics.com.



Appendix

10

Product Specification

Item	ו	Details	Remark	
CPU		32bit RISC CPU		
Memory		SDRAM : 128MByte		
		Flash : 16 MByte		
OS		Embedded OS		
Broadcast	ing	NTSC System		
Input Volta	age	2040-DC 12V, AC 110-220(NTSC),		
		AC 110-230(PAL)		
		2041/2042 - AC 110-220(NTSC)		
		AC 100-230(PAL)		
Power Consumption		2040 : 30Watt, 2041 : 60Watt, 2042 : 51Watt		
		Composite 16 Channel		
		- 1.0Vp-p		
		- 75 Ω Hi Z Termination		
	Video Input	BNC Type		
		Loop Through Out 16 Channel		
		- Auto Termination		
Video		Composite 2 Channel		
		 Normal Video Output 1 Channel 		
		- Spot Output 1 Channel		
	Video Output	- BNC Type		
		S-Video 1 Channel		
		- 1.0Vp-p		
		VGA 1 Channel		
		Mono 4 Channel		
	Audio Input	5dBm, 600Ω		
		RCA Type		
Audio		Mono 1 Channel		
	Audio Output	6dBm		
		RCA Туре		
		Video size Frame Rate (1Ch/4Ch)		
	Video size & Frame Rate	720X480 (NTSC) 30fps/480fps(NTSC)		
	Frame Rale	720X576 (PAL) /25fps/576fps(PAL)		
Live		Single		
Monitoring		4 Split		
monitoring	Display Mode	4 Spin Mode sequence		
	Display WOUL	Freeze		
		2 X Zoom		

Iten	n		Details		Remarks
	Compression Method	Video : MP Audio : ADI			
		Resolution	Quality Level	Max Image Rate	
		CIF(C) 352X240(NTSC) /352X288(PAL)	Very High High Standard Low	15ips(NTSC)/ 25(PAL)	
Recording	Video Size & Performance	Half D1(N) 720X288(NTSC) /720X288(PAL)	Very High High Standard Low	15ips(NTSC)/ 12.5(PAL)	
Recording		Full D1(L) 720X480(NTSC) /720X576(PAL)	Very High High Standard Low	30ips(NTSC)/ 25ips(PAL)	
	Recording Mode		 → PANIC Key → Schedule Ta ection tection 		
	Time Laps	NTSC : 1ip PAL : 1ips/2.5			
	Internal	ATA HDD x -Primary/Se -MAX HDD	* Packing 120GB (Samsung) x 1EA		
Storage Capacity	External	USB HDD -MAX 1 (No -MAX HDD S			

	Item	Details	Remark	
	Search Mode	Calendar Event - Normal, Schedule, Alarm, Motion, Video Loss Date/Time Go to First Go to Last Backup Data		
		Video size dob		
		1Cn 4Cn		
Play Back	Video size &	CIF 30ips(NTSC)/25ips(PAL) 30ips(NTSC)/25ips(PAL)/1CH		
	Performance	Half D1(N) 15ips(NTSC)/12.5ips(PAL) 15ips(NTSC)/12.5ips(PAL)/1CH		
		Full D1(L) 30ips(NTSC)/25ips(PAL) 30ips(NTSC)/25ips(PAL)/1CH		
		Full D1 is supported in the 1 ch mode only		
	Display Mode	Single \rightarrow 1Channel Decoding 4 Split \rightarrow 4Channel Decoding PIP \rightarrow 1Channel Decoding + 1Channel Live 6 Split \rightarrow PB(Single)+4 Channel Live - Single \rightarrow 6 Split(1CH PB) \rightarrow PIP \rightarrow 4 Split 9 Split \rightarrow PB(4 Split)+4 Channel Live - 4 Split \rightarrow 6 Split(4CH PB) \rightarrow 4 Split		
	Play Mode	Play, Pause, Stop, 2x Digital Zoom Fast Forward/Fast Reverse - 2x, 4x, 8x, 16x, 32x, 64x		
В	ackup	USB External HDD USB CD/DVD Writer USB Flash Memory		
Д	larm	Input : 4 Input - 5mA Output : 2 Relay Output - 2A/30VDC, 0.5A/125VAC Reset : 1 Input - 5mA		
Netv	vork	Ethernet : 10/100 Base T, ADSL(PPPoE), DHCP		
	al I/F	RS-485 \rightarrow PTZ Device Control, Remote Control Device		
Remote	PC Spec.	CPU : Pentium III, 1GHz or higher RAM : SDRAM 256MB or higher Graphic Accelerator : Graphic Memory 32MB or higher DirectX : 8.1 or higher		
Viewer	Support OS	Win98se, WinME, Win2000, WinXP		
-	Function	Live Image Monitoring Mode Local File Search & Play Back Mode Remote File Search & Play Back Mode		
	PC Spec.	Same as Remote Viewer		
Backup	Support OS	Win2000, WinXP		
Viewer	Function	Backup device(External HDD, USB Memory, CD/DVD) search and replay mode		
Operation		0°C ~ 40°C		
Preservat		-20°C ~ 60°C		
Operation		20% ~ 85% RH		
	ion Humidity	20% ~ 85% RH		
Size		215(W) X 88(H) X 337(D) (2040) 430(W) X 88(H) X 400(D) (2041/2042)		
Weight		About 3.35Kg(2040)/About 6.5Kg(2041)/About 7.3Kg(2042)		

The specification of HDD and peripheral device

Malian		O an a atitu	late of a se	Duffer			Deverente
Maker	RPM	Capactity	Interface	Buller	Series Name	Model No	Remark
Comouna	5,400	120 GB	Ultra ATA-133	2MB	SpinPoint V80	SV12.03N	Attached model in shipment
Samsung	5,400	160 GB	Ultra ATA-133 ZIVID Spir		SV1604N		
	7,200	120 GB			DiamondMax	6Y120LO	
Maxtor	7,200	160 GB	Ultra ATA-133	2MB	Plus 9	6Y160LO	
	5,400	250 GB			MaxLine II	5A250JO	
Western	7.200	120 GB	EIDE		MD Drote (ae)	WD1200LB	
Digital	7,200	160 GB	EIDE	2MB	WD Prpte 'ge'	WD1600LB	

Internal ATA HDD/IEEE1394/USB HDD I/F External HDD

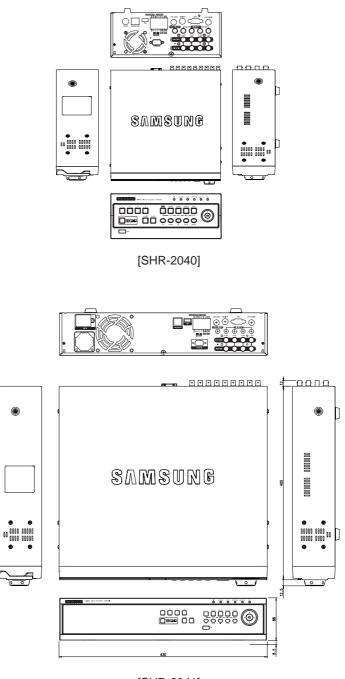
USB I/F CD-RW, DVD-RW Drive

Maker	RPM	Disk	Remark
Plextor	PX-W5232TU	CD-R CD-RW	
	PX-708UF	CD-R	
SONY	DRX-700UL	CD-RW	
		DVD+R	* DVD-RW is not supported.
Liteon	SHOW-1633SX	DVD-R DVD+RW	

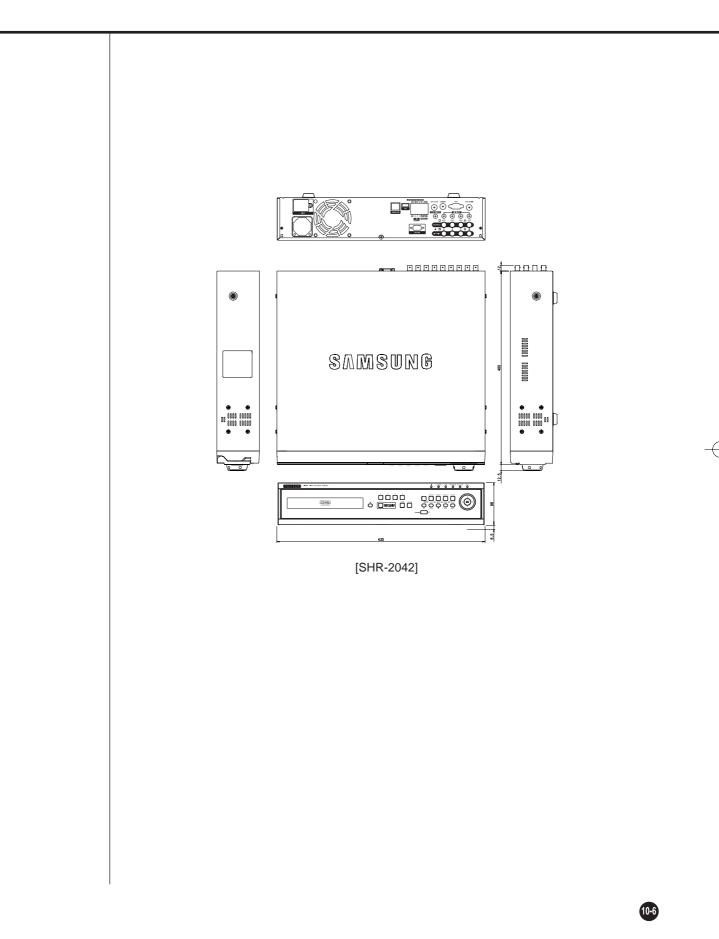
Internal ATA HDD/IEEE1394/USB HDD I/F External HDD

Maker	Model	Remark
P&C	FDISK V2	
	ActiveDrive	
IOCELL	CellDisk	
Stormblue	MICRO X	
ALTech	AnyDrive	
Bayon	Extreme USB Flash disk	
SanDisk	cruzer mini	
PNY	Attache	
GeekSquad		
Lexar	Jump Drive	

Outline Drawings



[SHR-2041]



Factory Default

This restores the Network information and preset values in SHR-2040/2041/2042 to the original state at the time of factory shipment.

Factory Default will be done as follows;

- Use System / Load Factory Default in MENU or,
- If you hold on to the Mode button in Live Mode and keep pressing the CH5 button for 5 seconds, the system will return to the Factory default condition. The front button repeats the flickering.

Classification	Detaile	d Items	Factory Setup
		Date Format	YYYY-MM-DD
		Time Format	24 Hours
	Time/Date/Language	Language	English
		Summer Time	Off
System Setup	Password	Password	4321
	Fassword	Password Lock	On
	HDD Mode	Disk End Mode	Stop
		Disk End Beep	Off
		Video	On
	Camera Config	Audio	On
	Camera Coring	Title	CAM_01 ~ CAM_4
		Auto Seq.	5 sec
		ID	Camera No.
		Protocol	None
Camera Setup		Baudrate	9600
	PTZ Device	Parity	None
		Data	8
		Stop	1
		Serial Mode	Half Duplex
		Brightness	50
	Screen Setup	Contrast	50
		Color	50

Classification	Detai	led Items	Factory Setup
	Event Monitoring OSD Display	Duration	Off
		Date	On
		Time	On
Monitoring		Title	On
		Status	On
	Spot Out Channel		CH1
	Spot Out Event Monitor		Off
	Monitor Out		Composite Out
	1CH DVF	R Support	Off
	Mode		On
Record Mode	Video Size		CIF
Setup	Quality		Normal
	Rate		30ips(NTSC)/25ips(PAL)
Descard Oak adult	Continuous Recording		Off
Record Schedule	Event Recording		On
	Event Record Mode	Video Size	CIF
		Video Size	Normal
		Rate	30ips(NTSC)/25ips(PAL)
		PreEvent	Off
		PostEvent	Off
		Sensor State	Off
	Alarm	Camera	Camera No.
Event Record	Detection Setup	Alarm-Out	None
Setup		Beep-Out	10 sec
		M.D State	Off
	Motion Detection Setup	Area	All Area
		Sensitivity	High
		Alarm-Out	None
		Beep-Out	10 sec
	Video Loss Detection Setup	Video Loss Detection Setup	Off
		Alarm-Out	None
		Beep-Out	10 sec

SHR-2040/2041/2042 Smart Viewer Frame Specification for the Playback

FRAME RATE	Viewer Screen Split Mode	VIDEO SIZE		
		Half D1(N)	CIF (C)	
15	Nine-split	1 frame/sec	15 frame/sec	
	Fore-split	15 frame/sec	15 frame/sec	
	Single	15 frame/sec	15 frame/sec	
10		Half D1(N)	CIF (C)	
	Nine-split	10 frame/sec	10 frame/sec	
	Fore-split	10 frame/sec	10 frame/sec	
	Single	10 frame/sec	10 frame/sec	
7.5		Half D1(N)	CIF (C)	
	Nine-split	7.5 frame/sec	7.5 frame/sec	
	Fore-split	7.5 frame/sec	7.5 frame/sec	
	Single	7.5 frame/sec	7.5 frame/sec	
		Half D1(N)	CIF (C)	
	Nine-split	5 frame/sec	5 frame/sec	
5	Fore-split	5 frame/sec	5 frame/sec	
	Single	5 frame/sec	5 frame/sec	
3		Half D1(N)	CIF (C)	
	Nine-split	3 frame/sec	3 frame/sec	
	Fore-split	3 frame/sec	3 frame/sec	
	Single	3 frame/sec	3 frame/sec	
1 -		Half D1(N)	CIF (C)	
	Nine-split	1 frame/sec	1 frame/sec	
	Fore-split	1 frame/sec	1 frame/sec	
	Single	1 frame/sec	1 frame/sec	

FRAME RATE	Viewer Screen Split Mode	VIDEO SIZE		
12.5		Half D1(N)	CIF (C)	
	Nine-split	1 frame/sec	12.5 frame/sec	
	Fore-split	12.5 frame/sec	12.5 frame/sec	
	Single	12.5 frame/sec	12.5 frame/sec	
8.33		Half D1(N)	CIF (C)	
	Nine-split	8.33 frame/sec	8.33 frame/sec	
	Fore-split	8.33 frame/sec	8.33 frame/sec	
	Single	8.33 frame/sec	8.33 frame/sec	
6.25 -		Half D1(N)	CIF (C)	
	Nine-split	6.25 frame/sec	6.25 frame/sec	
	Fore-split	6.25 frame/sec	6.25 frame/sec	
	Single	6.25 frame/sec	6.25 frame/sec	
		Half D1(N)	CIF (C)	
5	Nine-split	5 frame/sec	5 frame/sec	
Э	Fore-split	5 frame/sec	5 frame/sec	
	Single	5 frame/sec	5 frame/sec	
2.5		Half D1(N)	CIF (C)	
	Nine-split	2.5 frame/sec	2.5 frame/sec	
	Fore-split	2.5 frame/sec	2.5 frame/sec	
	Single	2.5 frame/sec	2.5 frame/sec	
1 -		Half D1(N)	CIF (C)	
	Nine-split	1 frame/sec	1 frame/sec	
	Fore-split	1 frame/sec	1 frame/sec	
	Single	1 frame/sec	1 frame/sec	

Note

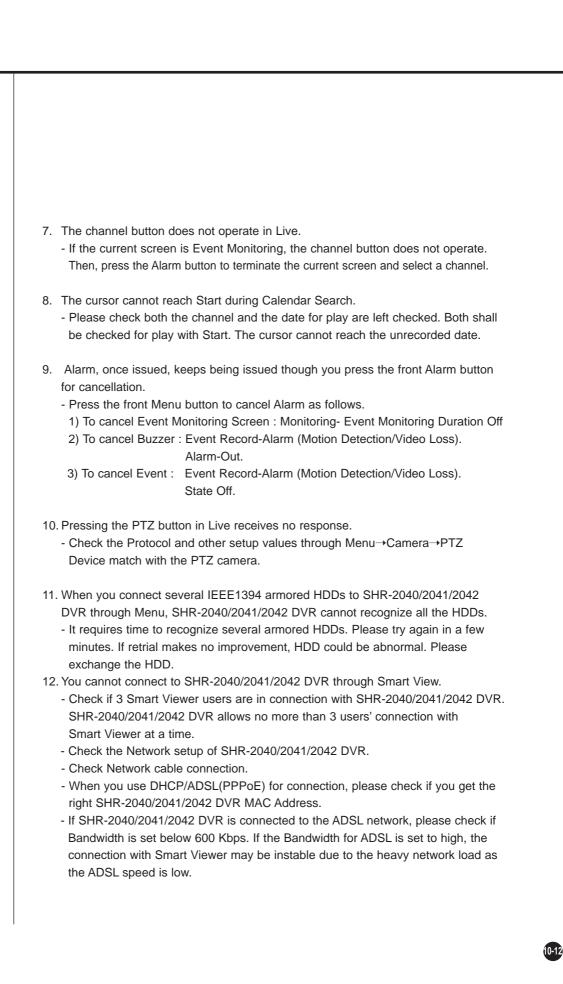
The play frame specification of Smart Viewer varies on the setup of SHR-4160N/P Recording Rate and Video Size or the screen split mode of Smart Viewer. The above specification is applicable only when the main body of SHR-4160N/P is connected with a fast network like LAN. When the main body of SHR-4160N/P is connected with a slow network like ADSL, the play speed will be 0.5 Frame/sec. In addition, the above specification has been defined to the recommended specification of your PC. If your PC specification is lower than the recommended, the number of frame to played may diminish.

0-10

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Troubleshooting(FAQ)

- The system power is dead and LED in front of the system does not operate at all.
 Please check the power connection.
 - Check the power voltage.
 - If all your efforts like above end up with nothing, check or exchange the power supply.
- Video data remains in the system but some channels displays no video data but turns all blue.
 - Check the image of the camera connected to the system. Improper input of camera input may cause this symptom.
 - Check the camera power supply.
 - Sometimes, you see this symptom when the video data is connected with multisystems and the video signal from the video data distributor in use feels weak. If it's the case, you shall connect the camera images with SHR-2040/2041/2042 DVR directly to check or improve such a symptom.
- The REC button in front has no effect on turning on REC LED or recording process.
 Please check the HDD space.
 - Please check the Record Mode setup in MENU. It should be Off.
- 4. All the front LEDs are in operation but the monitor remains black.
 - Video out may come out differently with the connected monitor. In short, Video Out is set to Composite Output but connected to VGA Input Monitor or vice versa. Then, keep pressing both the "MODE" button and the "0" button on the left for 5 seconds until LED lights on in the order of 1.2.3.4.5 to change the Video Out mode.
- 5. The front LED blinks and the logo screen repeatedly appears.
 - This symptom may be resulted from failure of HDD connection inside SHR-2040/2041/2042 DVR. Take off the cover and check HDD connection status. If HDD connection has no problem, please consult with the shop where you bought SHR-2040/2041/2042 DVR.
- 6. You cannot enter MENU by forgotten password.
 - If you forget the password, you shall reset SHR-2040/2041/2042 DVR to the values set at the factory. Keep pressing both the "MODE" button and the "5" button on the left for 5 seconds until LED lights on in the order of 1→2→3→4→5 The password default is "4321".



- 13. Smart Viewer in operation is disconnected.
 - If you change time, network setup, HDD format, Default Setup, or HDD attachment or detachment for SHR-2040/2041/2042 DVR, the current Smart Viewer will be automatically disconnected.
 - Check network connection. Smart Viewer, if disconnected from Network, will try reconnection up to 5 times. If it remains unconnected after 5 time trial, it will automatically give up connection.
 - As far as SHR-2040/2041/2042 DVR is connected to the ADSL network, you may be disconnected from Smart Viewer when the network conditions goes bad.
- 14. The Audio icon of Smart Viewer is left inactivated in the Live mode. Setting Audio to On in the Camera menu of SHR-2040/2041/2042 DVR will make no difference.
 - If your PC has no Audio driver or has some problem with Audio play of an Audio driver, the Audio icon will be inactivated. Please check Audio driver installation status.
- 15. When selecting the channel which PTZ Camera is connected to in the Live mode of Smart Viewer, click the "Menu Control" button among PTZ setup buttons to enter the Function Menu mode in PTZ Camera, and return from the other channel, the PTZ related buttons have been initialized.
 - PTZ control is available in both Smart Viewer and SHR-2040/2041/2042 DVR.
 Other user might control PTZ for SHR-2040/2041/2042 DVR to terminate the PTZ Camera Menu or Auto Pan/Scan/Pattern motions while you select the other channel. This may cause the initialization.
- 16. No Time Bar in the Search
 - Time Line can be converted into 2 modes, General(24 Hour Display) and Extension(2 Hour Display). In the Extension mode, Time Bar may not be seen in the current time. Please enter the General mode or click the LEFT or RIGHT button to search Time Bar.

SHR-2040/2041/2042-ENG-1 2005.6.29 2:36 PM Page 1

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Correct Disposal of This Product (Waste Electrical & Electronic Equipment)



(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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