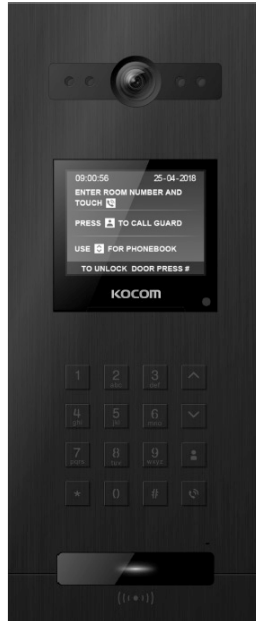# KLP-W350 MANUAL

[Lobby Phone]

- 3.5 Inch LCD display room number
- Automatically opens common gate while communication with house
- For 6wire type videophone
- Keypad backlight function
- White LED for night detection
- Connecting up to 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

· 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 lightning.
· 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.
· 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.   · 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.
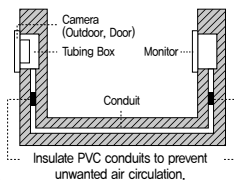
◉ Videophone

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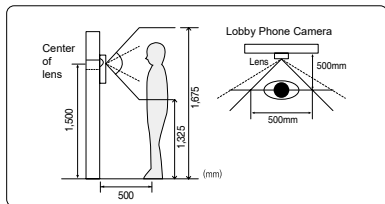
◉ Things You Need to Know

· 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 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.
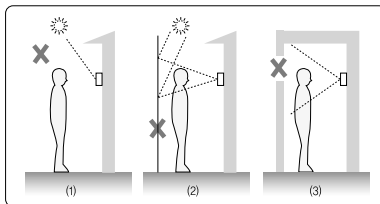
Camera
(Outdoor, Door)
Tubing Box   Monitor
Conduit
Insulate PVC conduits to prevent
unwanted air circulation.

Installation location

Lobby Phone Camera

Center of lens

1,675
1,500
1,325
500mm
500mm
Lens
500
(mm)


(1)   (2)   (3)

■ 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.
(1) Place illuminating sky as background
(2) Place with white wall reflecting direct ray of light
(3) Enclosed place without light source

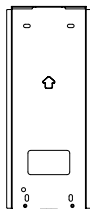## ■ Lobby phone Installation

WALL

SCREWS

CONCEALED
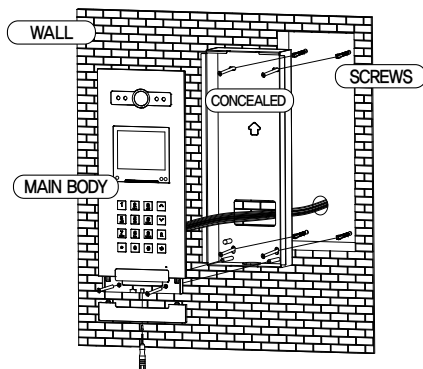
MAIN BODY

Name and Functions of Each Part

■ Main body
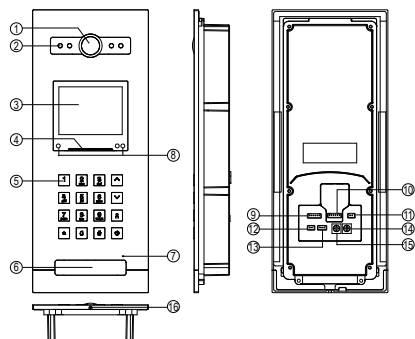
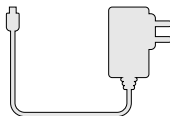| 1	Camera lens
2	White LED : Turn on the lights to distinguish objects in the darkness
3	3.5 Inch LCD screen
4	Speaker
5	Keypad button
6	RFID Card swiping area
7	Microphone
8	IR Sensor
9	Connector to guard phone
10	Connector to repeater & Indoor monitor
11	Power Input terminal : DC 15V
12	Terminal for exit button
13	Terminal for door opener
14	Adjust the speaker audio volume
15	Adjust the MIC audio volume
16	Screw for fixing swipe card panel

Components of Product
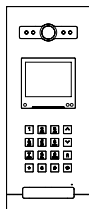
■ **Lobby phone**   ■ **Concealed box**   ■ **Adapter(15V/1.5A)**   ■**Screws**

Wrench screw	2ea
Mounting screw	4ea
Plastic Expansion Pipe	4ea
M1.5mm Screen driver	

■ **Wire**

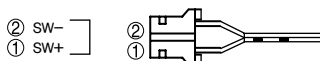**6 Pin connector between lobby phone & Guard phone and Repeater**

⑥ 485+
⑤ 485-
④ Video
③ Audio
② Gnd
① VCC

⑥ ⑤ ④ ③ ② ①
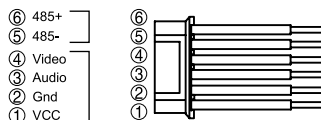
2 Pin connector between lobby phone & Adapter

② GND
① +15V

② ①
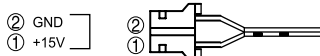
3 Pin connector between lobby phone & Door opener

③ COM
② NO
① NC

③ ② ①

2 Pin connector between lobby phone & Exit button

② SW-
① SW+

② ①

Specifications

	Model No.	KLP-W350
Lobbyphone	Power Source	DC +15V (5.5W±20%(Stand by), 7.5W±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)
	Exterior material and color	Metal / Black
	Dimensions	130(W) x 3170(H) x 50(D) mm
	Camera Angle	H 120˚

Operation Explanation

– Communication with house monitor
1. When the visitor press the room number and press the call button for certain house on the lobby phone, the certain house monitor gets call signal.
2. In case of hanging up the hand–set or pressing talking button, the conversation is available.
3. When finishing talk, press talk button once again.
4. When the visitor press the room number, if input the wrong number, he can press the
   button to delete the wrong number and re input again.

– Lobby phone from house monitor
1. During conversation with household monitor,if the door open button on the monitor
   is pressed, the common gate is released, in case the door opener is equiped.
2. Spec of door opener using a relay lock need using additional power adapter for lock.
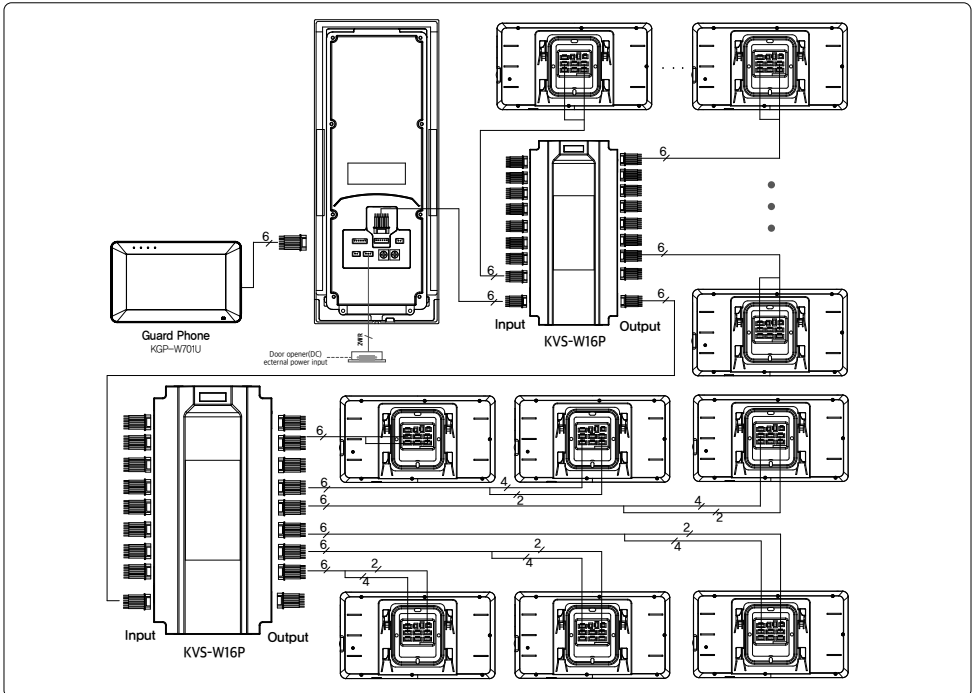
– Communication with guard phone
1. When the visitor press the guard button on lobby phone key button the guard phone gets call signal.
2. In case pressing talking button, the conversation is available.
3. When finishing talk, press talk button once again.

– Common gate open using RFID card
1. RFID cards registerd shall contact on the card swiping area.
2. Once the RFID unlock success, the lobby phone will sound out a beep sound to indicate successful unlocking.

Wiring Connection

■ KLP–W350 to household monitor

Guard Phone
KGP–W701U

Door opener(DC)
ecternal power input

Input   KVS-W16P   Output

Input   KVS-W16P   Output

⚠ 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 0.188Ω / M x 50M = 9.4Ω below
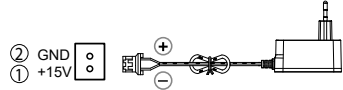
Wiring Information

■ **Wiring information**

1. Audio volume adjustment (MIC,SPK)

House Monitor → Lobby phone audio volume. Using a screwdriver, increase (+) or decrease(−) the volume from house to the lobby phone.
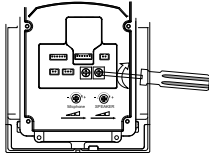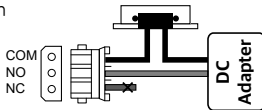
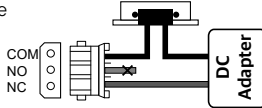## 2. Power input terminal : DC 15V (Terminal J5) additional power adapter should be used.

② GND
① +15V

3. Terminal for door opener (Terminal J10) extra adapter is needed.

Normal open

COM
NO
NC

DC Adapter

Normal close

COM
NO
NC

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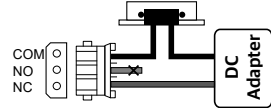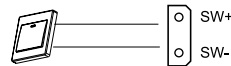
Door opener is output in N.O / N.C and is used in connection in compliance with door release specification.

4. Terminal for door opener (Terminal J4) exit button.

Exit button

SW+
SW-

COM
NO
NC

DC Adapter

Configuration of RF ID card

– Maximum capacity of the card

1. KLP−W350 lobby phone maximum can set 1000pcs user card.
2. Each family maximum can added 30pcs cards, if more than 30 cards are added, the new one will overwrite the first card added

– How to configure the card

1. First registration of the RFID card.

1) Use the lobby phone call the room monitor which need to add the cards, when the call is established, the indoor monitor side press the talk button, build the talking with the lobby phone.
2) On the lobby phone side, input the 888999# on the keypad. now on the lobby phone side you will hear three times of "Beep" sound. it means enter the card regiseter mode. the user can add the cards one by one, each time add success the lobby phone side will sound out a "Beep" sound means add success.
3) After finish the card register, waiting for 10s the lobby phone side will sound out a long time beep sound, it means cards added success and exit the card registration.

※ **For example :**

1) Call "Room 001", Room 001 ringing, press "Talking" button do the communication.
2) Input "888999#", sound out "Beep" "Beep" "Beep" on the lobby phone.
3) Put the new card on RFID Card swiping area, it will sound one "Beep". then add next on.
4) Complete the card added, waiting 10s, hear a long "Beep" card added complete.

2. Deletion of the card

One enter the card deletion mode, all the card added under this room will be all removed.

1) Use the lobby phone call the room monitor which need to add the cards, when the call is established, the indoor monitor side press the talk button, build the talking with the lobby phone.
2) On the lobby phone side, input the 777888# on the keypad. Now on the lobby phone side you will hear a long times of "Beep" sound. it means all the cards have deleted.

3. Function of reset button

Hold the RFID card reset button 3 seconds, which is on the back of the KLP−W350 Keypad door camera module. You will hear 2 beep sound, that means you delete all the cards added by users.

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	KLP-W350
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.

KLP-W350
X1026