

KVL-WR06/KVL-WX08/KEL-WX012 MANUAL

[6 Wire Lobby Phone]



KVL-WR06



KVL-WX08



KEL-WX012

- Automatically opens common gate while communication with house
- For 6 wire type videophone
- Keypad backlight function – LED lamp
- White LED for night detection
- Connecting upto 32 household
- Function of two door release (NO,NC)
- Function of RF ID card for door release

Thank you for purchasing our product.

Read safety instructions and manual carefully before using the product.

KOCOM CO.,LTD.

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.	
 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 by unauthorized person may 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.
- Don't put any stuff in 30cm around the monitor, not to block the air hole.

- 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 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.



- 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 cord causes fire and electric shock. Do not pull the power cord when unplugging.
- The damaged cord 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

- 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



▶ 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.
- The mains plug, as a disconnection device, shall remain readily accessible by the user.



Caution

▶ Safety Instructions, Warnings and Cautions of Each System

- Do not disassemble this unit at will as this device is composed by precision parts.
- 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.
- Install the unit by following the set-up instructions of Kocom.

▶ Videophone

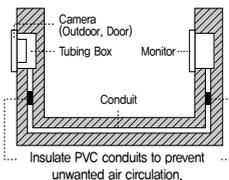
- Separate the AC/DC lines with the hook of the wall-mounted type when installing.
- Do not distribute signal line with AC line.
- Do not clean the LCD with the damp cloth for cleaning. Use the only dry and soft cloth.
- Connect the lines after peeling the wires properly.
- Use the designed driver to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

▶ Things You Need to Know

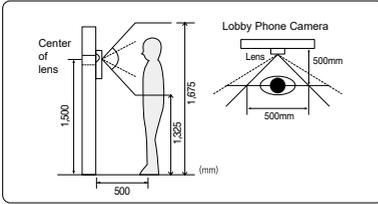
- This product is designed as a home videophone and cannot use continuously like monitor camera.
- If there is temperature difference between inner part of camera and surrounding, dew condensation occurs on camera lens and may disturb image. If dew condensation is removed from camera lens, image quality 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 5M 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 tools 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.

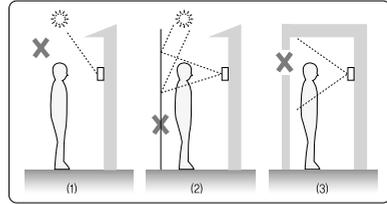


Installation location



■ Standard height for installation

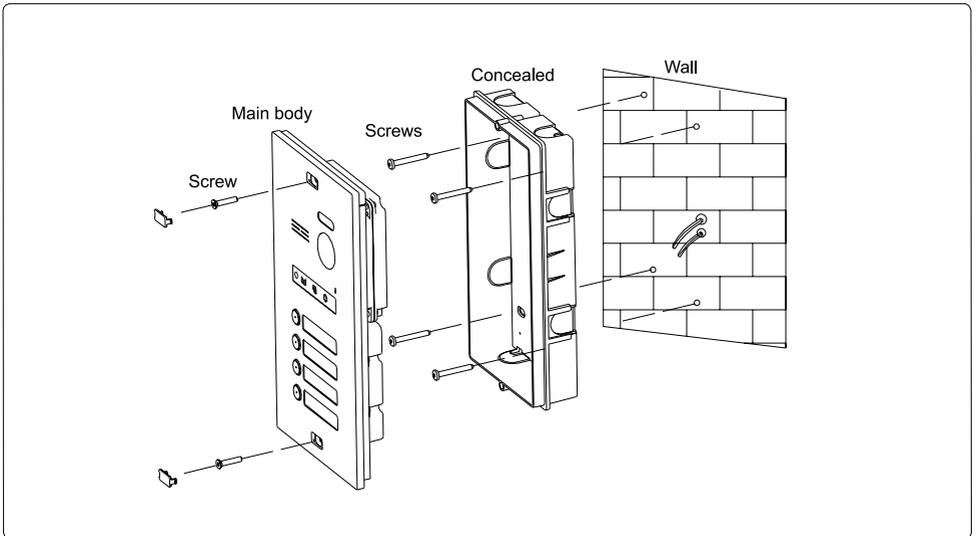
- Standard installation height of Lobby phone camera is 1,400~1,450mm from floor to the bottom of flush mounting box.
- In case that the installation height of Lobby phone camera is out of the range(min,1,250mm~1,550mm), it's hard to get proper image, so be careful about the installation height of Lobby phone camera.



■ Caution of camera installation

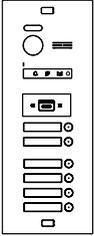
- Avoid installing camera exposed to direct ray of light (and sun).
- Beware backlight and darkness of visitor's face, which makes identification difficult.
- Avoid installing camera in places such as the picture above.
 - Place illuminating sky as background
 - Place with white wall reflecting direct ray of light
 - Enclosed place without light source

■ Lobby phone installation

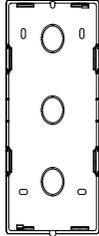


Components of Product

■ Lobbyphone



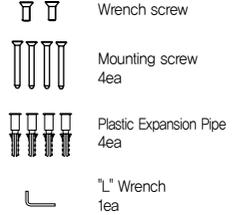
■ Concealed box



■ Adapter(15V/1.5A)

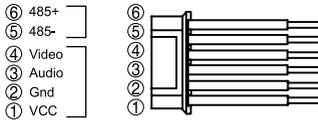


■ Screws

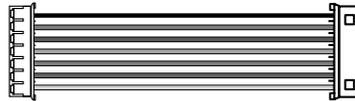


■ Wire

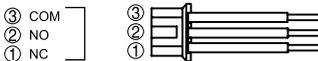
6 pin connector between lobby phone & Household monitor



Extension connector between lobby phone & Extension unit (KEL-WX012)



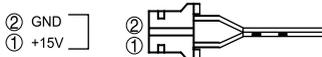
3 pin connector between lobby phone & Door opener



The number of 6 pin connector depends on each model as below

- KVL-WR06 : 6 house - 6pin 6pcs
- KVL-WX08 : 8 house - 6pin 8pcs
- KEL-WX012 : 12 house - 6pin 12pcs

2 pin connector between lobby phone & adapter

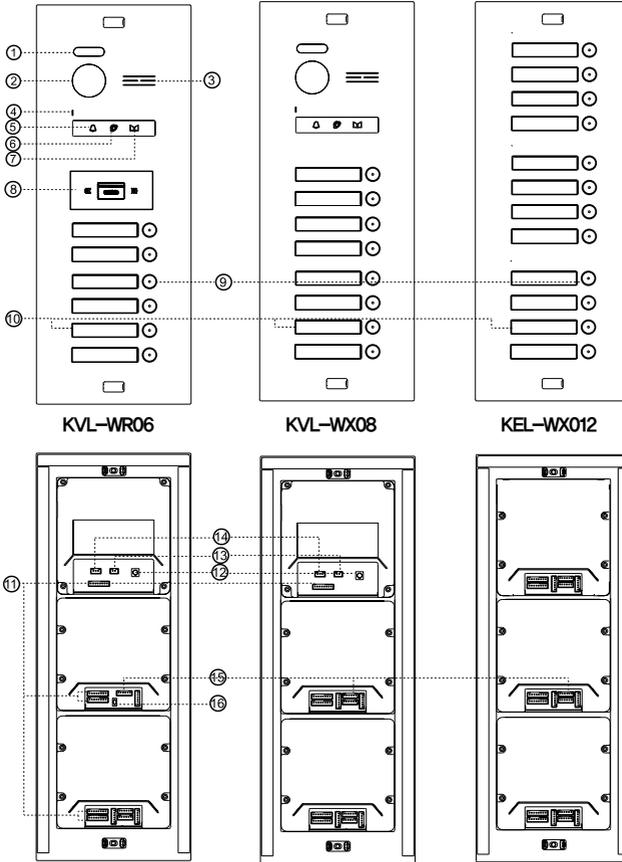


Specifications

	Model No.	KVL-WR06 / KVL-WX08 / KEL-WX012	
Lobbyphone	Power Source	DC +15V 1.5A	
	Power Consumption	0.9W(±20%)(Stand by), 4W(±20%)(In load)	
	Operating Temperature	-10℃ ~ +50℃	
	Communication System	Handsfree type	
	Run Time For Call	Calls maintains for 30±3 seconds after call	
		Communication with house maintains for 3 minutes	
		(This time length depends on each model of house monitor)	
	Mount Type	Flush mount	
	Dimensions	134(W) x 353(H) x 45(D) mm	
Camera Angle	H 120°		

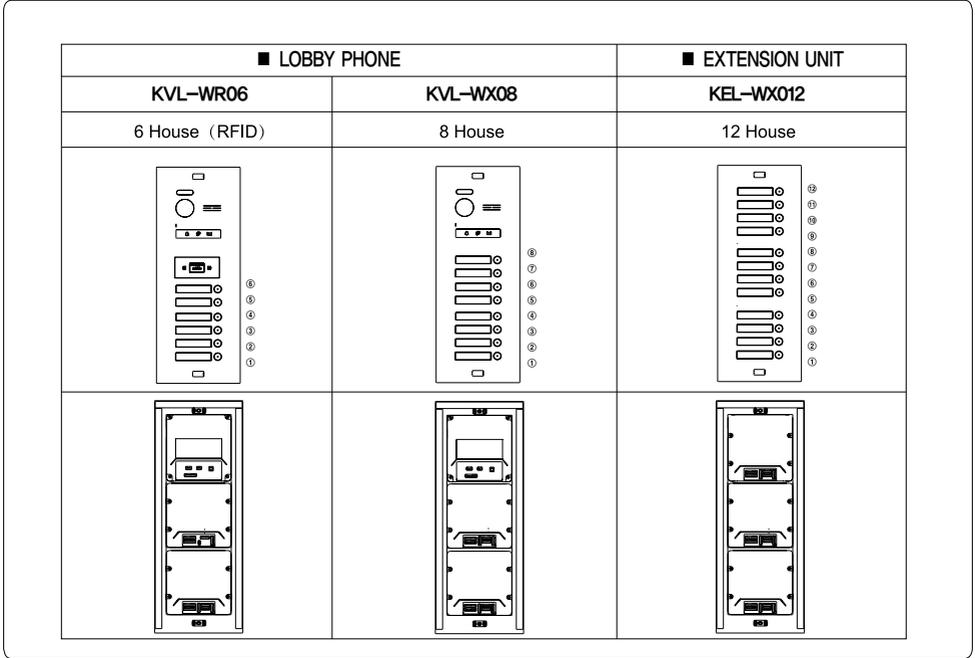
Name and Functions of Each Part

■ Main body

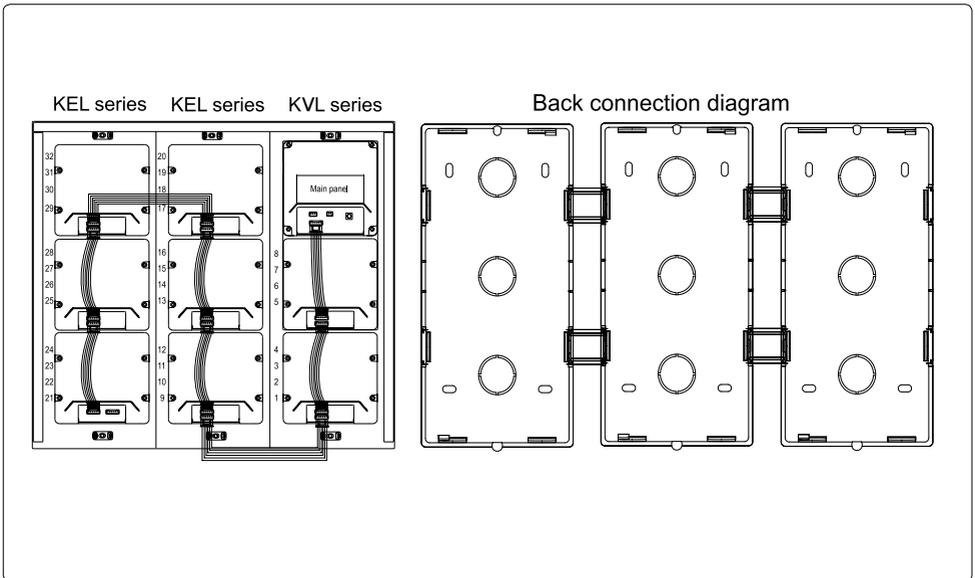


NO.	Name
1	White LED: Turn on the lights to distinguish objects in the darkness
2	Camera Lens
3	Speaker
4	Microphone
5	Status LED: when make a call, LED lights
6	Status LED: when talking with housing monitor, LED lights
7	Status LED: when do the door open, LED lights
8	RFID Card swiping area
9	Call button: Press to call and talk to the house monitor
10	Name indicator: show house information
11	Extension connector
12	Adjust the audio volume
13	Power Input terminal: DC 15V
14	Terminal for door opener
15	House connection terminal
16	RFID reset key button: Press 3s reset the all RFID cards

SYSTEM block diagram

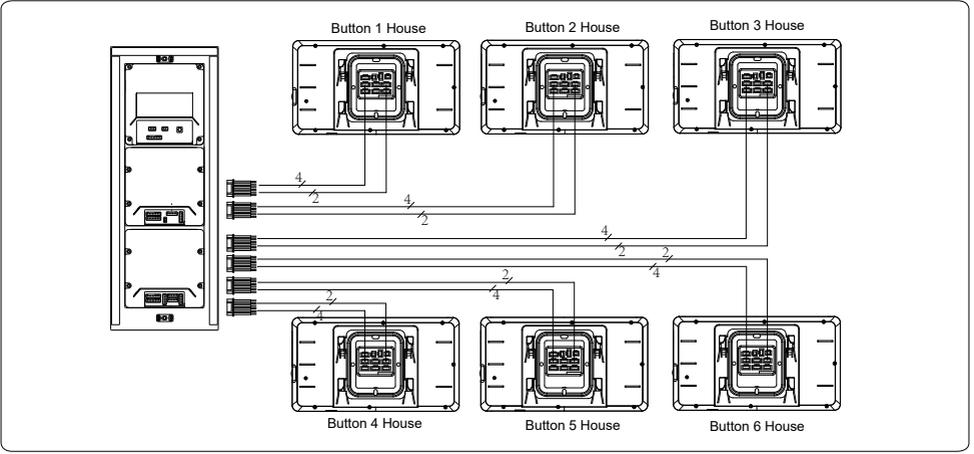


KVL series to KEL series wiring

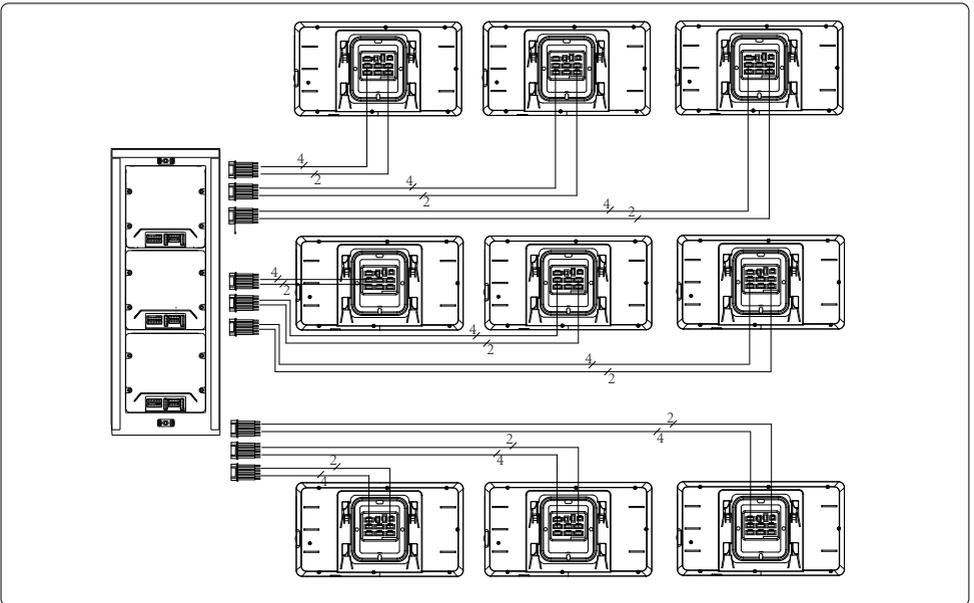


Wiring Connection

■ KVL-WR06 to household monitor



■ KEL-WX012 to household monitor



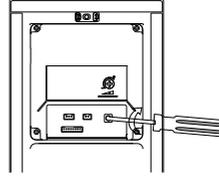
⚠ Caution

- ※ When the KCV-S701EBC connection with the KVL-WR06 / KVL-WX08 / KEL-WX012, KLP-W350 lobby phone, the back connector need th connect with the A CAM 1 connector.
- ※ 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.
- ※ When UTP CAT.5 wiring is used, the total length of wiring between lobby phone and monitors is limited to 150M
- ※ Resistance measurement with a tester $0,188\Omega / M \times 50M = 9,4\Omega$ below

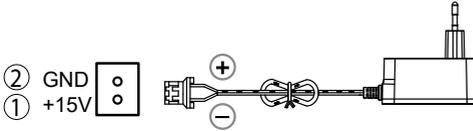
■ Wiring information

1. Audio volume adjustment (RP1)

House monitor → Lobby phone audio volume.
Using a screwdriver, increase (+) or decrease(-) the volume from house to the lobby phone.

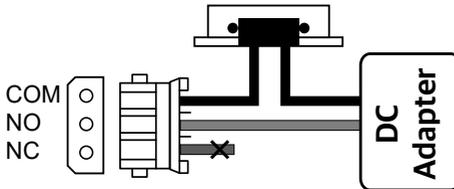


2. Power input terminal : DC 15V (Terminal J1) Additional power adapter should be used.

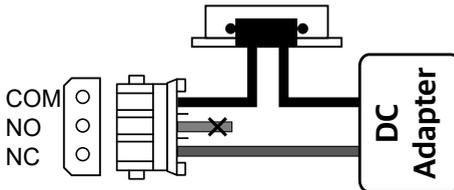


3. Terminal for door opener (Terminal J4) extra adapter is needed.

Normal Open



Normal Close



Door opener 2 is output in N,O / N,C and is used in connection in compliance with door release specification.

■ Configuration of RF ID card

– Maximum capacity of the card

KVL–WR06 Lobby phone maximum can set 1000pcs user card.

– How to configure the card

1. Card adding mode.

When first time enter the card configuration mode, need to make a call with KCV–S701EBC DC/AC or KGP–W701U. Then swipe the IC card for 5 seconds to enter the card addition mode. (The first long swipe card has 2 beeps sound at first, indicating that the card has not been added, and 4 beeps sound after the long swipe, prompting to enter the card addition mode).

Enter the card addition mode after adding the first card, there will be 4 beeps sound every time you add a card, wait for 10 seconds after adding the last card, and exit the card adding mode with a long beep sound.

Note : Which household needs to add a card, make a call with that household. For example, when adding a card for Family 1 or KGP–W701U, KVL–WR06 must make a call with KCV–S701EBC DC/AC of Family 1 or KGP–W701U. Otherwise, when Family 2 needs to delete corresponding card, the card of Family 1 or KGP–W701U will be also deleted.

2. Card deleting mode.

You can delete card by household, KVL–WR06 can call KCV–S701EBC DC/AC or KGP–W701U to achieve the corresponding card deleting. When KCV–S701EBC DC/AC or KGP–W701U shows outbound call interface on its screen, press and hold the talk button for 5 seconds to delete the card (2 beeps sound), at this time the corresponding RF–ID card is deleted, and the rest cards added by users are still saved.

3. Do the door open.

When exited the card adding mode, use the RF–ID card which has added, swiped to do the door open, you will see the unlock success status LED lights.

4. Function of reset button.

Press the RFID Card reset button once, which is on the back of the KVL–WR06 lobby phone module. You will hear 1 beep sound, that means you delete all the cards added by users.

■ System busy notes

– Pressing two buttons at the same time.

1. If you press the 2 room buttons at the same time, the call will not success, and the door camera will send out "Beep" sound to the system busy notes and do the correct call again.

– Calling from door camera when guard phone and room monitor are in communication.

1. When the guard phone and room monitor are intercom talking, the door camera side make the call to the guard phone or room monitor, the door camera will send out "Beep" sound to the system busy notes and do the correct call again.

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	KVL-WR06 / KVL-WX08 / KEL-WX012
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.