

Warranty

☉ To receive after service, have the following ready before 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.

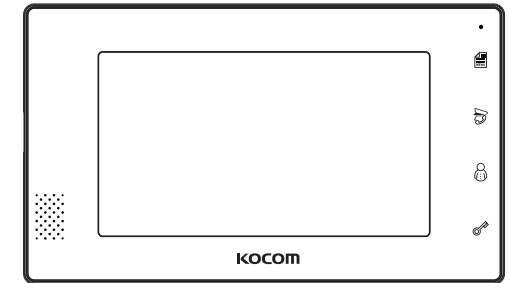
- 1) This product is produced under strict quality control and inspection procedures.
- 2) If this product breaks down during proper use as a result of product defect, KOCOM will repair it within one year from date of purchase free of charge.
- 3) The following cases will be subject to charge, even during 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-504 / D504 MANUAL

[Operating Installation Manual]

COLOR HANDSFREE VIDEOPHONE

- Compact Slim Design(26mm)
- 7 inch digital LCD color monior
- Full Mirror Front
- Easy Icon Button
- OSD function
- Visitor Communication and Door Open
- Communicate with Guard Master phone
- Touch button
- Guard Phone, Lobby Phone Operating



KCV-504 / D504

Door Camera for KCV-504 / KCV-D504



KC-MC24 KC-MC20 KC-C60 KC-MC30 KLP-C420

Cautions for safety

For safe use, please stick to the following cautions.

- Please, save this manual after reading these instructions carefully.
- Read and understand all instructions to set up rightly.
- This Cautions for Safety may include items that are not contained in specifications of the product that consumer purchases.
- If you need assistance with the set-up or operation, please contact with A/S center.

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 the marks before reading the 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.		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 voltages, electric shock, danger, warning)
	Sign to tell you that you can't 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 an authorized person from government. The work from an unauthorized person cause fire or electric shock.
- Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
- Do not set up this unit near the leaking place because it may expose you to dangerous voltages or other risks.
- Even if your product is water proof, do not install it slanted place of water leakage, which can a short circuit.
- Fix the product on the wall safely according to the installation guideline to prevent any damage or injury.
- The work of distributing wires needs skills and experiences. So please, for assistance, contact your dealer or call service center.
- The communication lines should be built in being distant from the power source. This may result in the risk of fire, 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 disorder.
- Keep the hook at the wall-mounted device safe. The hook may cause the physical injury.
- Think about the thickness and quality of wall material. The unqualified material may make the device fall.



- Set the device of the wall-mounted type not to fall. Falling from an earthquake causes personal injury.

Cautions for Repairs and Maintenance



- Keep the inside of the device clean. Having the dust inside without any cleaning for a long time causes the fire. 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.
- Unplug this device when you try to move it to another place. If the electric line is connected inside of the unit, please contact your dealer or service center.



- 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 kitchen 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 code when unplugging.
- The damaged code causes fire and electric shock. Must pull with 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 or A/S



- Check the suitability of the lines for installing when you use the exiting lines.
- Do the wiring work by using the designed material.
- Connect the electric wire with 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 place a pot with water or a small metal material on the Units.
- Do not cover the ventilating opening or put any metal material in the units.
- During thunderstorms, avoid using this unit. There may be a remote risk of an electric shock from lightning.
- Do not modify the unit.
- Do not handle the unit with the wet hands.
- Open the main gate after checking ID if the image and sound system do not work, Call A/S



- 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 liquid has been spilled into the unit.
- If the unit does not work normally by following the operating instructions.
- If the unit exhibits a distinct change in performance.
- If the unit has been dropped or physically damaged.

Caution

Safety Instructions, Warnings and Cautions of Each System

- Do not disassemble this unit at will as this device is composed by precision parts.
- Install the unit by following the set-up instructions of Kocom.
- Do not touch or insert any foreign substances, for example, sticker, magnetic, opener and the like.
- Make U-type at the end of wires as the rain can effect on the system by following the wires during the rainy season.
- Do not install the main gate monitor at the leaking place.

Videophone

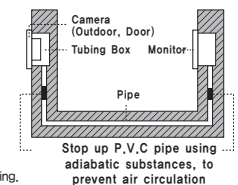
- Separate the AC/DC lines with the hook of the wall-mounted type when installing.
- Do not distribute signal line with AC line.
- Do not clean the LCD with the damp cloth for cleaning. Use the only dry and soft cloth.
- Connect the lines after peeling the wires properly.
- Use the designed driver to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

Things You Need to Know

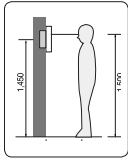
- This product is designed as a home videophone and cannot use continuously like monitor camera.
- If there is temperature difference between inner part of camera and surrounding, dew condensation occurs on camera lens and may disturb image. If dew condensation is removed from camera lens, image quality recovers.
- White LED light examination range is narrower than camera shot range at night, so there is less amount of light at night than day. So it is difficult to see the face in low illumination condition due to noise increase on screen, but it is not from defect.
- Monitor screen (liquid crystal panel) is not in defect when some pixels always light or black out.
- Please install monitor and camera over 5cm away.
- Also, avoid installing at a place with too much noise, because too much noise around camera causes phone call inferiority.
- Do not place an object within 20cm in front of monitor. It causes phone call inferiority, especially because microphone is installed at the top of monitor.
- 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 a direct ray of light do not flow if possible.

Cautions

- In some cases there is occurrence of product destruction, malfunction, noise mixing and picture quality deterioration due to mixing of other tool's induced, voltage or thunder with communication wiring of monitor/camera, monitor/extended monitor.
- Do not wire with power line such as outdoor wiring or AC power, or phones and other tools.
- You cannot use it if you incorrectly wire the AC voltage between monitor/camera, monitor/extended monitor.
- Call the store or agency where you purchased this product and consult to solve the problem.
- Beware that unfixable damage might be caused due to authorizing AC voltage on communication wiring of monitor/camera, monitor/extended monitor.
- Do not ever disjoint this product. It may cause electrocution accident when touching high-voltage circuit inside this product.
- Outside power authorizing this product must be confirmed of product description and use rated voltage.
- Beware that if higher voltage is authorized, unfixable damage might be caused due to product destruction.
- Power must be connected to domestic voltage (product rated voltage) consent or interior wiring.
- If connected to other motive power or inverter-type power, product destruction, noise mixing, and picture distortion may occur.
- 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 to consult agency or store in which this product was purchased.
- Keep away from any conditions where water splatters or falls. Do not place anything containing water like a vase on the product.
- If installed near transmission antenna such as broadcasting station, electric wave may mix and cause picture distortion or voice mixing.
- Avoid installing near tools with strong electromagnetic waves such as microwaves and cell phones, or it may cause picture distortion.
- 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 store
 - ④ Place with high humidity such as bathroom, washroom, heated room
 - ⑤ Place with a lot of gas, dust, smoke
 - ⑥ Dangerous place with sprays of water or chemicals
- Do not wipe with insecticide, drugs or chemicals such as thinner and alcohol, or it may damage the surface of this product.
- Beware of occurrence of image quality deterioration or malfunction from cause of humidity due to penetration of chemicals or water into camera's urea resins.
- As in the picture, it prevents temperature difference of camera (outside) and monitor (inside), and removes dew condensation caused by humidity 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 in monitor and camera due to temperature difference inside and outside may cause product defect.
- Avoid installing monitor and camera in place directly exposed to heat or where gas noxiousness is highly occurring.

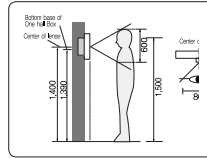


Installation location



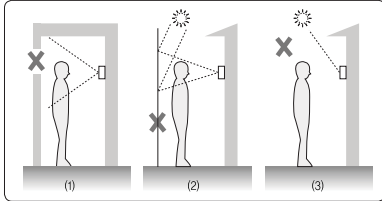
Monitor installation location

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



Camera installation location

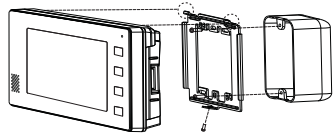
- Camera installation in height Standard camera installation height is when lens is about 1,400mm above the floor.
- In this case, camera stack center (piping box) is above 1,390mm above ground level.
- Standard installation in height



Caution of camera installation

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

Monitor installation

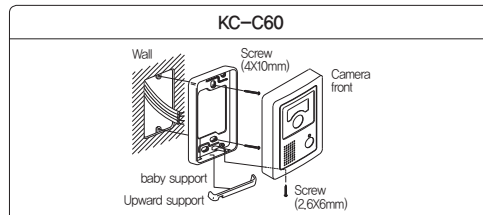
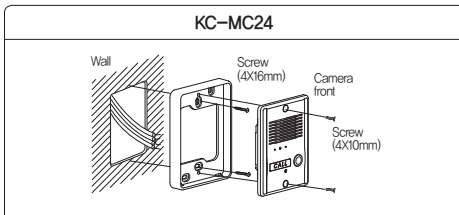
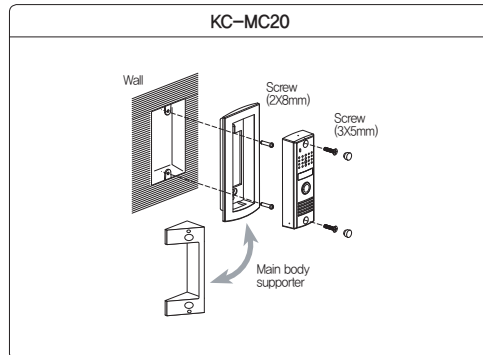
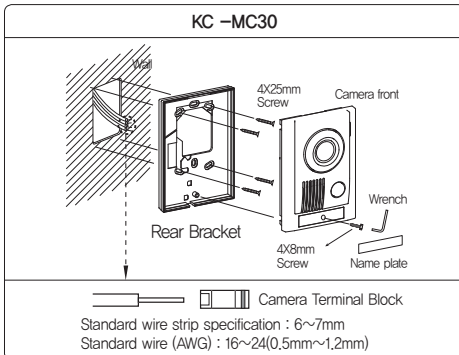


Directly connecting cut-off power cord with power wire

- Do not do such electric work on your own. Installing product in this way requires reliance on electric installation man with electric work license.
- Insulate with insulating tape while cutting off power cord and connecting with power wire so electric wire metal does not expose. Contact between exposed electric wires cause fire or electric shock accident.
- Such electric work requires connection after interception of supplied power.

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

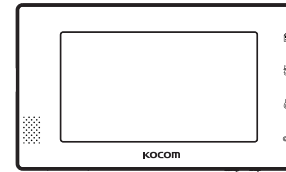
Door camera installation



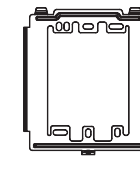
※ After fix the rear bracket with 4 screw, put the Door Camera into the grooves of rear bracket, and then fix it with hexagon screws and stick the finishing materials.

Components of product

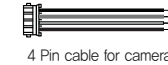
Monitor



A Wall hanger frame

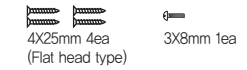


Wire



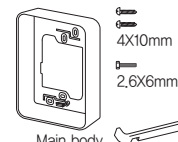
4 Pin cable for camera

Screw for fixing monitor



Door Camera

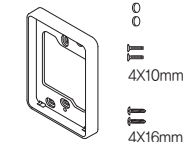
[KC-C60]



4X10mm
2.6X6mm

Screws for fixing main body on the wall
Screws for fixing camera to main frame supporter
Upward adjusting supporter for lens angle

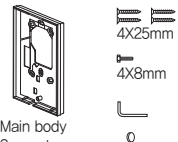
[KC-MC24]



Finishing rubber
Screws for fixing camera main body supporter
4X10mm
Screw for fixing camera
4X16mm

Finishing rubber
Screws for fixing camera main body supporter
4X10mm
Screw for fixing camera
4X16mm

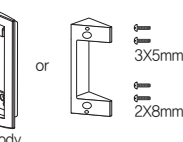
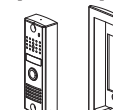
[KC-MC30]



4X25mm
4X8mm
"L" wrench
Scre cap (KC-MB30)

Screws for fixing main body on the wall
Screws for fixing camera to main frame supporter
"L" wrench
Scre cap (KC-MB30)

[KC-MC20]



Screws for fixing camera
3X5mm
Screw for fixing camera
2X8mm

Screws for fixing camera
3X5mm
Screw for fixing camera
2X8mm

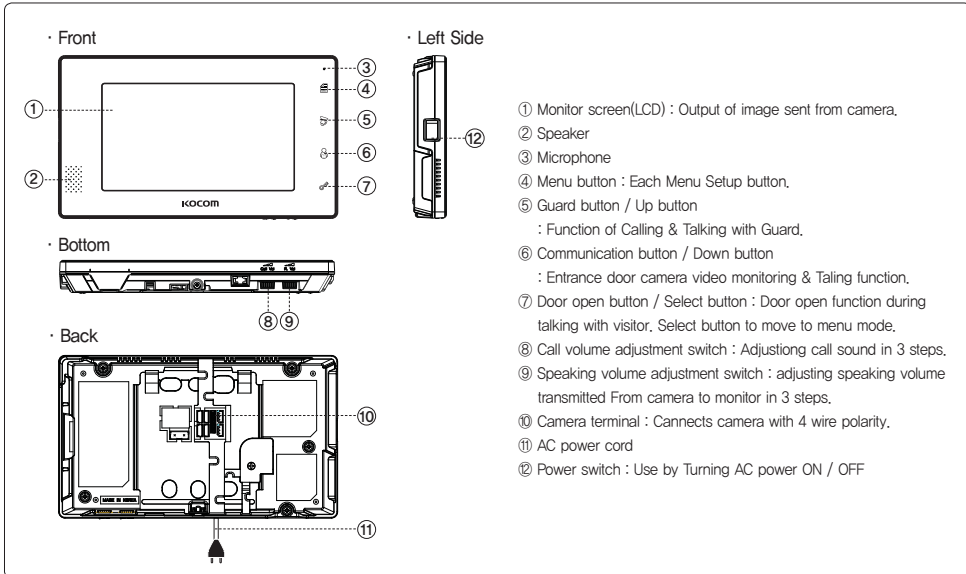
Specifications

	Model No.	KCV-504		KCV-D504	
	Power Source		AC 90V~AC 240V 50/60Hz		DC 15V~2A(JPW128KA1502N05)
Power Consumption		Stand by 1W, In load 8.5W(±20%)			
Operating Temperature		0°C ~ +40°C			
LCD		7 Inch color LCD			
Communication System		Handsfree type			
Wiring		Door camera wiring – Polarized 4 lines(VCC[12V] / GND / VOICE / VIDEO)			
Mount Type		Surface mount			
Dimension		223(W) x 130(H) x 26(D) mm			
Door Camera	Model No.	KC-MC30	KC-MC24	KC-C60	KC-MC20
	Power Source	DC 12V ± 1V(Power from Monitor)			
	Power Consumption	Max. 3W			
	Operating	-10°C ~ +50°C			
	Dimension	110(W) x 158(H) x 39(D)mm	96(W) x 127(H) x 32(D)mm	95(W) x 127(H) x 34(D)mm	40(W) x 120(H) x 22(D)mm
Angle of Lens	Diagonal 120° (angle adjustable)	Diagonal 90°	Diagonal 90°	Diagonal 90°	

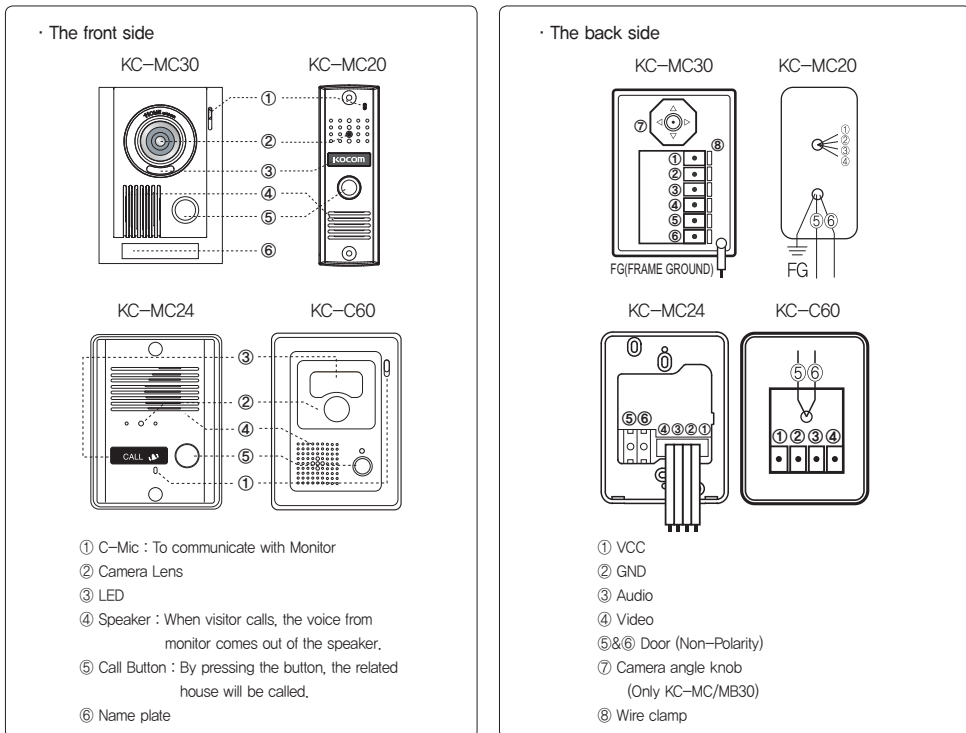
※ Door Camera Wiring – Polarized 4 lines(VCC[12V] / GND / VOICE / VIDEO)

Name and Functions of each part

Monitor part

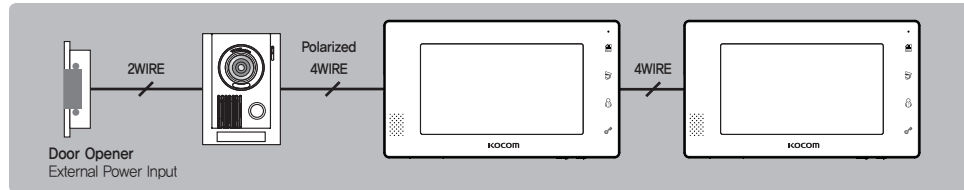


Camera part

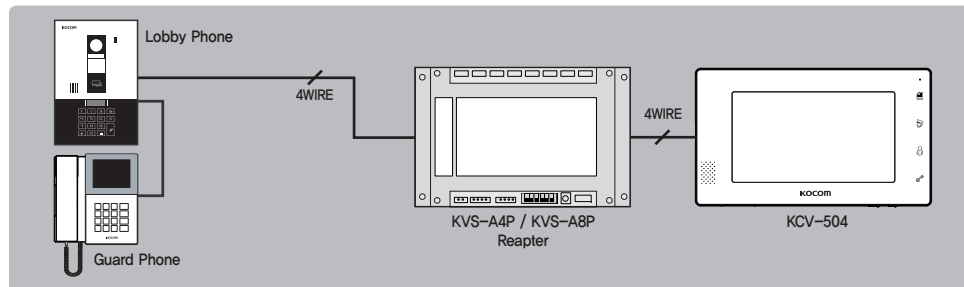


Product connection diafram

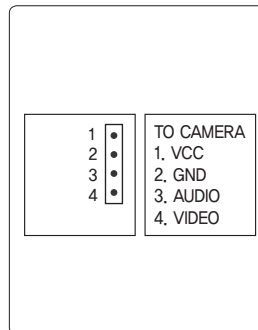
System configurations(Camera Mode)



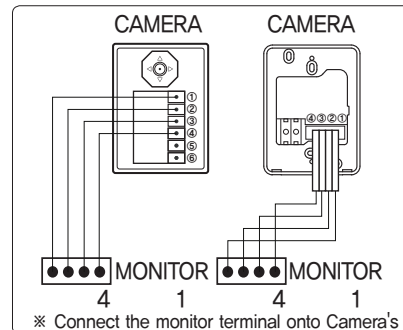
System configurations(System Mode)



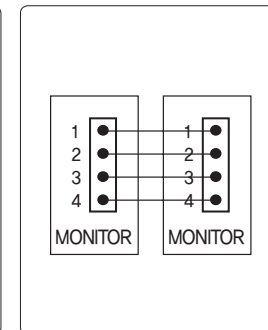
Name of each connection port



Camera connection wiring



Monitor connection wiring

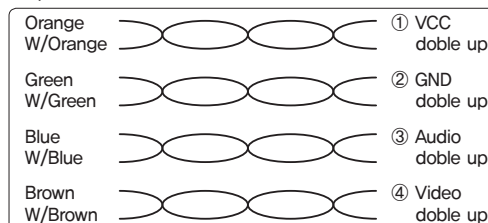


※ Caution for Camera Installation

Because of condition or atmosphere, Monitor can't detect automatically NTSC or PAL. In that case, turn the monitor power off and on again. At the menu # 6 SYNC, it is possible to set NTSC or PAL by manual.

■ Cable requirement - Based on distance from a camera to the monitor

- Upto 100M : CAT5 cable

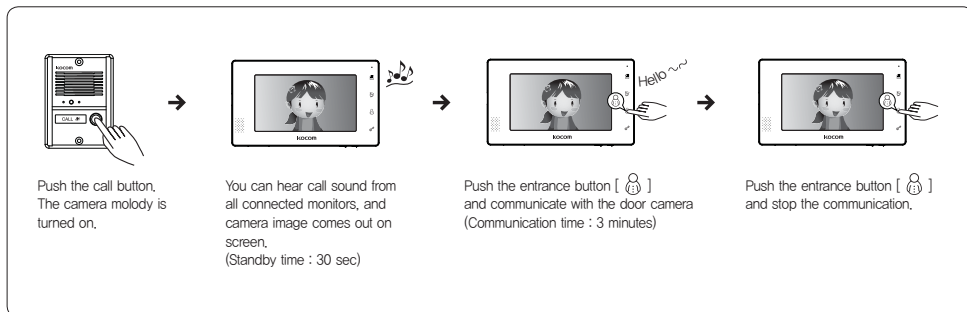


※ CAT5 wire configuration
 ※ In case of more than 50m of CAT5 cable length, the screen and voice quality can get lower. But the symptom is not a kind of fault. So less than 50m is recommended.
 - Upto 50M : TIV 0.65mm² cable
 - Upto 100M : Over TIV 0.8mm² cable
 - Upto 150M : TIV 0.8mm² cable + RG-59 / U RG-59 / U (Coaxial cable) for Video signal (Connect core to Video & shield to GND)

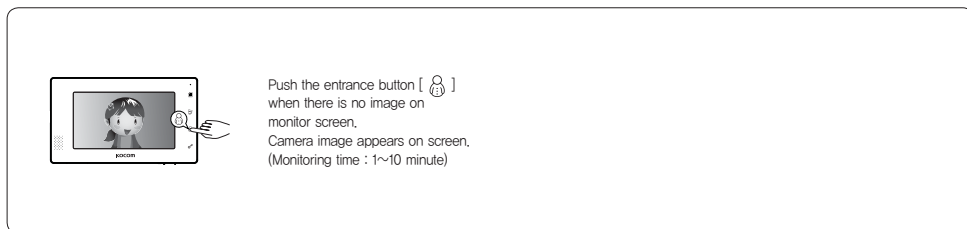
※ According to outside environment, you may view the images somewhat unclear. However, they do not result from any defect or trouble of the product.

Instructions for operation

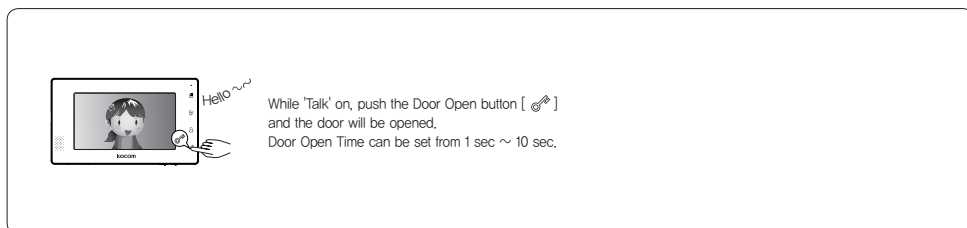
■ Communication with door camera



■ Camera monitoring



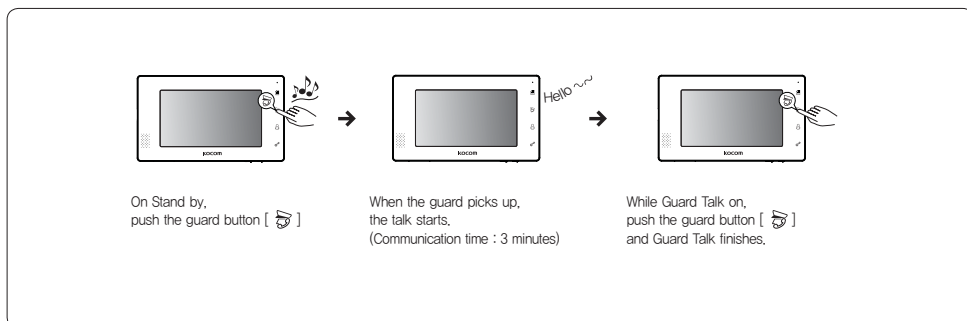
■ Door open



■ Call Guard Master on System mode set


Set #1. MODE as SYSTEM.

This function is for Guard Master, KLP-C420, KVS-A4P or KVS-A8P.



Instructions for operation

■ Sound Adjustment

 Call Adjustment : See the side of monitor and find Call Vol, consisting of 3 level(High/Mid/Mute).

 Receiver Adjustment : While communicating, adjust R. Vol, consisting of 3 level(High/Mid/Low).

■ Brightness Adjustment

– On Talk, push the Menu button [] and the brightness icon will appear.

At this point, adjust the brightness with the keys, UP / DOWN / ENTER.

■ Brightness Adjustment

1. MODE	: CAM
2. CAMERA	: KC-MC20
3. VIEW TIME	: 1 Minute
4. DOOR TIME	: 1 Sec
5. Language	: ENGLISH
6. NTSC/PAL	: AUTO
7. DEFAULT	: NO

1. MODE :

▶ CAMERA : In case of normal door camera

▶ SYSTEM : For Guard Masterphone or KLP-C420

2. CAMERA : Select one of cameras.

3. VIEW TIME : Monitoring Time of 1 Minute ~ 10 Minute

4. DOOR TIME : Door Open Time of 1 Sec ~ 10 Sec / Press Time


5. Language : Select language(English / Russian / Spanish)

6. NTSC/PAL : Select image type

7. DEFAULT : Software becomes default.

 [Menu] Buttons

 Up : [Guard] Button

 Down : [Talk] Button

 ENTER : [Door Open] Button