

SAMSUNG

COLOR MONITOR

SMO-210TP

SMO-150TP

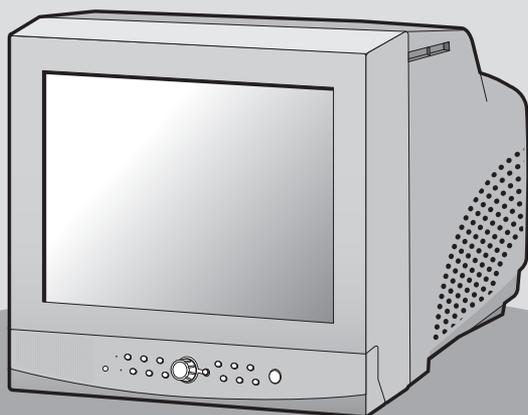
User Guide

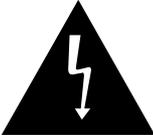
Mode d'emploi

Bedienungsanleitung

Manuale dell'utente

Guía del usuario



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

Graphic Symbol Explanation

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated ‘dangerous voltage’ within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Warning - To Prevent Fire or Shock Hazard, Do Not Expose This Monitor To Rain or Moisture.

IMPORTANT SAFEGUARDS

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Caution

Power source is indicated on the rear of the set. It contains high-voltage parts. If you remove the cover, it may cause fire or electric shock. Do not remove the cover by yourself. (Control switches are at the front of the monitor.)

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1. **Read Instructions :** All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions :** The safety and operating instructions should be retained for future reference.
3. **Heed Warnings :** All warnings on the monitor and in the operating instructions should be adhered to.
4. **Follow Instructions :** All operating and use instructions should be followed.
5. **Cleaning :** Unplug this monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
Exception. A monitor that is meant for uninterrupted service and that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the monitor in the cleaning description otherwise required in Item 5.
6. **Attachments :** Do not use attachments not recommended by Samsung as they may cause hazards.
7. **Water and Moisture :** Do not use this monitor near water for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like wet basement, or near a swimming pool, and the like.

- 8. Accessories :** Do not place this monitor on an unstable cart, stand, tripod, bracket, or table. The monitor may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by Samsung, or sold with the monitor. Any mounting of the monitor should follow Samsung's instructions, and should use a mounting accessory recommended by Samsung.
- 9. Ventilation :** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the monitor and to protect it from overheating, and these openings should never be blocked by placing the monitor on a bed, sofa, rug, or other similar surface. This monitor should never be placed near or over a radiator or heat register. This monitor should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or Samsung's instructions have been adhered to.
- 10. Power Sources :** This monitor should be operated only from the type of power source indicated on the making label. If you are not sure of the type of power supply to your installation site, consult your Samsung dealer or local power company.
- 11. Grounding or Polarization :** For monitors equipped with a 3-wire grounding-type plug having a third(grounding) pin. This plug will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- 12. Power :** Cord Protection-Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the monitor.

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- 13. Lightning :** For added protection for this monitor during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the monitor due to lightning and power-line surges.
- 14. Overloading :** Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 15. Object and liquid Entry :** Never push objects of any kind into this monitor through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
Never spill liquid of any kind on the monitor.
- 16. Servicing :** Do not attempt to service this monitor yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 17. Damage Requiring Service :** Unplug this monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions.
- a. When the power-supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the monitor.
 - c. If the monitor has been exposed to rain or water.
 - d. If the monitor does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the monitor to its normal operation.
 - e. If the monitor has been dropped or the cabinet has been damaged.
 - f. When the monitor exhibits a distinct change in performance-this indicates a need for service.

18. Replacement Parts : When replacement parts are required, be sure the service technician has used replacement parts specified by Samsung or have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

19. Safety Check : Upon completion of any service or repairs to this monitor, ask the service technician to preform safety checks to determine that the monitor is in proper operating condition.

FCC & ICES Information

Warning

This equipment has been tested and found to comply the limits for a class A digital device, pursuant to part 15 of the FCC Rules and ICES-003 of Industry Canada. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generate, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

User-Installer Caution

Your authority to operate this FCC verified equipment could be voided if you make changes or modifications not expressly approved by the party responsible for compliance to part 15 of the FCC Rules.

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Chapter 1. Overview

Overview

The product is a triplex that enables you to record the signals received from up to 8 cameras to a single VCR. You can record those signals sequentially by frame or intermittently, and playback a specific channel selectively. You can use three monitor screen modes, LIVE Mode, P.B. Mode, and LIVE + P.B. Mode, on a single monitor.

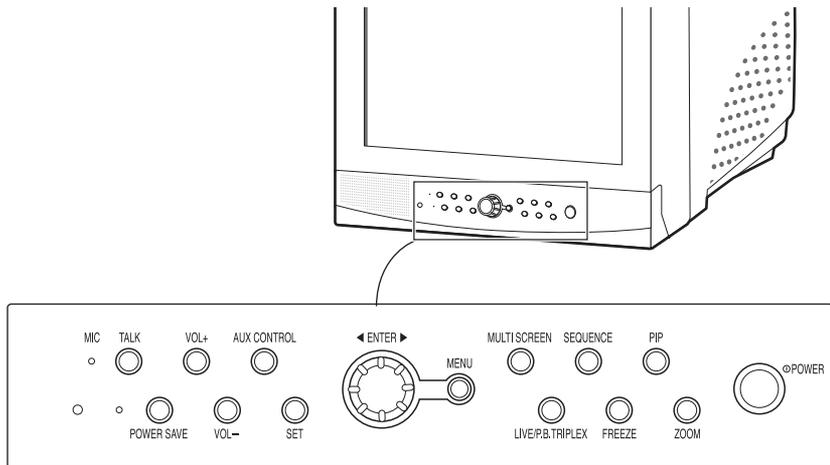
Functions and Features

- Set various functions using the Menu buttons.
- Connect up to 8 cameras for color or black-and-white pictures.
- Watch the input from up to 8 cameras on one screen in the various split display modes.
- Watch the Live screen and the Playback screen simultaneously on the same monitor.
- Enlarge a screen up to 4 Xs using the Zoom function.
- Utilize the Motion Detect function embedded in a camera.
- Monitor a specific screen within the main screen by using the Spot Display function.
- Watch the Main screen simultaneously on an additional monitor using the Slave Display function.
- Watch desired screens in still mode using the Freeze function.
- Switch and watch channels sequentially in Sequence mode.
- Hide the screens being displayed using the Hidden Camera function.
- The system has Date, Time and Alarm indicators that can be reset .
- When an Alarm occurs, the word "EVENT" is displayed on the screen and a warning buzzer sounds. When this occurs, you can press Enter (in the center of the Rotary Wheel), and up to 16 frames before and after the generated alarm will be replayed on the Event Replay window. Alarm histories are recorded in the ALARM LIST. The Alarm function is available only when the Alarm Box is connected.
- If the Channel Loss Detection function detects any channel loss, the word "EVENT" is displayed on the screen and a warning buzzer sounds. When this occurs, you can press ENTER (in the center of the Rotary Wheel), and up to 16 frames before and after the detected channel loss will be replayed on the Event Replay window. Channel Loss histories are recorded in the ALARM LIST.
- When a doorbell is pressed, a warning buzzer sounds and the screen mode changes to LIVE, which displays all 9 channels at the same time. The letter "D" is displayed on the screen of the channel to which the doorbell has been pressed and the still screen is saved in the Door Bell List. Up to 16 frames can be saved in the Door Bell List. You can select a frame and view it on the screen. This Door Bell function is available only when the Door Bell Box is connected.

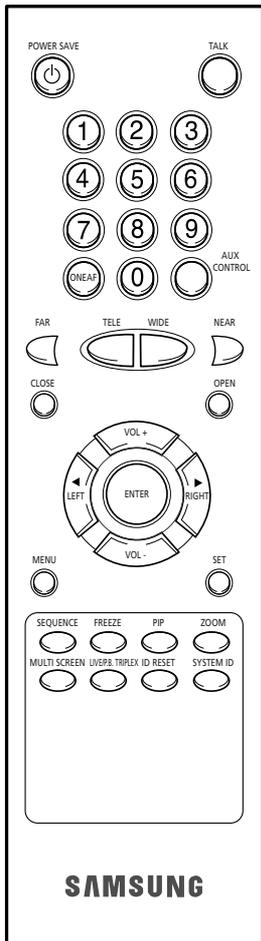
Names and Functions of Parts

Front Panel/Remote Control

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- A. Power Switch**
Turns the power on/off.
- B. POWER SAVE**
Changes to Power Save mode.
- C. VOLUME UP/DOWN**
Controls the volume level.
- D. TALK**
Communicates with the doorbell in duplex mode.
- E. AUX CONTROL**
Outputs relay pulses to an external device for a specified time.
You can adjust this control according to your environment. (For example, when the doorbell rings, you can move to the corresponding camera and identify the visitor before opening the door using the Action button.)
- F. LIVE/P.B./TRIPLEX**
Changes the Display mode. Each press of this button switches between Live, P.B., and Triplex modes sequentially.
- G. SET**
Sets channel options on the split screen, or enters the selected Sub Menu from the Main Menu.
- H. ROTARY WHEEL (LEFT, RIGHT, ENTER)**
Press the LEFT button to direct the camera to the left; the RIGHT button, to the right. In the center is the ENTER button. Use this wheel to move a Zoomed-in screen, or to scroll through Menu items or channels. Press ENTER to select an item, enter a sub menu, or replay the events.



I. MENU

Displays the Setup menu on the screen. Press it again to exit the Setup menu.

J. MULTISCREEN

Switches to the split screen view. Each press of this button changes to the 4, 7, and 9-split screen sequentially. Only the 4 and 9 split screens are available in the Triplex mode.

K. SEQUENCE

When pressed in the full screen mode, channels are switched automatically and sequentially within a specified time period.

L. FREEZE

Captures the selected screen as a still screen. Refer to the section "When you want to watch in FREEZE screen mode" on page 21.

M. PIP

Selects the Picture in Picture mode.

N. ZOOM

When pressed in full screen mode, the screen is enlarged. Each press of this button enlarges the screen two and four times sequentially and then returns to the normal size. Use the Rotary Wheel to move the Zoomed-in screen.

O. Number Key(0 ~ 9)

Press the number of the channel to watch it in full screen mode. Or, press the SYSTEM ID button and then press the number of the system you want to control with the remote control.

P. ZOOM(TELE/WIDE)

Only the remote control has this button. It is available only when a camera (SOC-420P, or SOC-920P, sold separately), is connected to the system.

Q. FOCUS(FAR/NEAR)

Only the remote control has this button. It is used for camera Focus control and available only when a camera (SOC-420P, or SOC-920P, sold separately), is connected to the system.

R. IRIS(CLOSE/OPEN)

Only the remote control has this button. It is used for camera Iris control and available only when a camera (SOC-420P, or SOC-920P, sold separately), is connected to the system.

S. ONEAF

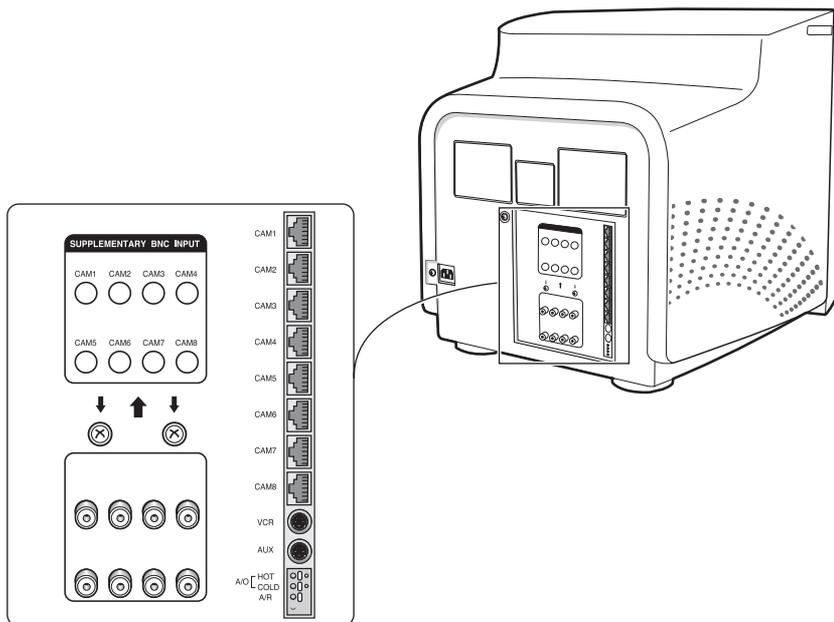
Performs Auto Focus for the selected camera once in the present status. Only the remote control has this button. It is only available when a camera (SOC-420P, or SOC-920P, sold separately), is connected with the product.

T. SYSTEM ID

Selects the system to control with the remote. Only the remote control has this button.

Rear Panel

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A. CAMERA IN(RJ-45)

Video camera input terminals. You can connect up to 8 cameras with RJ-45 connectors.

B. CAMERA IN (BNC)

Video camera input terminals. You can connect up to 8 cameras with BNC connectors.

Caution

Either RJ-45 or BNC type cameras should be connected to the same channel. Signal interference will occur if both types of camera are connected to the same channel.

C. VCR

- Connects to the VCR using a 6-pin connector.
- TRIGGER: Trigger output terminal for the VCR
- VIDEO IN/OUT: Video input/output terminal for the VCR
- AUDIO IN/OUT: Audio input/output terminal for the VCR

D. AUX

- Connects to another device using the 4-pin connector.
- SPOT VIDEO OUT: The terminal that allows you to supervise the specified channel within the Main screen on the additional connected monitor.
- SPOT AUDIO OUT: The terminal that allows you listen to the sound of the specified channel on the additional connected monitor.
- SLAVE VIDEO OUT: The terminal that allows you to view the Main screen displayed at the present time on the additional connected monitor.

E. ALARM

- A/O (HOT/COLD): When an alarm occurs, the Active Make signal is output.
- A/R: Connects to the Alarm Reset terminal of VCR. When an alarm is triggered, a pulse is output.
- G: Connects to the ground terminal of VCR.

F. ~AC IN

Connects the power cord.

Chapter 2. Installation

Installation Environments

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This section describes the environmental requirements for safe installation and use.

Install the product on a flat table or in a rack. It should be used only when level and should not be used when stood vertically or obliquely. The location in which the main system is installed and the configuration of the wiring room are very important for proper operation of the system. When the products are installed too closely together or the location is poorly ventilated, the system may not operate properly and maintenance of the system may be difficult.

Sufficiently circulate the air within the system operating room and tightly fasten the cover of the main system to prevent malfunction and reduce system downs due to environmental causes.

There are high voltage parts inside. Do not arbitrarily open the cover.

Install the product in a place that meets the following environmental conditions. Be sure to maintain the system under the temperatures and humidity conditions given below:

- Operating temperature: 0 °C ~ 40 °C
- Storage temperature: -20 °C ~ 60 °C
- Operating humidity: 20% ~ 85% RH
- Storage humidity: 20% ~ 95 RH
- Input voltage: AC 100 ~ 240V
- Power usage: less than ? Watts
- Frequency: 50Hz

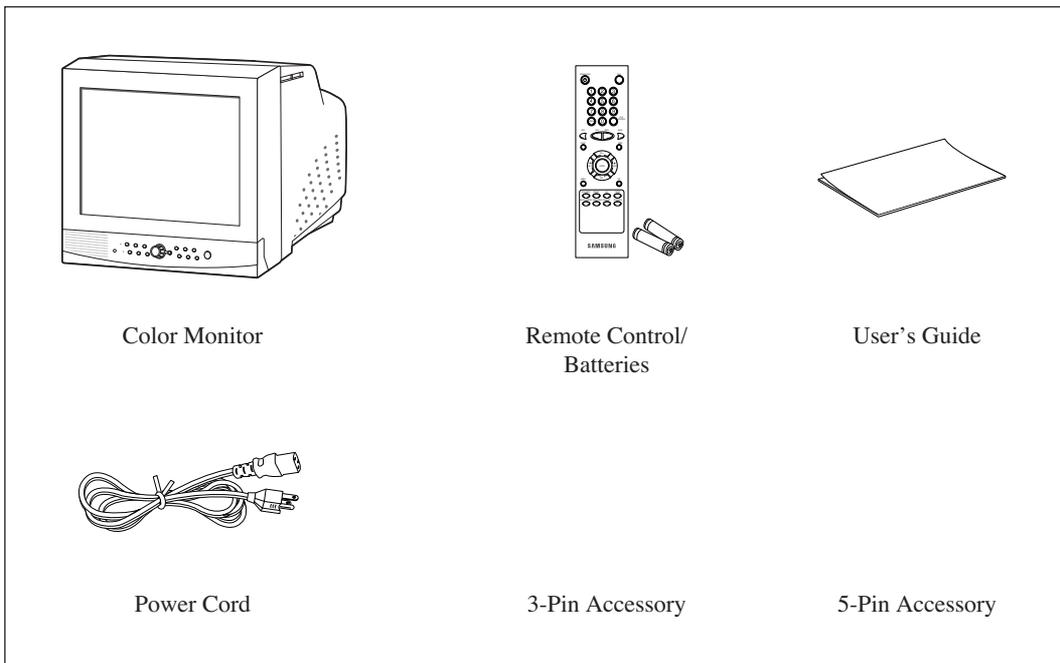
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Caution

When operating the product, the fluctuation of input voltage must be within 10% of the rated voltage and the external power outlet must be grounded, otherwise, it may cause electric shock or malfunction of the product. Do not connect heat-generating appliances such as a hair dryer, iron or refrigerator to the same power outlet in which the product is plugged, otherwise it may cause a fire or malfunction of the product. The use of an Automatic Voltage Regulator (AVR) is highly recommended to ensure that stable power is supplied.

Be sure to coil CORE-FERRITE on the connector to reduce electro-magnetic interference (EMI).
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Unpacking

Remove the package cover and place the product on a flat and secure surface or in the installation location. Check whether all the following devices and accessories are included with the main system.



Chapter 3. Connecting to External Devices

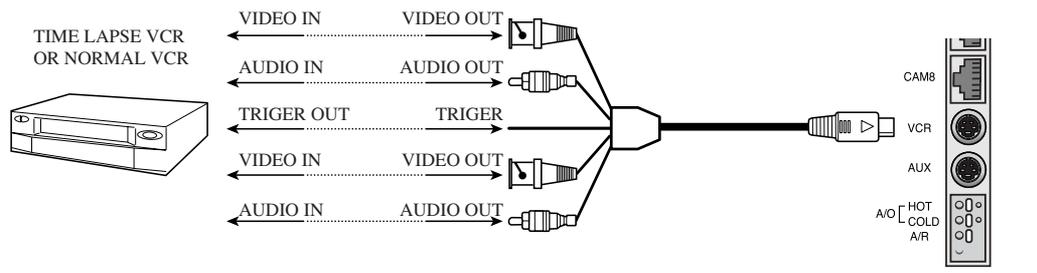
The product can be connected to an external device such as a monitor, VCR, Alarm Box, Door Bell Box, etc.

This chapter describes how to connect to external devices.

Caution

Make sure not to input more than 2V from the camera, video, or audio source, otherwise, it may cause a malfunction of the product.

1. Connecting to Time Lapse VCR (or Normal VCR)



- 1) Connect the 6-pin plug to the VCR terminal on the real panel.
- 2) Connect the VIDEO OUT plug to the VIDEO IN terminal of the VCR.
- 3) Connect the VIDEO IN plug to the VIDEO OUT terminal of the VCR.
- 4) Connect the AUDIO OUT plug to the AUDIO IN terminal of the VCR.
- 5) Connect the AUDIO IN plug to the AUDIO OUT terminal of the VCR.
- 6) Connect the TRIGGER plug to the REC TRIGGER OUT terminal of the VCR.
- 7) Connect the A/O (HOT) terminal on the rear panel to the Alarm IN terminal of the VCR.
- 8) Connect the A/O (COLD) terminal on the rear panel to the Ground terminal of the VCR.
- 9) Connect the A/R terminal on the rear panel to the Alarm Reset terminal of the VCR.
- 10) Connects the G (ground) terminal on the rear panel to the Ground terminal of the VCR.

Caution

The name of the REC TRIGGER OUT or Alarm terminal may change depending on the type of Time Lapse VCR.

Make sure to check the names of the terminals before connecting them.

2. Connecting the Alarm Sensor

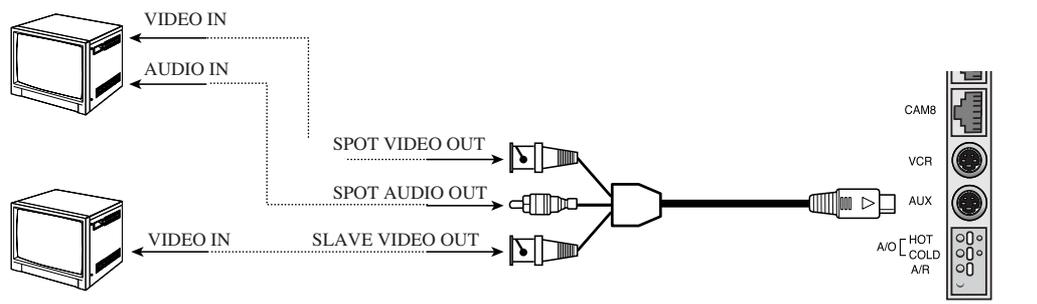
Connect the Alarm Box and Alarm Sensor in accordance with the user manual of Alarm Box.

3. Connecting the Door Bell Box

Connect the cameras and Door Bell Box in accordance with the user manual of Door Bell Box.

4. Connecting the Ordinary monitor

Connect the ordinary monitor to the Spot output terminal, which allows you to supervise a specified channel within the Main screen. Connect the Slave Monitor to the output terminal, which allows you to simultaneously view the current situation .



Chapter 4. Basic Operation

1. Basic Operation

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1) Turn the Power Switch On.

When turned on for the first time, the 9-split screens are displayed on the monitor.

At this time, the channels that have no input are displayed with a blue screen and video loss occurs.

(After completing the initial setup, the settings are memorized when the power is turned off. Therefore, when you turn the power on again, the product will be operated with the previous settings.)

2) Set the Recording Channels

Set the channels that have no input to "OFF" under "RECORD DUTY..." in "4. SYSTEM SETTING" on the SETUP MENU.

3) Select the Display Mode

- **Full Screen Mode:** When you are on a split screen, move to your desired channel using the Rotary Wheel and press the ENTER button located at its center. The selected channel will then be displayed in Full Screen Mode.
- **Multi Screen Mode:** Press the MULTISCREEN button to display the split screens. You can select which channels will be displayed on the split screen.
- **Sequence Screen Mode:** Press the SEQUENCE button. Channels are automatically switched sequentially in full screen mode.
- **Freeze Screen Mode:** You can capture and view a still screen using the FREEZE button and the Rotary Wheel.
- **LIVE/P.B. Screen Mode:** You can monitor the present camera signals or playback the recorded screens using the LIVE/P.B./TRIPLEX button.
- **TRIPLEX screen Mode:** Watch the present camera signals and recorded screens on the same monitor using the LIVE/P.B./TRIPLEX button.
- **PIP screen Mode:** You can watch Picture in Picture (PIP) screens by using the PIP button.
- **Zoom screen Mode:** You can enlarge a full screen two or four times using the Zoom button and Rotary Wheel.

2. When you want to watch on LIVE/P.B./TRIPLEX screen.

Select the LIVE, P.B., or TRIPLEX screen mode using the LIVE/P.B./TRIPLEX button.

Each press of this button changes the screen mode to LIVE mode, P.B. mode, and TRIPLEX mode sequentially.

The LIVE/P.B./TRIPLEX button will not operate in the following cases:

- *While using the SETUP Menu*
- *While displaying the Event List or the Door Bell List*
- *While replaying events*
- *While zooming-in the screen*
- *While setting a split screen*
- *While setting a still screen on the multi screen mode*

3. When you want to watch in Full Screen Mode

If you are on a split screen, move to your desired channel using the Rotary Wheel and press ENTER. The selected channel will be displayed in full screen mode. At this time, you can change the channel using the Rotary Wheel.

In addition, you can change the channel by pressing number buttons on your remote control.

4. When you want to watch in Multi Screen Mode

Split screens are available only in LIVE, P.B., and TRIPLEX mode. Press the MULTISCREEN button to display a split screen. Each press of this button changes the split screen mode to 4-channel display mode, 7-channel display mode, and 9-channel display mode sequentially.

Only 4-channel display mode and 9-channel display mode are available in the TRIPLEX mode. If you press the MULTISCREEN button in full screen mode, the previous split screen is displayed.

Resetting Channels

- 1) Press the SET button. The border of the selected channel will blink.
- 2) Press the ENTER button at the center of the Rotary Wheel. Now, you can change to your desired channel.
- 3) Move to your desired channel using the Rotary Wheel and press ENTER to complete changing the channel.
- 4) If you want to reset to another channel, use the Rotary Wheel to move to the channel you want to change and the border of the selected channel will blink.
- 5) Repeat steps 2) and 3). When the resetting is completed, press the SET button.

The MULTISCREEN button will not operate in the following cases:

- *While using the SETUP Menu*
- *While displaying the Event List or Door Bell List*
- *While replaying events*
- *While zooming-in the screen*
- *While setting a split screen*

5. When you want to watch in Sequence Screen Mode.

The Sequence screen is available only in full-screen LIVE mode. Press the SEQUENCE button when the screen is in full-screen LIVE mode to switch to the Sequence screen. You can set the switching intervals by going to "SEQUENCE" under "4. SYSTEM SETTING" on the SETUP MENU. The range of switching intervals is from one to thirty seconds. Press the SEQUECE button again to stop the screen displayed at the present time.

The SEQUENCE button will not operate in the following cases:

- *While operating in P.B. or TRIPLEX mode*
- *While using the SETUP Menu*
- *While setting or displaying a split screen*
- *While displaying the Event List or Door Bell List*
- *While replaying events*
- *While zooming-in the screen*

6. When you want to watch in FREEZE Screen Mode

You can stop a full or split screen temporarily and view the still screen in LIVE, P.B., TRIPLEX mode.

You can select and stop the channels you wish to stop in split screen mode.

1) In Full Screen Mode

Press the FREEZE button. The present screen being displayed is stopped and the "FREEZE" message is displayed. Press the button again to exit the still screen.

2) In Split Screen Mode

- ① Press the FREEZE button. The border of the selected channel will blink.
- ② Press ENTER. The screen of the selected channel is stopped and the letter "F" is displayed. Press ENTER again to exit the still screen.
- ③ If you want to watch another channel in still screen mode, move to the desired channel using the Rotary Wheel and press ENTER. The screen of the selected channel is stopped and the letter "F" is displayed. Press ENTER again to exit the still screen.
- ④ If you want to watch another channel in still screen mode, repeat Step 3).
- ⑤ Press the FREEZE button again to exit FREEZE mode.

The FREEZE button will not operate in the following cases:

- *While using the SETUP Menu*
- *While displaying the Event List or Door Bell List*
- *While replaying events*
- *While setting a split screen*

7. When you want to watch in Zoom Screen Mode.

Zooming a screen is available in both LIVE/P.B and Full Screen modes.

- 1) Press the Zoom button. The current screen enlarges two times.
- 2) Press the button again. The screen enlarges four times.
- 3) Press the button once more. The screen returns to normal .
- 4) You can move to the desired place on the present Zoom screen by using the Rotary Wheel.
- 5) Press ENTER on the Rotary Wheel and turn the Rotary Wheel. By using the left, right, up and down buttons, the enlarged Zoom screen is moved to the right, left, up, or down.

The ZOOM button will not operate in the following cases:

- *While setting or displaying a split screen*
- *While using the SETUP Menu*
- *While displaying the Event List or Door Bell List*
- *While replaying events*
- *While operating in Sequence mode*

8. When you want to watch on PIP Screen Mode

You can watch a Picture in Picture screen in full-screen LIVE mode using the PIP button.

When you press the PIP button for the first time, the sub screen on the PIP screen is a sequence screen. After that, when you enter into PIP mode again, the sub screen which is displayed in the same screen mode as when you exited the PIP mode previously.

Using PIP Screen

- 1) Press the PIP button in full-screen LIVE mode.
- 2) When a fixed channel is displayed on the sub screen, each time you press ENTER it switches between the Main screen and the Sub screen.
- 3) Turn the Rotary Wheel to change the channel of the Main screen.
- 4) Press the SEQUENCE button to set the Sub screen as the sequence screen. Press the button again to fix the channel.
- 5) You can change the position of the sub screen by going to "PIP POSITION" under "2.CLOCK/DISPLAY.SET" on the SETUP menu.

The PIP button will not operate in the following cases:

- *While operating in P.B. or TRIPLEX mode*
- *While setting or displaying a split screen*
- *While using the SETUP Menu*
- *While displaying the Event List or Door Bell List*
- *While replaying events*
- *While zooming-in the screen*
- *While operating in Sequence mode*

9. When you want to watch the VCR output

To watch the VCR output directly, set the PB THROUGH item to "ON" by going to "RECORD..." under "4. SYSTEM SETTING" on the SETUP menu while in P.B. mode. This function is useful when setting the menu of VCR or when checking whether the VCR is normal or not. Press ENTER again to exit the PB THROUGH screen and return to the previous PB screen.

The PB THROUGH button will not operate in the following case:

- *While operating in LIVE or TRIPLEX mode*

10. When you want to watch the Event Replay screen

1) When an Alarm/Motion signal is input

You can use the alarm function only when an Alarm Box is connected.

When an alarm/motion signal is input, the word "EVENT" is displayed on the screen, and a warning buzzer sounds. When this occurs, if you press ENTER, up to 16 frames before and after the generated alarm/motion signal are replayed on the Event Replay window.

Press ENTER again to stop the event replay. If alarm/motion signals are input on more than one channel, press ENTER to start the event replay for another channel when the current event replay finishes. When an event replay for all the channels on which an alarm/motion signal has occurred has finished, press ENTER to exit Event Replay mode.

Alarm/Motion histories are recorded in the EVENT LIST.

2) When Channel Loss is detected

If the channel loss detection function detects a channel loss, the word "EVENT" is displayed on the screen and a warning buzzer sounds. When this occurs, press ENTER and up to 16 frames before and after the detected channel loss are replayed on the Event Replay window.

Press ENTER again to stop the event replay. If channel loss is detected on more than one channel, press ENTER to start event replay for the next channel when the current event replay finishes. When the event replay for all the channels on which channel loss has been detected finishes, press ENTER to exit the Event Replay mode.

Channel loss histories are recorded in the EVENT LIST.

11. When you want to watch a Door Bell screen

You can use the Door Bell screen only when a Door Bell Box is connected.

If the doorbell is pressed, a warning sound is generated and the screen mode changes to LIVE mode, which displays 9 channels at the same time. The letter "D" is displayed on the screen of the channel on which the doorbell has been pressed and a still screen is saved in the Door Bell List. Up to 16 frames can be saved in the Door Bell List. You can select a frame and view it on the screen.

Move to your desired item by going to "6. DOOR BELL LIST" on the SETUP menu and press ENTER to display it as a still screen.

Then, press ENTER again to return to the "DOOR BELL LIST" screen.

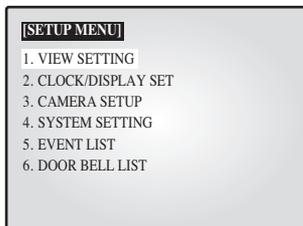
Chapter 5. Setup Menu Settings

<SETUP MENU>

- Press the MENU button to display the Language Selection screen.



- Select the desired language by using the Rotary Wheel and press ENTER to display the SETUP MENU in the desired language.
- When you press the MENU button after completing the initial language selection, the Language Select screen will not appear. Instead the following SETUP MENU will appear on the monitor. Press the button once again to return to the previous menu.



<SUB MENU >

- Select submenu 1 to 5 from the SETUP MENU using the Rotary Wheel and press ENTER to go to the SUB MENU.

1. VIEW SETTING

You can change the contrast, brightness, color and sharpness of the Main screen on the monitor. Select “1. VIEW SETTING” from the SETUP MENU using the Rotary Wheel and press ENTER to display the following screen:

[VIEW SETTING]	
CONTRAST	70
BRIGHT	50
COLOR	50
SHARPNESS	50
EXIT	QUIT

- Select an item using the Rotary Wheel and press ENTER to change the preset value.
- Change the preset value (0 ~ 100) by using the Rotary Wheel and press ENTER to save the setting.
- Select SAVE (save the changes), QUIT (exit the setting mode without saving) or PRESET (reset all the settings to the factory defaults) from the EXIT MENU and press ENTER to return to the SETUP MENU.

2. DATE/TIME SET

You can change PIP position, display type, date type and time.

Select “2. DATE/TIME SET ” from the SETUP MENU using the Rotary Wheel and press ENTER to display the following screen:

[CLOCK/DISPLAY SET]	
PIP POSITION	BOTTOM RIGHT
DISPLAY TYPE	ALL
BORDER COLOR	WHITE
DATE TYPE	YY/MM/DD
DATE[YY/MM/DD]	02/08/01
TIME [HH:MM:SS]	12:30:01

- Select an item using the Rotary Wheel and press ENTER to change the preset value.
- Change the preset value using the Rotary Wheel and press ENTER to save the setting.
- Press the MENU button to return to the SETUP MENU.

PIP POSITION: BOTTOM-RIGHT ↔ TOP-LEFT ↔ TOP-RIGHT ↔ BOTTOM-LEFT.

- Select the PIP position among the four options listed above.

DISPLAY TYPE: ALL ↔ TITLE ↔ DATE/TIME ↔ NONE.

- ALL : All items will be displayed except the DATE/TIME and the TITLE.
- TITLE : Only the CHANNEL TITLE will be displayed.
- DATE/TIME : Only the DATE/TIME will be displayed.
- NONE : Neither the DATE/TIME nor the TITLE will be displayed.

DATE TYPE: YY/MM/DD ↔ MM/DD/YY ↔ DD/MM/YY.

DATE [YY/MM/DD]

- Year(YY) : 00(2000) ~ 99(2099)
- Month(MM) : 01 ~ 12
- Day(DD) : 01 ~ 31

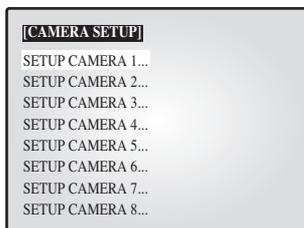
TIME [HH:MM:SS]

- Hour(HH) : 00 ~ 23
- Minute(MM) : 00 ~ 59
- Second(SS) : 00 ~ 59

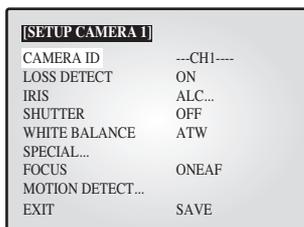
3. CAMERA SETUP

You can change the Camera ID, LOSS DETECT, MOTION DETECT and Camera Preset values.

Select “3. CAMERA SETUP ”from the MAIN MENU using the Rotary Wheel and press ENTER to display the following screen.



Select the desired channel using the Rotary Wheel and press ENTER to go to the display of the selected channel. The following screen will appear.



- All the items, except “CAMERA ID ”and “LOSS DETECT,” will be available for setting only after the system is connected to a camera (SOC-420P or SOC-920P, sold separately).
- Select the desired item using the Rotary Wheel and press ENTER. Then change the preset value using the Rotary Wheel and press ENTER to complete the setting.
- Select SAVE (save the changes), QUIT (exit the setting mode without saving) or PRESET (reset all the settings to the factory defaults) from the EXIT menu and press ENTER to return to the previous CAMERA SETUP menu.

You can't return to the previous menu while in the setting mode. You can only return to the previous menu by selecting EXIT.

- Change the preset values for the other channels repeating the same steps.
- Press the MENU button after completing all the settings to return to the SETUP MENU.

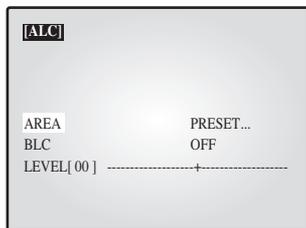
CAMERA ID: ---CH1--- (“- ” indicates blank.)

- Select “CAMERA ID” using the Rotary Wheel and press ENTER to select the first “- .”
- Select the desired letter using the Rotary Wheel and press ENTER to move on and select the next letter.
(Letter order: 0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ-[]x+)
- Repeat the same to select all the desired letters. (You can choose up to ten letters.)

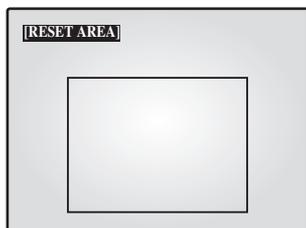
LOSS DETECT: Sets the Loss Detect On/Off. (ON ↔ OFF)

IRIS: Controls the video output level through the Iris depending on the level of light coming into the camera.

- Select “IRIS” using the Rotary Wheel and press ENTER to select either “ALC...” or “MANUAL...”.
- ALC... : Auto Light Compensation
 - Select “ALC...” using the Rotary Wheel and press the SET button to display the following screen. Press the MENU button after completing the setting to return to the previous menu.

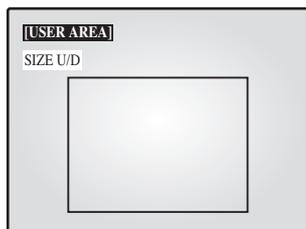


- Select AREA using the Rotary Wheel and press ENTER to select either “PRESET...” or “USER...”.
- Select “PRESET...” using the Rotary Wheel and press the SET button to display the following screen. The back light compensation will be applied to the area(s) with preset values.



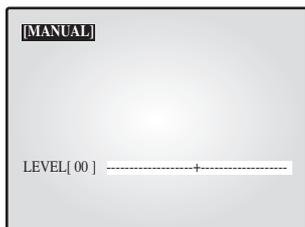
Press the MENU button to return to the previous menu.

- Select "USER..." using Rotary Wheel and press the SET button to display the following screen.



- Adjust the size up/downward using the Rotary Wheel and press ENTER to select and move on to adjust the size on the left/right side. Then "SIZE L/R" will be displayed on the screen.
 - Press ENTER after adjusting the size of the left/right side by using the Rotary Wheel. Then you will be ready to adjust the position up/downward and "POSITION U/D" will be displayed on the screen.
 - Press ENTER after adjusting the position using the Rotary Wheel. Then you will be ready to adjust the position to the left/right side and "POSITION L/R" will be displayed on the screen.
 - Press ENTER after adjusting the position using the Rotary Wheel. Then you have completed the AREA setting. Press the MENU button to return to the previous menu.
- BLC (Back Light Compensation): When BLC is turned "ON," BLC function will be applied to all the areas set in AREA. When bright light is in the background of an object, the object will appear dark on the monitor due to the backlight. To address this problem, use the BLC function so that you can get clear images.
 - LEVEL: You can set the video output level from "-9" to "+9."
Select "LEVEL [00]" using the Rotary Wheel and press ENTER to change the setting. Press ENTER after changing the setting to save the setting.

- MANUAL...: Sets the manual opening/closing of the Iris.
 - Select “MANUAL...” using the Rotary Wheel and press SET button to display the following screen.



- Set the value using the Rotary Wheel.
- Press the MENU button to return to the previous menu.

SHUTTER

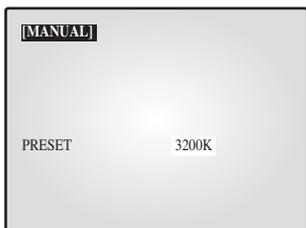
- You can set the high-speed electronic shutter speed, AUTO low-speed shutter speed and FIX low-speed shutter speed.
- High-speed electronic shutter can be set to 7 shutter speeds ranging from 1/120 sec to 1/10K sec. Auto low-speed shutter and FIX low-speed shutter can both be set to 12 shutter speeds ranging from X2 to X128.
- Low-speed slows down the speed of the shutter so that images taken in dark light appear clearer on the screen. Select AUTO low-speed shutter to detect the density of light and automatically slow down the speed of the shutter depending on the density. Select FIX low-speed shutter to set the speed of the shutter manually.
- The numbers following the AUTO and FIX items indicate the number of fields stored. The higher the number is, the lower the speed of the shutter becomes. Images, therefore, appear most clear with still pictures. With moving images, however, the object can appear blurred.
- Setting the Value

From the SHUTTER Menu press ENTER to adjust the values. Select the value using the Rotary Wheel and press ENTER to complete the setting.

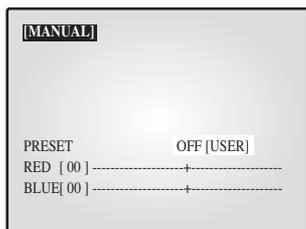
OFF → 1/120 → 1/250 → 1/500 → 1/1000 → 1/2000 → 1/4000 → 1/10K → OFF → AUTO X2 → AUTO X4 → AUTO X6 → AUTO X8 → AUTO X12 → AUTO X16 → AUTO X24 → AUTO X32 → AUTO X48 → AUTO X64 → AUTO X96 → AUTO X128 → OFF → FIX X2 → FIX X4 → FIX X6 → FIX X8 → FIX X12 → FIX X16 → FIX X24 → FIX X32 → FIX X48 → FIX X64 → FIX X96 → FIX X128.

WHITE BALANCE: ATW, AWC, MANUAL...

- You can turn on the White Balance function that enables the color white to appear normal regardless of the color temperature of light.
- ATW : Monitors the change in color temperature and adjusts the setting of the White Balance accordingly .
- AWC : Adjusts the setting of the White Balance to the color temperature only once and then maintains the setting. While in the AWC screen, place a white paper in front of the camera and press the SET button.
- MANUAL... : Select “MANUAL” using the Rotary Wheel and press the SET button to display the following screen. Then you can choose 3200K, 5600K or USER Mode and set the White Balance manually depending on the current lighting conditions.



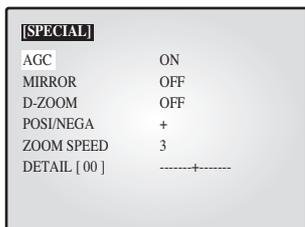
- 3200K : Sets the color temperature at 3200° ΔK.
- 5600K : Sets the color temperature at 5600° ΔK.
- Set to “OFF[USER]” to display the following screen. Press ENTER and then select the proper values of RED and BLUE to manually set the color temperature.



Press the MENU button to return to the previous menu.

SPECIAL...

- Select “SPECIAL..” using the Rotary Wheel and press ENTER to display the following screen. Press the MENU button after completing the setting to return to the previous menu.



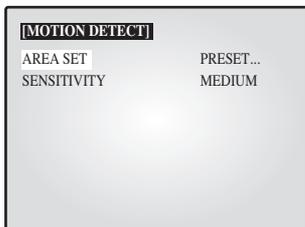
- AGC : AGC(Auto Gain Control) function On/Off.
- MIRROR : Horizontally reverses the video output signals.
- D-ZOOM : Sets the magnifying rate of the Digital Zoom. This system offers up to 10X Zoom.
- POSI/NEGA : Sets the video output signals to either normal or reverse output.
- ZOOM SPEED : Sets the moving speed of the Zoom.
 - 1: Takes about 17 sec from x1 to x 22 (the lowest speed)
 - 2: Takes about 10 sec from x1 to x 22 (low speed)
 - 3: Takes about 6 sec from x1 to x 22 (high speed)
 - 4: Takes about 3 sec from x1 to x 22 (the highest speed)
- DETAIL : Adjusts brightness vertically and horizontally.

FOCUS: Set the Focus to AF, MF or ONEAF.

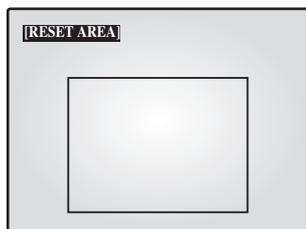
- AF: Auto Focus Mode adjusts the Focus automatically by continuously monitoring the screen .
- MF: Manual Focus Mode allows the user to Focus.
- ONEAF: When the Zoom moves from the Wide to the Telephoto direction, AF occurs only once after the Telephoto function is completed.
 - ONEAF works like MF Mode when there are still images and like AF Mode when the Zoom moves in the Telephoto direction.

MOTION DETECT...

- The Motion Detect feature is used to detect motion of an object. By turning on the Motion Detect, you can detect the motion of an intruder during non-peak hours.
- Select “MOTION DETECT” using the Rotary Wheel and press ENTER to display the following screen. Press the MENU button after completing the setting to return to the previous menu.

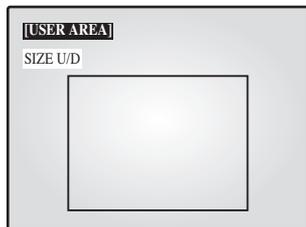


- AREA SET : Sets the area of the screen to which the Motion Detector is applied.
 - PRESET...
 - ▮ Select “PRESET” using the Rotary Wheel and press the SET button to display the following screen. The Motion Detect is applied to the area(s) within the box.



Press the MENU button to return to the previous menu.

- USER...
 - ▮ Select “USER...” using the Rotary Wheel and press the SET button to display the following screen.

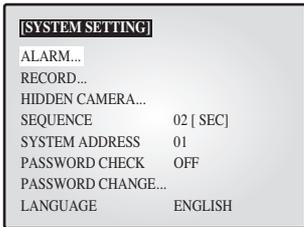


- Adjust the size up/downward using the Rotary Wheel and press ENTER to select and move on to adjust the size of left/right side. Then “SIZE L/R” will appear on the screen.
 - Adjust the size of the left/right side by using the Rotary Wheel and press ENTER to select and move on to adjust the position up/downward. “POSITION U/D” will appear on the screen.
 - Adjust the position up/downward using the Rotary Wheel and press ENTER to select and move on to adjust the position of the left/right side. “POSITION L/R” will appear on the screen.
 - Adjust the position of the left/right side using the Rotary Wheel and press ENTER. Then you will have completed the AREA setting. Press the MENU button to return to the previous menu.
-
- SENSITIVITY: Sets the sensitivity of the Motion Detector to LOW, MEDIUM or HIGH.

4. SYSTEM SETTING

You can change the ALARM, RECORD, HIDDEN CAMERA, SEQUENCE, SYSTEM ADDRESS, PASSWORD, and LANGUAGE settings.

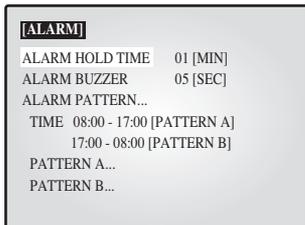
Select “4. SYSTEM SETTING” from the SETUP MENU using the Rotary Wheel and press ENTER to display the following screen.



- Select an item using the Rotary Wheel and press ENTER to change the setting.
- Change the setting using the Rotary Wheel and press ENTER to save the setting.
- Press the MENU button after completing all the settings to return to the SETUP MENU.

ALARM...

- Select “ALARM” using the Rotary Wheel and press ENTER to display the following screen.



ALARM HOLD TIME

ALARM HOLD TIME is the time during which the Alarm continues. You can set the hold time at 5 sec, 15 sec, 30 sec, 1 min, 3 min, 5 min, 10 min, 20 min, 30 min or AUTO. When you select AUTO, the Alarm will be on during the time the Alarm is signaling.

ALARM BUZZER

When the Alarm occurs, the Alarm Buzzer is set off. You can set the duration at 5 sec, 15 sec, 30 sec, 1 min or OFF. When you select OFF, the Alarm Buzzer will not sound.

- Select “ALARM PATTERN” using the Rotary Wheel and press ENTER to display the following screen.



- You can select when to arm and disarm the alarm in two patterns. When you select PATTERN A, The time in PATTERN B will be automatically modified.

- Select PATTERN A using the Rotary Wheel and press ENTER to display the following screen.

[PATTERN A]			
CH	MOTION	ALARM	DOOR-BELL
CH1	OFF	--	OFF
CH2	OFF	--	--
CH3	--	OFF	OFF
CH4	OFF	OFF	OFF
CH5	OFF	OFF	OFF
CH6	OFF	OFF	OFF
CH7	OFF	OFF	OFF
CH8	OFF	OFF	OFF

- Choose On/Off for the Motion, Alarm and Door-Bell features for all 8 cameras.
- Press the MENU button after completing the settings to return to the ALARM Menu.
- Repeat the same for PATTERN B.
- ???

RECORD...

- Select "RECORD..." using the Rotary Wheel and press ENTER to display the following screen.

[RECORD]	
PB THROUGH	OFF
AUDIO RECORD	CH1
SPOT-OUTPUT	CH1

AUDIO RECORD

Sets the channel that sends Audio signals to the recoding output.

SPOT-OUTPUT

Sets the output channel for SPOT which will intensely monitor that channel.

PB THROUGH

PB THROUGH is used only in the P.B. Mode. When you turn on this item, you can see the output of the VCR. This function is effective for setting the VCR Menu or inspecting the VCR for malfunction.

- Press the MENU button after completing the settings to return to the SYSTEM SETTING Menu.

HIDDEN CAMERA

- Select “HIDDEN CAMERA...” using the Rotary Wheel and press ENTER to display the following screen.

[HIDDEN CAMERA]		
CH	LEVE	P.B.
CH1	OFF	OFF
CH2	OFF	OFF
CH3	ON	OFF
CH4	OFF	OFF
CH5	OFF	OFF
CH6	OFF	OFF
CH7	OFF	OFF
CH8	OFF	OFF

- Turn the Hidden Camera On/OFF of in LIVE Mode and P.B. MODE for each channel.
- Press the MENU button after completing the settings to return to the SYSTEM SETTING Menu.

SEQUENCE

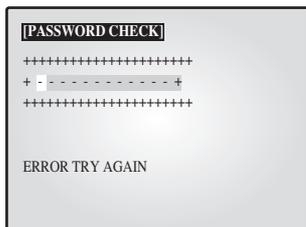
- Set the Switching Interval for Sequence Mode. You can set the time between 1 sec and 30 sec.

SYSTEM ID

- Sets the ID for this system for remote control. You can set the number from 1 to 15 and later choose that number when you control this system using the remote control.

PASSWORD CHECK

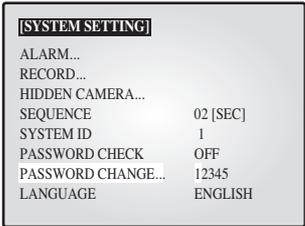
- Turns the Password Check On/OFF for entry into the SETUP MENU.
When PASSWORD CHECK is “ON” for entry into the SETUP MENU, the following screen will appear and the first space for a number will be selected.



- Select the first digit of the Password using the Rotary Wheel and press ENTER to move to the next digit. Repeat this step to enter the six-digit password and press ENTER to return to the SETUP MENU.
- If the Password is not correct, “ERROR TRY AGAIN” will appear at the bottom of the screen. The message will disappear after the first digit of the Password is entered. Repeat this step until you have entered the six-digit password then press ENTER to move to the SETUP MENU. If the number is entered incorrectly more than three times, the display will return to the previous menu.

PASSWORD CHANGE...

- Select “PASSWORD CHANGE...” using the Rotary Wheel and press ENTER to display the current Password on the screen as shown below. The first digit of the number will be selected. (Factory default is 123456.)



- Select the first digit of the Password using the Rotary Wheel and press ENTER to select the second digit. Repeat the same until the six digits of the Password have been entered. Press ENTER to complete the change.
 - You can use “0” to “9” for the Password.

LANGUAGE

- Select the desired language for the use in the Menu. ENGLISH, ESPAÑOL, FRANÇAIS, ITALIANO and GERMAN are available.

5. EVENT LIST

You can check the ALARM/MOTION/LOSS EVENT LIST.

Select “5. EVENT LIST” from the SETUP MENU using the Rotary Wheel and press ENTER to display the following screen.

EVENT LIST			
YY/MM/DD	HH:MM:SS		CH
1. 02/08/30	12:30:01	M	01
2. 02/08/29	12:30:01	A	02
3. 02/08/28	12:30:01	M	08
4. 02/08/27	12:30:01	A	04
5. 02/08/26	12:30:01	A	03
6. 02/08/25	12:30:01	L	01
7. 02/08/24	12:30:01	A	06
8. 02/08/23	12:30:01	M	07
9. 02/08/22	12:30:01	A	01
10. 02/08/21	12:30:01	A	01

- The latest information on Alarms, Loss and Motion Detects will be stored. This system stores up to 50 events (10 x 5 pages) starting from the latest one. You can check the other pages of the List by using the Rotary Wheel.
- Press the MENU button to return to the SETUP MENU.

6. DOOR BELL LIST

To check the EVENT LIST of the DOOR BELL(S).

Select “6. DOOR BELL LIST” from the SETUP MENU using the Rotary Wheel and press ENTER to display the following screen.

DOOR BELL LIST			
YY/MM/DD	HH:MM:SS		CH
1. 02/08/30	12:30:01	D	01
2. 02/08/29	12:30:01	D	02
3. 02/08/28	12:30:01	D	08
4. 02/08/27	12:30:01	D	04
5. 02/08/26	12:30:01	D	03
6. 02/08/25	12:30:01	D	01
7. 02/08/24	12:30:01	D	06
8. 02/08/23	12:30:01	D	07

- The latest information from the Door Bell detector will be stored. This system stores up to 16 events (8 x 2 pages) starting from the latest one. Scroll down the List using the Rotary Wheel and press ENTER to display the still screen of the corresponding Door Bell. Press ENTER to return to the DOOR BELL LIST.
- Press the MENU button to return to the SETUP MENU.

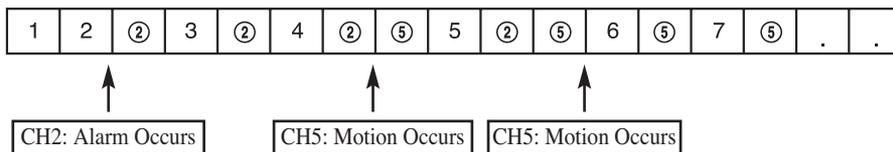
Chapter 6. Recording

1. Recording in Time Lapse (or Normal) Mode

- Input signals transmitted from up to 8 cameras are switched to output signals every 1/30 sec to be recorded by the VCR.
- To record output signals, “RECORD DUTY” for that channel must be set at 1 or above (SETUP MENU → “4. SYSTEM SETTING” → “RECORD...” → “RECORD DUTY”).
- The TRIGGER OUT port of the VCR must be connected to the VIT port of this system.
- When trigger signals from the VCR stop for more than 10 sec, the Self Trigger mode is turned on to continue recording without the trigger from the VCR.

2. Alarm/Motion Channel Double-Recording

- This system double-records channels in case of an Alarm/Motion.
- It records the Alarm/Motion channels in between recording the output channels.
- The “VIDEO LOSS” channel is also subject to the Alarm/Motion Channel Double-Recording.
- Ex.) The ALARM is turned on at CH2.
Then MOTION occurs at CH5.



Chapter 7. Alarm, Motion, Loss and Door Bell

e-42

1. Alarm Occurrence

The Alarm becomes available only when an Alarm Box is connected.

- 1) When an Alarm trigger is received, a warning buzzer sounds and the screen is divided into 9 Live-Mode sub-screens. The word “EVENT” appears on the screen and the Alarm occurrence information is displayed at the right bottom of the screen.

02/06/01	12:30:01	EVENT
CH1	CH2	CH3
CH4	CH5	CH6
CH7	CH8	A 12345678

- 2) Press ENTER (in the middle of the Rotary Wheel) to replay the event in Event Replay mode. Up to 15 screens can be replayed centering on the time of the Alarm. The duration of Replay is displayed in a graph.

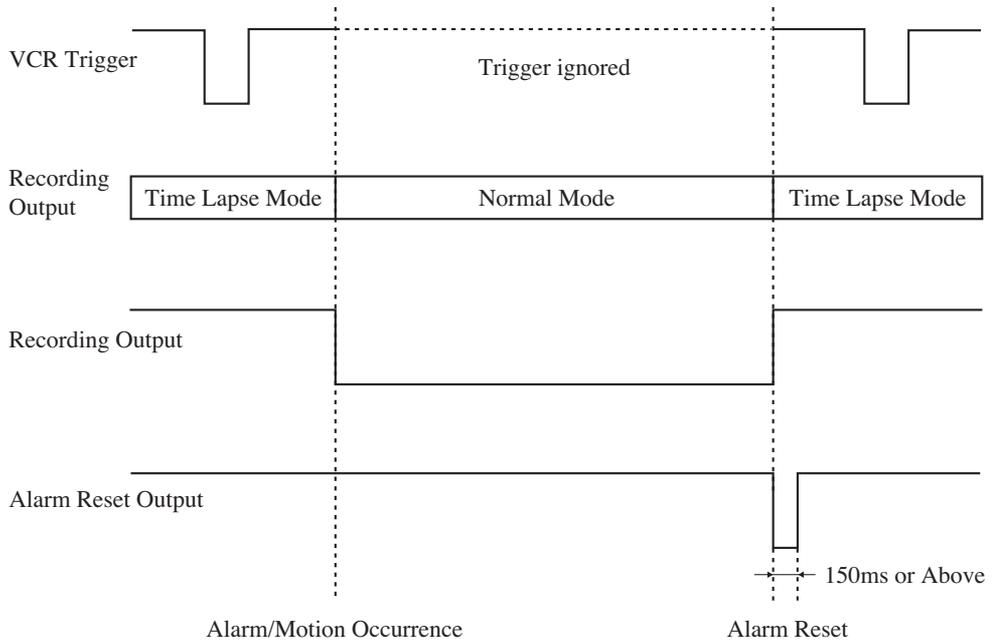
Turn the Rotary Wheel during the Replay to forward or reverse the stored screens one by one.

Press ENTER to terminate the Event Replay. The Event Replay will continue until ENTER has been pressed.

02/06/01	12:30:01	EVENT
1	CH2	CH3
CH4	CH5	CH6
CH7	CH8	ALARM 02/06/01 12:29:30

- 3) Alarm occurrence information is stored in the “EVENT LIST”.
- 4) Alarm Out (HOT, COLD) signals are active during the “ALARM HOLD TIME.”
 - ALARM HOLD TIME : Time during which the Alarm function is carried on after the Alarm is first detected. Alarm Hold Time is reset automatically when Event Replay is turned on.

- 5) Recording output continues in Normal mode until the Alarm is cleared. The recording frequency of the corresponding channel increases.
- 6) Signals change as the Alarm occurs and later clears.



2. Motion Occurrence

The Motion option only becomes available when a camera with Motion features is connected.

- 1) When a Motion trigger is received, a warning buzzer sounds and the screen is divided into 9 Live-Mode sub-screens. The word "EVENT" appears on the screen and the Motion occurrence information is displayed at the bottom right of the screen.

02/06/01		12:30:01	EVENT
CH1	CH2	CH3	
CH4	CH5	CH6	
CH7	CH8	M 12345678	

- 2) Press ENTER (in the middle of the Rotary Wheel) to replay the event in Event Replay mode. Up to 15 screens can be replayed centering on the time of the Motion occurrence. The duration of the replay is displayed in a graph. Turn the Rotary Wheel during the Replay to forward or reverse the stored screens one by one. Press ENTER to terminate the Event Replay. The Event Replay will continue until ENTER has been pressed.

02/06/01		12:30:01	EVENT
1	CH2	CH3	
CH4	CH5	CH6	
CH7	CH8	MOTION 02/06/01 12:29:30	

- 3) Motion occurrence information is stored in the "EVENT LIST".
- 4) Alarm Out (HOT, COLD) signals are active during "ALARM HOLD TIME".
- 5) Recording output continues in Normal mode until the Motion is cleared. The recording frequency of the corresponding channel increases.
- 6) Signal output continues as the Motion occurs and later clears.

3. Loss Occurrence

- 1) When the Loss occurs, a warning buzzer sounds and the screen is divided into 9 Live-Mode sub-screens. The word "EVENT" and Loss channel appears on the screen and the corresponding channel appears Blue Black.

When more than one Loss occurs, that channel number display switches to Blue-Black with a 1 second interval.

02/06/01	12:30/01	L1 EVENT
CH1	CH2	CH3
CH4	CH5	CH6
CH7	CH8	

- 2) Press ENTER (in the middle of the Rotary Wheel) to replay the event in the Event Replay mode. Up to 15 screens can be replayed centering on the time before the Loss occurrence. The duration of the Replay is displayed in a graph.

Turn the Rotary Wheel during the Replay to forward or reverse the stored screens one by one.

Press ENTER to terminate the Event Replay. The Event Replay will continue until ENTER has been pressed.

02/06/01	12:30/01	L1 EVENT
1	CH2	CH3
CH4	CH5	CH6
CH7	CH8	LOSS 02/06/01 12:30:00

- 3) Loss occurrence information is stored in the "EVENT LIST".
- 4) When the corresponding camera is reconnected, the old settings are canceled and the factory default settings are reinstated.

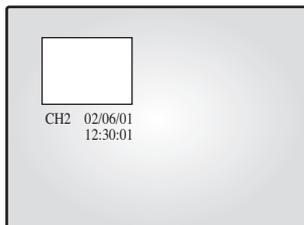
4. Door Bell Occurrence

The Door Bell option is only available when a Door Bell Box is connected.

- 1) When the Door Bell is pressed, a warning buzzer sounds and the screen is divided into 9 Live-Mode sub-screens. The letter “D” is displayed in the screen of the corresponding channel.

02/06/01	12:30:01	
CH1 D	CH2	CH3
CH4	CH5	CH6
CH7	CH8	

- 2) When the Door Bell is pressed, a still screen is stored in the “DOOR BELL LIST”.
- 3) Up to 16 still images can be stored in the “DOOR BELL LIST” and the selected List can be displayed on the screen.



- 4) Select the desired list from “6. DOOR BELL LIST ” in the SETUP MENU and press ENTER in to replay the still screen of the corresponding Door Bell. Press ENTER again to return to the “DOOR BELL LIST”.

Appendix

Specifications

1. Video Input	CAMERA 8 Input : 1.0Vp-p, 75Ω (vertical), RJ-45 Type, CVBS VCR 1 Input (to Video Out of VCR) : 1.0Vp-p, 75Ω (vertical), S-Jack Type, CVBS
2. Video Output	Monitor 2 Output SPOT : 1.0 Vp-p, 75Ω (vertical), S-Jack Type, CVBS SLAVE : 1.0 Vp-p, 75Ω (vertical), S-Jack Type, CVBS VCR 1 Output : 1.0 Vp-p, 75Ω (vertical), S-Jack Type, CVBS
3. Voice Input	CAMERA 8 Input: RJ-45 Type VCR 1 Input (Audio Out - VCR) : S-Jack Type
4. Voice Output	SPOT Audio VCR Audio
5. Alarm/Motion Features: Connected to Alarm Box/Camera	A/O (HOT, COLD): Relay Active A/R (Alarm Reset): Open Collector "L" Level, Pulse Width = 150ms or above Alarm Hold Time: Select 5 sec, 15 sec, 30 sec, 1 min, 3 min, 5 min, 10 min, 20 min, 30 min or AUTO. If AUTO is selected, the Alarm will be on during the time the Alarm trigger is received.
6. Sequence	Select between 01 sec to 30 sec.
7. Event Replay	Alarm/Motion/Loss: Max. 15 Frames (1 Frame/sec) per channel Door Bell: Max. 16 Frames (1 Frame/sec)
8. List	Alarm/Loss/Motion: Max. 50 Door Bell: Max. 16
9. Multiple Screen	Full, 4, 7, 9, Zoom, PIP
10. Horizontal Resolution	400 TV Lines or more (Live Mode Full Screen)
11. Memory Back Up	5 Years or more
12. Operation Temperature	0 °C ~ 40 °C
13. Built-in Clock	± 1 Minute/Month or less

Troubleshooting

You may encounter an unexpected problem while using this system that makes it hard to use the system properly. In many cases, however, they are minor problems rather than serious flaws in the system.

Refer to the following tips for some possible solutions.

When power will not come on	<ul style="list-style-type: none"> • Make sure that the cord is properly plugged in. • Check the power cable.
When the screen does not appear	<ul style="list-style-type: none"> • Check the connections with the camera, accessories and the external monitor.
When record is not working	<ul style="list-style-type: none"> • Make sure the Video In port of the VCR and the VCR Accessory Video Out port of this system are properly connected. • Check if the tape inserted into the VCR is able to record. • Check that the REC Trigger Out port of the Time Lapse VCR is properly connected to the VCR Accessory VTI port of this system when you record in the Time Lapse Mode.
When playback is not working	<ul style="list-style-type: none"> • Make sure the Video Out port of the VCR and the VCR Accessory Video In port of this system are properly connected. • Check if the Display Mode of this system is in P.B. Mode or Triplex Mode.
When the screen does not appear in the Auto Sequence Switch Mode	<ul style="list-style-type: none"> • Check that the screen is in Live Mode. • Check that the time of “SEQUENCE” under the SETUP MENU is properly set.

If the problem persists, contact the local sales representative or service center for support.

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Note

If the problem is related to VCR recording or playback, check the VCR as well.

