

10" LCD VIDEOPHONE MANUAL

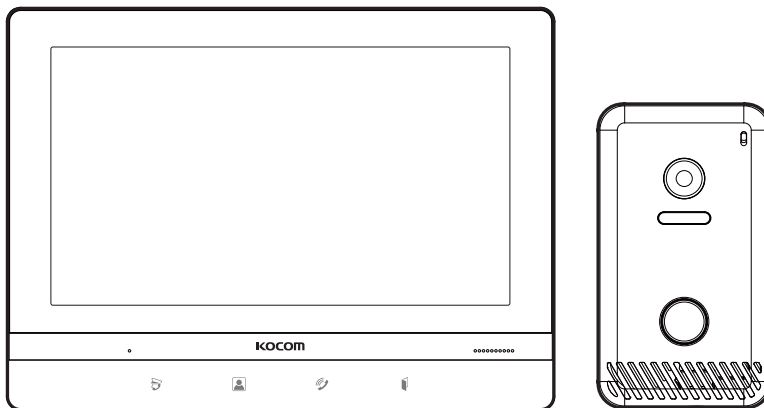


Monitor: KCV-X101K

Door Camera: KC-S81M(D1), KC-R80E, KC-MC24(D1)

KC-MC20(D1), KC-MC30(D1)

Manual for Operation and Installation



- Compact and slim design
- 10" Digital LCD Screen
- Multifamily, Apartment application
- Door Camera/CCTV monitoring function connection up to 2 Door Cameras and 4 Monitors with Sub-interphone (KIP-32G)
- Overall or individual calling available

KOCOM CO.,LTD.

Thank you very much for purchasing KOCOM product. please read this manual thoroughly to ensure correct usage, before operation



Scan QR for
video instructions



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.

 Sign to tell you that you need more attention including high voltages, electric shock, danger, warning)

 Mishandling the device with ignoring this sign may result physical injury or material damage.

 Sign to tell you that you should follow the instructions.

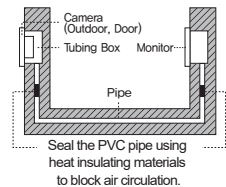
 Sign to tell you that you can't disassemble this unit.



 Sign to tell you that you must unplug the unit.

Cautions



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.
- Even if your product is water proof, do not install it slanted place of water leakage, which can a short circuit.
- Avoid installing near tools with strong electromagnetic waves such as microwaves and cell phones,
or it may cause communication disruption.
- Do not install monitor in following places.
 - ① Above or near the heat sources such as water heater, rice cooker and/or 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 sprays of water or chemicals
- Beware of communication disruption or malfunction from penetration
of chemical or water.



- 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 disruption.
-  · Setting the communication lines in a high humid place such as outside without any protection from rain causes the communication disruption.
- 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.

Warning

Warnings for Usage

- Do not give any damage, break and modify the plug. Overloading, heating, pulling causes the damage.
 - Do not use the power terminal at the units to other electric device except the designed device.
 - ⊘ · 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
 - Power must be connected to domestic voltage (product rated voltage) plug socket or interior wiring.
 - Properly strip the wires before connecting them.
 - Do not run signal line together with AC power line.
-
- ! · Connect the electric wire as designed and ground properly.

Cautions for Use

- This unit is not designed for security purpose.
- Keep sharp or electromagnetic items, like knives, magnets, or tweezers, away from the product.
They may cause product to malfunction.
- Do not handle the unit with the wet hands.
- 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 lighting.
- Do not modify the unit.
- 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

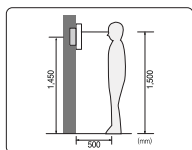
- Change the damaged electric cord.
- Unplug this unit from plug socket and refer servicing to an authorized service center when the following conditions occur:
- ⚠ · If liquid has been spilled into the unit.
- If the unit does not work normally by following the operating instructions.
- If the unit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



View the full version of Precautions ▲

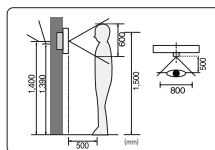
Installation location

■ Monitor installation location



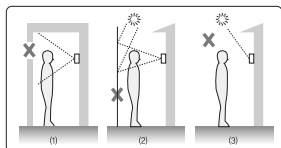
· Recommended installation height is about 1,500mm where screen center is at eye level. In this case, wall-hanging metal center (center of piping) is 1,450mm above from the ground.

■ Camera installation location



· Recommended installation height of door camera is where lens is about 1,400mm above the floor. In this case, camera stack center (flush box) is above 1,390mm above from the ground.

■ Caution of camera installation

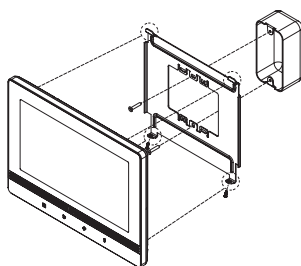


- Avoid installing camera exposed to direct sunlight or other strong light sources.
- Back light or shadow on visitor's face may make difficulties to recognize the visitor.
- Avoid installing camera in places such as the following picture.

- ① Places with illuminating sky as background
- ② Reflective wall or material under direct sunlight
- ③ Enclosed place without light source

■ Installation

1) Monitor installation (KCV-X101K)

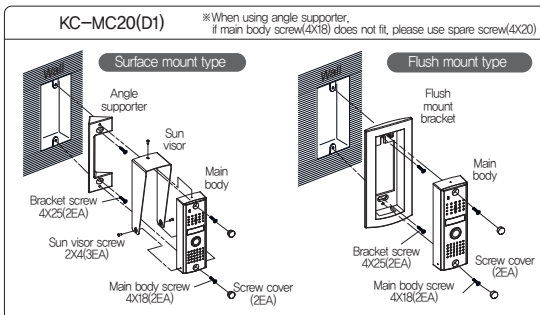
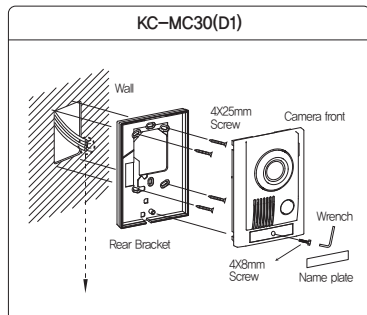
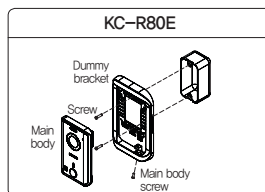
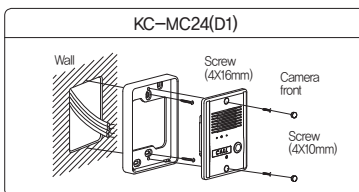
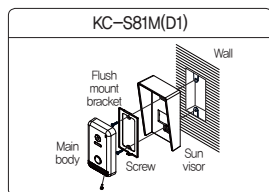


- ① Remove wall hanger frame metal behind monitor.
- ② Install wall hanger frame metal on 1 type box or wall with attached Vis.
- ③ Connect wiring to monitor back terminal referring to product connection diagram.
- ④ Hang monitor on metal wall hanger frame and fix monitor on metal wall hanger frame.
- ⑤ Connect the power plug of the monitor to wall outlet and turn the switch [ON] on the left side of the monitor to check if monitor turns on.

■ Directly connecting cut-off power cord with power wire

- ① Personal electrical work must be avoided. Please find local installer or electrician for installation.
- ② Power cords must be insulated with insulation tape after the work. [Exposed wires may cause fire or electric shock.]
- ③ Highly recommend to cut main power supply off before electrical work.

2) Door Camera installation

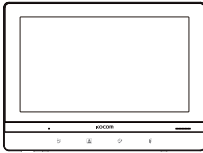


※ Fix the rear bracket/mount first, then attach the Door Camera on the bracket.
 ※ Tightly attach the door camera using the main body screws.

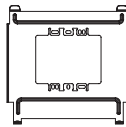
Components of product

■ Components of Monitor [KCV-X101K]

■ Monitor



■ Wall bracket



■ Screws



#8(4.2) x 50mm 4ea
Wall bracket Screws



3 x 8mm 2ea
Wall bracket Monitor Screws

■ Wire



4Pin cable camera x 2ea



5Pin cable door x 2ea



2Pin cable Unit call x 1ea



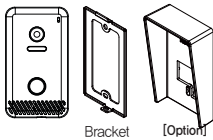
4Pin cable interphone x 1ea



3Pin cable CCTV x 1ea

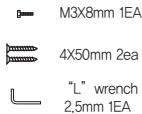
■ Components of Door Camera

[KC-S81M(D1)]



Bracket

[Option]

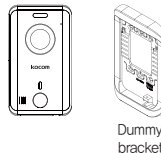


M3X8mm 1EA

4X50mm 2ea

1/4" wrench
2.5mm 1EA

[KC-R80E]



Dummy
bracket

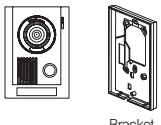


FTS#8 X 50mm 2ea

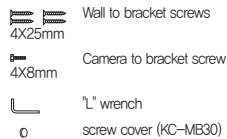
3 X 8mm 1ea

1/4" wrench
2.5mm 1EA

[KC-MC30(D1)]



Bracket



Wall to bracket screws

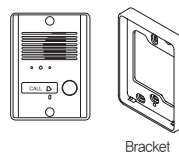
4X25mm

Camera to bracket screw

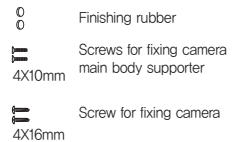
4X8mm

1/4" wrench
screw cover (KC-MB30)

[KC-MC24(D1)]



Bracket



Finishing rubber

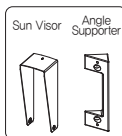
Screws for fixing camera
main body supporter

4X10mm

Screw for fixing camera

4X16mm

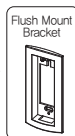
[KC-MC20(D1)]



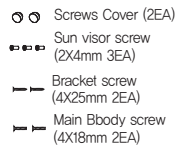
Sun Visor

Angle
Supporter

or



Flush Mount
Bracket



Screws Cover (2EA)

Sun visor screw
(2X4mm 3EA)

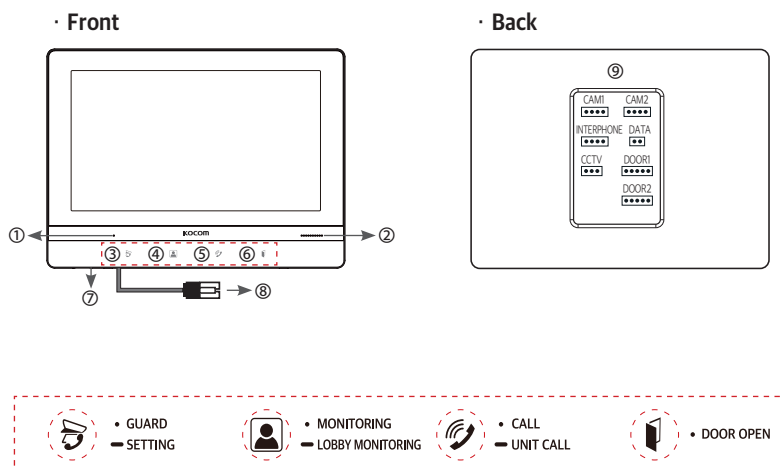
Bracket screw
(4X25mm 2EA)

Main Bbody screw
(4X18mm 2EA)

※ In case of Surface mount type, 'Sun Visor' and 'Angle Supporter' are packed together with the 'product'. Flush mount type includes 'flush mount bracket'.

Name and functions of each part

■ Monitor



① Microphone

② Speaker

③ Press: **Guard**

- Press and Hold: **Menu Settings**

④ Press: **Entrance monitoring**

- Press and Hold: **Lobby monitoring**

⑤ Press: **Call**

- Press and Hold: **Unit call**

⑥ Press: **Door open**

⑦ Power ON/OFF Switch

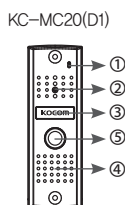
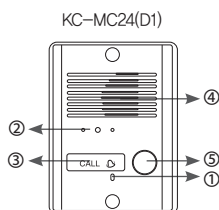
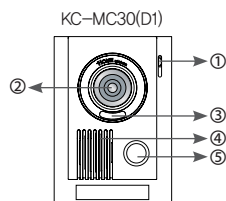
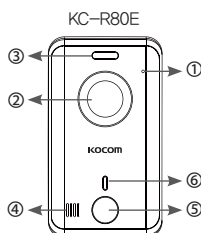
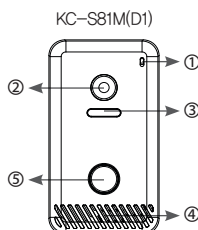
⑧ Power: AC input power cord

⑨ Terminal: Ports for Door camera1, Door camera2, Interphone, Door open, Inner data CCTV

Name and functions of each part

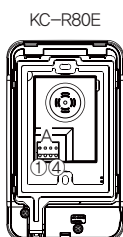
■ Door Camera

· Front

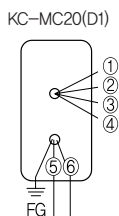
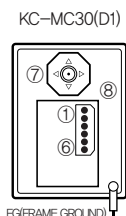
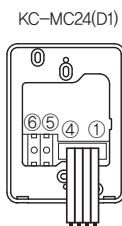


- ① C-Mic
- ② Camera Lens
- ③ LED
- ④ Speaker
- ⑤ Call Button
- ⑥ Power LED

· Back



- A ①VCC(BLUE)
②GND(YELLOW)
③AUDIO(RED)
④VIDEO(WHITE)
- B ①COM(BLACK)
②NO(BROWN)
③NC(ORANGE)



- ① VCC
- ② GND
- ③ AUDIO
- ④ VIDEO
- ⑤ DOOR COM
- ⑥ DOOR NO
- ⑦ CAMERA ANGLE KNOB (ONLY KC-MC30)
- ⑧ WIRE CLAMP

Specifications

Monitor	Model No.	KCV-X101K AC TYPE		KCV-X101K DC TYPE		
	Power Source	AC100-240V~, 50/60Hz		DC 14V, 2A (CT-140200)		
	Power Consumption	2W ±20%(ON STAND BY) MAX 8W ±20%(FULL LOAD)				
	Operating Temperature	0℃ ~ +40℃				
	LCD	10 inch LCD				
	Communication Type	HandsFree Type				
	Input / Output	Door Camera : 2mm pitch 4Wire x 2 Interphone : 2mm pitch 4Wire x 1 Inner DATA : 2mm pitch 2Wire x 1 Door Open : 2mm pitch 5Wire x 2 CCTV : 2mm pitch 3Wire x 1				
	Maximum wiring distance (UTP CAT5e or Coaxial)	Door Camra to last VDP 1) Door Camera : 30m UTP Cat5e (Guaranteed distance: 30 meters / May result in poor image quality over 30 meters up to 100 meters.) 2) CCTV to VDP ----- 100m (When using Coaxial cable (RG59)) 3) Interphone to VDP ----- 20m ※ Refer to ""product wiring"" below for cable wiring ※ UTP CAT5e : The resistance of 100 m of cable should be 10 ohms or less				
	Mount Type	Surface mount				
	CCTV Type	Analog 0.52Mega pixel Camera				
Dimension	265(W) x 195(H) x 23.5(D)mm					
Door Camera	Model No.	KC-S81M(D1)	KC-R80E	KC-MC24(D1)	KC-MC30(D1)	KC-MC20(D1)
	Resolution	0.41Mega pixel	0.52Mega pixel	0.41Mega pixel	0.41Mega pixel	0.41Mega pixel
	Power Source	DC 12±1V(Power from Monitor)				
	Power Consumption	Max. 3W				
	Operating temperature	-10℃ ~ +50℃				
	Dimension(mm)	70(W) x 125(H) x 21(D)	87(W) x 150(H) x 15(D)	96(W) x 127(H) x 32(D)	110(W) x 158(H) x 39(D)	40(W) x 120(H) x 22(D)
	Viewing angle	Diagonal 90°	Diagonal 100°	Diagonal 90°	Diagonal 90°	Diagonal 90°
	Adjusting Angle	No	Yes	No	Yes	No

※ Door Camera Wiring : Polarized 4 wire (VCC / GND / AUDIO / VIDEO)

※ Recommend DC adaptor : CT-140200 (14V)

※ Using any other DC adapters may cause poor image and/or audio quality.

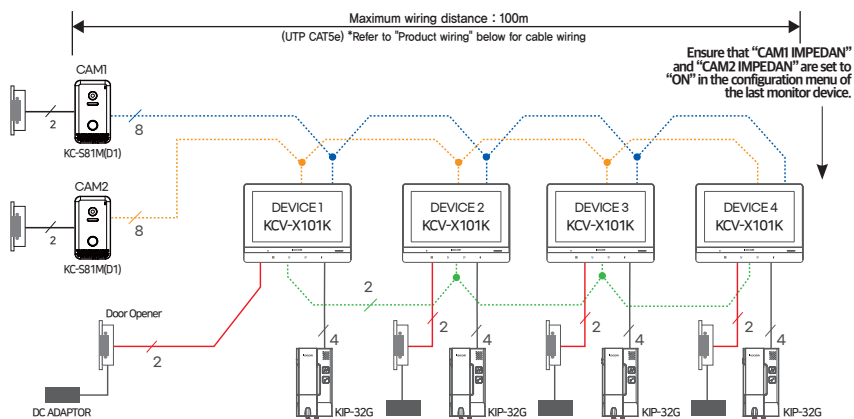
※ When using CAM 2 and/or CCTV ports, ports must be enabled in the settings menu.

Product wiring diagram

■ Product external wiring diagram

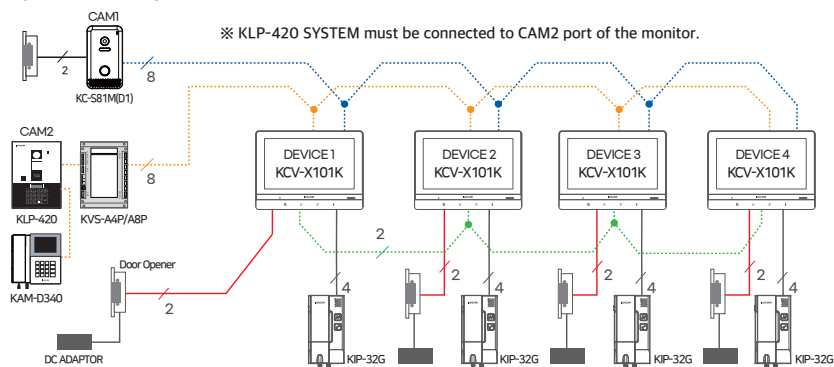
■ Camera mode diagram

- Use UTP when wiring cameras

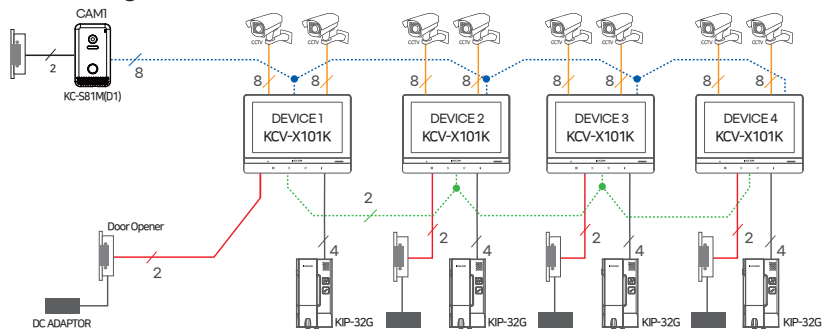


■ System mode diagram

※ KLP-420 SYSTEM must be connected to CAM2 port of the monitor.

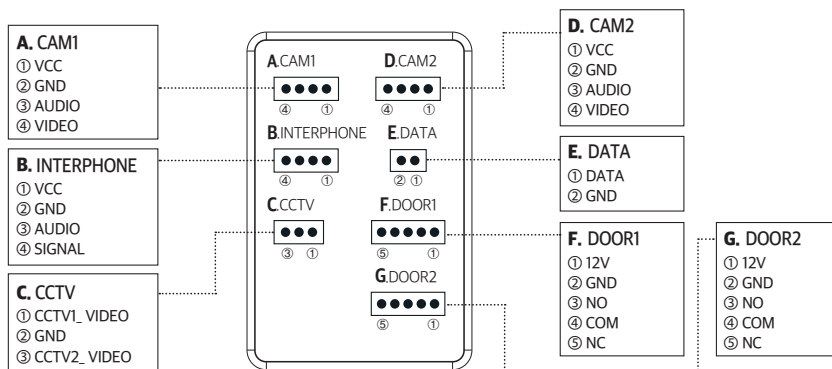


■ CCTV mode diagram

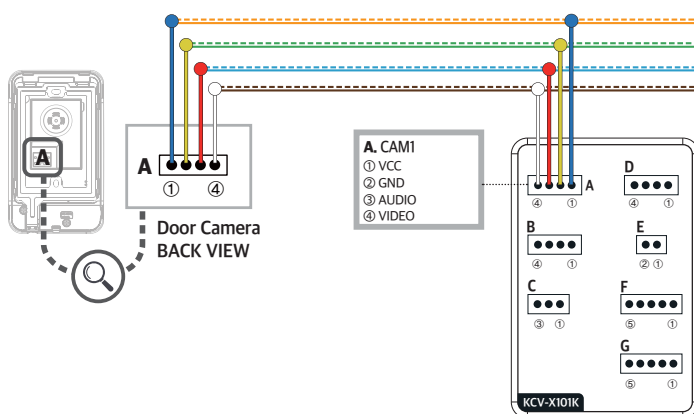


Product wiring diagram

■ Terminal (Monitor)

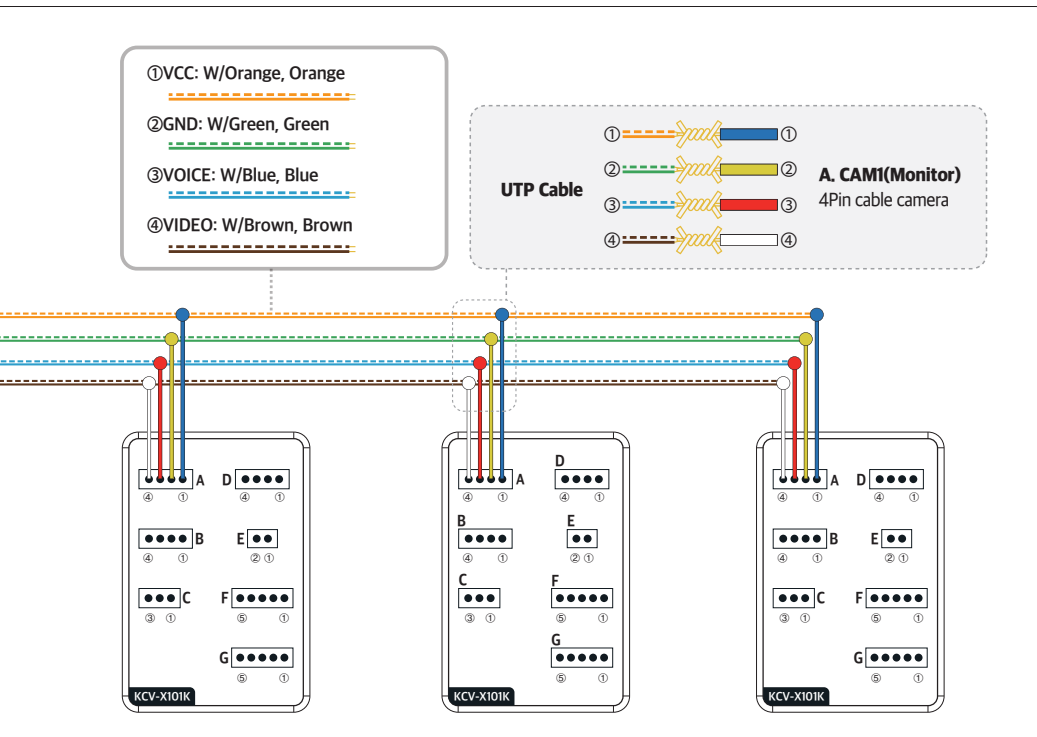


■ CAM1 - D1(0.41Mega pixel) 0.52Mega pixel Door Camera



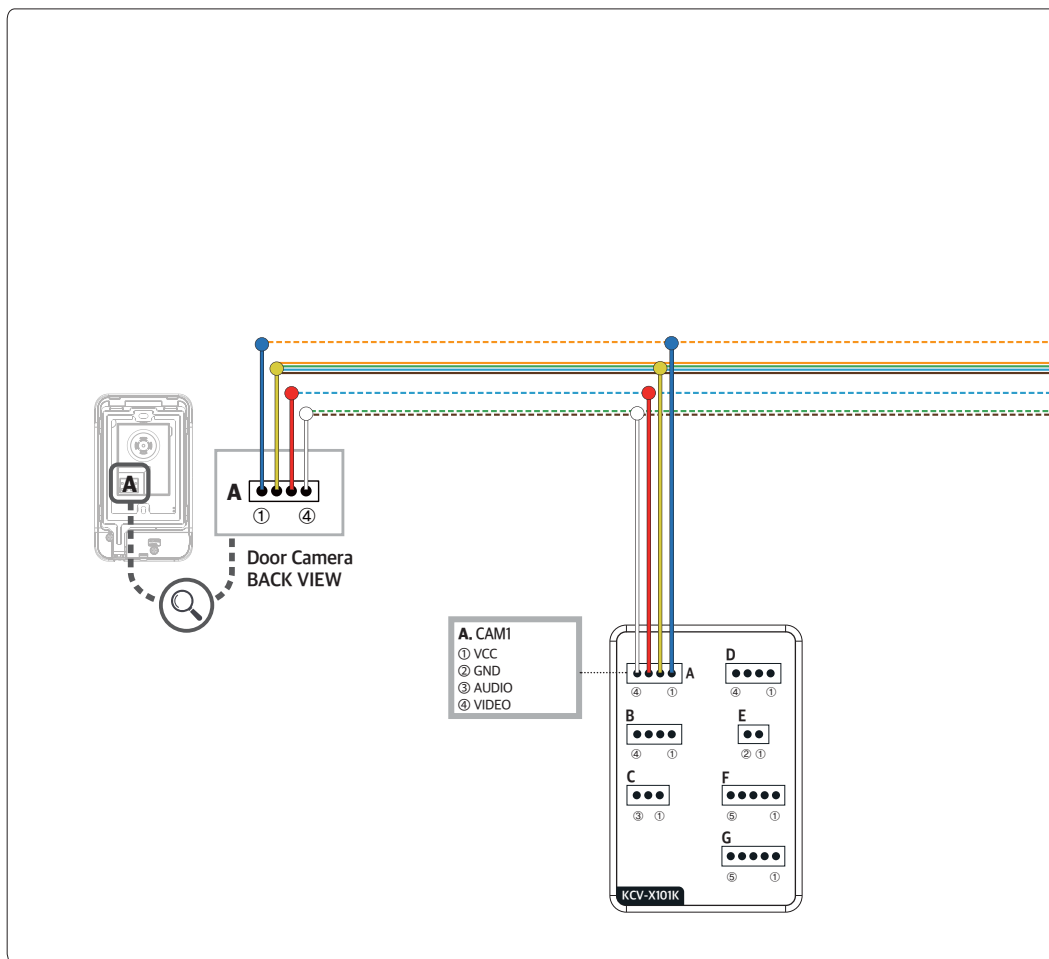
- ※ All 8 Wires of UTP Cable shall be used to connect.
- ※ Each of the 8 wires shall be used as described diagram above.
- ※ Unconnected UTP wire may cause poor image quality or noise in audio.

Connection distance: ~ 30meters



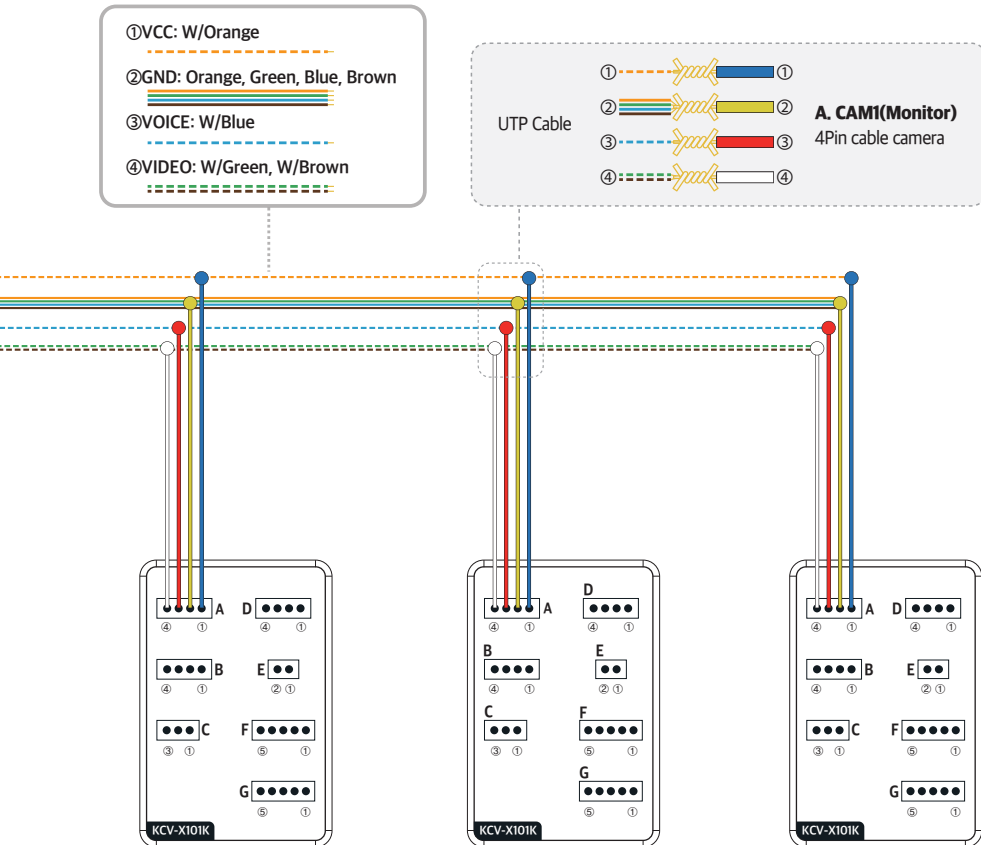
Product wiring diagram

■ CAM1 - D1(0.41Mega pixel) 0.52Mega pixel Door Camera



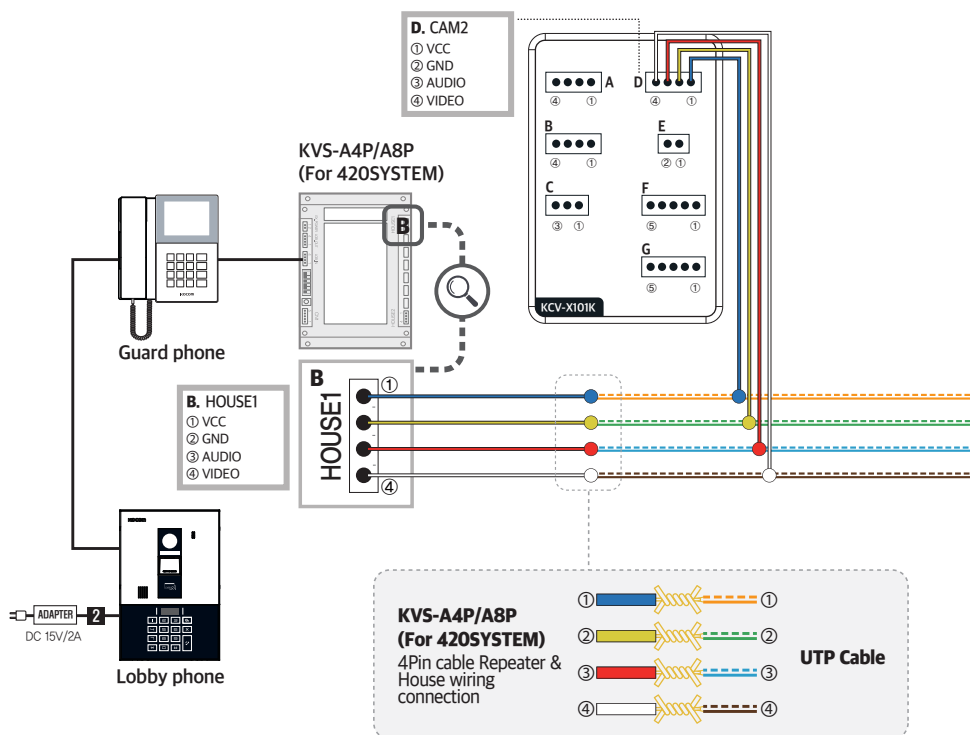
- ※ All 8 Wires of UTP Cable shall be used to connect.
- ※ Each of the 8 wires shall be used as described diagram above.
- ※ Unconnected UTP wire may cause poor image quality or noise in audio.

Connection distance: 30~100 meters



Product wiring diagram

■ CAM2 - 420System connection (Ex-monitor Connection)

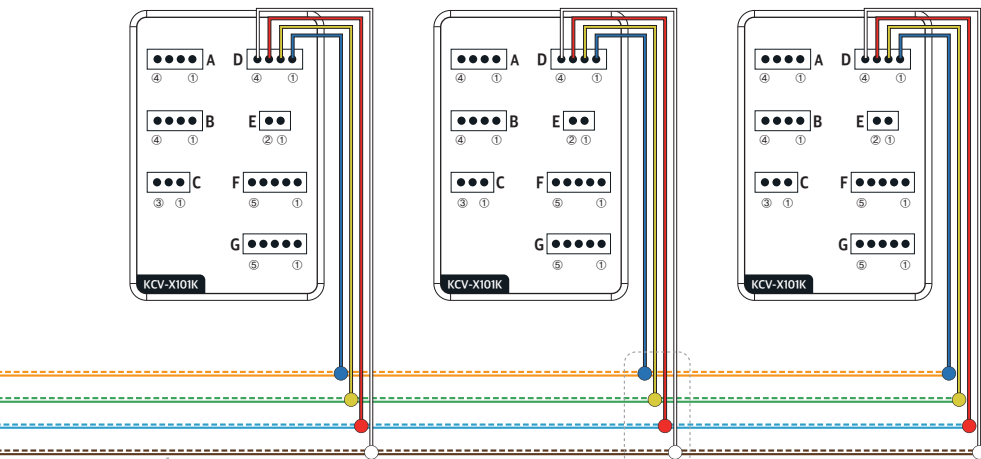


Please check the 420 System User Manual for detailed instructions.

※ All 8 Wires of UTP Cable shall be used to connect.

※ Each of the 8 wires shall be used as described diagram above.

※ Unconnected UTP wire may cause poor image quality or noise in audio.



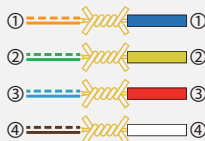
①VCC: W/Orange, Orange

②GND: W/Green, Green

③VOICE: W/Blue, Blue

④VIDEO: W/Brown, Brown

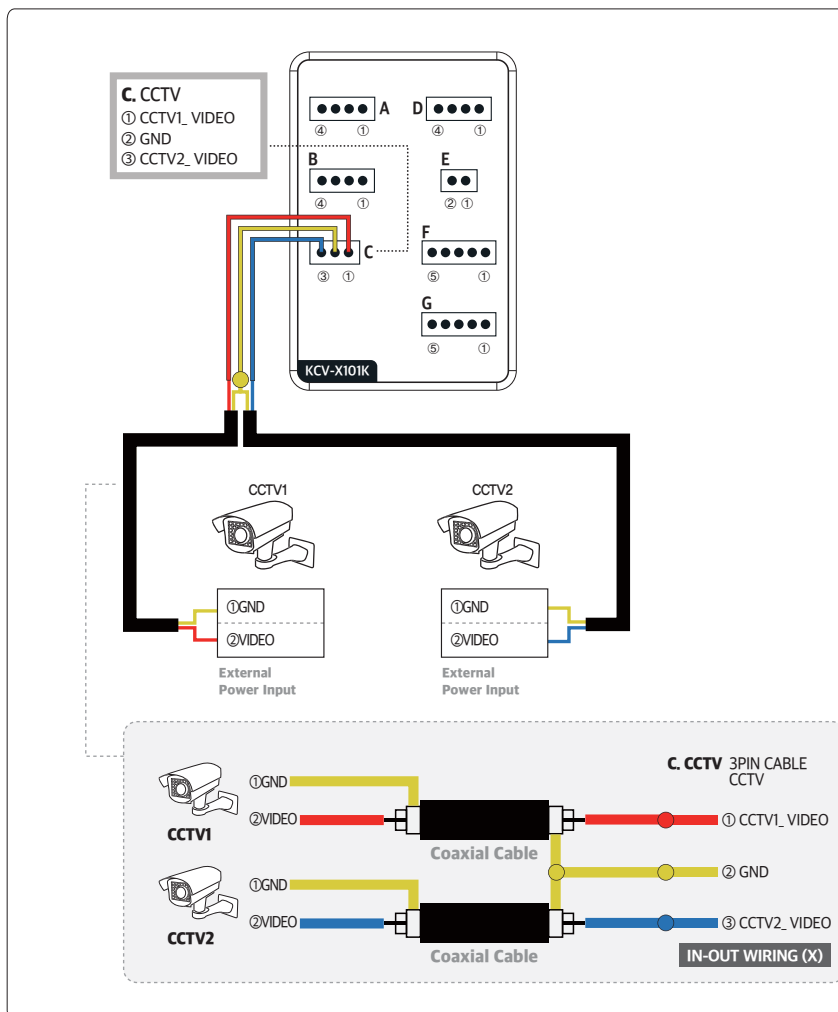
UTP Cable



D. CAM2(Monitor)
4Pin cable camera

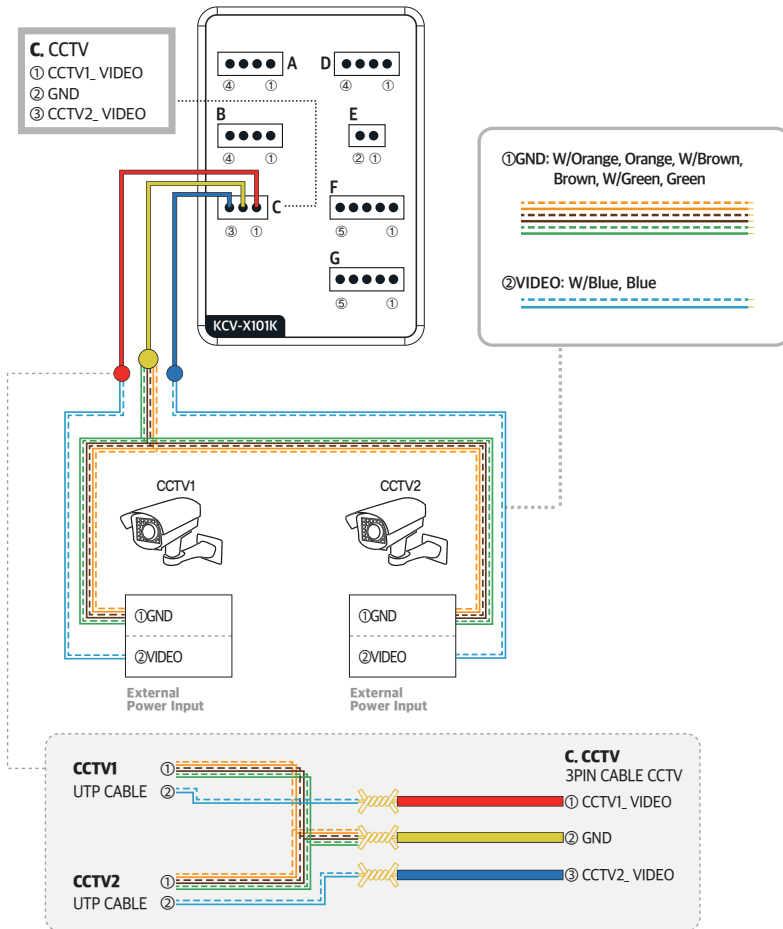
Product wiring diagram

■ CCTV - CCTV Connection When using coaxial cable(Ex-monitor Connection)



- CCTV should have its own power source.
- Only compatible with CVBS camera.
- Use Coaxial Cable for CCTV connection.
- Using UTP cable for CCTV is not recommended as it may result into poor image quality or no video stream.
- Due to automatic video recognition, the CCTV image stream might have a brief motion blur effect when it starts up.
- ※ UTP CAT5e : The resistance of 100m of cable should be 10 ohms or less.
- ※ More than 30 meters of distance may cause poor image quality. Recommended wire specification as follow.
 - Upto 30m : UTP CAT5e / Upto 100m : Coaxial cable (RG-59) (Connect core to Video & shield to GND)

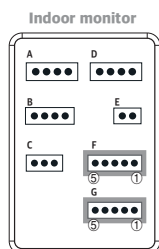
■ CCTV - CCTV Connection (Ex-monitor Connection)



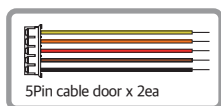
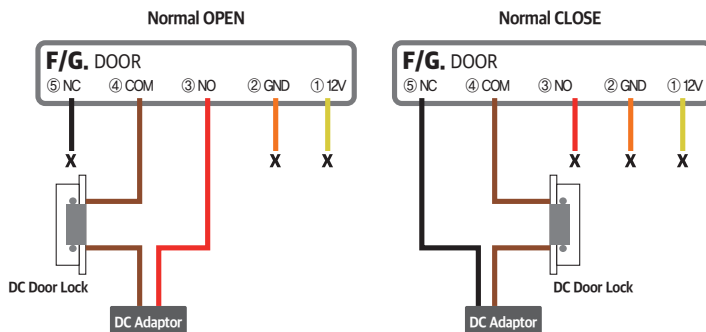
- ※ All 8 Wires of UTP Cable shall be used to connect.
- ※ Each of the 8 wires shall be used as described diagram above.
- ※ Unconnected UTP wire may cause poor image quality or noise in audio.
- ※ Unlike door cameras, CCTV images cannot be streamed to all monitors in a system.
 CCTV image can only be streamed to the monitor directly connected to the CCTV.

Product wiring diagram

■ Monitor's door opener connection

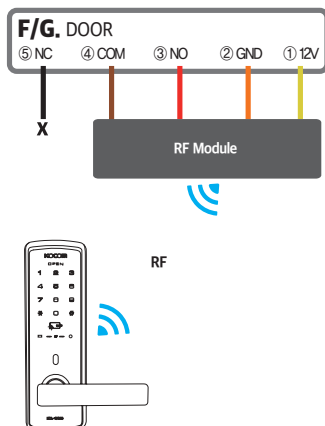


(1) DC door lock connection



- ※ When using extended monitor, It may not work properly if the wire length is more than 50 meters. At this time, reduce the wire resistance value by using four wires in a bundle of UTP cable.
- ※ Please use either NO (Normal Open) or NC (Normal Close) based on the specifications of the door opener.
- ※ Please refer to the door opener manual to determine whether it is an NO (Normal Open) or NC (Normal Close) type.

(2) Using RF module for digital doorlock

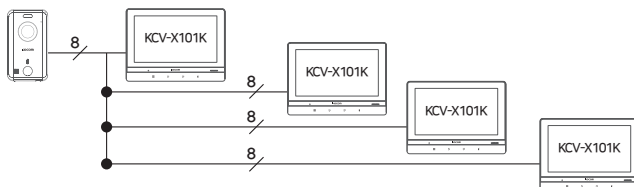


- ※ Please consult with the digital door lock supplier regarding the installation of the RF module on the door lock.
- ※ Remark: Ex-monitor means extended monitors

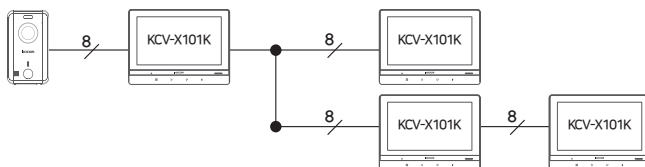
Caution for connection wiring

■ Incorrect wiring

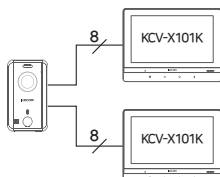
> Incorrect Wiring (parallel wiring)



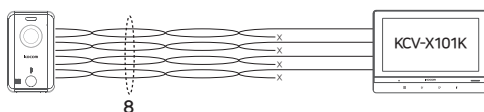
> Incorrect Wiring (wiring monitor to monitor directly)



> Incorrect Wiring (connecting more than 1 monitor to 1 camera)

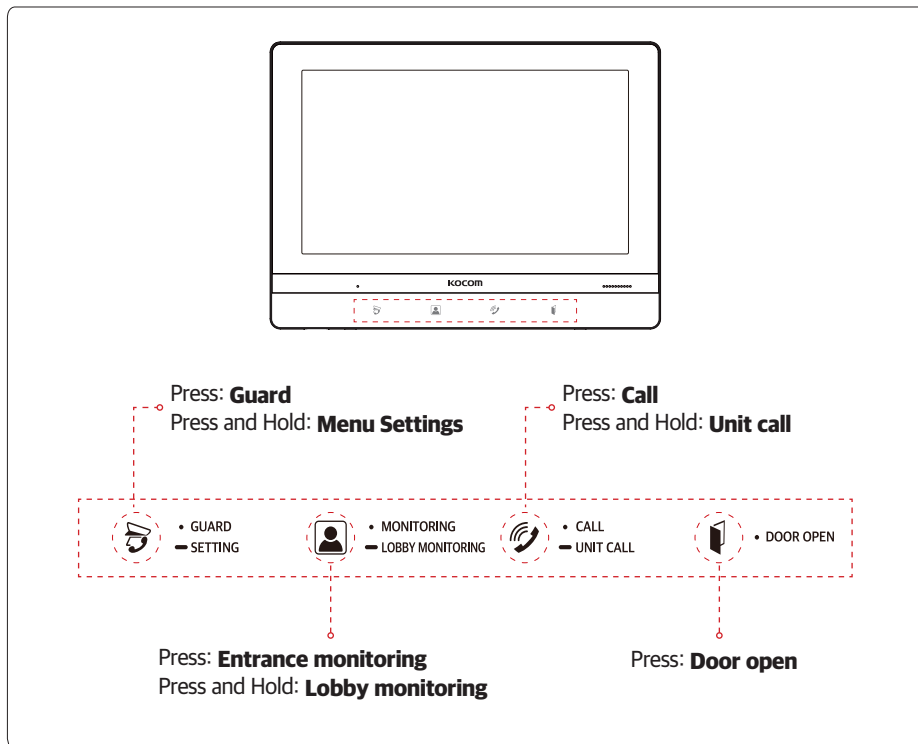


> Incorrect Wiring (not using all 8 wires of UTP cable)

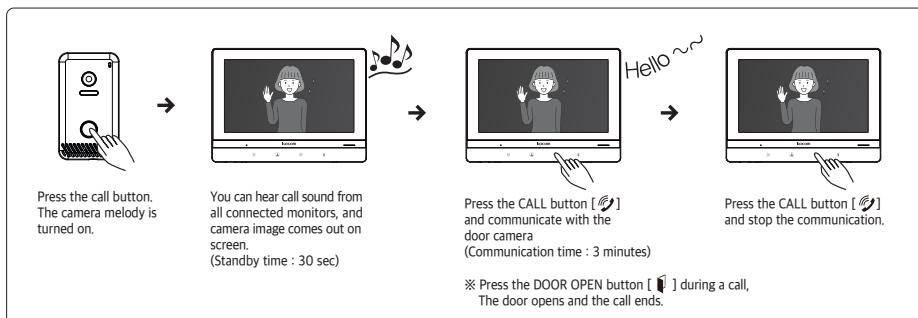


Instruction for operation

■ Main button function

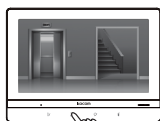



■ Communication with Door Camera



Instruction for operation

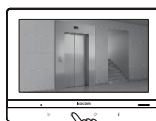
■ Entrance monitoring (Door Camera)




Press the MONITORING button [] when there is no image on monitor screen.
(Monitoring time : 30 sec)

※ Entrance and Lobby monitoring lasts for 30 seconds and automatically closes afterward. During monitoring, the user can communicate with the visitor and control the door opening.

■ Lobby monitoring



Press and hold for 3 seconds or longer~

Press and hold the MONITORING button [] for about 3 seconds when there is no image on monitor screen.
(Monitoring time : 30 sec)

※ Monitoring time is 30 seconds, and automatically ends when it times out. In monitoring state, communicate and door opening operations are possible.

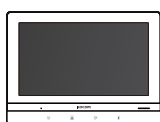
■ Call Guard Station on system mode set

Set #1. Mode as system

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




On Stand by,
Press the GUARD button []




Call starts when the guard picks up the phone.
(Communication time : 3 minutes)




Press the GUARD button [] to end talk with guard station.

■ Receiving from the other monitor



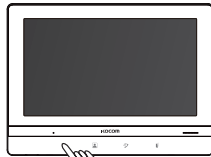
Press the CALL button [] for an extended period (3 seconds or longer) once to internal call.



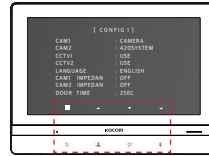
When pressing a CALL button [], that slave monitor or audiophone calling will be in operation.
(Communication time : 3 minutes)


Instruction for operation

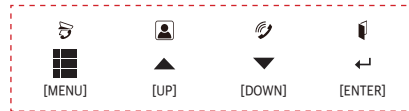
■ Menu setting (Button function change guide)



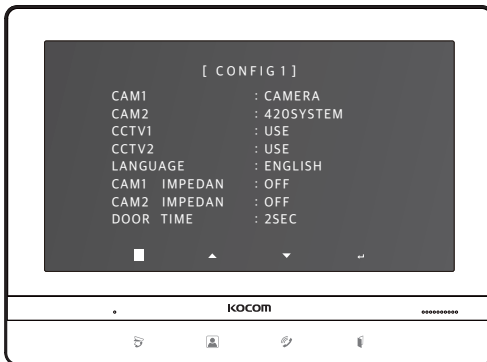
Press and hold
3 seconds or longer~



To enter the settings menu, press and hold the GUARD button [] for more than 3 seconds within 1 minute after the monitor starts up.

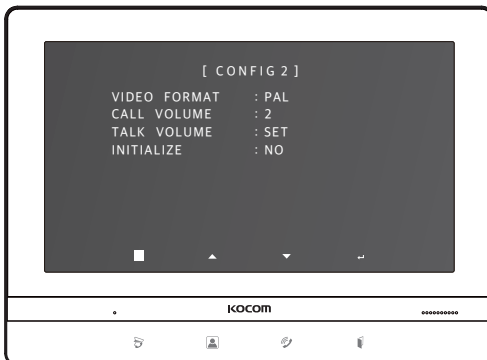


■ Menu_Config1



- ▶ CAM1: CAMERA (default)
- ▶ CAM2: OFF (default) / CAMERA / 420SYSTEM
Set to "420SYSTEM" if the monitor is connected to KLP-C420 lobbyphone.
- ▶ CCTV1: OFF (default) / USE
- ▶ CCTV2: OFF (default) / USE
- ▶ LANGUAGE: ENGLISH (default) / ESPANOL / ARABIC
- ▶ CAM1 IMPEDAN: If the monitor is the last device connected to CAM 1, set to "ON." Otherwise, set to "OFF."
- ▶ CAM2 IMPEDAN: If the monitor is the last device connected to CAM 2, set to "ON." Otherwise, set to "OFF."
- ▶ DOOR TIME: Door open time (default: 2 SEC)
(0.5/1/2/3/4/5/6/7/8/9 Sec, While press)

■ Menu_Config2



- ▶ VIDEO FORMAT: AUTO (default) / NTSC / PAL
- ▶ Call Volume: Adjust speaker volume (Variable range: 1~3)
- ▶ TALK Volume: Adjust microphone volume (Variable range: 1~3)
- ▶ INITIALIZE : Set "YES" to run factory reset

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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	KCV-X101K
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 disruption.

☛ Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

KOCOM
KOREA COMMUNICATIONS CO., LTD

SINCE
1976

www.kocom.com
E-mail : global@kocom.co.kr

This manual is based on the date as shown in the right and specifications are subject to change without notice for quality improvement.

KCV-X101K

Y0826