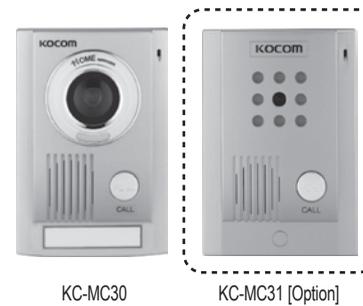




## KCV-801 Series MANUAL

[ Operating Installation Manual ]



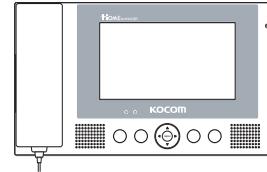
KC-MC30

KC-MC31 [Option]



KCV-801, KCV-801R / KCV-D801, KCV-D801R

- 7inch LCD
- Communication with door and door monitoring
- Door open during communication
- Intercom function between extended indoor units
- Surface mount type installation
- Connection with upto 2 door cameras,  
2 monitors and 2 sub audio phone (KDP-602G)
- 4 melody selection



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## Warnings & Cautions for Safety

### For safe use, please stick to the following cautions.

- Read this cautions carefully and keep it within easy reach of you.
- For right installation, read this cautions thoroughly. Please install the product according to its specifications.
- This Cautions for Safety may include items that are not contained in specifications of the product that consumer purchases.
- Reading this cautions, use the product in a right manner. For further information, please contact our A/S center.

### About Symbol

A variety of symbols are used in this Cautions for Safety and your products to guide you to use products in a right and safe manner and to prevent possible risks for users and other persons and damages to their property. The meaning of each symbol is as follows. After fully aware of meaning of each symbol, read the following cautions.

-  This symbol means that wrong handling or ignorance of matters that this symbol indicates may cause serious injury or even death of user.
-  This symbol means that wrong handling or ignorance of matters that this symbol indicates may cause serious injury or property damage of user.
-  This symbol means the matter that user should not do at any event.
-  This symbol means that user should follow the instructions.
-  This symbol means that contents (high voltage, electric shock, warnings, etc.) to which user should pay attention are included.
-  This symbol means that a certain action is not permitted. Specific points not permitted are depicted around this symbol (for example, in the left drawing, disassembly is not permitted.).
-  This symbol means instructions or is used to force user to do a certain action. Specific instructions are depicted on the drawing (for example, the left drawing instructs user to detach power plug from an outlet).

## Warnings

### Warnings for disposal

- Do not throw used-up battery into fire places, which may cause fire and explosion.

## Cautions

### Cautions for installation

- The relevant law obliges users to have a qualified electrician carry out wiring work for power supply. Work by disqualified persons may cause fire and electric shock.
- Wiring work for communication cables need techniques and experiences. For this type of wiring work, please consult to your local sales agent.
- According to the standard for electric work and other relevant regulations, install communication cables at the place away from power cables. The failure to install cables separately may cause fire, electric shock and communication troubles.
- Do not install the product on rolling table or sloping place. Dropping or falling may cause damage on your product.
- In installation, avoid the place exposed to tremor or shocks, which may cause damages on your product.
- Even if your product is waterproof, do not install it slanted place of water leakage, which may cause a short circuit.
- For the product of wall-mounting type with fixing pegs, keep it safely. Fixing pegs may cause injury of user.
- Install the product of wall-mounting type carefully not to drop from the wall. Dropping due to earthquake or tremors may cause injury of user.
- When installing the product on the wall, consider the thickness and material of the wall. Dropping in use may cause injury of user.

### Cautions for Use

- Do not put heavy thing on the product. Dropping or falling due to heavy things on it may cause injury of user.

### Cautions for Repairs and Maintenance

- Clean the dust inside the product regularly. Failure to clean the dust for long time may cause fire. For inspection and cleaning of the inside of product, please contact your local sales agent.
- When putting your hands into the inside of equipment, be sure that plug is already detached from an outlet or circuit-breaker is turned off.
- Be careful not to expose the product to benzene, thinner or hot water.
- Do not expose detergent directly to the product in a way of spraying, etc.
- Moving equipment, be sure that the plug is detached from an outlet.
- For equipment whose cables are connected to terminals, please contact your local sales agent or qualified electrician.
- When replacing old fuse with new one, do not directly touch it with bare hands. Use insulated tools or contact A/S center.

## Warnings

### Cautions for Use

- Do not install the product at bathroom or at the place near a washing machine, or at other humid places.  
It may cause fire or electric shock.
- Do not install the product at the place near a dresser, humidifier or heater. Also avoid the place exposed to spark, heat or humidity. All of them may cause fire and electric shock.
- Do not install the product at the place exposed to dust, metals and harmful gas such as hydrogen sulfide gas.  
All of which may cause fire and electric shock.
- Do not install the product at the place exposed to water and chemicals. This may cause fire and electric shock.
- Do not scratch, break or arbitrarily process power cable, which may cause fire and electric shock. Putting a heavy thing on a cable, heating it or pulling it, may cause impairment on it.
- Do not place power cable at the place near heating equipment. It may cause damage of cable's clothing material, which results in fire and electric shock. When detaching plug from an outlet, do not pull power cable.
- Damages on power cable may cause fire and electric shock. When detaching plug from an outlet, please hold the plug tightly.
- Do not detach plug from an outlet with wet hand. It may cause electric shock.



- When using the existing wiring, be sure of the suitability of it to the product and install the product.  
Failure to this caution may cause fire.



- When moving equipment, be sure that plug is detached from an outlet and communication cable is disconnected.  
Damage on cables may cause fire.



- Voltage other than prescribed rated voltage is not permitted, which cause fire and electric shock.
- Do not use power terminal of product's main body in other equipment than prescribed ones.  
It may cause fire and short-circuit.



- In wiring work, use the designated wiring materials.  
Wiring work using other materials than designated ones may cause fire.



- The equipment without waterproof marking should not be installed at the place water leaks.  
It may cause electric shock and short circuit.
- When working, be sure that power is disconnected. Failure to disconnect power may cause electric shock.



- Be sure that the power cable is connected and earths according to designated method.  
Failure to connection and earth may cause fire.



- Do not connect power to other terminals than designated ones.  
It may cause fire and electric shock.



- When building a system with the product, do not connect the product to other equipment than designated one.  
It may cause fire.



- When installing A/C switch, do work after removing the substance that may cause short circuit or electric shock.
- Before installing or providing A/S service, be sure that the power is disconnected.

## Warnings

### Cautions for Use

- This product is not for perfect security solution.
- Do not handle the equipment with wet hand, which may cause electric shock.
- Do not place wet or metallic materials on equipment. Water leakage or intrusion of metallic materials may cause fire and electric shock.
- Do not block the ventilating opening of equipment or put alien substances into it, which may cause fire and electric shock.
- Do not use battery that is not designated or mix new battery with old ones. Insert batteries to fit their polarity.  
Explosion or leakage of battery may cause fire and injury of user.
- When visitor's image or voice is not displayed on screen or not sounded from speaker, please check his/her identity before opening the door and contact our A/S center.
- Do not use equipment when lightning is expected or strokes. It may cause fire and electric shock.
- This product is cannot be used for security.



- Do not open rear cover, cabinet and cover of equipment.  
It may cause electric shock.



- Do not modify power cable or pull it with excessive strength, which may cause fire and electric shock.
- Do not modify equipment. It may cause fire and electric shock.
- Call signal may cause damage on user's hearing ability.



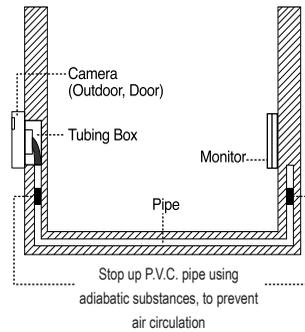
### Cautions for Abnormality

- When power cable is broken (exposure of core or short-circuit), do not fail to replace broken cable with new one.  
Failure to replace broken power cable may cause fire and electric shock.
- When detecting any abnormalities in equipment (communication is not available, images do not be displayed on screen, calling is not available, or abnormal sound is heard), immediately detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) before requesting repairs to sales agent or A/S center. Keeping connection to power supply may cause fire and electric shock.
- When alien substances go into equipment, immediately detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) before requesting repair to sales agent or A/S center.
- In the case of smoke or smell of unknown origin from equipment, keeping use it may cause fire and electric shock. Detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) and be sure to check no more smoke or smell from equipment before requesting repair to sales agent or A/S center. Since personal repairing work by user may serious accidents. In any case, do not repair equipment with your own hand.
- When dropping equipment or breaking its cabinet, detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) before requesting repair to sales agent or A/S center.  
Keeping use equipment may cause fire and electric shock.
- Avoid direct exposure to sunlight and store equipment at the place free from dust and high temperature as you can. High temperature of equipment may cause fire and electric shock.



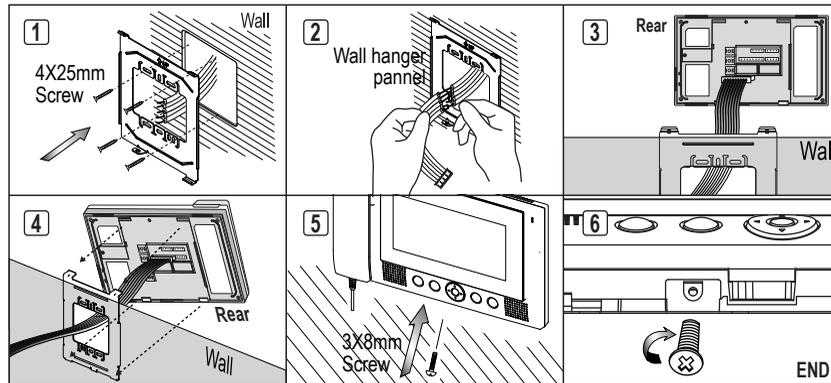
## Installation Precaution

- Monitor and camera must be installed away from direct light and counter light.
- Camera must be installed at a place free from rain.
- Standard height of monitor must be 1,450mm~1,500mm from ground and centered around monitor screen.
- Camera should be installed on the wall in which cement is completely dry.
- If installed during winter season at temperature below -5°C, condensation might be generated inside monitor and camera due to temperature difference between indoors and outdoors. To prevent breakdown due to such condensation, connection should be made in 2 hours or more after installation.
- Do not install monitor and camera in locations subject to direct heating as harmful gases may subsequently be emitted in significant amounts.



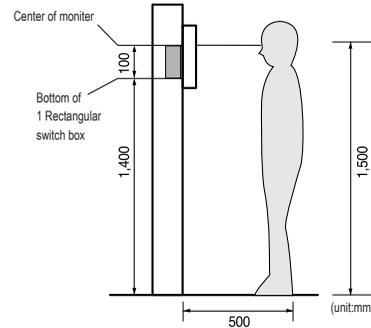
※ Stopping up pipe as above minimizes temperature difference between indoors and outdoors, and also eliminates moisture and condensation on door camera window.

## Monitor Installation



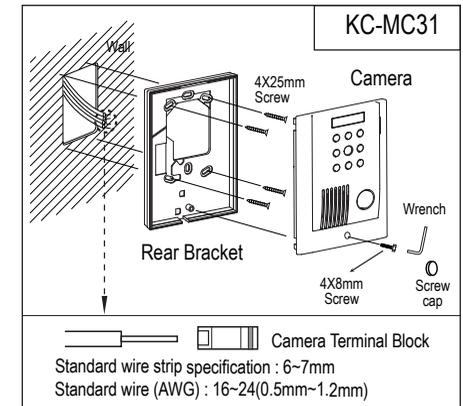
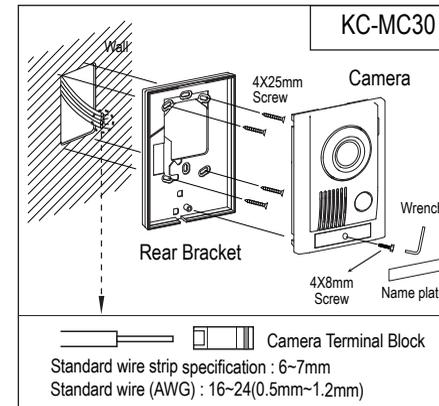
### Standard Height of Monitor

- Standard height of monitor is 1,450 ~ 1,500mm from bottom to the center of monitor screen.
- For installation, avoid the places where there is any excessive humidity, magnetic force, dangerous chemicals, direct ray of sun, and any places near a heater which can cause break down.



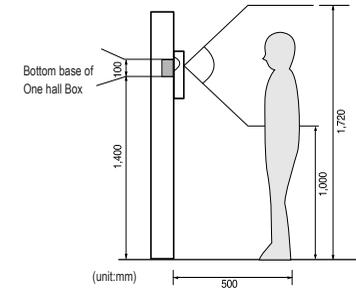
## Door Camera Installation

### Surface-mounting Door Camera Installation

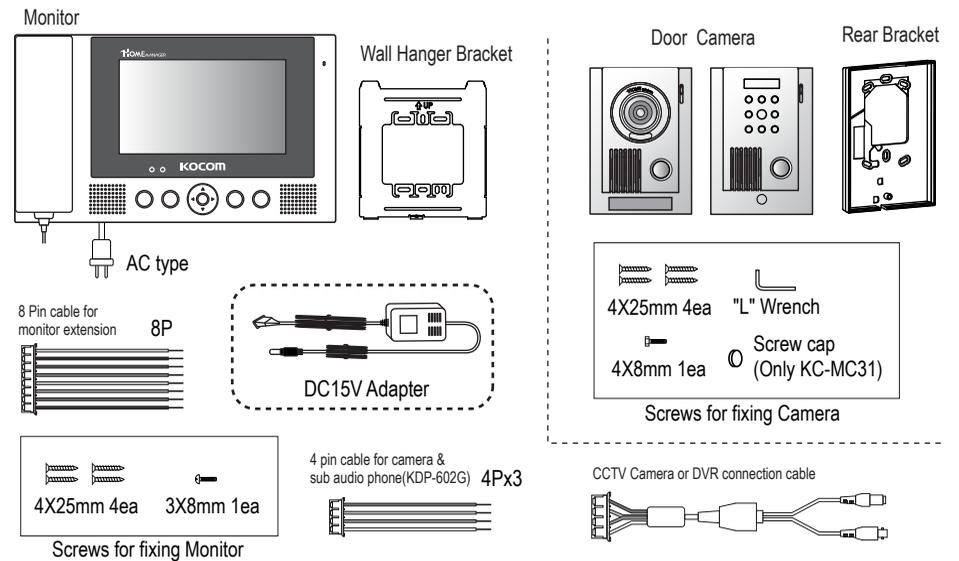


### Standard Height of Door Camera

- Standard height of the door camera is 1,400mm~1,450mm from the bottom of one camera to the floor.
- In case that the height of Door camera exceeds the range of min. 1,250mm~1,550mm, it is impossible to control the screen picture with only the lens angle, and therefore, be careful of the height of camera in installation.



## Components



## Key Features

- 7inch Color Lcd (NTSC/PAL Auto Switching)
- LED Indication in Conditions
- 4 melody selection
- OSD (On Screen Display) menu control
- PIR sensor camera & CCTV camera connection
- CCTV monitoring Mode
- Built 128 cut images memory (KCV-801R, KCV-D801R)
- Auto record in absent mode (KCV-801R, KCV-D801R)
- Upto 2 monitor & 2 audio sub phone with 2 cameras connection
- Internal call & conversation between extended indoor units
- AC Type : KCV-801, KCV-801R / DC Type : KCV-D801, KCV-D801R

## Cautions for Use

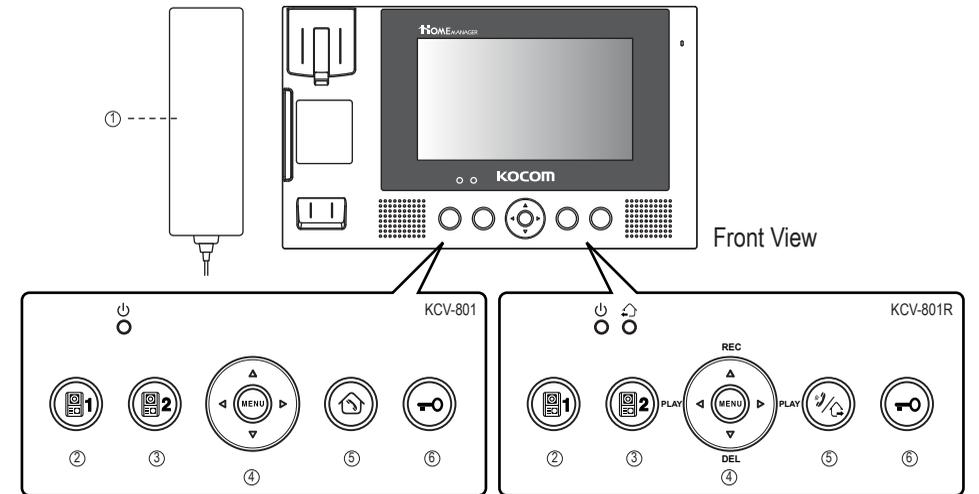
- Do not place the product near humidifier, heater, etc. High temperature and humidity may cause troubles.
- Do not drop, or give a strong impact on, main body and gate camera.
- Do not place the main body near the things emitting strong magnetism (e.g. TV, speaker, etc) because it may cause the drift or distortion of screen, resulting in troubles.
- Do not clean the product with wet hands, or use volatile liquids such as benzene or thinner.
- Clean up camera and window part of main body from time to time to keep fine and clear image quality.
- This product is designed as a precision electronic device, so do not disassemble it at user's discretion.

 **Abovementioned cases may cause troubles in the product. Please be careful to the cautions in use of the product**

## Cautions for Installation

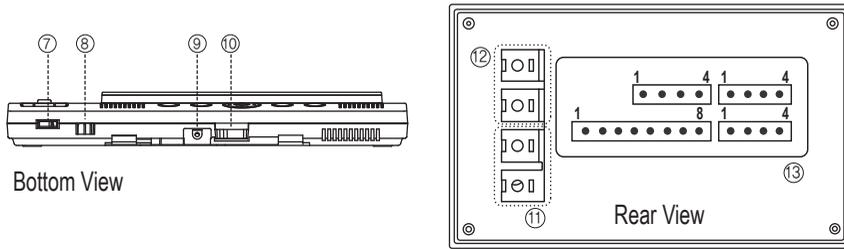
- This product is designed as a precision electronic device, so do not disassemble it at user's discretion.
- Comply with the specifications provided by KOCOM in installation of the product.
- Do not touch the product with foreign things (e.g. sticker, magnet, bottle opener, iron chopsticks, etc.) and do not bring them in the product.  
(It may not only shorten the durability of the product but also bring danger to users.)
- During the rainy season, rainwater may flow in the product along its wiring and affect the system.  
So, the end of wiring is required to finish with letter 'U' type.
- Do not install the door camera in the place under direct sunlight shines, it may make faint image or white stripe or round form line on the image. If this phenomenon appears on the monitor's image, it is not mechanical trouble, so please replace the door camera to keep away direct sunlight or change the direction of the door camera.

## Name of Each Part



No	Name	Brief Description
①	Handset	used in communication between camera and extended indoor units.
②	 Cam 1	turns on/off communication and monitoring functions of Camera 1
③	 Cam 2	turns on/off communication and monitoring functions of Camera 2
④	◀ Left Button	(A) if pressed in standby mode, a stored image is played. (used as Rewind key) [KCV-801R, KCV-D801R only] (B) used as Left button in setting OSD menu.
	△ Up Button	(A) saves (RECORD) images from Camera 1 & 2 [KCV-801R, KCV-D801R only] (B) used as Up button in setting OSD menu (C) sets or cancels the interlocking with PIR camera, if pressed for three seconds
	▶ Right Button	(A) plays images saved in standby mode - used as Forward key [KCV-801R, KCV-D801R only] (B) used as Right button in setting OSD menu
	▽ Down Button	(A) used as Delete key in playing images [KCV-801R, KCV-D801R only] (B) used as Down button in setting OSD menu (C) sets or cancels the long-played CCTV images, if pressed for three seconds
	Menu/OK Button	(A) displays LCD adjustment menu (contrast, brightness and color), if pressed in standby mode for more than one seconds (B) displays Memory adjustment menu (date and format), if three seconds pressed in Standby mode [KCV-801R, KCV-D801R only] (C) inputs adjusted setups
⑤	 Extension /Absence	(A) calls extension line when a user picks up handset and presses extension line Button (B) sets or cancels Absence mode when a user press Extension/Absence button with handset hung up (displayed by LED) [KCV-801R only]
⑥	 Door Open Button	works door open function of camera when a user press this button with communicating with door camera

## Name of Each Part



Bottom View

Rear View

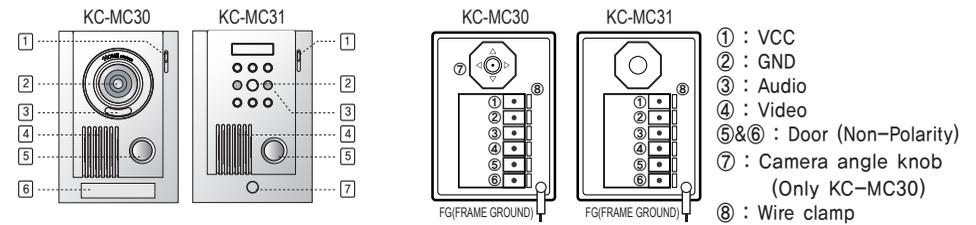
No	Name	Brief Description
⑦	<b>Melody volume knob</b>	adjusts volume of melody (low to loud)
⑧	<b>Modular Jack</b>	a jack for handset connection cord
⑨	<b>Wall-mounting</b>	a hole for a screw used in fixation of main body in its wall-Fixation
⑩	<b>Power Switch</b>	on/off switch for main power supply for monitor
⑪	<b>Door Release terminal</b>	Door Release switch
⑫	<b>Power terminal</b>	for DC input (adaptor) - Non-polarity
⑬	<b>Name of Connection port</b>	A: Camera 1 port B: Camera 2 port C: Monitor extension port D: Sub audio phone (KDP-602G) extension port

## Specifications

Model No.	KCV-801	KCV-D801	KCV-801R	KCV-D801R
Power Supply	AC 100 - 240V	DC 15V 1.2A	AC 100 - 240V	DC 15V 1.2A
Warranted Operation Temperature	0 - 40 °C			
Wiring Type	4 wire type camera wiring			
Mount Type	Surface mount			
Dimension (mm)	295(W)x171(H)x48(D) mm			
Weight (approx.)	1,500g			
LCD	7-inch LCD			
Camera Connection	KC-C60, KC-MC35, KC-MC20, KC-MC12, KC-MC14, KC-MC30, KC-MC31			
Communication Type	Duplex handset conversation			
Power Consumption	2W(unload), 16W(inload)		4W(unload), 18W(inload)	
Color Memory	unavailable		available	
Distance	TIV 0.85mm <sup>2</sup> cable:100m			

Model No.	KC-MC30	KC-MC31
Power Supply	DC 12V ± 1V(power from monitor)	
Power Consumption	3W(In Load)	
Operation Temperature	-10 - +50 °C	
Min. Illumination	0.1Lux (LED ON)	
Dimension (mm)	110(W)x158(H)x39(D)mm	110(W)x158(H)x34(D)mm
Angle of Lens	Diagonal 81° (angle adjustable)	Diagonal 81°

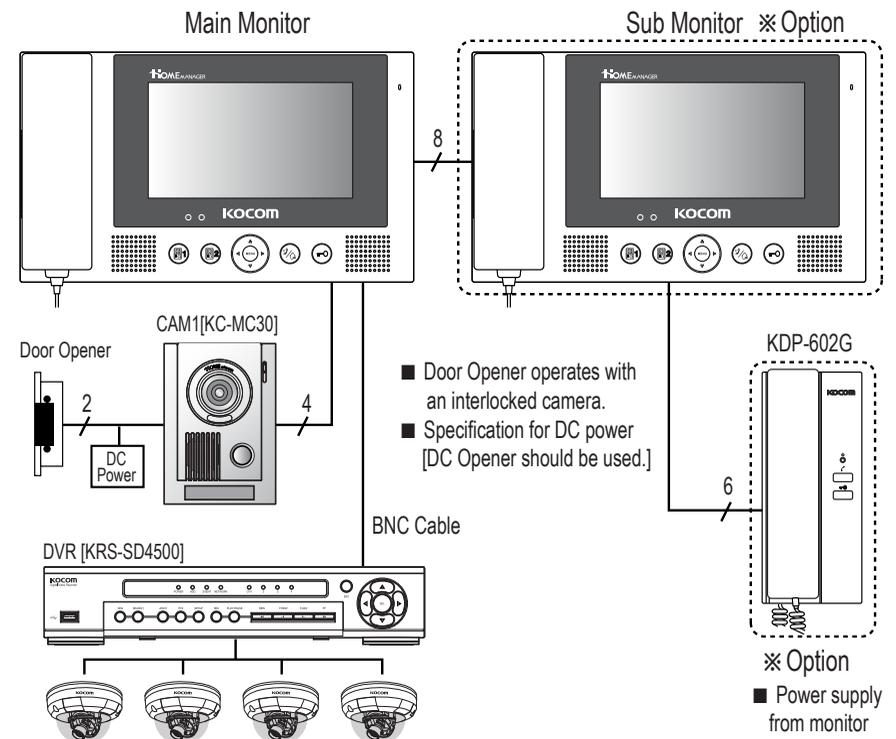
## Name of Each Part



1. C-Mic : To communicate with Monitor
2. Camera Lens
3. LED
4. Speaker : When visitor calls, the voice from monitor comes out of the speaker.
5. Call Button : By pressing the button, the related house will be called.
6. Name plate
7. Screw cap

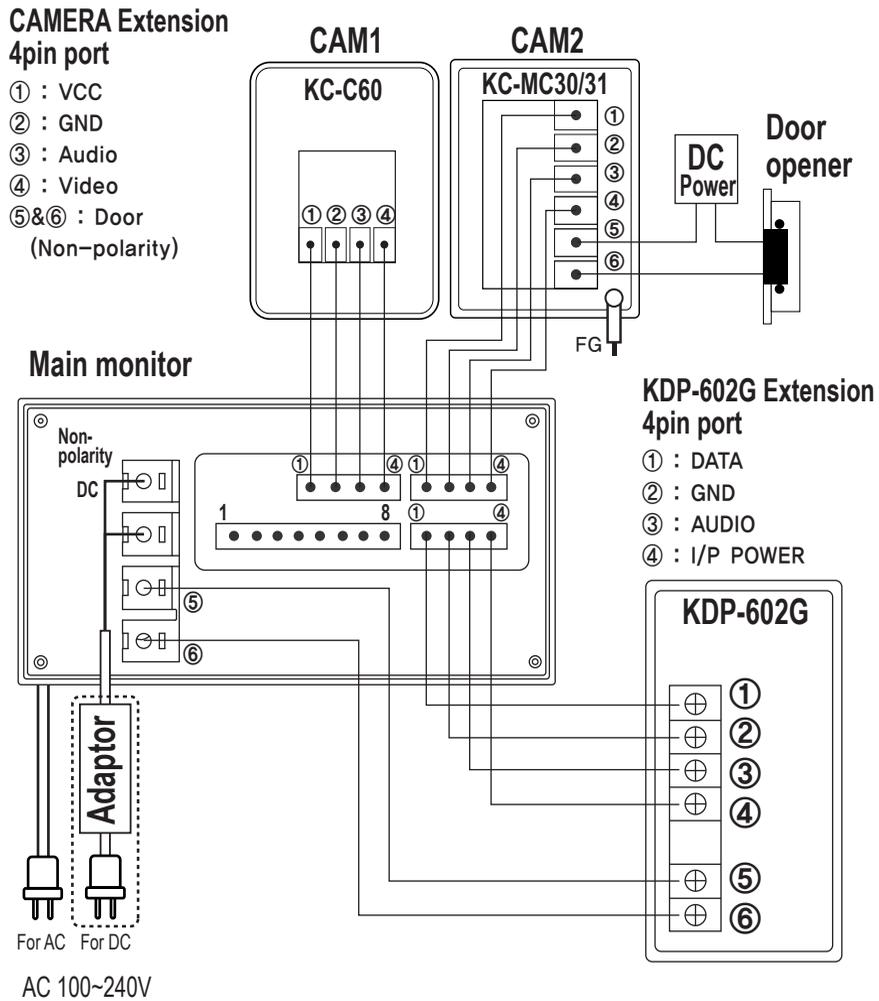
## System Diagram

### Components and Peripheral Devices



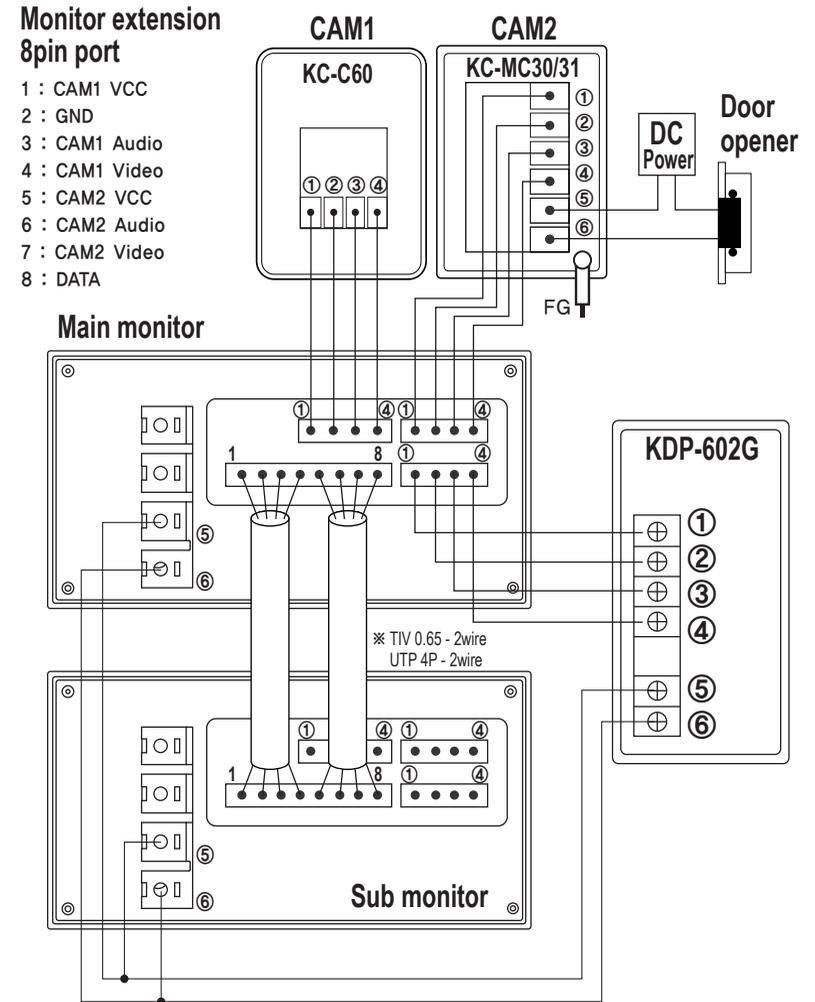
※ Option  
■ Power supply from monitor

▶ Wiring Diagram [AC/DC Power]



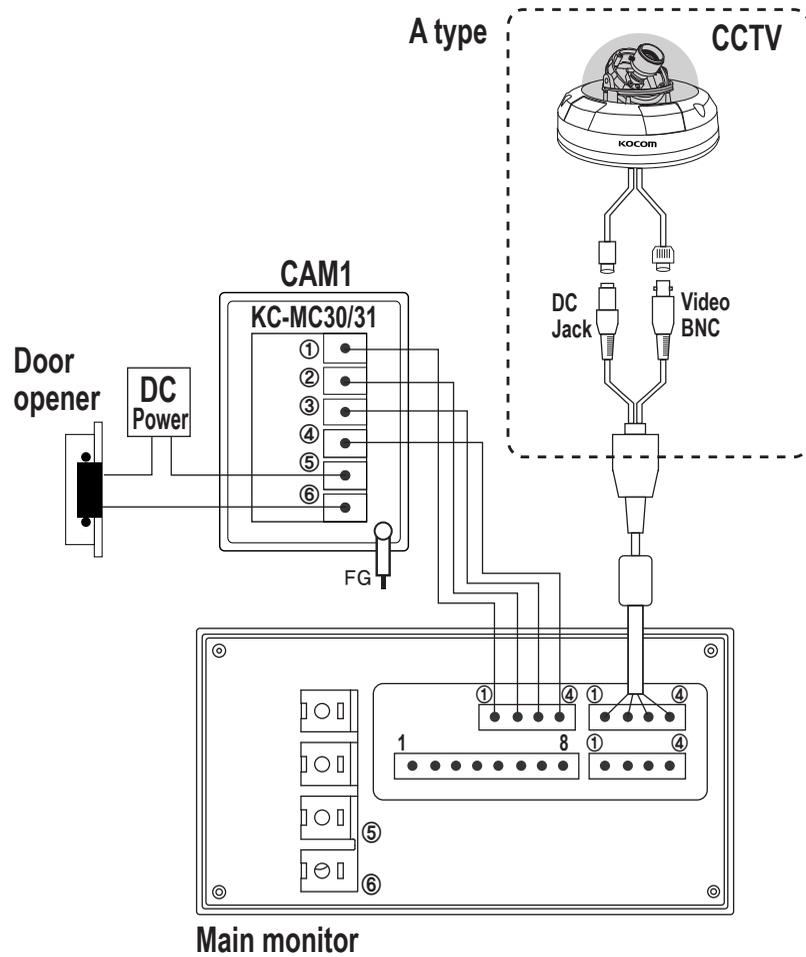
※ In case of using KC-C60 door camera, door release wire should be connected to the door release terminal on the monitor

▶ Wiring Diagram [Sub monitor]

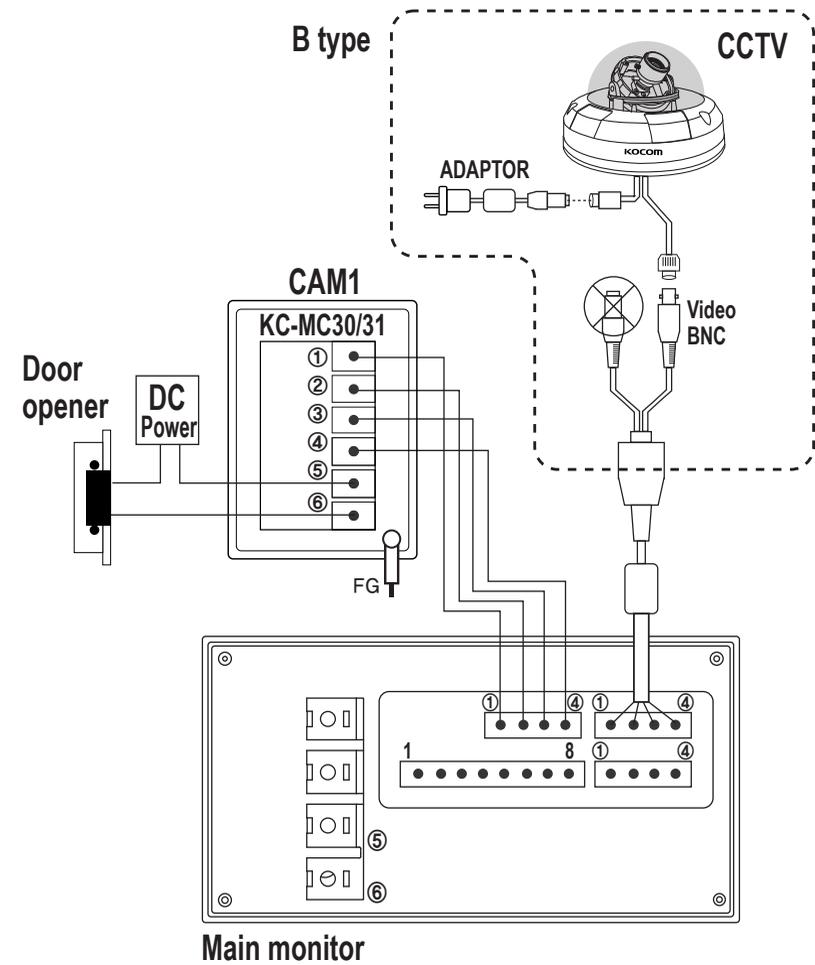


※ Using 2 cable connection between monitors as shown the diagram you can connect up to 50m.  
TIV 0.65mm<sup>2</sup> cable x 2EA or CAT5 cable x 2EA

▶ Wiring Diagram [CCTV Camera A type]



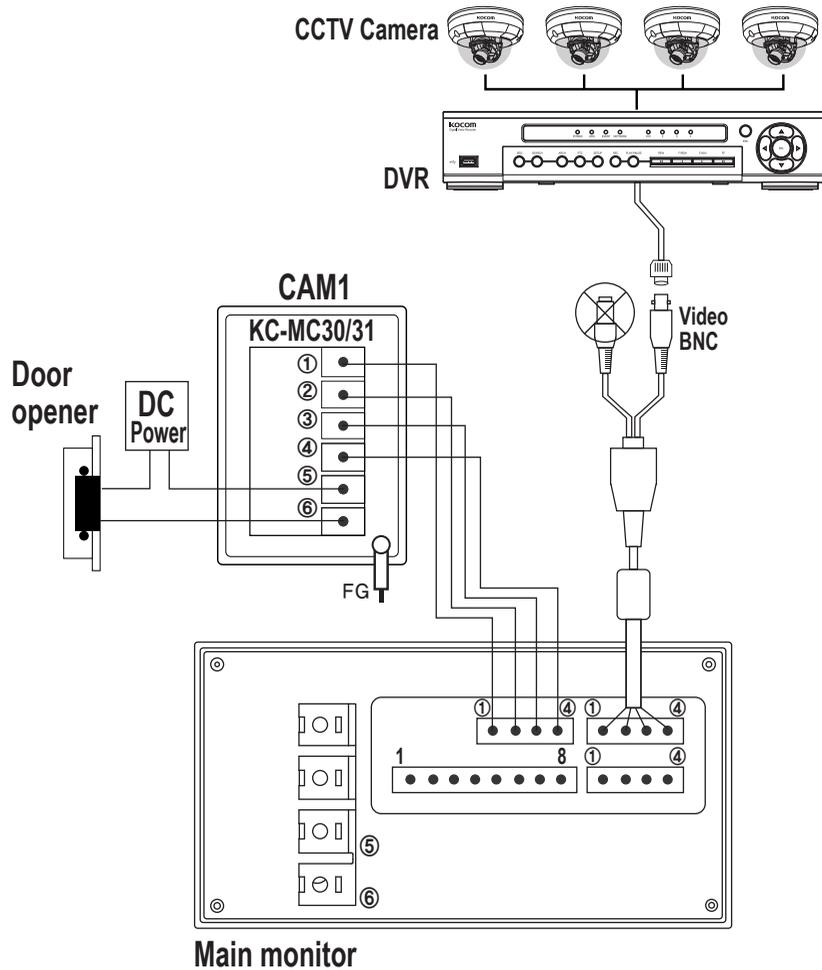
▶ Wiring Diagram [CCTV Camera B type]



A. In case the power consumption of CCTV camera is below 200mA (DC12V) and in distance below 50M, you can use monitor power to CCTV camera.

B. In case the power consumption of CCTV camera is over 200mA (DC 12V) and distance between CCTV camera and monitor is over 50M, the additional power supply should be used for CCTV camera.

▶ Wiring Diagram [DVR connection]



▶ Wiring Diagram [Cable requirement]

[Monitor to monitor 8pin port wiring]

■ Upto 10m : CAT5 cable

- 1. Orange
- 2. Green
- 3. W/Green
- 4. W/Orange
- 5. Blue
- 6. W/Blue
- 7. Brown
- 8. W/ Brown

■ Upto 50m

Using 2 cable connection between monitors as shown the diagram you can connect up to 50m.

TIV 0.65mm<sup>2</sup> cable x 2EA or CAT5 cable x 2EA

[Camera to monitor 4pin port wiring]

■ Upto 20m : CAT5 cable

- Orange
  - Brown
  - Green
  - W/Green
  - Blue
  - W/Blue
  - W/Brown
  - W/Orange
- ①VCC double up
  - ②GND double up
  - ③Audio double up
  - ④Video double up

■ Upto 50m : TIV 0.65mm<sup>2</sup> cable

■ Upto 100m : TIV 0.8mm<sup>2</sup> cable

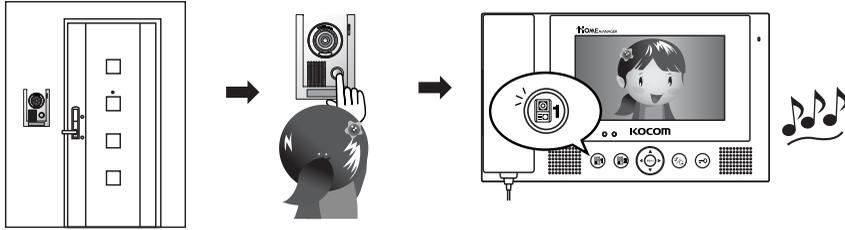
■ Upto 150m : TIV 0.8mm<sup>2</sup> cable+RG-59/U

RG-59/U (coaxial cable) for video signal  
(connect core to Video & shield to GND)

### 1. Call from door camera

A visitor presses CALL button on door camera.

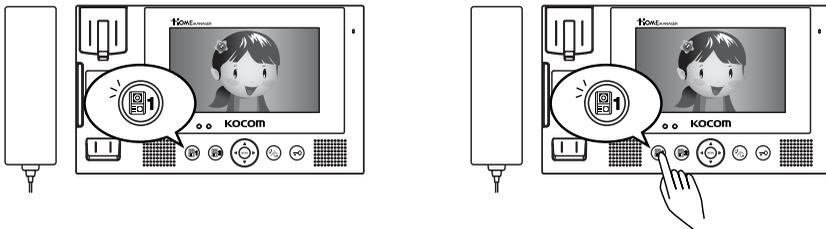
Melody sounds at monitor and screen is turned on, with the LED of camera button flickering.



### 2. Communication with door camera

To receive a call from door camera, pick up the handset for communication.

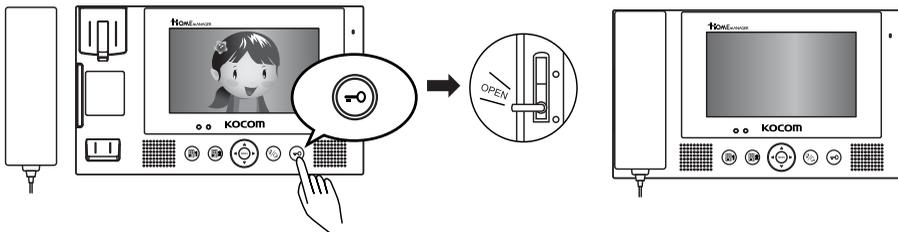
Without a call from gate, if a user presses Cam 1 or 2 button and picks up the handset, he/she can communicate with selected door camera.



### 3. Door Open

If a user presses Door Open button during the communication with door camera, gate door is opened.

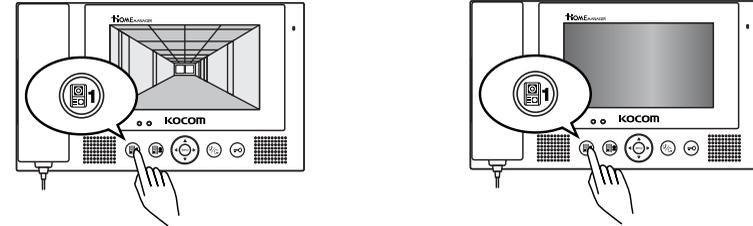
Hang up the handset to finish communication. (\* An optional device KDP-602G provides the same function as this.)



### 4. Monitoring of Outside Situation (Camera Monitoring)

When a user presses Cam 1 or 2, image of the Camera is displayed in the screen.

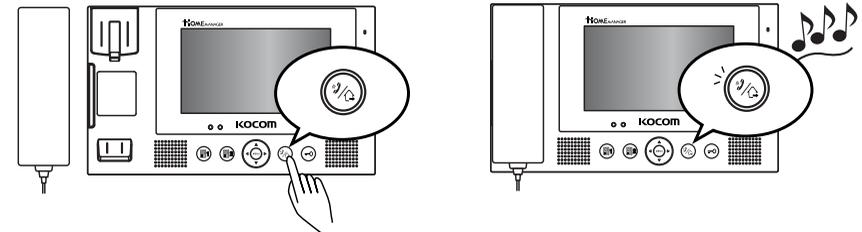
Press the button once more to end camera monitoring. This function is automatically turned off after a minute.



### 5. Internal Call

Press Extension Call button on monitor.

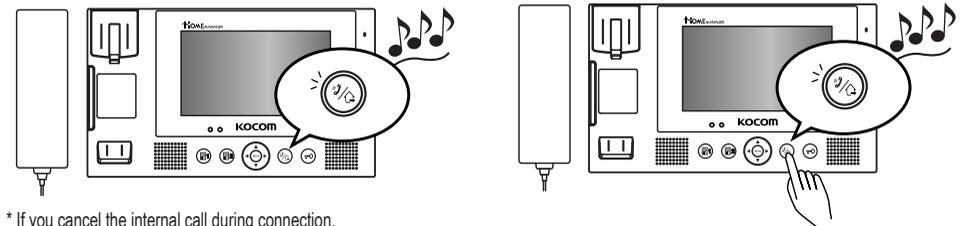
Melody sounds from other extended monitor (or interphone) and LED of Extension Call button flickers.



### 6. Indoor Communication

User can use indoor communication function by picking up the handset. After three minute, indoor communication ends automatically.

If an extension call is received when a users communicate with door camera, he/she can communicate by pressing extension call button.

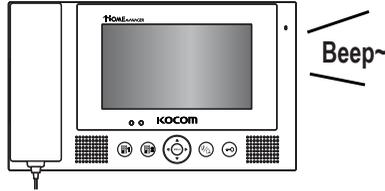
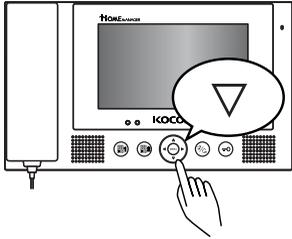


\* If you cancel the internal call during connection, LED of the other extended monitor flickers for two minutes.

### 7. CCTV Monitoring (3min.)

To change setups from default to long-time mode, press ▽ button for three seconds

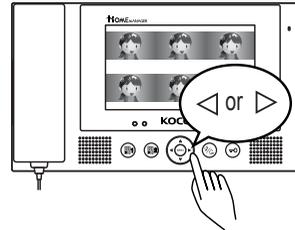
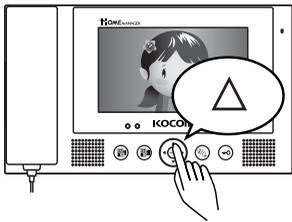
A beep sounds and long-time mode is set. To cancel this mode, press ▽ button for three seconds once more.



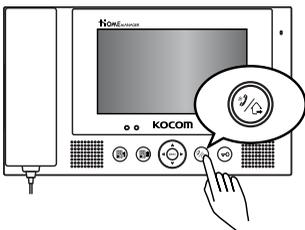
### 8. Image Memorizing (\* KCV-801R, KCV-D801R only) by Manual

Press △ button with watching images from Cam 1 or 2 to save as many images as the number of user's pressing the button.

Press any of ◀ or ▶ button to view saved images. (Saved images can be enlarged using Menu button.)



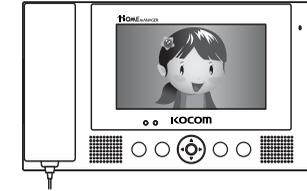
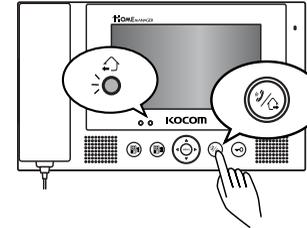
Press Extension Button to end playing the saved images.



### 9. Absence mode and Automatic Image Memorizing

To set Absence mode function, press Extension/Absence button in standby mode. To cancel the function, press the button once more.

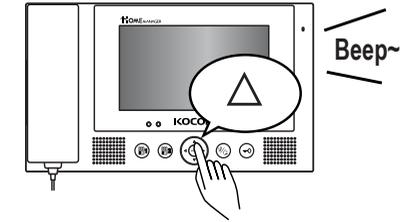
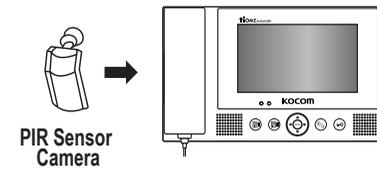
If a call is received from door camera when Absence mode function is set, the device saves as many images as the number of calls from door camera.



### 10. Interlocking with PIR Sensor (Infrared Motion Detector) Camera

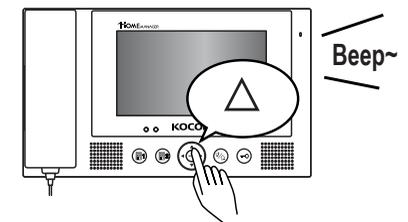
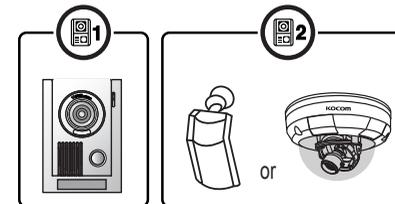
At the request of a user, PIR sensor camera can be connected to camera port 2

If a user presses △ button for three seconds, a setting signal sounds and set of this function is completed.



Please note that Cam 1 port should be used as door camera, and CCTV camera or PIR sensor camera should be connected to CAM 2 port.

To cancel PIR sensor camera operation mode, press △ button for 3 seconds.

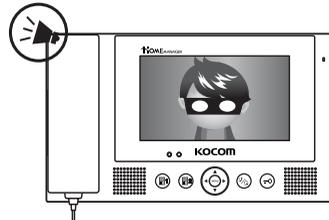


### 10-1. Interlocking with PIR Sensor (Infrared Motion Detector) camera

When the PIR Sensor Camera mode is set, PIR Sensor camera detects motions.



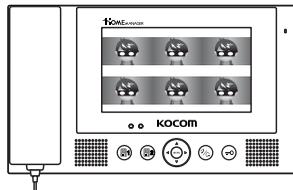
A ring tone sounds from indoor monitor and screen is automatically turned on.



In this case, the device automatically records images at the rate of three images every two seconds.

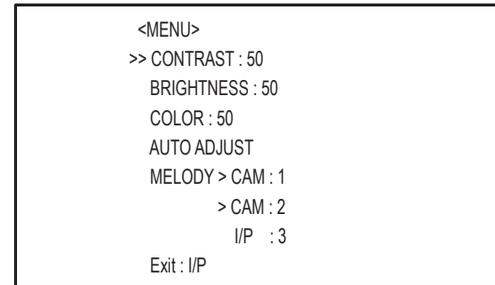
(To view the images, please follow the same steps as above.)

Refer to the image memorizing function (KCV-801R / KCV-D801R only).



### OSD Function (LCD CONTROL MENU)

When a user presses MENU/OK button for more than three seconds, LCD control menus are displayed in screen as follows:



#### 1. Control of Contrast, Brightness and Color

If a user moves >> bar up and down to select a menu he/she wants to adjust and presses MENU/OK button, the menu number is selected. Then, if a user adjusts the number using UP or DOWN button, the value is adjusted.

#### 2. Auto Adjustment (Setup Initialization)

Locate cursor bar to AUTO ADJUST and press menu/OK button to initialize or go to default value of LCD

#### 3. Melody (Tone Ring)

Melody can be selected between 4 melodies per function.

CAM : 1~4

CAM : 1~4

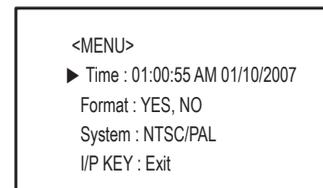
I/P : 1~4

#### 4. EXIT : I/P

EXIT: Extension (I/P) or button to finish all setups or go to stand by (cancel) mode.

### OSD Function (MEMORY CONTROL MENU)

When a user presses MENU/OK button one time, memory control menus are displayed in screen as follows:



■ TIME : sets time and date  
01:00:55 AM - sets [hour/minute/second AM/PM]  
01/10/2007 - sets [day/month/year]

■ Format : Select [Format: Yes] and press Menu/OK to delete all the saved images.

■ System : display color encoding type NTSC or PAL

■ EXIT : Extension (I/P) or button to finish all setups or go to stand by (cancel) mode.

※ KCV-801R/KCV-D801R Only.

## Warranty

▶ **To receive after-Sale service, have the following ready when you contact our branches.**

1. Name of the product.
2. Model number of the product.
3. The area of problem.
4. Phone number and address at which you can be contacted.

## Warranty Card

<b>PRODUCT</b>	
<b>MODEL</b>	
<b>DATE PURCHASED</b>	
<b>WARRANTY PERIOD</b>	
<b>AGENCY ADDRESS</b>	

▶ **KOCOM Warranties the original purchaser of this product as follows.**

- 1) This product is produced under strict quality control and inspection procedures.
- 2) If this product breaks down during proper use as a result of product defect, KOCOM will repair it within one year from date of purchase free of charge.
- 3) The following cases will be subject to charge, even during warranty period:
  - a. Breakdown during transport, or through careless treatment, by consumer.
  - b. Breakdown cause by unauthorized repair, or system modification.
  - c. Breakdown caused by natural disaster or power disorder.