KOCOM

7inch Videophone Manual

[KCV-S701EBC]
Manual for Operation and Installation

Videophone
KCV-S701EBC

- 7 inch color digital LCD screen
- Call & Communication with a visitor
- Expandable up to 2 door cameras and 4 indoor units
  : Monitor with sub-interphone (KIP-32GU)
- Video and Audio monitoring of the door cameras
- Operating condition display with icons (OSD)
- Door open

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

Contents

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.
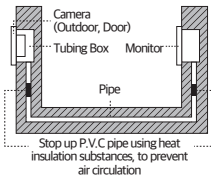
⃠ Sign to show what not to do.	⚠ Mishandling the device with ignoring this sign may result in serious injury or death.
⚠ Sing to tell you that you need more attention including high voltages, electric shock, danger, warning.	
⚠ Mishandling the device with ignoring this sign may result physical injury 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 unaurhtorized 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.

Camera (Outdoor, Door)
Tubing Box   Monitor
Pipe
Stop up P.V.C pipe using heat insulation substances, to prevent air circulation

· 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.
· 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 ▲

Monitor_Installation
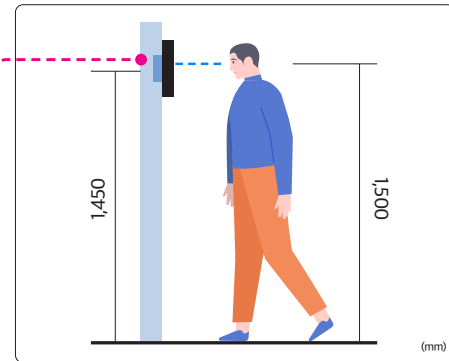
■ Monitor installation location

- Standard installation point is 1,500mm above the floor where the screen is at the eye-level. In this case, center of wall hanger frame is about 1,450mm above the floor.

1,450

1,500

(mm)

Main body

Wall hanger frame

Screw
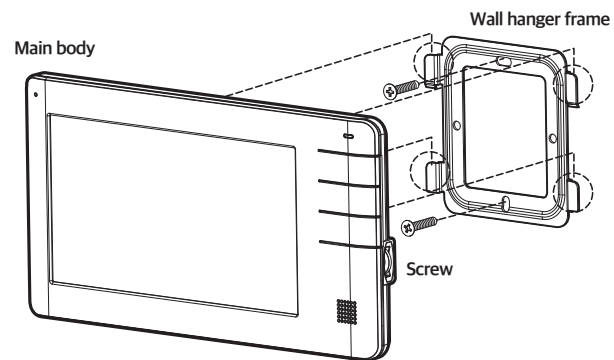
■ Directly connecting cut-off power cord with power wire

1) Do not do such electric work on your own.
   Such work would require highly experienced expert with proper license.

2) 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.

3) Electric work must be done without the main power.

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

Monitor_Components of Product

■ Monitor

■ Wall hanger frame

■ Wire

2Pin cable for DC (Out) x 1ea

4Pin cable for camera x 2ea
4Pin cable for Intercom x 1ea
4Pin cable for EX-monitor x 2ea
4Pin cable for EX-Intercom x 1ea
4Pin cable for Interphone x 1ea

3Pin cable for door opener x 1ea

■Screws

Screw
x 4ea

Plastic expansion pipe
x 4ea

■DC adaptor

1ea   (Only included for DC type)
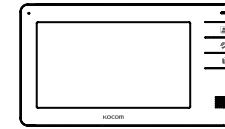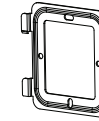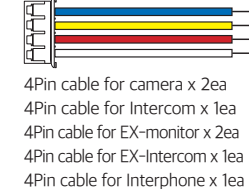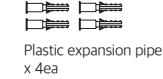
Monitor_Name of Each Part

FRONT
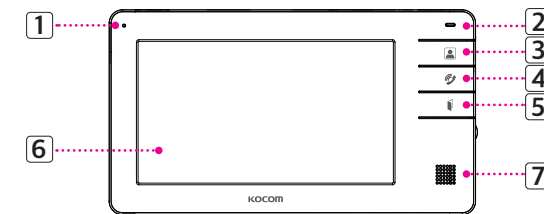
SIDE

BACK < KCV-S701EBC(DC) >
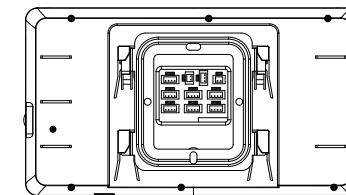
BACK < KCV-S701EBC(AC) >
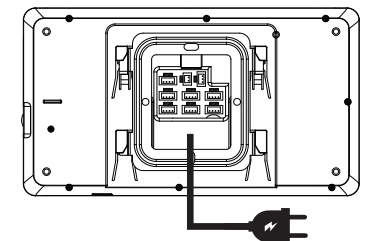
1	Mic	5	Open door button : Open the door
2	Power LED	6	LCD Monitor
3	Monitoring button	7	Speaker
4	1 – Call button : Connect talk with the door camera 2 – Extension call 3 – Guard call : When in standby can press call guard	8	Jog switch

Door Camera_Installation

■ Camera installation location

Bottom base of one flush box

Center of lens

609

1,400
1,390

1,500

500

● Eye reference point

(mm)
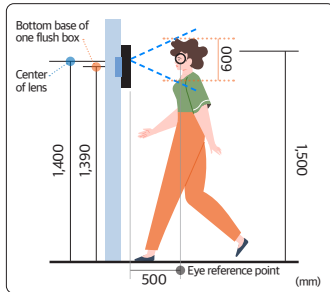
- Standard installation point is 1,400mm above the floor. In this case, camera lens itself will be placed at around 1,390mm above the floor.
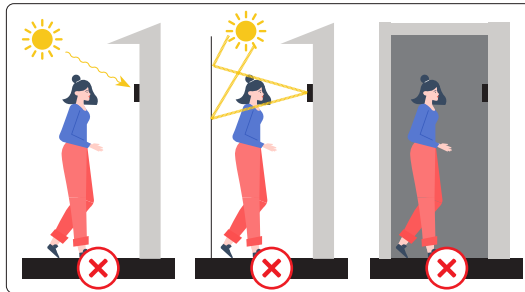
■ Caution

- Avoid installing camera under direct sunlight.
- Avoid backlit on the visitor's face, which make identification difficult.
- Avoid installing camera in places such as the following picture.
  (1) Place illuminating sky as background
  (2) Reflective wall or material under direct sunlight
  (3) Enclosed place without light source

[KC-S81MU]

Wall

Wall hanger frame

Main body

Sunvisor (Option)

Screw

[KC-W81U]

Surface mounted

Angle supporter

Door Camera_Components of Product
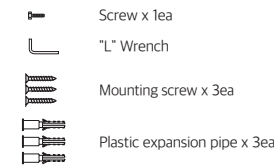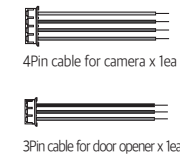
■ KC-S81MU   ■ Wall hanger frame   ■ Sun visor (Option)   ■ KC-W81U   ■ Hood cover   ■ Angle supporter

■Screws
- Screw x 1ea
- "L" Wrench
- Mounting screw x 3ea
- Plastic expansion pipe x 3ea

■ Wire
- 4Pin cable for camera x 1ea
- 3Pin cable for door opener x 1ea

■Screws
- Mounting screw x 2ea
- Fixing main body screw x2ea
- Plastic expansion pipe x 2ea
- Fixing hood cover x 1ea
- "L" Wrench
- Rubber stopper of regulating hole x 2ea
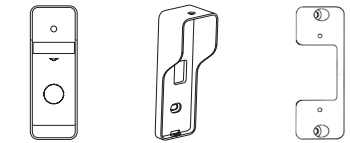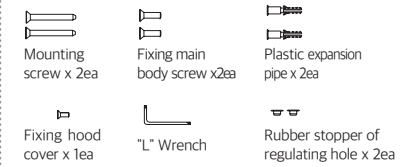
Door Camera_Name of Each Part

■ KC-S81MU

FRONT

1 Mic
2 Camera lens
3 LED
4 Call Button
5 Speaker

BACK

A To Monitor
① Blue : VCC
② Yellow : GND
③ Red : AUDIO
④ White : VIDEO

B To Door Opener
① Black : COM
② Brown : NO
③ Orange : NC

A   B
① ④ ① ③

■ KC-W81U

FRONT

1 Camera lens
2 IR LED
3 Mic
4 Call Button
5 Speaker

BACK

6 3pin : Connection for door opener
- Orange : COM
- Blue : NO
- Green : NC

7 4pin : Connection for monitor
- Yellow : VIDEO
- White : AUDIO
- Black : GND
- Red : VCC

8 Speaker volume adjust
9 Mic volume adjust
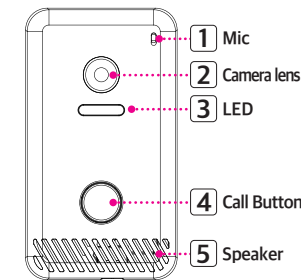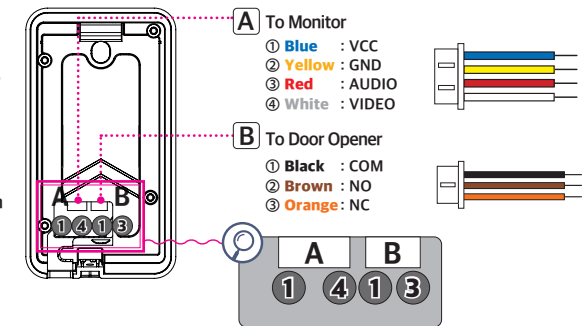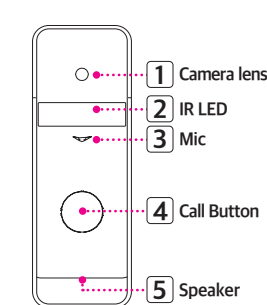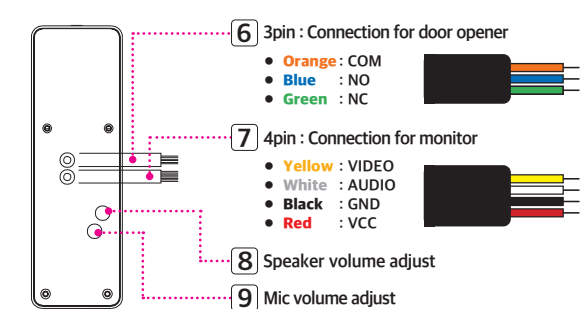
Product Specifications

	Model No.	KCV-S701EBC(DC)	KCV-S701EBC(AC)
Monitor	Power Source	DC 15V 1.5A	AC 100~240V ~ 50Hz/60Hz
	Power Consumption	1W(±20%)(On Stand by), 7.5W(±20%)(In load)	
	Operating Temperature	0℃ ~ +40℃	
	Display	7 Inch color LCD	
	Communication System	Handsfree type	
	Wiring	Door camera : Polarized 4 wire Ex_Monitor : Polarized 4 wire Door opener : Polarized 3 wire Interphone : Polarized 4 wire Lobby phone : Polarized 6 wire	
	Mount Type	Surface mount	
	Dimension	220(W) x 123(H) x 19(D) mm	220(W) x 123(H) x 22(D) mm
Door Camera	Model No.	KC-S81MU	KC-W81U
	Power Source	DC 10V ~ 15V (Power from monitor)	DC 10V ~ 15V (Power from monitor)
	Power Consumption	Max. 2.8W	Max. 2.8W
	Operating Temperature	-10℃ ~ +50℃	
	Dimension	70(W) x 125(H) x 21(D) mm	40(W) x 122(H) x 21(D) mm
	Field of View	Diagonal 120˚	Diagonal 50˚

Wiring Diagram_Camera mode
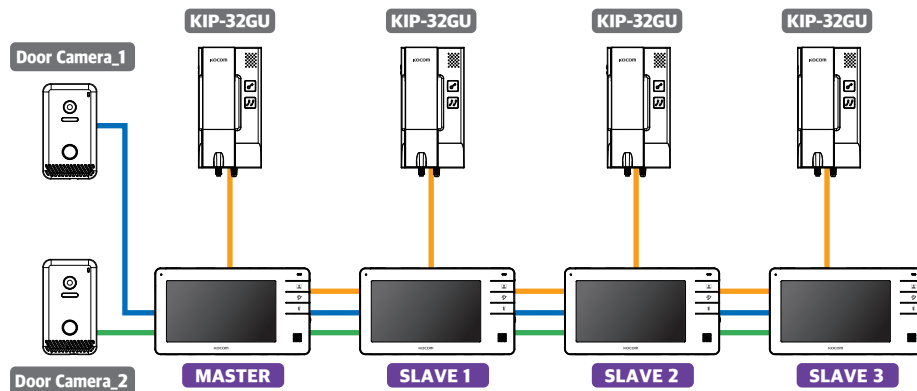
Terminal

[KCV-S701EBC] Monitor Back

※ J. DC ADAPTOR Port only included for DC type
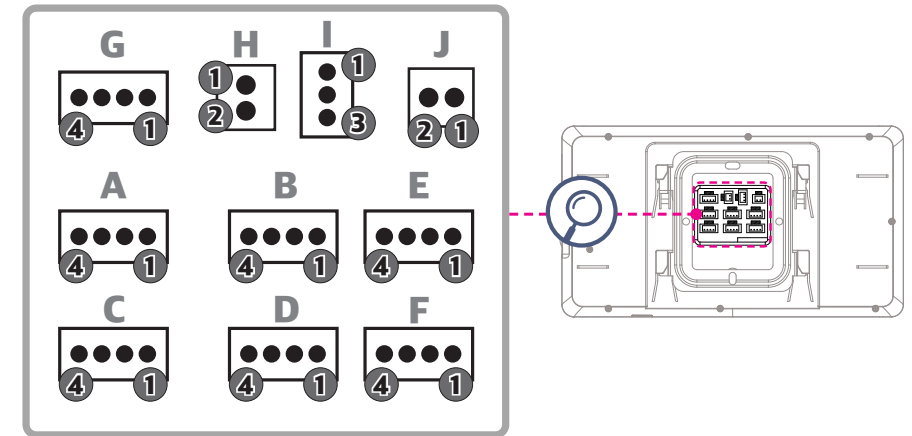
G. INTERPHONE	H. DC-OUT	I. DOOR OPEN	J. DC ADAPTOR
① CALL ② AUDIO ③ GND ④ VCC	① 12V OUT ② GND	① COM ② NO ③ NC	① 15V IN ② GND

A. CAMERA 1	B. CAMERA 2	E. INTERCOM
① VCC ② GND ③ AUDIO ④ VIDEO	① VCC ② GND ③ AUDIO ④ VIDEO	① AUDIO ② GND ③ 485 - ④ 485 +

C. CAMERA 1 FOR EX-MONITOR	D. CAMERA 2 FOR EX-MONITOR	F. INTERCOM FOR EX-MONITOR
① VCC ② GND ③ AUDIO ④ VIDEO	① VCC ② GND ③ AUDIO ④ VIDEO	① AUDIO ② GND ③ 485 - ④ 485 +

Wiring Connection - 2 Camera & 4 Monitor & 4 Interphone

Normal Open
DC adaptor

KIP-32GU
BACK VIEW

Normal Open
DC adaptor

Adaptor

KIP-32GU
BACK VIEW

Adaptor

Door Camera 1
BACK VIEW

Terminal

※ J. DC ADAPTOR Port only included for DC type

G. INTERPHONE   **H.** DC-OUT   **I.** DOOR OPEN   **J.** DC ADAPTOR

A. CAMERA 1   **B.** CAMERA 2   **E.** INTERCOM

C. CAMERA 1 FOR EX-MONITOR   **D.** CAMERA 2 FOR EX-MONITOR   **F.** INTERCOM FOR EX-MONITOR

Door Camera 2
BACK VIEW

DC adaptor
Normal Open

MASTER

Adaptor

KIP-32GU
BACK VIEW

SLAVE 1

Adaptor

KIP-32GU
BACK VIEW

SLAVE 2

Adaptor

KIP-32GU
BACK VIEW

SLAVE 3

[KCV-S701EBC(DC)_Back]

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13

Product Connection Diagram - System Configurations_Push Button Lobby Phone

DOOR CAMERA
KC-S81MU

VIDEOPHONE
KCV-S701EBC

2 Wire

4 Wire

6 Wire

6 Wire

Door opener(DC)
external power input

2 Wire

6 Wire

6 Wire

6 Wire

LOBBY PHONE
KVL-WR06

6 Wire

GUARD PHONE
KGP-W701U
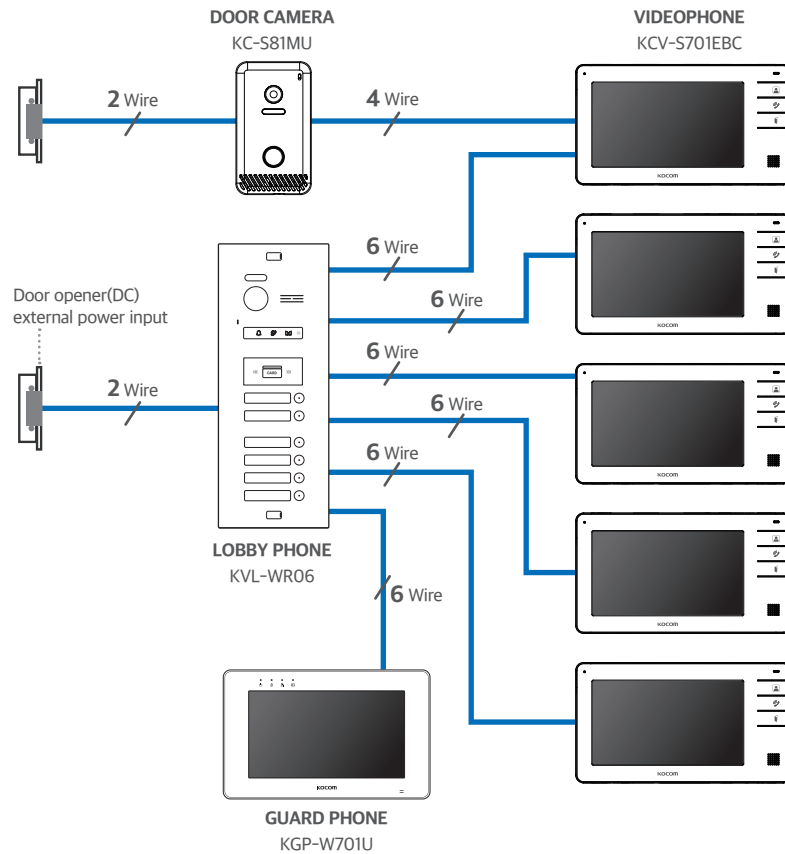
1. KVL-WR06: Max 6 monitors can be connected (including guard phone)

2. KVL-WX08: Max 8 monitors can be connected (including guard phone)

3. Maximum Configuration :
   32 monitors (including guard phone) using KVL-WX08 + 2pcs KEL-WX012 (extension panel)

Please refer to the KVL-WR06, KVL-WX08, and KEL-WX012
manuals for detailed wiring diagrams.

Product Connection Diagram - System Configurations_Keypad Lobby Phone

DOOR CAMERA
KC-S81MU

VIDEOPHONE
KCV-S701EBC

2 Wire

4 Wire

6 Wire

6 Wire

6 Wire

6 Wire

**KVS-W8P,
W10P,W16P**

Door opener(DC)
external
power input

2 Wire

6 Wire

LOBBY PHONE
KLP-W350

6 Wire

6 Wire

6 Wire

**KVS-W8P,
W10P,W16P**

6 Wire

6 Wire

GUARD PHONE
KGP-W701U

6 Wire
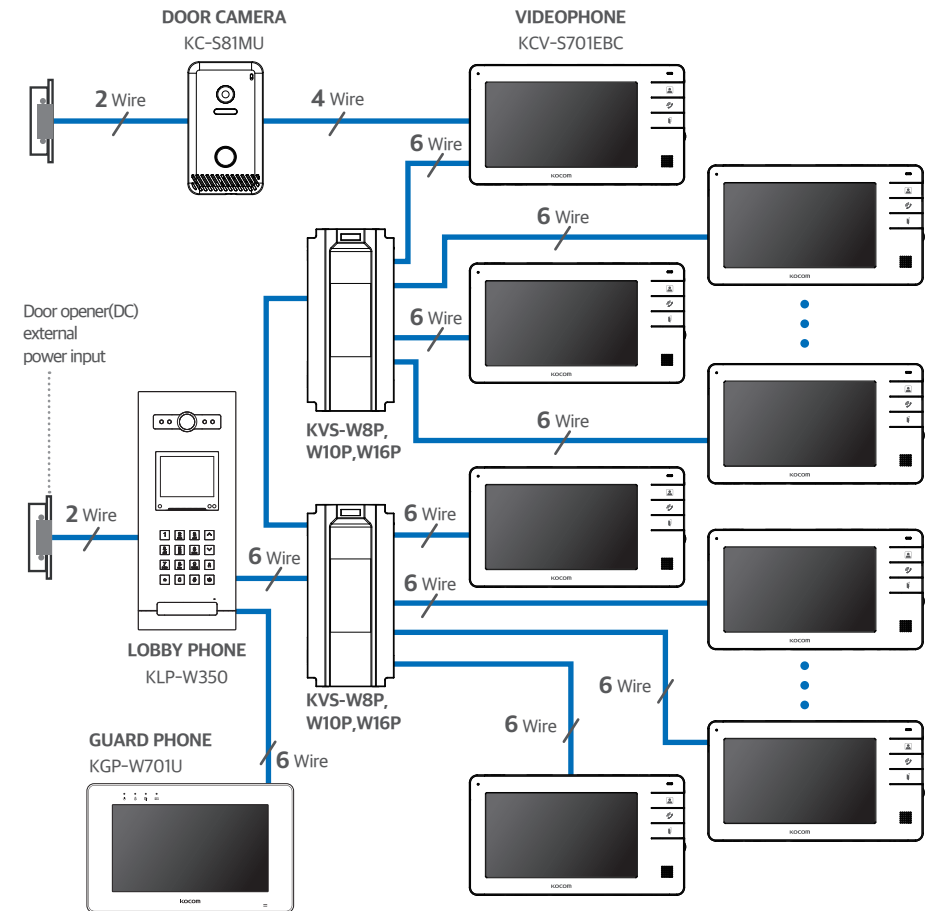
1. Three versions of repeaters : 8 port, 10 port and 16 port.
(※ According to the number of video phones you want to use, you can connect to until 8 or 10 or 16 ports of the repeater.)
2. Maximum configuration : 32 monitors (NOT including guard phone).
3. Guard phone can be connected separately from the indoor monitor.

Caution

※ The system wiring order is supposed to be like this : 485-, 485+ connects to Blue/White + Blue twisted wire / GND,
   Audio connects to Brown/White + Brown twisted wire / Power, Video connects to Green/White + Green twisted wire /
   And the rest Orange/White + Orange twisted wire will be connected to GND wire.

Please refer to the KLP-W350 manual for detailed wiring diagrams

Cable Requirement - Basis On Distance From Lobby Phone To Monitor

a

VIDEOPHONE
KCV-S701EBC

b

LOBBY PHONE
KVL-WR06

GUARD PHONE
KGP-W701U

※ When UTP CAT.5 wiring is used, the total length of wiring (a,b) between Lobby phone and Monitors / Guard phone is limited to 150m.
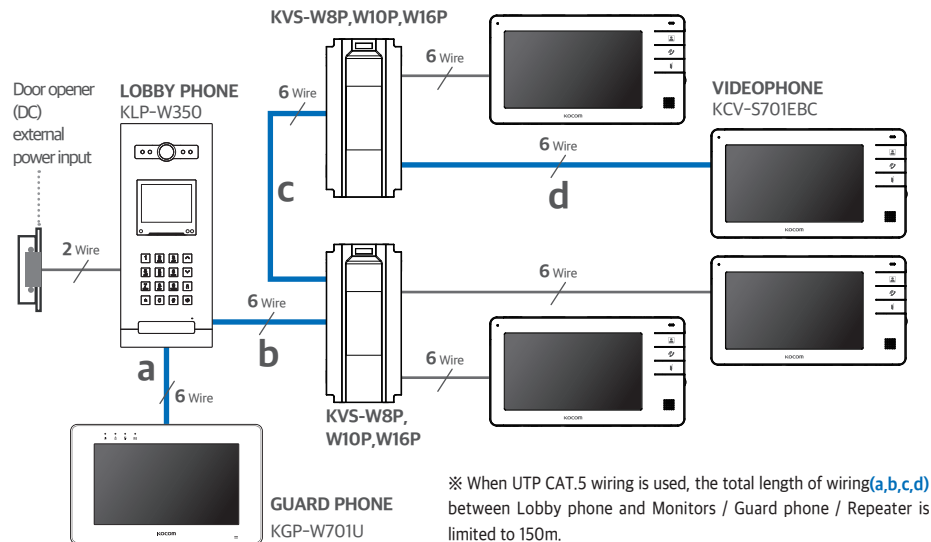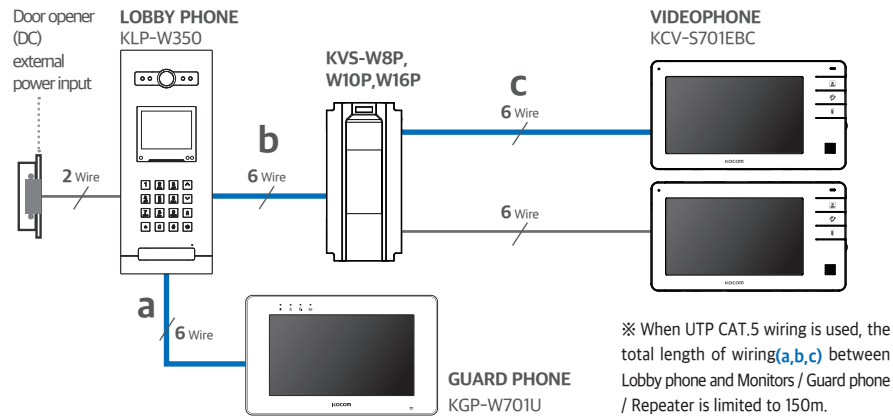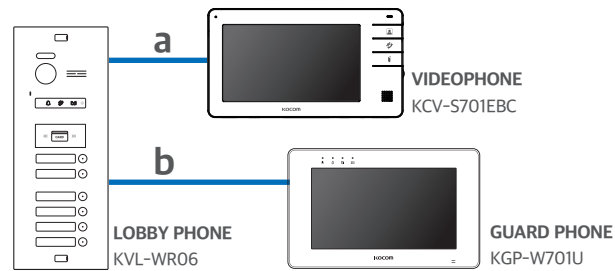
Door opener (DC) external power input

LOBBY PHONE
KLP-W350

KVS-W8P, W10P,W16P

c
6 Wire

VIDEOPHONE
KCV-S701EBC

b
6 Wire

6 Wire

2 Wire

a
6 Wire

GUARD PHONE
KGP-W701U

※ When UTP CAT.5 wiring is used, the total length of wiring(a,b,c) between Lobby phone and Monitors / Guard phone / Repeater is limited to 150m.

KVS-W8P,W10P,W16P
6 Wire

Door opener (DC) external power input

LOBBY PHONE
KLP-W350
6 Wire

6 Wire

VIDEOPHONE
KCV-S701EBC

c

d

2 Wire

6 Wire

b
6 Wire

6 Wire

a
6 Wire

KVS-W8P, W10P,W16P

GUARD PHONE
KGP-W701U

※ When UTP CAT.5 wiring is used, the total length of wiring(a,b,c,d) between Lobby phone and Monitors / Guard phone / Repeater is limited to 150m.
※ Resistance measurement with a tester 0.188Ω / M x 50M = 9.4Ω below

Instructions For Operation

■ **Communication from door camera & Door open**

Hello~
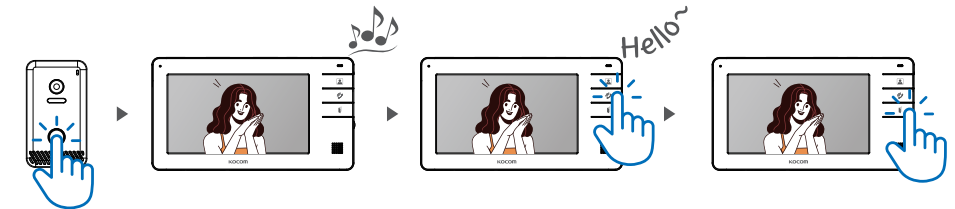
Press the call button to make a call.

Idenitify the visitor from monitor.
(Standby time : 30sec)

Push the [Talk] button and communicate with the door camera.
(Communication time : 3 minutes)

Push the [Talk] button again and stop the communication.

When talk is in progress, adjust the volume by controlling the jog switch up and down.
(Variable range : 1~4)

While [Talk] on.
Push [Door Open] button and the door will be opened.
Door open time can be set from 1sec ~ 10sec.

■ **Camera monitoring**

Press the [Monitoring] button once to monitor door camera 1.

When monitoring is in progress, adjust the screen (brightness/color/contrast) by controlling the jog switch up and down.
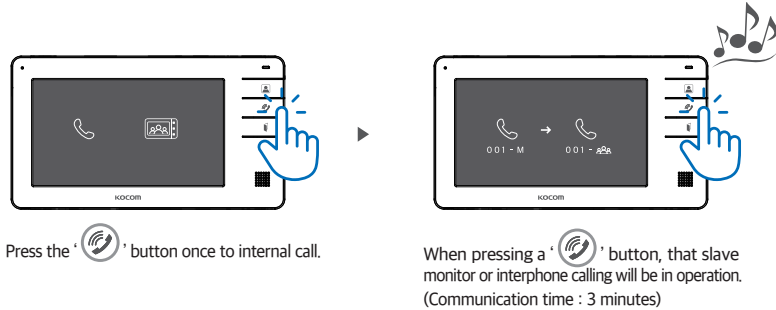(Variable range : 1~10)

Press the [Monitoring] button one more time to monitor door camera 2.

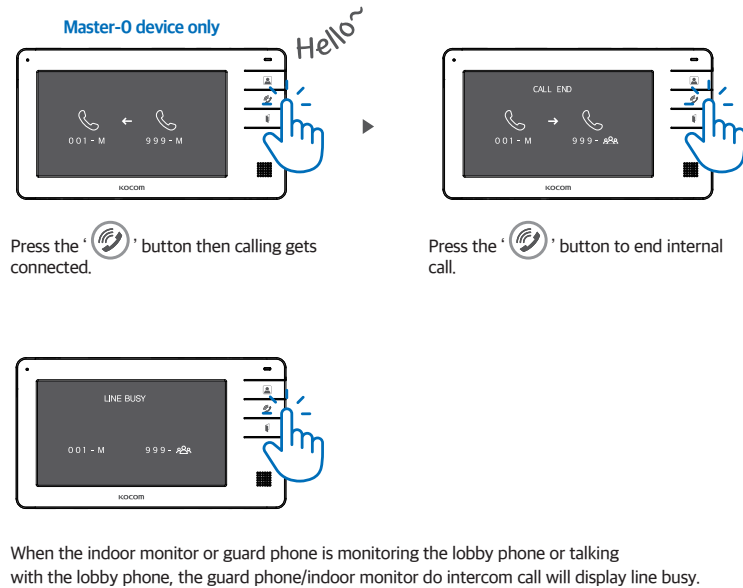Press the [Monitoring] button one more time to end monitoring.

Instructions For Operation

■ **Extension calling & Receiving function**

　※ In case of extended monitors or interphones, you can perform extension calling.
　　To perform extension calling, you must set each device's numbering.

Press the ' 📞 ' button once to internal call.

When pressing a ' 📞 ' button, that slave monitor or interphone calling will be in operation. (Communication time : 3 minutes)

■ **Call to the other guard phone**

Master-0 device only

Hello~

Press the ' 📞 ' button then calling gets connected.

Press the ' 📞 ' button to end internal call.

When the indoor monitor or guard phone is monitoring the lobby phone or talking with the lobby phone, the guard phone/indoor monitor do intercom call will display line busy.

Menu Setup

■ **Adjusting talking sound from door camera and lobby phone**
　While talk is in progress, adjust the volume by controlling the jog switch up and down. (Variable range : 1~4)

■ **Adjusting brightness**
　While monitoring is in progress, adjust the screen 'Brightness / Color / Contrast' by controlling the jog switch up and down. (Variable range : 1~10)

■ **Setting menu**
　· Press the jog switch on idle screen to enter in setup menu.
　· Control the position of cursor by controlling the jog switch up and down.
　· Menu is selected by pressing the jog switch
　· After making a selection, change the setting value of selected menu by controlling jog switch up and down.
　· Press jog switch to exit from selected menu.
　· Setting value is saved when exit menu is selected.

　· Brightness : Adjust brightness (Variable range : 1~10)
　· Open time : Adjust door open time (Time : 1~10 seconds)
　· Language : Select language (English/Spanish/Russian/Arabic)
　· Speaking Volume : Adjust talking sound from door camera (Variable range : 1~4)
　· Call Volume : Adjust calling sound (Variable range : 0~4, 0 : mute)
　· Calling times : Change number of calling sound (2 beats or 4 beats)
　· Slave Address : System specifications = Set monitor address (0-Master, 1~3-Slave)
　　　　　　　　　　 General specifications = Set monitor address (1-Master and Slave)
　· Default : Set value to default
　· Exit : Exit from set-up menu

■ **Setting monitor address on system**
　· Press the open door button 5 times right after the monitor starts to enter address setting page.
　· On the monitor address setting page, press the side jog switch once to choose corresponding digits, then set the Monitor address from 001-998 by sliding jog switch up and down.
　· After finishing address setting, press the side jog switch again, then press call button and monitoring button by order to save and exit the address setting.

　※ **Address 999 is reserved for guard phone, indoor monitor cannot use 999 as its monitor address.**

Monitor Adress(01-998)　　　Monitor Slave Adress(0-3)
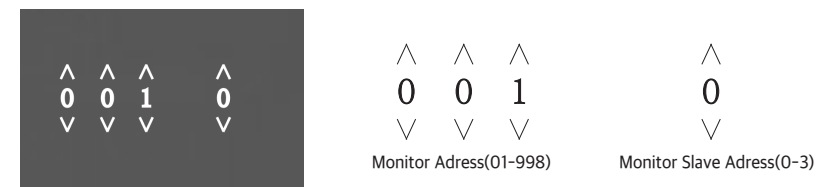
Warranty

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	KCV-S701EBC(DC) / KCV-S701EBC(AC)
DATE PURCHASED	
WARRANTY PERIOD	
AGENCY	
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 caused by unauthorized repair, or system modification.
   c. Breakdown caused by natural disaster or power disorder.