

Warranty

To receive after-sales 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

PRODUCT	
MODEL	
DATE PURCHASED	
WARRANTY PERIOD	
AGENCY ADDRESS	

KOCOM Warranties the original purchaser of this product as follows.

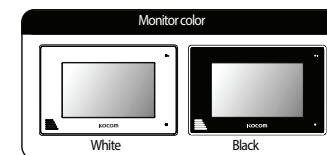
- 1) This product is produced under strict quality control and inspection procedures.
- 2) If this product breaks down during proper use as a result of product defect, KOCOM will repair it within one year from date of purchase free of charge.
- 3) The following cases will be subject to charge, even during 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.

KCV-D372 MANUAL

[7inch Digital color video phone]

2 WIRE COLOR HANDSFREE VIDEOPHONE

7inch Digital LCD (NTSC / PAL)
LCD OSD Menu
Room to Door Communication and Monitoring
Ultra Low Power Consumption
Surface Mount Installation
Door Opener Connectable from Either
Monitor or Camera(DC)
Connection up to 1 Door Camera and
2 Monitors



KC-MC32



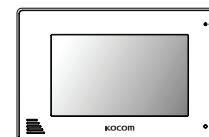
KC-C62



KC-MC22



KC-MC11



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Cautions for Safety

For safe use, please stick to the following cautions.

Please, save this manual after reading these instructions carefully.
This Cautions for Safety may include items that are not contained in the manual.
If you need assistance with the set-up or operation, please contact with A/S center.

Read and understand all instructions to set up the product.
Read the specifications of the product that consumer purchases.
Contact with A/S center.

lightly.








The important marks in the manual.

To help our customers to understand this manual, to prevent any personal injury or property damage, some marks are used in the manual.
The marks and the drawing signs are below. Please, understand it.

personal injury or property damage, some marks are used in the manual.
The marks before reading the manual.

manual.




The meaning of the drawing signs.

	Sign to show what not to do		Mishandling the device with ignoring this sign may result in serious injury or death.
	Mishandling the device with ignoring this sign may result physical injury or material damage.		
	Sign to tell you that you should follow the instructions		Sign to tell you that you need more attention including high voltage, electric shock, danger, warning
	Sign to tell you that you cannot disassemble this unit.		Sign to tell you that you must unplug the unit.



Caution




Cautions for set-up

	The law limits distributing the power lines to authorized people. Place this unit securely on a stable surface. Serious damage may occur if the unit is not placed properly. Do not set up this unit near the leaking place because it may leak. Even if your product is water proof, do not install it in the place of water leakage, which can cause a short circuit.	Person or government. The work from unauthorized person can cause injury or property damage. If the unit is not placed properly, it may expose you to dangerous voltages or other risks. Place of water leakage, which can cause a short circuit.	Electric shock.
	The work of distributing wires needs skills and experiences. The communication lines should be built in being distant from the power source. This may result in the risk of electric shock and communication disorder. Setting the communication lines in a high humid place such as outside without any protection from rain causes the communication lines to be damaged. Keep the hook at the wall-mounted device safe. The hook may cause physical injury. Think about the thickness and quality of wall material. The unit qualified material may make the device fall.	Or please, for assistance, contact your dealer or call service center. If the power source is not properly protected, it may cause electric shock and communication disorder. Outside without any protection from rain causes the communication lines to be damaged. Use the physical injury. Qualified material may make the device fall.	Electric shock and communication disorder.
	Set the device of the wall-mounted type not to fall. Falling from an earthquake causes personal injury.		

Cautions for Use

	Do not overload on the device.		
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Cautions for Repairs and Maintenance

	Keep the inside of the device clean. Having the dust inside will cause the device to overheat. If necessary, contact your dealer or service center to get cleaning service.		
	Unplug this device when you want to check the inside. If there is no plug, please, turn off the circuit breaker.		
	Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.		





Warning


Warnings for Usage

	Do not install this unit near the water and dust, for example, in a bathroom or near the washing machine. It caused fire and electric shock. Do not install this unit near the fire, for example, near the sink, heater or the like. Do not install near the noxious gas such as Hydrogen Sulfide, metal power and the like. Do not install near the water and chemicals. Do not give any damage, break and modify the plug. Overloading, heating, pulling causes the damage. Do not place the plug near the heater. The damaged code causes fire and electric shock. Do not pull the power cord when unplugging. The damaged code causes fire and electric shock. Must pull with the plug. Do not touch with wet hands. It causes the electric shock. Do not use any other voltage, except the marked regular voltage. Do not use the power terminal at the units to other electric device except the designed device. Do not install the units at the leaking place if it doesn't have any waterproof mark. Do not install the unit when the power is on. Install the circuit breaker after checking the safety such as electric shock and leakage. Turn off the power before you install it or A/S.		
	Check the suitability of the lines for installing when you use the wiring work by using the designed material. Do the wiring work by using the designed ways and ground. Do not connect with any other devices except the designed devices to compose the system.		
	Unplug electric wire and communication lines from the units before moving to another place.		

Cautions for Use

	This unit is not designed for security purpose. Do not handle the unit with the wet hands. Do not place a pot with water or a small metal material on the top of the unit. Do not cover the ventilating opening or put any metal material in the unit. During the thunderstorms, avoid using this unit. There may be a risk of an electric shock from lightning. Do not modify the unit.		
	Do not disassemble the back and cabinet cover.		

Cautions for Abnormality

	Change the damaged electric code. Unplug this unit from plug socket and refer servicing to an authorized service center when the following conditions occur: If the unit does not work normally by following the operating instructions. If liquid has been spilled into the unit. If the unit exhibits a distinct change in performance. If the unit has been dropped or physically damaged.		
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Caution

Safety Instructions, Warnings and Cautions of Each System

Do not disassemble this unit as it will as this device is composed of precision parts. Install the unit by following the set-up instructions. Do not touch or insert any foreign substances, for example, static electricity, into the unit. Make U-type at the end of wires as the rain can effect on the system by following the wires during the rainy season.			
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Videophone

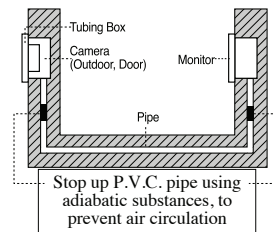
Separate the A/C lines with the hook of the wall-mounted type. Do not distribute signal line with A/C line. Use the design. Do not clean the LCD with the damp cloth for cleaning. Use the dry cloth.	when installing. Connect the lines after peeling the wires properly. Do not connect the lines to terminal only dry and soft cloth. Do not install the main gate monitor at the leaking place.		
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Things You Need to Know

This product is designed as a home videophone and cannot use as a mobile phone. If the temperature difference between inner part of camera and outer part is too large, dew condensation occurs on camera lens and image quality is degraded. White LED light examination range is narrower than camera shot range. So it is difficult to see the face in low illumination condition. Monitor screen (liquid crystal panel) is not in defect when so many pixels are always light or black out. Please install monitor and camera over 5m away. Also avoid installing a place with too much noise because too much noise may cause phone call inferiority, especially because microphone is sensitive to noise. Do not place an object within 20cm in front of monitor. It can cause phone call inferiority, especially because microphone is sensitive to noise. If strong light such as sunlight flows into camera module, screen saturation (or strange mark) and image shaking might occur. This is not a defect, so please do not install camera where direct ray of light do not flow if possible.	continuously like monitor camera. a and surrounding dew condensation occurs on camera lens and image quality is degraded. range at night, so there is less amount of light at night than day. n due to noise increase on screen, but it is not from defect. me pixels are always light or black out. Installing a place with too much noise because too much noise may cause phone call inferiority, especially because microphone is sensitive to noise. screen saturation (or strange mark) and image shaking might occur. This is not a defect, so please do not install camera where direct ray of light do not flow if possible.		
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Cautions

In some cases there is occurrence of product destruction, malfunction or damage due to communication wiring of monitor/camera, or phone and other tools. Do not wire with power line such as outdoor wiring or A/C power. You cannot use it if you incorrectly wire the A/C voltage between this product and consult to solve the problem. Beware that unfixable damage might be caused due to unauthorized disassembly or modification of this product. Do not ever disjoin this product. It may cause electrocution. Outside power wiring of this product must be confirmed by electrician because of product destruction. Power must be connected to domestic voltage (product rated voltage). If connected to other motive power or inverter-type power, product will be damaged. Do not drop this product. Glass is used for monitor and might break or cause other circuit inferiority. In such case, immediately turn down the power switch, and call the nearest transmission antenna such as broadcasting station. Avoid installing near tools with strong electromagnetic waves. Do not install monitor in following places. ① Above or around water heater, rice-cooker, heater ② Place exposed to direct rays of the sun ③ Place with temperature below 0°C such as cold storage ④ Place with high humidity such as bathroom, washroom, heated room ⑤ Place with a lot of gas, dust, smoke ⑥ Dangerous place with strong magnetic field Do not wipe with insecticide, drugs or chemicals such as thinners on the surface of this product. Beware of occurrence of image quality deterioration or malfunction due to penetration of chemicals or water into camera lens. As in the picture, it prevents temperature difference of camera window. Camera must be installed when wall cement is completely dry. When product is installed in winter below -5°C, wait for approximately 2 hours to connect. Dew formation on outside may cause product defect. Avoid installing monitor and camera in place directly exposed to heat or where gas noxiousness is high.	unction, noise mixing and picture quality deterioration due to monitor/extended monitor. or phones and other tools. n monitor/camera, monitor/extended monitor. Call the store or agency where you purchased. AC voltage on communication wiring of monitor/camera, monitor/extended monitor. accident when touching high-voltage circuit inside this product. duct destruction, noise mixing, and picture distortion may occur. break, or cause other circuit inferiority. to consult agency or store in which this product was purchased. ation, electric wave may mix and cause picture distortion or noise such as microwaves and cell phones, or it may cause picture distortion. posed to direct rays of the sun ③ Place with temperature below 0°C such as cold storage om sprays of water or chemicals er and alcohol, or it may damage tion from cause of humidity due to a (outside) and monitor (inside), and imately 2 hours to connect. Dew formation on outside may cause product defect. to heat or where gas noxiousness is high.		
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Specifications

Max wiring distance

TYPE	connection condition	railway line type and distance			
Line type	cross section (mm ²)	0.3	0.5	0.8	CAT5
	Diameter (mm)	0.6	0.8	1.0	
Distance	monitor-camera	100	120	150	100 (m)
	monitor-extension monitor				

Power consumption: Onstandby :0.8W±20%
In communication: 10.5W±10%
Indoor opening :19W±10%

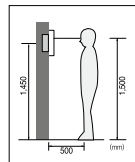
Specifications

Model number	KCV-D372
Power	DC12V±3V
Assurance temperature	0 ~40
Communication system	Handfree type
LCD	7" Digital LCD (NTSC/PAL Auto switching)
Wiring	Camera: 2 wires (Non polarity) Extension monitor: 2 wires (polarity)
Mount type	Surface mount
Dimension	222(W)× 144(H)× 26(D)mm

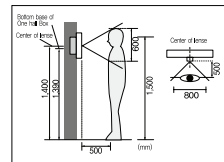
Product functions and features

- Display product working condition with OSD
Bright, error message on OSD
- When no signal on image, converts to standby condition
- Very low consumption of electric power in standby
:0.7W of electric power consumed in standby condition, reduce electric charges.
- Use of Digital 7" LCD Panel
:Image is very clear and quality excellent due to use of digital LCD Panel.
- Nonpolar 2 wire method between camera and monitor
:Can be easily installed due to nonpolar 2 wire method between camera and monitor.
- Extension monitor
:Extension monitor can be easily installed with 2 wire polar.
- Long distance wiring
:Can install up to 150m between camera and monitor.
- Can connect door opener to monitor and camera
1) Can connect DC door opener to camera.
Beware of simultaneous function of door opener connected to camera and monitor.
2) Can connect DC type door opener to monitor.
Beware of simultaneous function of door opener connected to camera and monitor.
- Automatic confirmation tool of connection between camera and monitor
:Connect wiring between camera and monitor, authorize power, a "Tee-dee-sound" (1 times) will be on. If disconnected or camera is malfunctioning, "Tee-dee-sound" (2 times) will be on for 5 seconds, and screen error (Please check camera or connection) message will be on as LED switches off on monitor, enabling to confirm wiring condition between camera and monitor.
Turn AC power switch OFF, ON before taking measures for above causes.

Installation location



Monitor installation location
Standard monitor installation height is about 1,500mm where screen center is at eye level.
In this case, wall-hanger metal center (center of piping) is 1,450mm above ground level.
Standard installation height



Camera installation location
Camera installation height Standard camera installation height is when lens is about 1,400mm above the floor. In this case, camera stack center (piping box) is above 1,390mm above ground level.
Standard installation height

The above angle of view is based on the KC-C62 camera.
The numbers vary according to the type of camera.

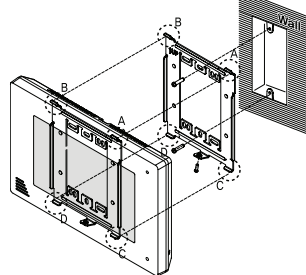
Caution of camera installation

- Avoid installing camera exposed to direct ray of light (and sunlight).
- Beware of backlight and darkness of visitor's face, which makes identification difficult.
- Avoid installing camera in places such as the following picture.
- (1) Place illuminating sky as background
- (2) Place with white wall reflecting direct ray of light
- (3) Place with direct ray of light

Directly connecting cut-off power cord with power wire

- Do not do such electric work on your own. Installing product in requires reliance on electric installation man with electric wiring license.
- In order to inhibit lightning while cutting off power cord and wire, electric wire should not be exposed. Contact between exposed electric wire could cause fire or electric shock accident.
- Such electric work requires connection after interception of supplied power.

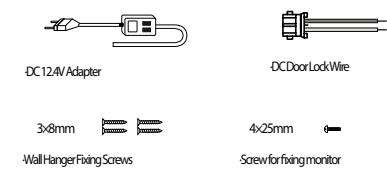
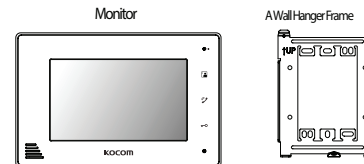
Monitor installation



- Remove wall-hanger bracket metal behind monitor.
- Install wall-hanger bracket metal on 1 type box or wall with attached V.S.
- Connect wiring to monitor back terminal referring to product connection diagram.
- Hang monitor on wall-hanger metal, and fix monitor on wall using attached V.S.
- Plug monitor's power plug into consent and check to see if the power switch is [ON].

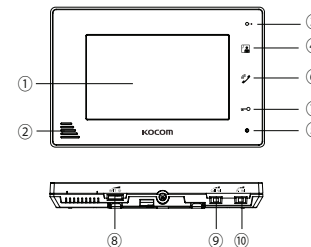
Components of product

Monitor components



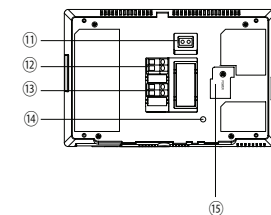
Name and functions of each part

The front side



- Monitor screen (LCD) : Output of image sent from camera.
- Speaker
- Microphone
- Monitor button : Push this button to check around camera when inside, and image is shown for 60 seconds. (Voice intercepted between camera and monitor)
- Motion lamp : When there is call from camera or monitor motion it flickers, and switches on when on call.
- Speak button : Use this button to star / stop speaking.
- Open door button : Use this button to open front door with connected door switch.
- Brightness adjustment volume : Adjusting LCD screen brightness to use.

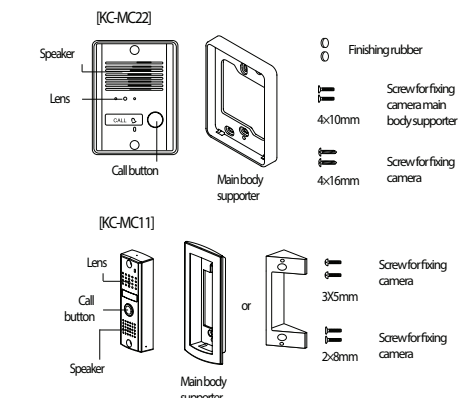
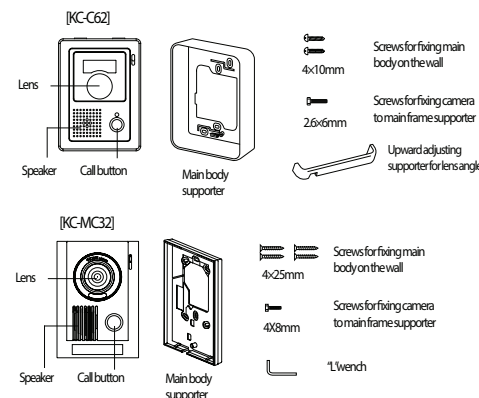
The Back side



- Call volume adjustment switch : Adjusting call sound in 3 steps [high, medium, low] to use. *Cannot adjust call sound to "none".
- Speaking volume adjustment switch : Adjust speaking volume transmitted from camera to monitor in 3 steps [high, medium, low] to use.
- DC door switch terminal : Connects DC door switch.
- Camera terminal : Connects camera with 2 wire nonpolar.
- Extension monitor terminal : Connects extension monitor with 2 wire nonpolar.
- Color adjustment volume : Adjust color on LCD screen (shipment, adjusted to standard color)
- Power input section : Input DC power and fix power cord.

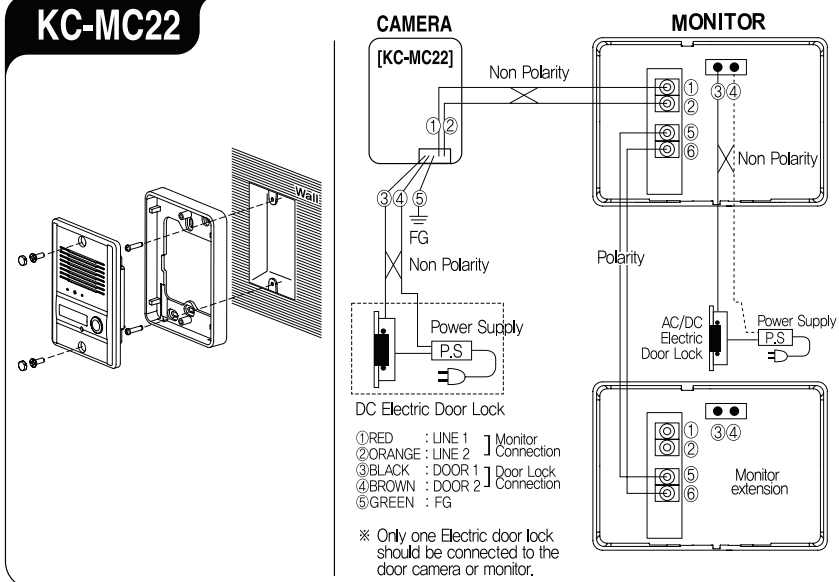
Components of product

Door Camera components



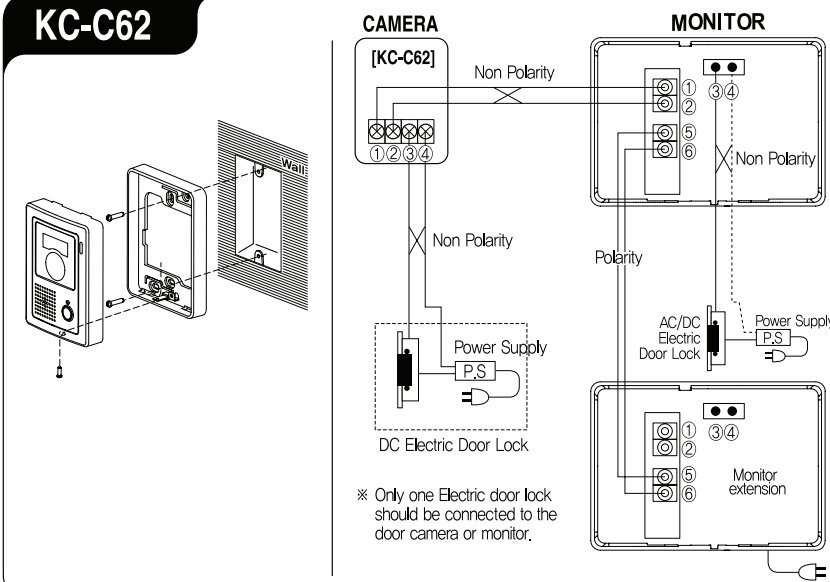
※ Please check the Model Name of your door camera.

KC-MC22

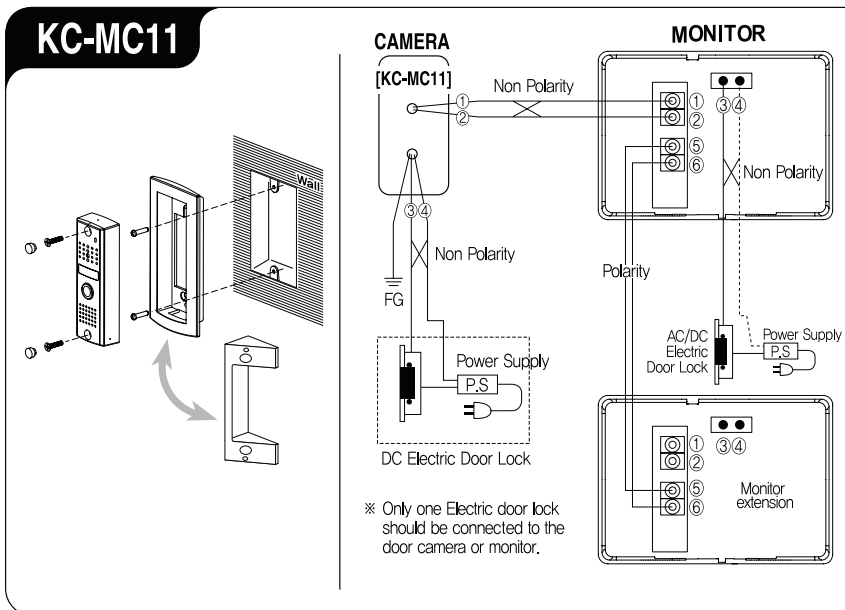


※ Please check the Model Name of your door camera.

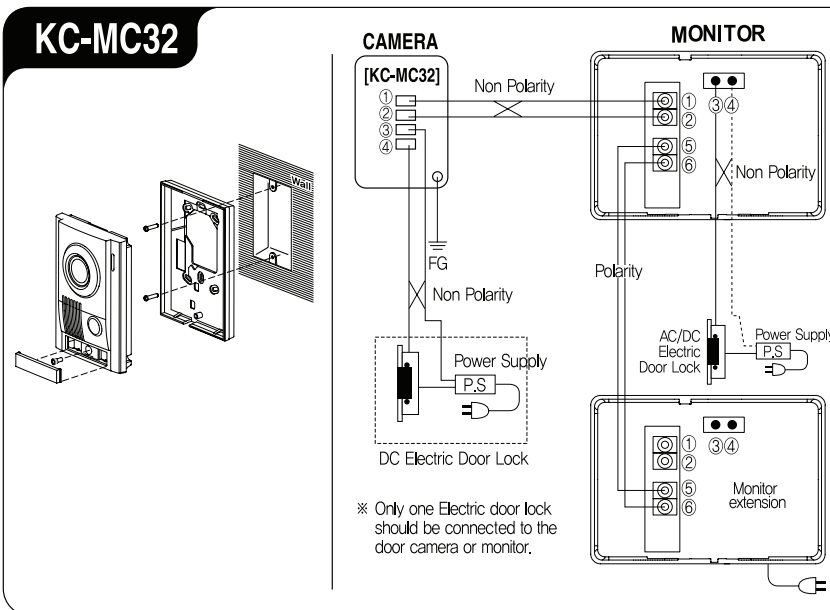
KC-C62



KC-MC11



KC-MC32



If you connect other types of cable in the middle of communication between monitor/camera, monitor/extension monitor or divide parallel pattern, image screen may shake or quality may deteriorate. Also, wire not used in communication wiring must be deleted or

ion cable wiring
allel 2wick to
connect product.

Product connection diagram

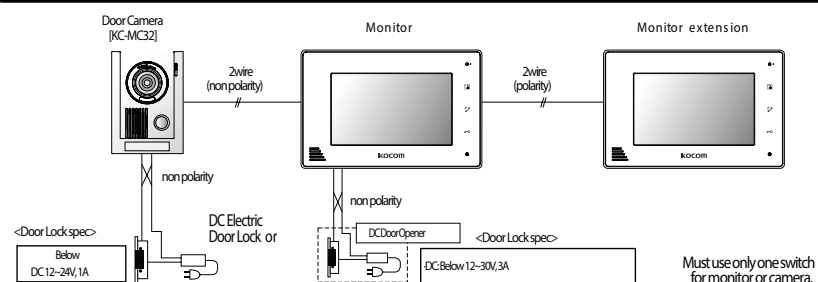
- Beware in installation of pushing open door button, which cause connected to monitor to motion.
- Connect DC switch and AC switch movement power separately. S and switch connecting to monitor can use AC or DC type.

s DC switch connected to camera and AC (or DC) switch

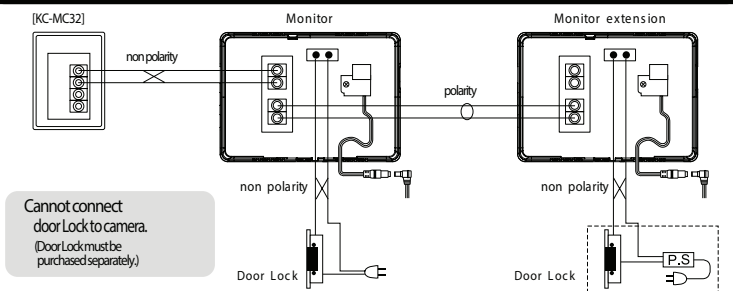
switch connecting to camera can only use DC switch,

Door opener caution total product wiring diagram Connection method, Method for use as below

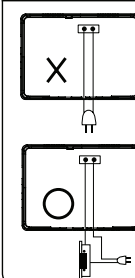
Wiring diagram



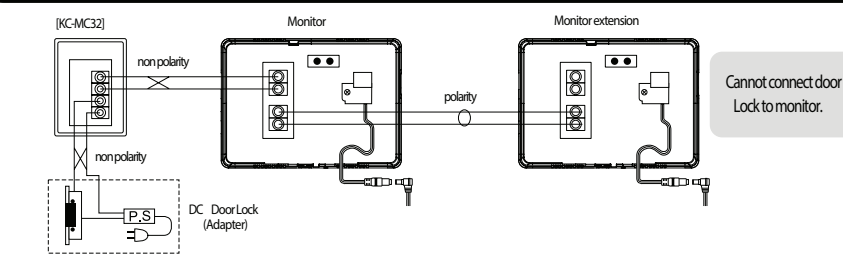
Wiring diagram on monitor



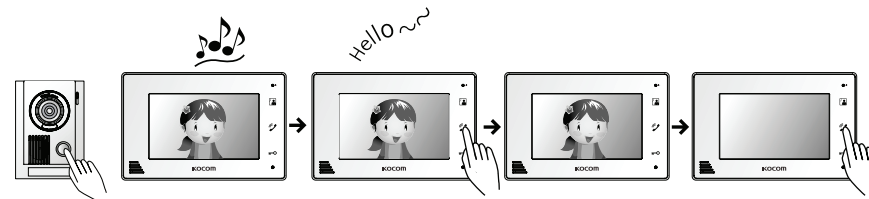
Caution of Door Lock



Door opener wiring diagram on door camera in DC



Calling from camera



Push call button from camera. You can hear small call sound toward camera and check the call.

You can hear call sound from all connected monitors, and camera image comes out on screen.

- Push monitor button to convert to monitor tool for 60 seconds.
- Push speak button to speak with camera.

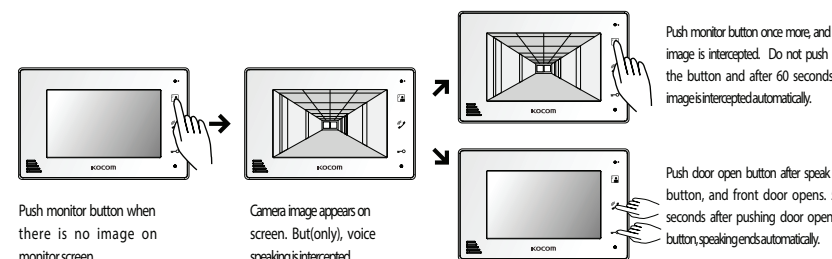
Push open door button to open front door. About 5 seconds after pushing the button, call ends automatically.

Call ends when you push open door button and speak button once again.

Open door opener works only in speaking condition, and does not

work when no image is on screen.

Using monitor tool



Monitor screen time

- Not pushing speak (or monitor) button after calling from camera
- Pushing monitor button to check around camera
- Push speak button to speak with camera

ra: 15 seconds
: 60 seconds
: 3 minutes

Screen brightness, call sound, speak volume adjustments

- Screen brightness adjustment: Screen brightness variable to
- Call sound adjustment: Call sound variable in 3 step
- Speak volume adjustment: Speak sound (monitor output voice) variable in 3 steps (high/medium/low).

volume.
s (high/medium/low).
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