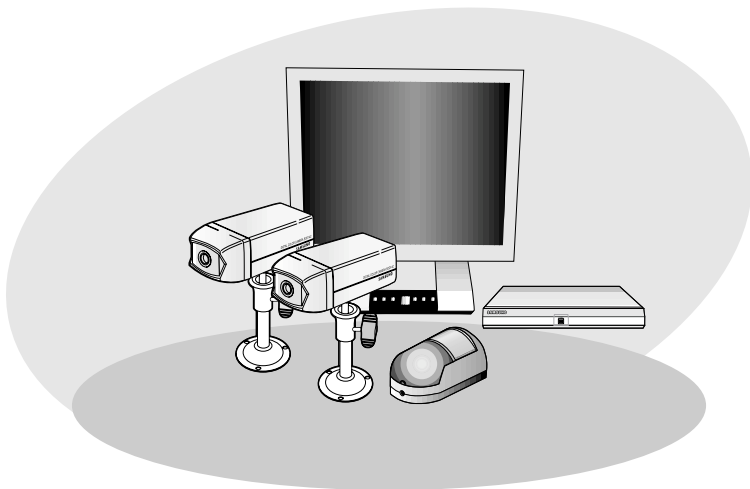
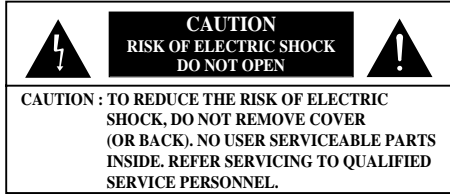


SAMSUNG

COLOR DUAL QUAD OBSERVATION SYSTEM

SSC-17TQ
INSTALLATION
MANUAL





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 Equipment To Rain or Moisture.

IMPORTANT SAFEGUARDS

- 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 appliance and in the operating instructions should be adhered to.
- 4. Follow instructions:** All operating and use instructions should be followed.
- 5. Cleaning:** Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6. Attachments:** Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
- 7. Water and moisture:** Do not use this video product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
- 8. Accessories :** Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product 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 the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.



- 8A.** An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 9. Ventilation :** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 10. Power sources :** This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.
- 11. 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 appliance.
- 12. Lighting :** For added protection for this video product 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 video product due to lightning and power-line surges.
- 13. Overloading :** Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 14. Object and liquid entry :** Never push objects of any kind into this video product 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 video product.
- 15. Servicing :** Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 16. Damage requiring service :** Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions.
 - When the power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the video product.
 - If the video product has been exposed to rain or water.
 - If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instruction, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
 - If the video product has been dropped or the cabinet has been damaged.
 - When the video product exhibits a distinct change in performance this indicates a need for service.
- 17. Replacement parts :** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- 18. Safety Check :** Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

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Chapter 1: System Components and Installation

1-1) Environmental requirements for installation and safety

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%
- Storage humidity: 20% ~ 95%
- Input voltage: AC 100~240V
- Power usage: less than 30 Watts
- Frequency: 50/60 Hz

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).

1-2) System Components

The system consists of the following:

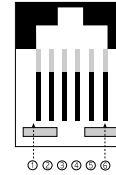
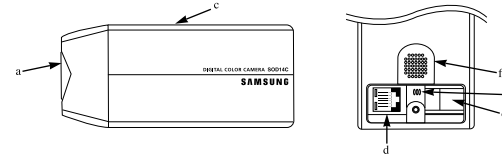


ITEM	MODEL	DESCRIPTION	Q'ty	NOTE
LCD MONITOR	SMT-170	17" TFT-LCD MONITOR	1	-
DIGITAL DUAL QUAD	SOQ-080N	DIGITAL DUAL COLOR QUAD SWITCHER	1	-
STANDARD CAMERA	SOD14C	NORMAL TYPE CAMERA	2	-
PIR CAMERA	SMM-PIRCAM	PIR CAMERA	1	Tapping Screw 4 (HUD 5=2, BH M3 x 30=2)
CAMERA BRACKET	SBR-110	STANDARD TYPE CAMERA BRACKET	2	Tapping Screw 6 (M4 x L15)
CAMERA CABLE	MCB-60	6PIN SHIELD CABLE	2	60ft(1ft=0.3048m)
CAMERA CABLE	MCB-100	6PIN SHIELD CABLE	1	100ft(1ft=0.3048m)
INSTALLATION MANUAL	SSC-17TQ	-	1	-
POWER CORD	-	CBF-POWER CORD	1	-
VCR CABLE	-	BNC DIN CABLE ASSY	1	5P
SENSOR CONNECTOR	-	TERMINAL-BLOCK	2	2P
RACK MOUNT ADAPTERS	-	BRACKET-GUIDE	2	Screw 8 (M4 x 20=4, M3 x 6=4)
ACCESSORY CABLE	RJ-45 CABLE	8PIN SHIELD CABLE	1	60ft(1ft=0.3048m)

• Check whether all the following devices and accessories are included with the main system.

1-3) CAMERA composition and installation method

1) Standard Camera composition (SOD14C)



PIN NUMBER	SPEC
①	SPEAKER(HOT)
②	VIDEO_OUT
③	GND
④	SPEAKER(COLD)
⑤	AUDIO_OUT/ALARM_OUT
⑥	12V DC

a. Lens

It has a focal length of 3.8mm and makes it possible for you to observe a relatively wide area.

b. Microphone

Capable of picking up all sound in the vicinity of the camera location and transmitting to the monitor.

c. Camera fitting groove

Enables the camera to be fixed onto the bracket. You may install it either above or below the camera if necessary.

d. 6-pin modular jack

Used to connect the camera to the monitor.

e. SENSOR jack

Used to connect the sensor to the camera.

f. Speaker

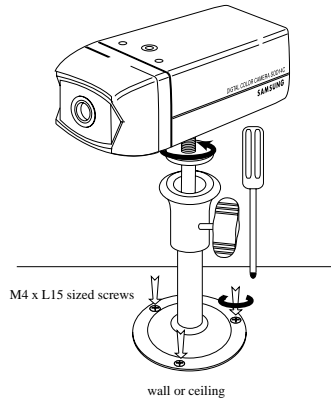
It outputs the sound signal which was transferred from the monitor.

- PIN configuration of the PIR CAMERA is the same as the STANDARD CAMERA.
- But, PIR CAMERA does not provide ALARM JACK.

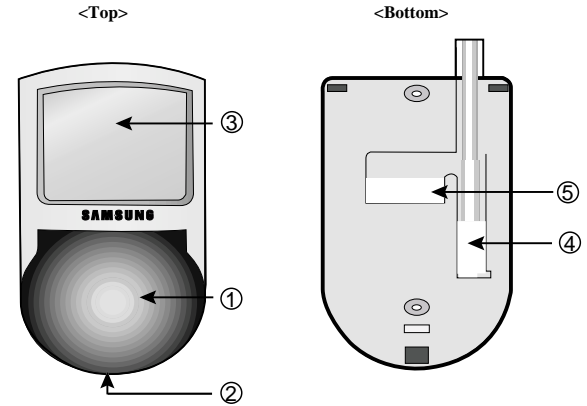
2) INSTALLING STANDARD CAMERA (SOD14C)

SOD14C s camera can be attached to the wall, ceiling or shelf using the camera mount bracket (SBR-110).

Choose an installation site that can sufficiently support the weight of the equipments to be installed. Attach the camera mount bracket to the wall or ceiling using the supplied three screws (M4 X L15). Adjust the camera to target the video location and tighten the bracket handle on the camera mount bracket.



3) PIR Camera composition



① Lens

It has a focal length of 3.8mm and makes it possible for you to observe a relatively wide area.

② Speaker

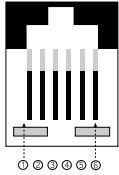
It outputs the sound signal which was transferred from the monitor.

③ Fresnel Lens

An infrared focusing lens for increasing the sensitivity of the built-in PIR sensor.

④ 6-pin modular jack

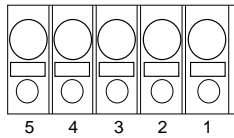
Used to connect the camera to the monitor.



PIN NUMBER	SPEC
①	SPEAKER(HOT)
②	VIDEO_OUT
③	GND
④	SPEAKER(COLD)
⑤	AUDIO_OUT/ALARM_OUT
⑥	12V DC

⑤ 5-Pin Terminal Block

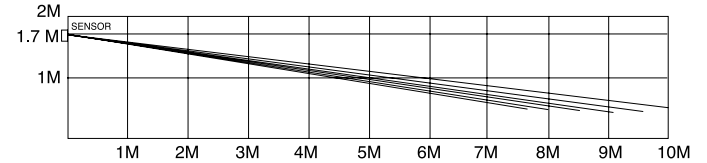
A terminal block for supplying backup power for the PIR sensor operation during power outages and for transmitting the relay signals to external devices during the PIR sensor operation.



PIN	SPEC	
①	Power Input	DC 12 Volts
②	(Back Up)	Ground
③		Not Used
④	Relay Output	COM
⑤	(350V 130mA)	N.C

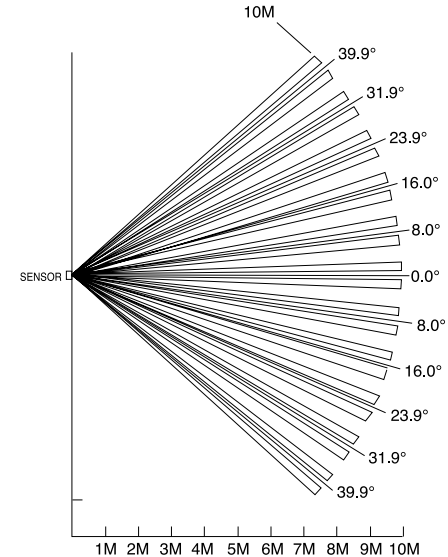
<Sensor Detection Angle & Area>

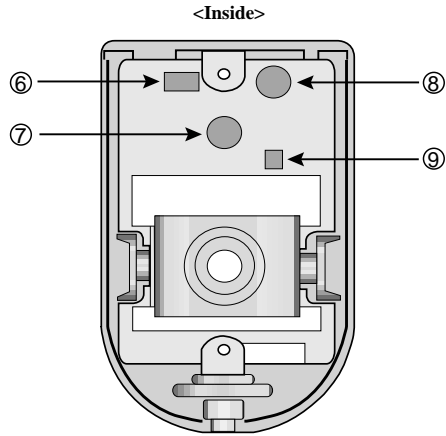
1> Vertical Detection Line



• Please consider the horizontal detection area and the vertical detection line when choosing an installation site.

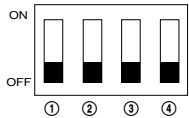
2> Horizontal Detection Area





⑥ **Function Switch**

A function switch for the PIR sensor operation.



PIN	Function
①	Sensor Sensitivity On, On : Low
②	On, Off : Normal Off, On : Normal Off, Off : High
③	Alarm Led On/Off (Sensor On)
④	Sensor On/Off

⑦ **PIR Sensor**

A thermal heat sensor that detects infrared radiation projected by warm objects.

⑧ **Microphone**

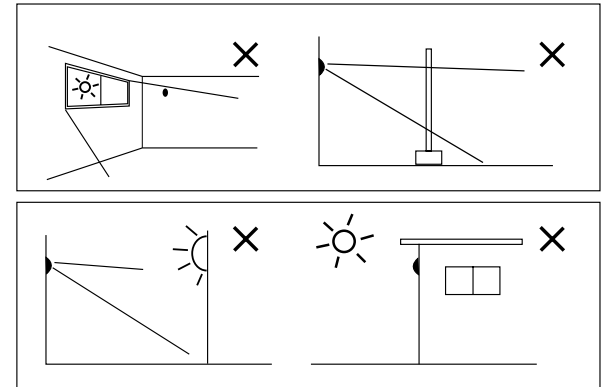
Capable of picking up all sound in the vicinity of the camera location and transmitting to the monitor.

⑨ **Electronic Relay**

Output power is 350V/130mA.

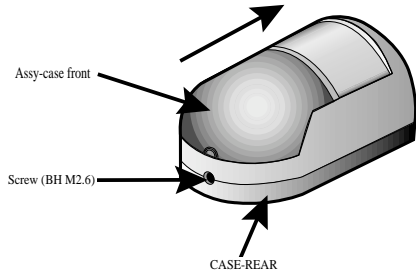
Camera installation Hints

1. Do not install directly towards rising or setting sun. Can cause burn or damage to internal options.
2. Do not limit desired detection zone by interference of curtains, screens, potted plants, etc.
3. Also, do not locate it in front of source of water/oil vapors. Avoid placement of heat source inside detection zone
4. Do not install outdoors.

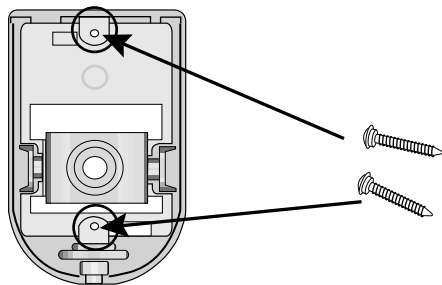


4) INSTALLING THE PIR CAMERA (SMM-PIRCAM)

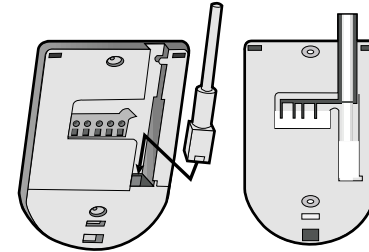
1. Choose an installation site that can sufficiently support 5 times the weight of the equipments to be installed.
2. Remove the screw (BH M2.6) at the bottom of the main unit by turning it counterclockwise, and then lift the assy-case front as you push it upward to detach it from the case-rear.
 (* Do not apply excessive force, as doing so may damage the inside assembly.*)



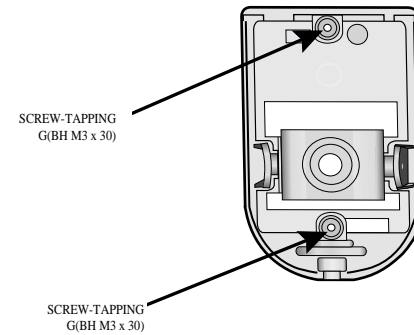
3. Place the case-rear over the installation site and mark screw holes with a pencil (indicated by the circles in the illustration). Drill a pilot hole for each pencil mark (5mm in diameter and at least 35mm in depth), and then fully insert the supplied plastic anchors (HUD 5) into them.



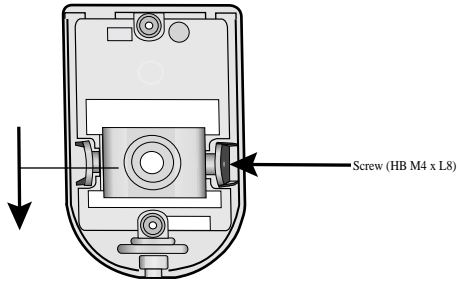
4. Connect the Camera connector(RJ-11) cable to the case-rear as well as the cable to be connected to the terminal.



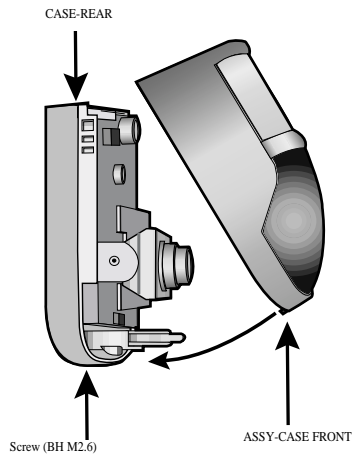
5. Align the two holes of the case-rear to the holes of the plastic anchors, and then fasten the screw-tappings (BH M3 X 30).



6. Adjust the direction of the lens.
- 1) Use the cross (+) screw driver to turn the screw (indicated by the arrow in the illustration) counterclockwise slightly. The lens body will move.
- 2) Tilt the lens body down about 10° from the horizontal, and then turn the screw clockwise to fasten it.



7. Assemble the assy-case front onto the case-rear as shown in the illustration. Fasten the assy-case front to the case-rear with the screw (BH M2.6) you removed earlier.



4) CAMERA MOUNT BRACKET(SBR-110) & STANDARD CAMERA(SOD14C)

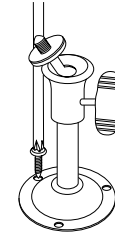
(1) Overview

CAMERA MOUNT BRACKET (SBR-110) is used to attach the camera to a wall, ceiling or shelf.

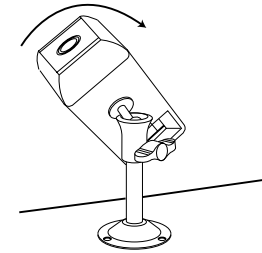
(2) Installation

Explains the installation of CAMERA MOUNT BRACKET as well as the installation of the camera onto the CAMERA MOUNT BRACKET.

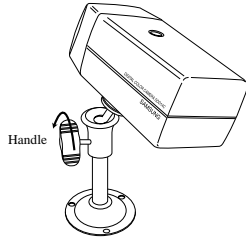
- Choose an installation site that can sufficiently support the weight of the equipments to be installed.
- Attach the camera mount bracket to the wall using the supplied screws (M4 X L15).



- Adjust the camera to target the video location and tighten the bracket handle on the camera mount bracket. Install the camera on to the male screw of the Camera Mount Bracket by rotating the camera in clockwise.



- Loosen the handle by turning it in a counterclockwise direction and then adjust the camera position . Tighten the handle, turning it clockwise, and lock the camera in position.
- Connect the camera cable to the camera.



(3) Specifications

Use : Indoor

Installation : Wall or Ceiling

Dimensions : 57 (W) X 47.2(H) X 100.5(L)

Weight : 150g

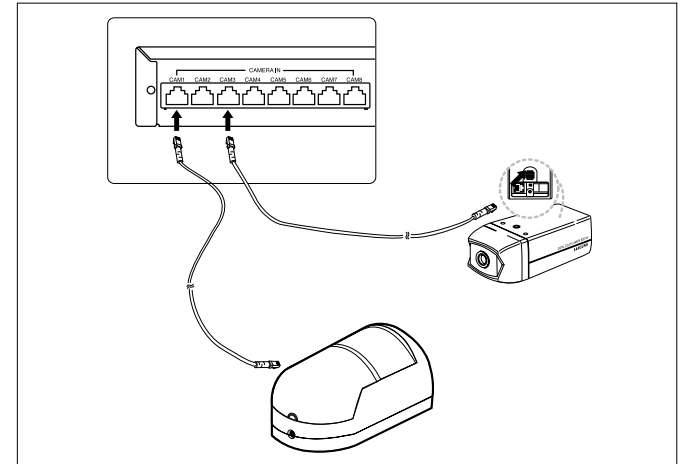
Operating Temperature : -10°C ~ 50°C

(4) Accessories

SCREW (M4 X L15) : 3 pcs

1-4) CAMERA Composition and Connecting Method to SYSTEM

After positioning monitor and installing three cameras to a desired location, please connect CAMERA to SYSTEM through CAMERA CABLE (MCB-60 or MCB-100) as shown in the below figure. Please check whether or not it is properly connected.

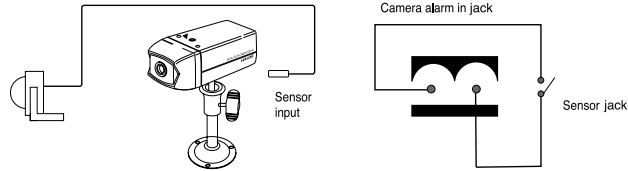


Connection status checking method :

- Turn on the monitor after connecting cameras, and check if camera image is displayed. The initial screen mode of monitor is quad mode.
- If the camera is not connected to the monitor, information on the video loss will be displayed on the black screen.

1-5) External terminal connecting method for CAMERA and SYSTEM

1) External terminal connecting method for CAMERA



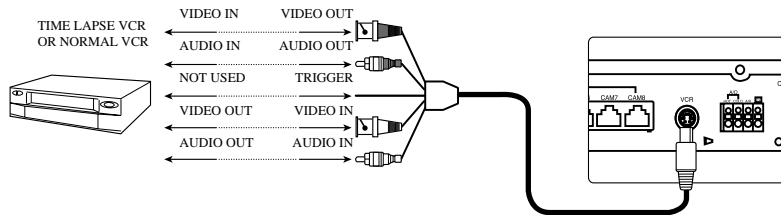
- An additional PIR sensor or external sensor can also be connected.
- The additional PIR sensor can be connected as shown in the above graphic.
- Sensor's trigger signal is NO (Normal Open).
- Sensor is not supplied. (Sold separately)

2) VIDEO OUT BNC (1-8) terminals connecting method of Quad rear

VIDEO OUT BNC1 ~ BNC8 terminals in the rear of the Quad are VIDEO terminals for outputting video images from OBSERVATION CAMERA to THROUGH OUT.

BNC VIDEO output terminal can be used to connect to VCR (TIME LAPSE) or SLAVE MONITOR.

3) VCR or ALARM terminal connecting method



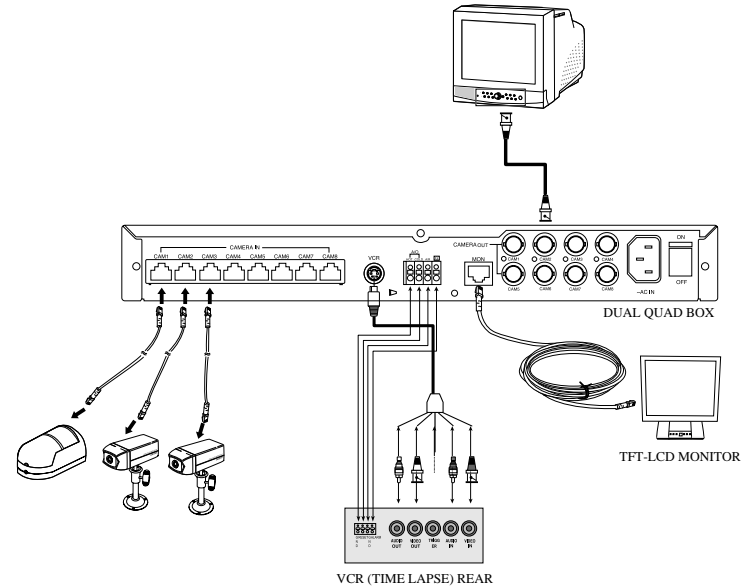
- Connect the 6-pin plug to the VCR terminal on the rear panel.
- Connect the VIDEO OUT plug to the VIDEO IN terminal of the VCR.
- Connect the VIDEO IN plug to the VIDEO OUT terminal of the VCR.
- Connect the AUDIO OUT plug to the AUDIO IN terminal of the VCR.
- Connect the AUDIO IN plug to the AUDIO OUT terminal of the VCR.

- Connect the A/O (HOT) terminal on the rear panel to the Alarm IN terminal of the VCR.
- Connect the A/O (COLD) terminal on the rear panel to the Ground terminal of the VCR.
- Connect the A/R terminal on the rear panel to the Alarm Reset terminal of the VCR.
- Connect the G (ground) terminal on the rear panel to the Ground terminal of the VCR.

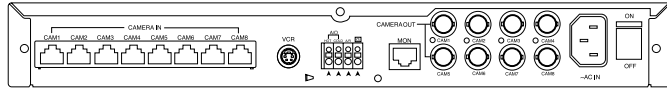
Caution

This Kit is composed of one monitor and three Camera at the Shipping. But this System can accommodate 8 cameras. So you can buy Cameras Supplementally and add those to the system.

1-6) Whole System connection and configuration



1-7) REAR Panel function



a. CAMERA IN (RJ-11)

Video camera input terminals. You Can connect up to 8 Cameras with RJ-11 connectors.

b. CAMERA OUT (BNC)

Video Camera out terminals.

c. VCR

- Connects to the VCR using a 6-Pin connector.
- TRIGGER : Not used
- VIDEO IN/OUT : Video input/output terminal for the VCR
- AUDIO IN/OUT : Audio input / output terminal for the VCR

d. ALARM

- A/O (HOT/WLD) : 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.

e. MON

It Shall be connected to the 17" TFT-LCD Monitor(SMT-170) with a 20M long Cable

f. ~AC IN

Connects the power cord.

g. Power Switch

It turns on or off the power.

1-8) Mounting the DIGITAL DUAL QUAD (SOQ-080N)

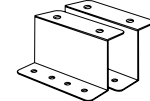
ACCESSORY



Screws (BH M3X6, 4EA)

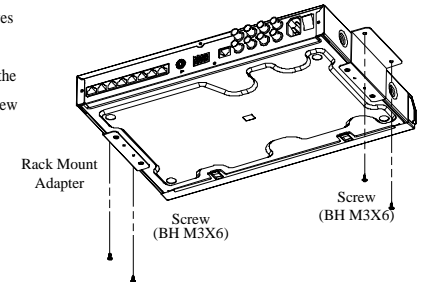


Screws (TH M4X20, 4EA)

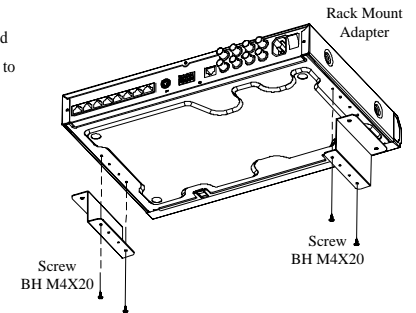


Rack Mount Adapters (2EA)

- 1) Assemble the fixing holes of the BRACKET-GUIDE to the fixing grooves underneath both sides of the ASSY CABINET-BOTTOM, and then screw the BH M3X6 screws into the specified screw holes.



- 2) Once the BRACKET-GUIDE is assembled onto the SET, use the BH M4X20 screws to fix it to the location you want.



Chapter 2: REMOTE CONTROL Function and Using Method

The Remote Controller(REMOCON) is contained in the 17" TFT-LCD Monitor (SMT-170).

2-1) TALK KEY

TALK KEY allows users to transmit voice signal to intended camera by inputting voice with built-in MIC in the front of the monitor. For this function, select a target camera with the ◀ENTER▶ SWITCH on the FRONT PANEL, if a voice signal is generated through the MIC with the TALK KEY pressed, the signal will be transmitted to the camera.

2-2) VOL+/VOL- KEY

Allows users to decrease or increase voice signal generated from the monitor.
VOL+ : Increase sound volume from the monitor.
VOL- : Decrease sound volume from the monitor.

2-3) POWER SAVE- KEY

Allows users to set POWER SAVE MODE of monitor. PICTURE screen is off when the POWER SAVE KEY is pressed, and the ON/OFF status of the monitor can be judged through LED ON/OFF status. Users can exit from POWER SAVE MODE by pressing POWER SAVE BUTTON again under picture "OFF" status. POWER SAVE MODE is automatically cancelled and picture is "ON" when an event such as an alarm or loss at POWER SAVE MODE occurs.

2-4) SET- KEY

Alarm function and loss function can be cancelled while the alarm or loss is working.

2-5) QUAD/PAGE- KEY

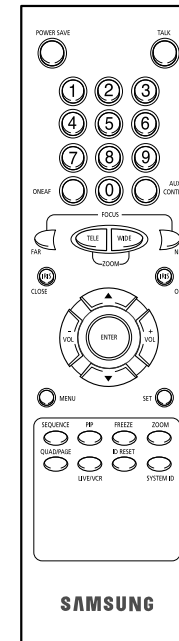
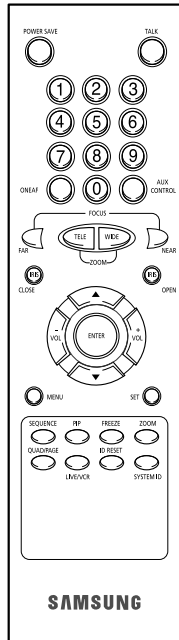
Allows users to display QUAD A or QUAD B at QUAD DISPLAY MODE.

- QUAD A: QUAD DISPLAY MODE from Camera 1 to Camera 4
- QUAD B: QUAD DISPLAY MODE from Camera 5 to Camera 8

2-6) LIVE/VCR- KEY

Allows users to switch LIVE MODE to VCR MODE or VCR MODE to LIVE MODE. If VCR MODE is cancelled, the QUAD picture of LIVE MODE will be automatically displayed. In case any event happens at VCR MODE such as LOSS or ALARM, the MODE will be automatically switched to LIVE MODE, and the pre-set operation for the event will be carried out. If there is no external input at VCR MODE, the ICON "📺" will be displayed.

- LIVE MODE: Image and voice signal from CAMERA is displayed.
- VCR MODE: External image and voice signal from VCR terminal from the rear of the monitor is displayed.



2-7) PIP- KEY

Can be used to see the main screen while Single screen is displayed. The main screen can be changed and transferred to another channel while PIP is working. Please refer to "CHAPTER 4. DISPLAY MODE SETTING" for PIP function and details.

2-8) FREEZE- KEY

This key allows users to see a target camera picture at PAUSE MODE. If users select the camera with the **ENTER KEY**, and press the FREEZE BUTTON, the FREEZE ICON will be displayed on pause picture from the camera. In Freeze mode, all keys other than the ZOOM key will be disabled. Other keys will be enabled again once the Freeze mode is canceled.

2-9) SEQUENCE- KEY

It makes a picture switch sequentially. This means that display the picture will be displayed during the DWELL TIME pre-set at the DWELL MENU of SETUP MENU, and switch the picture automatically as a pre-set sequence. Please refer to Chapter 3. DWELL TIME MENU function and setting method for details of DWELL TIME setting.

2-10) ZOOM- KEY

It zooms a part of a picture doubling it in the display. If the ZOOM BUTTON is pressed, zoom area will be displayed. Use the UP, DOWN, LEFT(-), RIGHT(+) buttons to move the zoom area to the location you want to zoom in. After moving the zoom area to the location you want to zoom in, press the ENTER button. The zoom area will be zoomed in by 2X.

2-11) SYSTEM ID - KEY

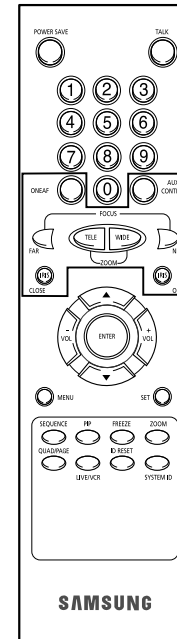
Selects the system to control with the remote. Only the remote control has this button.

2-12) ENTER- KEY

As a multi functional ENTER key, it is used for 1. entering from the menu into the submenu, 2. moving into the full screen of selected channel.

2-13) MENU- KEY

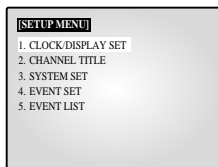
Display the Setup menu on the screen. Press it again to exit the Setup menu.



Note
 The Keys inside this line are not related with System functions.
 When these keys are pushed, only beep Sound are generated.

Chapter 3: Setting each item function at SETUP MENU

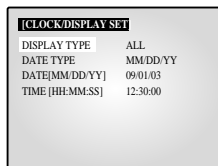
Pressing the MENU BUTTON of the FRONT PANEL allows users to enter SETUP MENU and see the following menu OSD box. Setting method of each SETUP MENU function and operation is as follows.



3-1) CLOCK/DISPLAY SET MENU function setting

- You may change DISPLAY TYPE, DATE TYPE, or TIME.

If you click the UP/DOWN button to select 1. CLOCK/DISPLAY SET in the SETUP MENU and click the ENTER button the following screen will be displayed.



- You may click the LEFT/RIGHT button to change the preset value after you set a value with the UP/DOWN button.
- Press the MENU button to return to the SETUP MENU.

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: MM/DD/YY ↔ YY/MM/DD ↔ DD/MM/YY.

DATE [MM/DD/YY]

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

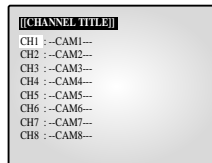
TIME [HH:MM:SS]

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

3-2) CHANNEL TITLE MENU function setting

You may change CHANNEL TITLE.

If you click the UP/DOWN button to select 2. CHANNEL TITLE in the SETUP MENU and click the ENTER button, the following screen will be displayed.

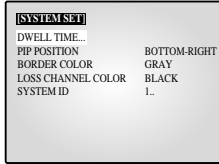


- If you click the UP/DOWN button to select CHANNEL and click the ENTER button, the first “-” will be selected.
- If you click the LEFT/RIGHT button to select a text and click the ENTER button, the system will be prepared to select the next text(in the order of: 0123456789 : = , () □ ABCDEFGHIJKLMNOPQRSTUVWXYZ[/] _ ~ ◀ +
- Repeat the same to select all the desired letters. (You can choose up to ten letters.)

3-3) SYSTEM SET MENU function setting

You may change DWELL TIME, PIP POSITION, BORDER COLOR, LOSS CHANNEL COLOR, SYSTEM ID.

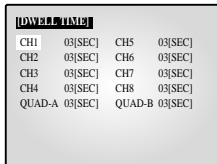
If you click the UP/DOWN button to select 3. SYSTEM SET in the SETUP MENU and click the ENTER button, the following screen will be displayed.



- Select an item with the UP/DOWN button and change the preset value with the LEFT/RIGHT button.
- Press the MENU button after completing all the settings to return to the SETUP MENU.

DWELL TIME...

- Select DWELL TIME... with the UP/DOWN button and click the ENTER button. Then the following screen pops up.



- Use the UP and DOWN buttons to move the item you want to set, and then use the LEFT and RIGHT buttons to change the setting value.
- Press the MENU button after completing the settings to return to the SYSTEM SET Menu.

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

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

BORDER COLOR: GRAY ↔ WHITE ↔ BLACK.

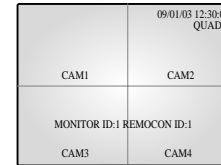
- GRAY : BORDER LINE COLOR is displayed in GRAY in Multi Screen mode
- WHITE : BORDER LINE COLOR is displayed in WHITE in Multi Screen mode
- BLACK : BORDER LINE COLOR is displayed in BLACK in Multi Screen mode.

LOSS CHANNEL COLOR: BLACK ↔ BLUE.

- BLACK: The area corresponding to the channel where video loss has occurred will be displayed in black.
- BLUE: The area corresponding to the channel where video loss has occurred will be displayed in blue.

SYSTEM ID

- This function allows the user to control a single monitor using the remote control when multiple (up to 10) monitors are linked together. Only those monitors with IDs matching the Remote Control ID will be controlled by the remote control.



- **Setting :** The default value of the monitor and remote control 1 . The value of the Monitor ID can be set from 0 to 9 by accessing the SYSTEM ID Setup mode under the SYSTEM SET menu. Press the SYSTEM ID button on the remote control to display the Monitor ID and the Remote Control ID as shown above. Enter the desired number by pressing the corresponding button (0 to 9) to set up the Remote Control ID. The OSD will disappear four seconds after the last button is pressed.

3-4) EVENT SET MENU function setting

You may change EVENT HOLD TIME, EVENT BUZZER, EVENT DETECT.

If you click the UP/DOWN button to select 4. EVENT SET in the SETUP MENU and click the ENTER button, the following screen will be displayed.

[EVENT SET]	
EVENT HOLD TIME	01 [MIN]
EVENT BUZZER	ON
EVENT DETECT...	

- Select an item with the UP/DOWN button and change the preset value with the LEFT/RIGHT button.
- Press the MENU button after completing all the settings to return to the SETUP MENU.

ALARM HOLD TIME : 01[MIN] → 03[MIN] → 05[MIN] → 10[MIN] → 20[MIN] → 30[MIN] → AUTO → 05[SEC] → 15[SEC] → 30[SEC] → ...

- An event operation will be carried out for the duration of the event hold time that has been set.

EVENT BUZZER : ON/OFF

- ON : The buzzer will sound for the duration of the event hold time when an event occurs.
- OFF : The buzzer will not go off even if an event occurs.

EVENT DETECT...

- Select "EVENT DETECT..." with the UP/DOWN button and click the ENTER button.

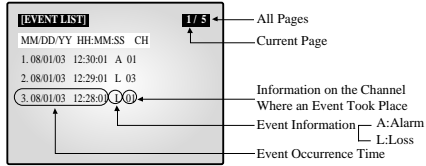
Then the following screen pops up.

[EVENT DETECT]		
CH	ALARM	LOSS
CH1	ON	ON
CH2	ON	ON
CH3	ON	ON
CH4	ON	ON
CH5	ON	ON
CH6	ON	ON
CH7	ON	ON
CH8	ON	ON

- Use the UP/DOWN button to move to the item you want to set, and then use the ENTER and LEFT/RIGHT buttons to change the setting.
- Press the MENU button after completing the settings to return to the EVENT SET Menu.

3-5) EVENT LIST MENU function setting

You can check the ALARM/LOSS EVENT LIST. If you click the UP/DOWN button to select
 5. EVENT LIST in the SETUP MENU and click the ENTER button, the following screen will be displayed.



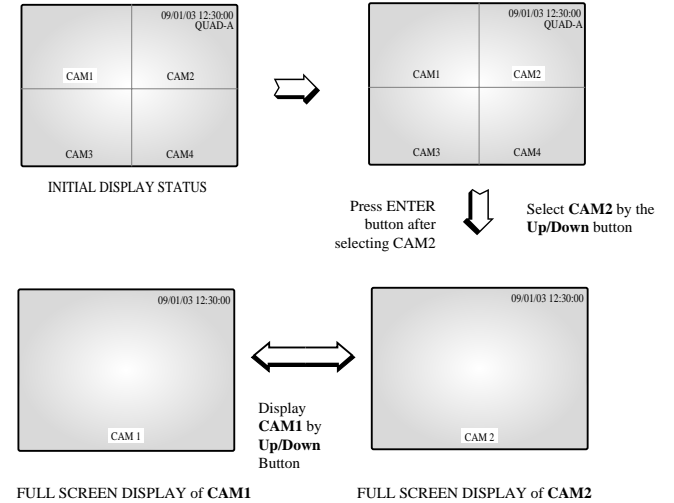
- The latest information on Alarms and Loss Detects will be stored. This system stores up to 50 events (10 x 5 pages) starting from the latest one. You can click the UP/DOWN button to check the list of other pages.
- Press the MENU button to return to the SETUP MENU.

Chapter 4: DISPLAY MODE setting method

4-1) SINGLE SCREEN DISPLAY

The initial display mode is QUAD A mode. Use the UP and DOWN buttons to select the channel you want to view on a single screen, and then press the ENTER button. The channel you selected will be displayed on a single screen.

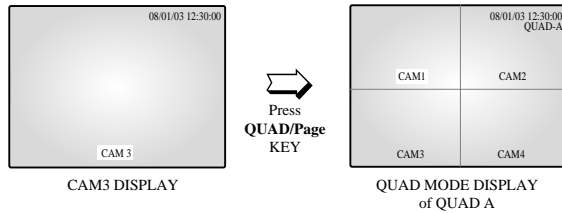
Alternatively, you can press the corresponding channel number key on the remote control to switch to a single screen.



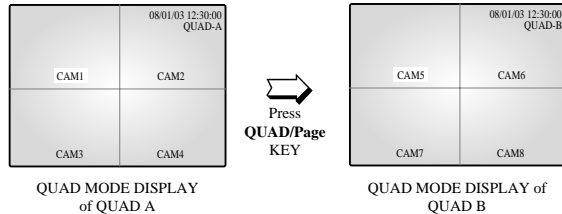
4-2) QUAD MODE DISPLAY

Users can switch SINGLE DISPLAY MODE and SEQUENTIAL DISPLAY MODE to QUAD DISPLAY MODE, or QUAD A (QUAD B) to QUAD B (QUAD A), or PIP MODE to QUAD MODE, press the QUAD/PAGE KEY.

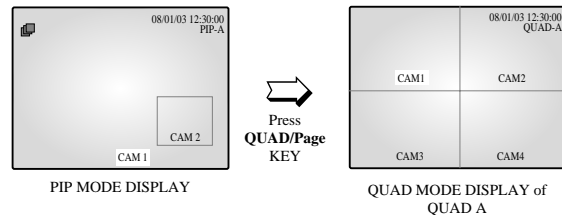
* At QUAD MODE display from SINGLE MODE or SEQUENCE MODE,



* At QUAD B(QUAD A) display from QUAD A(QUAD B),



* At QUAD B(QUAD A) display from PIP MODE,

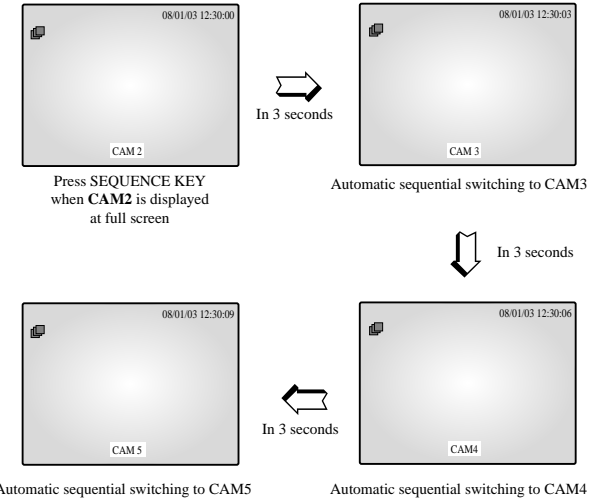


4-3) AUTO SEQUENTIAL DISPLAY MODE

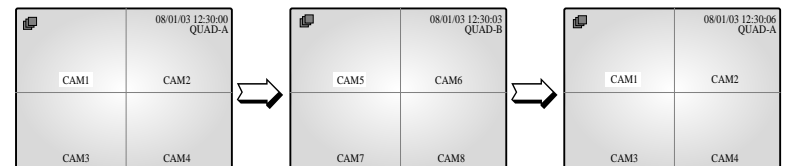
Pressing on the SEQUENCE KEY on the front allows screen to automatically switch to SINGLE MODE full screen or QUAD MODE. ('no-signal' channels will be skipped while single screen is auto-switching.)

If the DWELL TIME SETTING of SETUP MENU is set to 3 seconds and the SEQUENCE KEY is pressed at this time, the operation will be carried out as follows.

* SINGLE MODE SEQUENCE DISPLAY



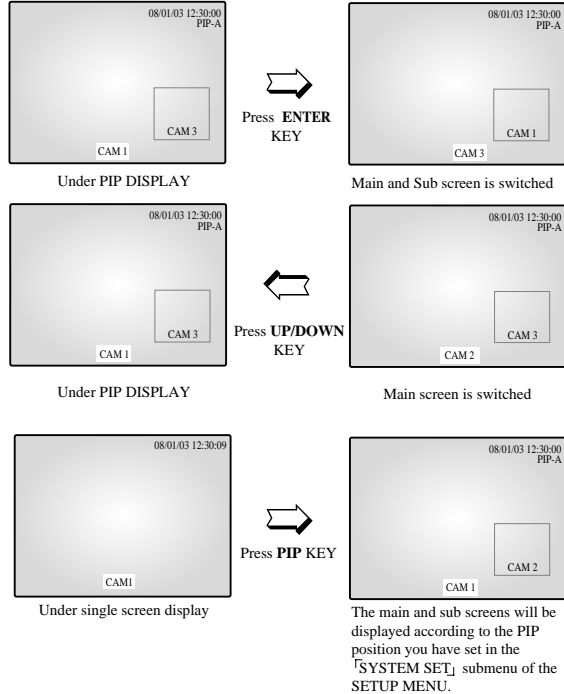
* QUAD MODE SEQUENCE DISPLAY



4-4) PIP MODE DISPLAY

This is available in Single Screen mode.

When in a PIP screen, you can use the UP and DOWN buttons to change the main channel and use the ENTER key to switch between the main and sub screens. In addition, you can change the location of the sub screen in the SYSTEM SET submenu of the SETUP MENU.



- * When sub picture is fixed if you push the sequence key, channel of related page (Quad A or B) except main channel will be switching according to the dwell time setting value. However, any loss channel will be skipped during the switching.
- * Sequence mode is toggled by sequence key.

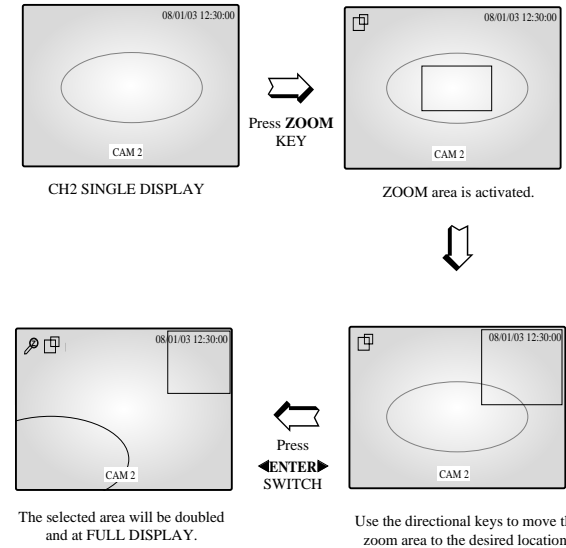
4-5) ZOOM MODE DISPLAY

While in a single screen display, press the ZOOM key to display the zoom area.

Use the LEFT, RIGHT, UP, and DOWN keys to move to the area you want to zoom in, and then press the ENTER key. The area you selected will be displayed enlarged by 2x.

While the zoomed area is displayed, you can use the directional keys to move the zoom area to the location you want to monitor.

To exit from ZOOM mode, press the ZOOM key again. The screen will return to Single Display mode.



Chapter 5: Each product feature

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SOD14C : Standard Camera

Model Name	SOD14C
Broadcasting System	NTSC STANDARD
Imaging Device	1/4 "SUPER HAD IT CCD
Effective Pixels S	510(H) x 492(V)
Synchronization	Internal
Resolution	H :330 TV Lines, V: 350 TV Lines
Signal Output	VBS 1.0Vp-p(75ohms composite)
S/N Ratio	≤ 48 dB
Minimum Scene Illumination	2lux(F2.0, 50 IRE)
Gamma Correction	0.45
Lens	Focal Length (f) : 3.8mm, Aperture Ratio (F) : 2.0
Auto Exposure	Electronic Shutter Iris
Audio	-40dB Condenser Microphone Inclusion
I/O Connectors	Modular jack (RJ-11)
Operating Temperature	-10 ~ +50 °C
Power Source	DC 12V
Power Consumption	Approx. 2W
Dimensions	57(W) x 47.2(H) x 100.5(L)
Weight	150g

SMM-PIRCAM : PIR Camera

Model Name	SMM-PIRCAM
Broadcasting System	NTSC STANDARD
Imaging Device	1/4" SUPER HAD IT CCD
Effective Pixels	510(H) x 492(V)
Synchronization	Internal
Resolution	330 TV Lines(H), 350 TV Lines(V)
Signal Output	VBS 1.0Vp-p(75ohms composite)
S/N Ratio	≤ 48 dB
Minimum Scene Illumination	2 lux(F2.0, 50 IRE)
Gamma Correction	0.45
Lens	Focal Length (f) : 3.8mm, F Number : 2.0
Auto Exposure	Electronic Shutter Iris
PIR Sensor	<p>Mounthy height : 1.5m to 3m (5ft to 10ft)</p> <p>Warm-Up Period :Max. 50 seconds</p> <p>Spectral Response : 5 to 14 um</p> <p>Sensitivity : 4860(V/W)</p> <p>Detectivity : 1.5 x 10⁶cm Hz^{-3/2}/W</p> <p>Sensor : Off/On</p> <p>Alarm LED : Off/On (0.3 to 2 second)</p> <p>Alarm Output : NC (350V/130mA)</p>
Audio	-40 dB Condenser Microphone Inclusion
I/O Connectors	Modular jack (RJ-11)
Operating Temperature	-10 ~ +50 °C
Power Source	DC 12V (Camera & Sensor from Monitor) DC 12V (External Power Supplier)
Power Consumption	Approx. 2W
Dimensions	40(W) x 69.5(H) x 115(L) mm
Weight	About 200g

e-43

Memo

SOQ-080N : DIGITAL DUAL QUAD

Video Input	<ul style="list-style-type: none"> CAMERA 8 Input: 1.0Vp-p(CVBS), 75Ω VCR 1 Input (to Video Out of VCR) : 1.0Vp-p, 75Ω
Video Output	<ul style="list-style-type: none"> BNC 8 Output: 1.0 Vp-p, 75Ω, S-Jack Type, CVBS VCR 1 Output: 1.0 Vp-p, 75Ω, S-Jack Type, CVBS
Voice Input	<ul style="list-style-type: none"> CAMERA 8 Input: VCR 1 Input (to Audio Out of VCR) : S-Jack Type
Voice Output	<ul style="list-style-type: none"> CAMERA 8 Input: VCR 1 Output: S-Jack Type
Alarm/Motion Features: Connected to Alarm Box/Camera	<p>A/O (HOT, COLD) : Relay Active</p> <p>A/R (Alarm Reset) : Open Collector "L" Level, Pulse Width =150ms or above</p> <p>Alarm Hold Time : Select 5 sec, 15 sec, 30 sec, 1 min, 3 min, 5 min, 10 min, 20 min, 30min., or AUTO</p>
Sequence	Select between 00 sec to 30 sec.
Event List	(max) 50 case
Display mode	Single mode, Quad A mode, Quad B mode, PIP, Sequence Freeze, Zoom(X2)
Horizontal Resolution	400TV Lines or more (Live Mode Full Screen)
Operation Temperature	0 °C ~ 40 °C
Dimension (W x D x H (mm))	345 x 240 x 48 mm
Weight	Approx. 1.8 kg(exclusive of packing materials)
Power consumption	30W
Video system	NTSC VIDEO SYSTEM
Operation Humidity Range	0~90%
AC Input Ranges	AC100 ~ 240V(50/60Hz)

Memo



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Carrollton, TX. 75006
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Part No.: AB68-00403A (Rev.01)
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