KOCOM

Lobby Phone for Apartment Unit

Lobby Phone for Apartment Unit User's Manual for Operation and Installation

■ Automatically opens common gate while communication with house
■ Connection with lobby phone up to 3 units
■ Keypad backlight function - LED lamp
■ White LED function which can identify object at night : For Color Lobby phone
■ Infrared ray LED for night detection : For B/W Lobby phone
■ Camera angle control
■ For B/W Videophone : KLP-100, KLP-P100
■ For Color Videophone : KLP-C100

B/W : KLP-100
Color : KLP-C100
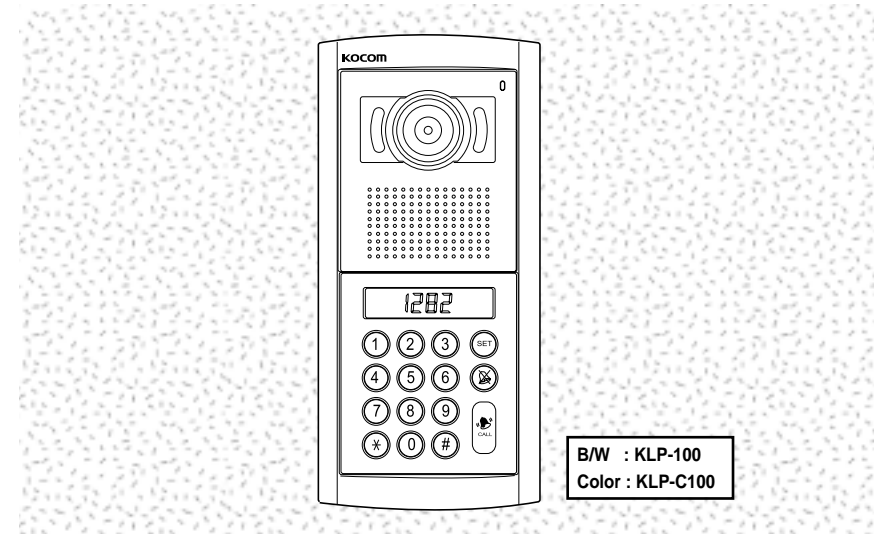
KOCOM CO.,LTD.

Cautions for Safety

For safe use, please stick to the following cautions.

- Read this cautions carefully and keep it within easy reach of you.
- For right installation, read this cautions thoroughly. Please install the product according to its specifications.
- This Cautions for Safety may include items that are not contained in specifications of the product that consumer purchases.
- Reading this cautions, use the product in a right manner. For further information, please contact our A/S center.

About Symbol

A variety of symbols are used in this Cautions for Safety and your products to guide you to use products in a right and safe manner and to prevent possible risks for users and other persons and damages to their property. The meaning of each symbol is as follows. After fully aware of meaning of each symbol, read the following cautions.

⚠ **Warnings**	This symbol means that wrong handling or ignorance of matters that this symbol indicates may cause serious injury or even death of user.
⚠ **Cautions**	This symbol means that wrong handling or ignorance of matters that this symbol indicates may cause serious injury or property damage of user.
🚫	This symbol means the matter that user should not do at nay event.
❗	This symbol means that user should follow the instructions.

Symbols on Drawing

⚡	This symbol means that contents (high voltage, electric shock, warnings, etc.) to which user should pay attention are included.
🚫	This symbols means that a certain action is not permitted. Specific points not permitted are depicted around this symbol (for example, in the left drawing, disassembly is not permitted.).
🔌	This symbol means instructions or is used to force user to do a certain action. Specific instructions are depicted on the drawing (for example, the left drawing instructs user to detach power plug from an outlet).

⚠ Warnings

Warnings for disposal
- Do not throw used-up battery into fire places, which may cause fire and explosion.

⚠ Cautions

Cautions for installation
- The relevant law obliges users to have a qualified electrician carry out wiring work for power supply. Work by disqualified persons may cause fire and electric shock.
- Wiring work for communication cables needs techniques and experiences. For this type of wiring work, please consult to your local sales agent.
- According to the standard for electric work and other relevant regulations, install communication cables at the place away from power cables. The failure to install cables separately may cause fire, electric shock and communication troubles.
- Do not install the product on rolling table or sloping place. Dropping or falling may cause damage on your product.
- In installation, avoid the place exposed to tremor or shocks, which may cause damages on your product.
- Even if your product is waterproof, do not install it slanted place of water leakage, which may cause a short circuit.
- For the product of wall-mounting type with fixing pegs, keep it safely. Fixing pegs may cause injury of user.
- Install the product of wall-mounting type carefully not to drop from the wall. Dropping due to earthquake or tremors may cause injury of user.
- When installing the product on the wall, consider the thickness and material of the wall. Dropping in use may cause injury of user.

Cautions for Use
- Do not put heavy thing on the product. Dropping or falling due to heavy things on it may cause injury of user.

Cautions for Repairs and Maintenance
- Clean the dust inside the product regularly. Failure to clean the dust for long time may cause fire. For inspection and cleaning of the inside of product, please contact your local sales agent.
- When putting your hands into the inside of equipment, be sure that plug is already detached form an outlet or circuit-breaker is turned off.
- Be careful not to expose the product to benzene, thinner or hot water.
- Do not expose detergent directly to the product in a way of spaying, etc.
- Moving equipment, be sure that the plug is detached from an outlet.
- For equipment whose cables are connected to terminals, please contact your local sales agent or qualified electrician.
- When replacing old fuse with new one, do not directly touch it with bare hands. Use insulated tools or contact A/S center.

Cautions for Use

- Do not install the product at bathroom or at the place near a washing machine, or at other humid places. It may cause fire or electric shock.
- Do not install the product at the place near a dresser, humidifier or heater. Also avoid the place exposed to spark, heat or humidity. All of them may cause fire and electric shock.
- Do not install the product at the place exposed to dust, metals and harmful gas such as hydrogen sulfide gas, all of which may cause fire and electric shock.
- Do not install the product at the place exposed to water and chemicals. This may cause fire and electric shock.
- Do not scratch, break or arbitrarily process power cable, which may cause fire and electric shock. Putting a heavy thing on a cable, heating it or pulling it may cause impairment on it.
- Do not place power cable at the place near heating equipment. It may cause damage of cable's clothing material, which result in fire ad electric shock. When detaching plug from an outlet, do not pull power cable.
- Damages on power cable may cause fire and electric shock. When detaching plug from an outlet, please hold the plug tightly.
- Do not detach plug from an outlet with wet hand. I may cause electric shock.

- When using the existing wiring, be sure of the suitability of it to the product and install the product. Failure to this caution may cause fire.

- When moving equipment, be sure that plug is detached from an outlet and communication cable is disconnected. Damage on cables may cause fire.

- Voltage other than prescribed rated voltage is not permitted, which cause fire and electric shock.
- Do not use power terminal of product's main body in other equipment than prescribed ones. It may cause fire and short-circuit.

- In wiring work, use the designated wiring materials.
  Wiring work using other materials than designated ones may cause fire.

- The equipment without waterproof marking shall not be installed at the place water leaks. It may cause electric shock and short circuit.
- When working, be sure that power is disconnected. Failure to disconnect power may cause electric shock.

- Be sure that the power cable is connected and earths according to designated method. Failure to connection and earth may cause fire.

- Do not connect power to other terminals than designated ones.
- It may cause fire and electric shock.

- When building a system with the product, do not connect the product other equipment than designated one. It may cause fire.

- When installing A/C switch, do work after removing the substance that may cause short circuit or electric shock.
- Before installing or providing A/S service, be sure that the power is disconnected.

Cautions for Use

- This product is only for home. Do not the product for industrial or military use.
- Do not handle the equipment with wet hand, which may cause electric shock.
- Do not place wet or metallic materials on equipment. Water leakage or intrusion of metallic materials may cause fire and electric shock.
- Do not block the ventilating opening of equipment or put alien substances into it, which may cause fire and electric shock.
- Do not use battery that is not designated or mix new battery with old ones. Insert batteries to fit their polarity. Explosion or leakage of battery may cause fire and injury of user.
- When visitor's image or voice is not displayed on screen or not sounded from speaker, please check his/her identity before opening the door and contact our A/S center.
- Do not use equipment when lighting is expected or strokes. It may cause fire and electric shock.

- Do not open rear cover, cabinet and cover of equipment. It may cause electric shock.

- Do not modify power cable or pull it with excessive strength, which may cause fire and electric shock.
- Do not modify equipment. It may cause fire and electric shock.
- Call signal may cause damage on user's hearing ability.

Cautions for Abnormality

- When power cable is broken (exposure of core or short-circuit), do not fail to replace broken cable with new one. Failure to replace broken power cable may cause fire and electric shock.
- When detecting any abnormalities in equipment (communication is not available, images do not be displayed on screen, calling is not available, or abnormal sound is heard), immediately detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) before requesting repairs to sales agent or A/S center. Keeping connection to power supply may cause fire and electric shock.
- When alien substances go into equipment, immediately detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) before requesting repair to sales agent or A/S center.
- In the case of smoke or smell of unknown origin from equipment, keeping use it may cause fire and electric shock. Detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) and be sure to check no more smoke or smell from equipment before requesting repair to sales agent or A/S center. Since personal repairing work by user may serious accidents. In any case, do not repair equipment with your own hand.
- When dropping equipment or breaking its cabinet, detach plug from an outlet, or turn off circuit breaker or detach batteries from equipment (in case that equipment has no plug) before requesting repair to sales agent or A/S center. Keeping use equipment may cause fire and electric shock.
- Avoid direct exposure to sunlight and store equipment at the place free from dust and high temperature as you can. High temperature of equipment may cause fire and electric shock.

Safety Instructions, Warnings, and Cautions of Each System

- This equipment is electronically precision equipment, so do not arbitrarily disassemble it.
- In installation of the product, do not fail to follow the specifications (specifications offered by KOCOM).
- Do not touch the product with alien materials (for example, sticker, magnet, opener, metal chopstick, etc.)
  or insert them into the product (it may cause reduction of the product's durability and harmful results to user as well).
- In the rainy season, water is likely to penetrate into the product along the wiring. Thus, U-type finishing is recommended
  as a desirable method of end part finishing.

System for Multi-unit Housing

- In installation, be careful that other wiring or metallic substances should not contact to the system for multi-unit housing.
- In installation, be careful that alien substances should not go into the system.
- Before installation, be fully aware of wiring specifications of each model.
- In installation, be sure that the length and dimension of wiring meet the requirement prescribed in installation manual.
- Excessive strength and external shock may cause mechanical breakdowns of equipment.
- Do not arbitrarily open the case of the product
  (When user opens the case arbitrarily, KOCOM may reject to provide A/S service).

Lobby Phone: KLP-(100, 104, 108, 112), KLP-(P100, P104, P108, P112), KDP-(100, 104, 108, 112), KLP-(C100, C104, C108, C112)

- A stroke of lighting or strong shock may give fatal and adverse effects on system. Thus, do not fail to ground the system.
- For registration of household password, please refer to user manual of the concerned product (it is applied to ten-key lobby phone products
  [KLP-C100, KLP-100, KLP-P100 and KDP-100]).

Relay : KVS-104P

- A relay can support up to four households.
- In the case of over four householders, additional relays are needed.

Video Amplifier : KHU-102P

- In installation, follow the specification for video in/output.

Video Phone

- In assembling the product, be careful that wall-mounting pegs should not contact with wirings.
- In connection of cables, strip its insulation off as much as necessary (Excessive stripping off its insulation may cause short circuit).
- Be careful that signal cables should not be wired with A/C wiring (it may cause poor display quality).
- Do not drop handset (its damage or short-circuit due to drop may make communication impossible).
- When connecting wires to terminals, use standard screwdriver (otherwise, screws may loosen, which will result in disconnection of wiring).
- Do not clean CRT screen with wet towel or cloth. When water penetrates into the product, it may cause short-circuit.
- Do not fail to clean it with dry towel or soft cloth.
- Do not install camera at the place where water penetrates or leaks. Penetration or leakage of water may cause electric shock or short circuit.

Home Auto: KHV-444/454/446/456

- Do not insert any metallic materials into the inside of fuse cover. It may cause electric shock.
- Do not close ear to speaker. Abrupt call or signal may give harmful effects on user's hearing.
- After turning power on and off, check again that input contents are saved correctly. Otherwise, data may be missed when auto-signal mode operates.
- Use a standard detector. Non-standardized detectors are likely to cause fire due to excessive voltage or current.
- Please install motion detector at a place easily detect the motions of subjects. When detector is installed at a wrong place or obstacles block the front
  side of detector, it cannot work well.
- When setting night guard mode, be sure that detector should be connected well.
- Sufficiently charge the battery of wireless handset before using it. Be careful that children should not throw battery. Be sure to close battery cover
  (When children throw or disassemble battery, it may cause serious accidents).
- Be careful that the polarity of the product matches to that of guardroom communication cable. When polarity is reversed, it may cause abnormal
  operations of the product or apartment system as a whole.

4-Line Related Products: KVM-604, 624, 524RG, 524G, 524GS, 520, KCV-346/356

- In wiring work, be careful that wirings should keep away from the wall-mounting pegs or other furniture at regular interval. Contact of wiring with
  wall-mounting pegs, etc. may cause short-circuit, electric shock and fire (it is applied to all products with wall-mounting pegs).
- Use the prescribed standard wirings. Non-standardized wirings may give adverse effects on operation of product
  (it is applied to both video phone and CCTV).

CCTV Camera

- Do not install at noisy places.
- Do not install at the place exposed to electromagnetic waves.
- Excessive electromagnetic waves may cause continuous noise on screen and mechanical troubles.
- When installing camera outdoor, please put it in the outdoor case. Otherwise, when it rains, the camera may be broken or operate incorrectly.
- Install the product at well-ventilated places.
- Do not use the product for medical or military uses.
- Do not install the product at humid places. It may cause reduction of the product's durability as well as fire and electric shock.
- When lens is stained with alien substances, clean it with soft cloth to prevent the damages on it.
- Install the product out of reach of children.

Precautions for Operation

- Keep away from humidifier and stove.
- High temperature and humidity may cause troubles.
- Do not drop this device and avoid strong impact.
- Keep away from devices generating strong magnetic filed (TV, Speaker, etc.)
  (Images can be distorted or blurred as well as mechanical troubles may result.)
- When cleaning, do not use wet hand, volatile benzene or paint thinner.
- Keep image clear by cleaning camera window frequently with soft cloths.
- As this device consists of electronic precision components, do not attempt to disassemble.

Component's Name

C-MIC
Transmits input voices to receiver

Infrared Ray LED : B/W
White LED : Color
Detects and identifies objects at night

Camera Lens
Converts recorded images into signals

Speaker
Outputs voice signals

Set Button
Sets functions of device

Cancel Button
Used in canceling calls and setting functions

Call Button
Used in call to house

FND indicator
Characters are displayed when setting or calling to house

Dial Button
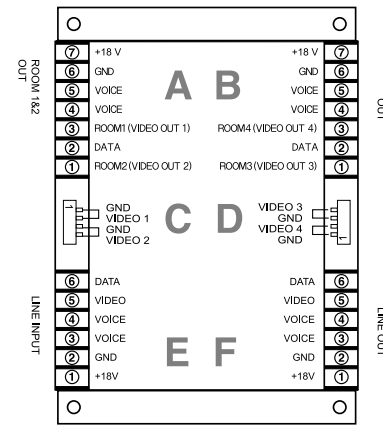Numbers are assigned to call to each house

Reset Button
Resets and returns every function to default value

Guardroom Call Button
Pressing "0"and "Call" button in order, guardroom (KIP-120) is called.

Camera Angle Controller
Enables users to easily adjust camera angle by manual

House Main Line Terminals
Adopt terminal type for easier connection to main house line.
1: 17V
2: GND
3: Voice 1
4: Voice: 2
5: Video
6: Data
7: Door Power

Door Lock dry contact type
8. N.O.
9. COMMON
10. N.C.

Door open dry contact type
1. If the door opener is the type of ON dry contact, please connect it to the Terminal No.8 (N.O.) & 9 (COM.).
2. If the door opener is the type of OFF dry contact, please connect it to the Terminal No.9 (COM.) & 10 (N.C.)
3. Additional power supply is necessary in this connection.

Video Amplifier Connector :
(KHU-102P): Composed of connector for easier connection to Video amplifier (4Pin Wire)
(5V/Signal/ GND/Video)

■ KVS-104P (Relay) WIRING

A. MAIN LINE (+18V, GND, VOICE1, VOICE2, DATA) OUTPUT TO MONITOR IN HOUSE 1, 2.

B. MAIN LINE (+18V, GND, VOICE1, VOICE2, DATA) OUTPUT TO MONITOR IN HOUSE 3, 4.

C. (VIDEO, GND) OUTPUT TO MONITOR IN HOUSE 1, 2.

D. (VIDEO, GND) OUTPUT TO MONITOR IN HOUSE 3, 4.

E. MAIN LINE (5 WIRE) INPUT FROM LOBBY PHONE (COMMON GATE CAMERA) & (VIDEO, GND) INPUT FROM KHU-102P.

F. MAIN LINE (5 WIRE) & (VIDEO, GND) OUTPUT TO THE OTHER KVS-104P IN UPSTAIRS.
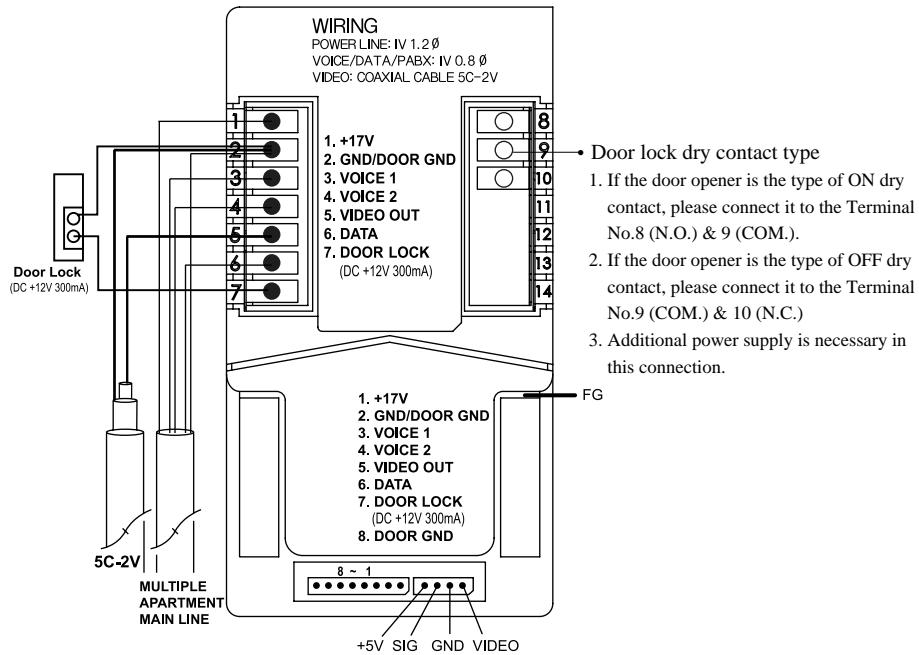
Wiring Specifications

- Main Wiring : Voice 1 / Voice 2 / Data : (3-line) polar wiring, over IV 0.8mm applicable
  Power(17V/GND) (2-line) polar, over IV 1.2mm applicable

- For Video, coaxial cable is used : 5C-2V
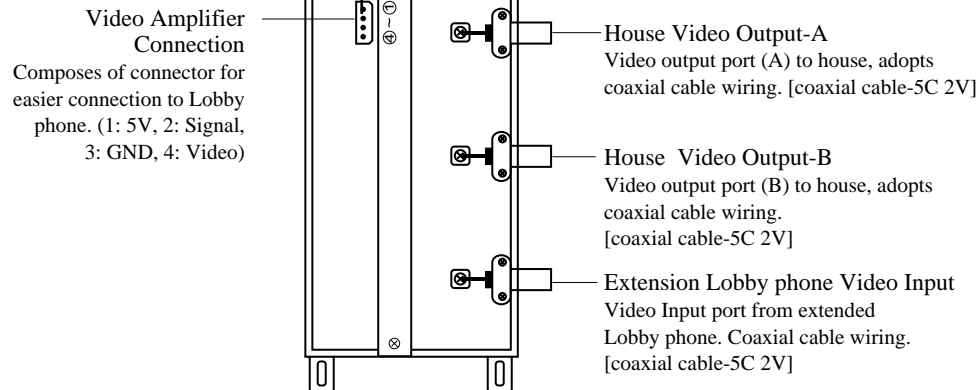
Product Specifications

Lobby Phone	**KLP-100**	**KLP-P100**	**KLP-C100**	**KDP-100** for connection to Doorphone
Input Power	DC 17V $\pm$1V (standby: 2W, Operating: 9W), Common Power Input			
Voltage of Internal Operation Power	DC 12.8 V $\pm$1V			
Lobby Phone's Data Protocol	PROTOCOL DATA TX/RX Method			
Communication MethodAvailable	Hands Free Method (two way)			
Time for Call/Image	Calls/images maintains for 30 $\pm$ 3 seconds after call Communication with house maintains for 3 minutes $\pm$ 5seconds	Same as left specifications	Same as left specifications	Same as left specifications
Exterior Material and Color	METAL (Zn , Al) / SILVER			
Dimensions	255(W) X 120(H) X 20(D) mm			
Guaranteed Operating Temperature	-10°C ~50°C			
Automatic LED On/Off	At night, LED at Dial button is automatically turned on			
Image Device:	CCD (1/3 Inch)		CCD (1/4 Inch)	
Camera Angle	120°	90° (Pinhole lens)	97°	
Minimum Illumination	0.1 Lux (When IR LED is turned on)		0.1 Lux (When WHITE LED is turned on)	

External Wiring Diagram

※ Lobby phone can be extended up to 3 units.

WIRING
POWER LINE: IV 1.2 Ø
VOICE/DATA/PABX: IV 0.8 Ø
VIDEO: COAXIAL CABLE 5C-2V

1. +17V
2. GND/DOOR GND
3. VOICE 1
4. VOICE 2
5. VIDEO OUT
6. DATA
7. DOOR LOCK
   (DC +12V 300mA)

Door Lock
(DC +12V 300mA)

Door lock dry contact type
1. If the door opener is the type of ON dry contact, please connect it to the Terminal No.8 (N.O.) & 9 (COM.).
2. If the door opener is the type of OFF dry contact, please connect it to the Terminal No.9 (COM.) & 10 (N.C.)
3. Additional power supply is necessary in this connection.

1. +17V
2. GND/DOOR GND
3. VOICE 1
4. VOICE 2
5. VIDEO OUT
6. DATA
7. DOOR LOCK
   (DC +12V 300mA)
8. DOOR GND

FG

5C-2V

MULTIPLE APARTMENT MAIN LINE

8 ~ 1

+5V SIG GND VIDEO

■ KHU-102P
  Lobby Video Amplifier

Video Amplifier Connection
Composes of connector for easier connection to Lobby phone. (1: 5V, 2: Signal, 3: GND, 4: Video)

House Video Output-A
Video output port (A) to house, adopts coaxial cable wiring. [coaxial cable-5C 2V]

House Video Output-B
Video output port (B) to house, adopts coaxial cable wiring.
[coaxial cable-5C 2V]

Extension Lobby phone Video Input
Video Input port from extended Lobby phone. Coaxial cable wiring.
[coaxial cable-5C 2V]

Operational Descriptions

■ Functional Descriptions

▷ **This product supports the following functions including call to and communication with house.**

a. Call to and communication with house and guard
b. Common gate open
c. Image transmission to house
d. Lobby phone ID setting
e. RF card registration and deletion (option)
f. Password registration per house
g. Lobby phone version check

These products are only compatible with KIV-102, D102, KIV-202, D202, KVM-520 monitor, KIP-603 doorphone or KIP-120 guard master.
If it is used with other product(other company), it might be mal-functioned.

▷ **Call to house**

In order to call from lobby to household, input house no. and press "call"button in order.

-	0101	CALL	CALL	tELL	-
Stand by	**House Number**		**Call state**	**Communication state**	**Stand by**
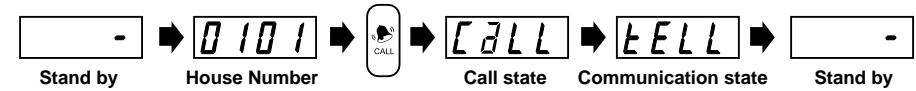
Pressing call button, call sound rings and house is called.
If the house responds to the call, communication is available for 3 minutes.
(Pressing door open button during the communication, opener installed common front door is opened.)
When communication is ended, device returns to standby mode.

▷ **Call from lobby phone to guardroom**

Pressing "0"and call button on the lobby phone, guardroom is called, ID of Lobby emerges on the guard master.
Communication with guardroom is available for 3 minutes. When communication is ended, device returns to standby mode.

-	0	CALL	CALL	tELL	-
Stand by	**Guard master Number**		**Call state**	**Communication state**	**Stand by**
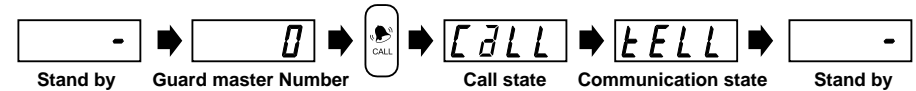
▷ **Password Change**

(Password change function is only available during the call with house.)
Pressing "# # 0 0 #" during the call with house, "_____" is displayed.
Input new password and press "#" button.
ex) In case registering '1111' as password.

tELL	(#)+(#)+(0)+(0)+(#)	- - - -	1111	(#)
Communication state	**Password input mode**	**Hold**	**New password**	**# Button**
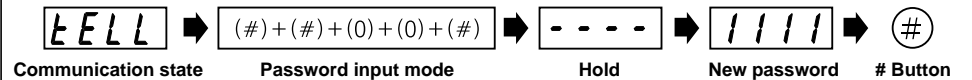
- Only up to four ciphers are available for password.

▷ **Door open using lobby phone with password**

In order to open the door by password from lobby, press 'house number + # + password + #', then the door is automatically released.
ex) In case opening common gate by password registered as '1111'.

-	0101	(#)	1111	(#)	OPEN
Stand by	**House Number**	**# Button**	**password**	**# Button**	**Releasing common gate**
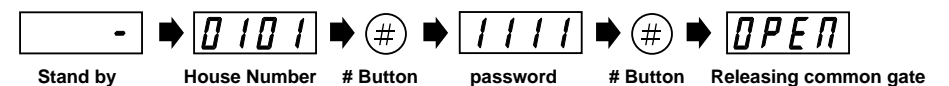
Operational Descriptions

■ How to set Lobby Phone (initial operation of set button)
Press "SET"button.
Input 4-digit system password (default password:"9999") and press "#"

Button **Hold** **Resistered password** (9+9+9+9) **# button** **Setting mode**

- Only up to four ciphers are available for password.

▷ **How to change password of lobbyphone.**

Press "SET" button. (Please refer to "initial operation of set button.")
Pressing 'SET' button again until 'Lb.PS.' sign emerges on display. After pressing 'Cencel' button ,
if you input new password and press '#' button, then the password is registered.
ex) When making password '9999' changed into '1111'.

Lobbyphone password setting mode **button** **Existing password** **New password** **'#' button**
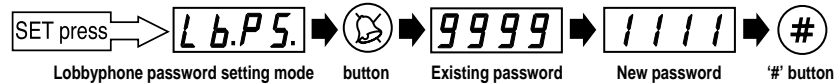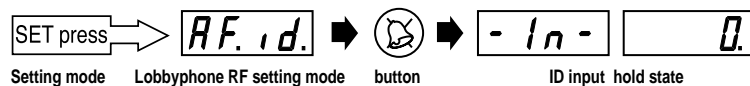
▷ **Registration of Lobby Phone (KLP-100 series) RF-ID Card (Card Registration)** ※ optional

Press "SET" button. (Please refer to "initial operation of set button.")
Press "SET" button again so that indicator displays "RF.id."

a) Press 'Cancel' button , then 'In' sign emerges and changes to '0' sign at interval of a second.
At this time, contact the card to lens part. (1 time)
Registration tone sound is heard (twice). Indicator displays "1."

Setting mode **Lobbyphone RF setting mode** **button** **ID input hold state**

b) Contact the card to lens part (once).
Registration tone sound is heard. Indicator displays "0002."

c) Contact the card to lens part (once).
Registration tone sound is heard. Indicator displays "Oh-."

Registration of a card is completed. -> Completion tone sound is heard (four times).

- In order to register a card, the card should be contacted to lens part total 3 times.
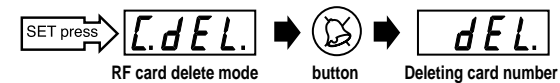
▷ **Deletion of all RF cards.**

Press "SET" button. (Please refer to "initial operation of set button.")
Press "SET" button again so that indicator displays "C.dEL."
To delete, press "Cancel" button.
Tone sound of the deletion of all RF card IDs is heard (once for 60 seconds). When deletion is completed,
tone sound stops.

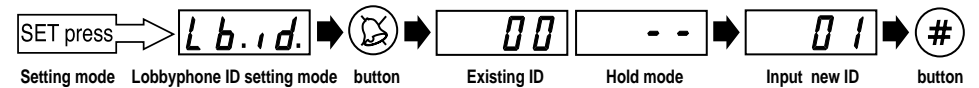**RF card delete mode** **button** **Deleting card number**

▷ **Lobby Phone ID change (Password setting)**

Press "SET" button. (Please refer to "initial operation of set button.")
Indicator shows "Lb.id."
Input new password and press "#" to finish password registration (2 digits only).

Setting mode **Lobbyphone ID setting mode** **button** **Existing ID** **Hold mode** **Input new ID** **button**

Registration tone sound is heard.
(System administrator designates system password lest users change lobby phone ID.)

- In case of installing lobbyphone more than 1pcs, each ID of lobbyphone should be resistered differently.
- In order to use monitoring function of lobbyphone which has lobby mornitoring function,
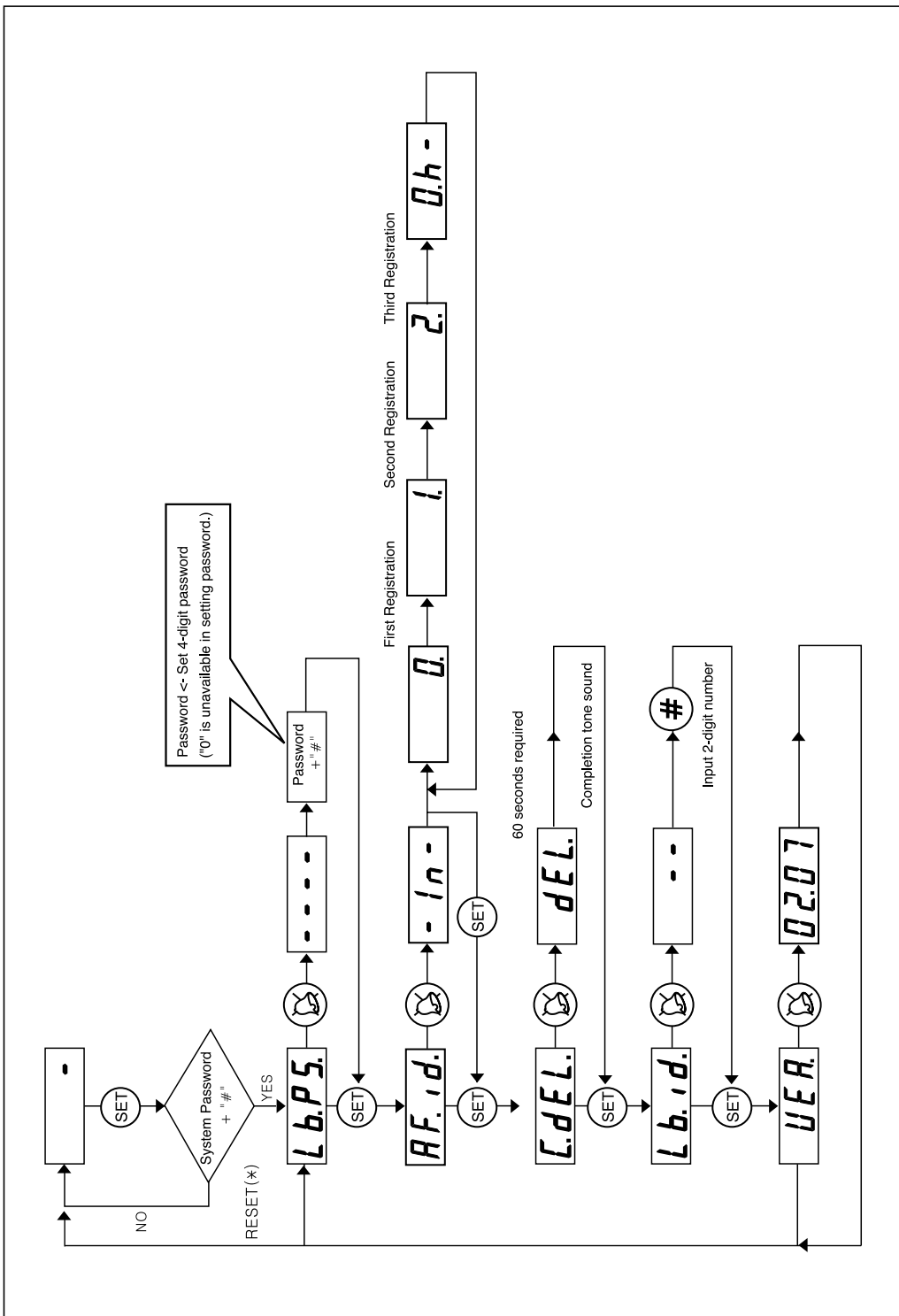the lobbyphone's ID should be set as "1".(This function is available only for KLP-100 series.)

▷ **Lobby Phone version check**

Press "SET" button. (Please refer to "initial operation of set button.")

Press "Set" button again so that indicator displays "VER."
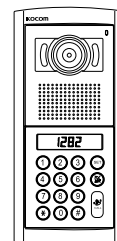
Press " Cancel" button, indicator displays "02.07"

Mode identifying lobbyphone version **Identified version**

Specifications of Tenkey Button Type Products

Video phone connecting model		Doorphone connecting model
Lens Type	**Pinhole Lens Type**	
B/W : KLP-100	KLP-P100	KDP-100
Color : KLP-C100	KLP-PC100	
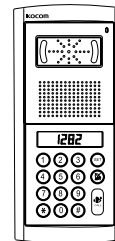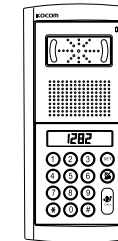
Installation method

Rectifier (17V 300mA)
Rectifier 3x8mm(2ea)

Dummy

Concealed Box

Main Body

Dummy Screw
4x50mm(4ea)

Video Amplifier (KHU-102P)
Video Amplifier Screw
3x8mm(4ea)

Dummy Screw 4x8mm(1ea)

Password <- Set 4-digit password
("0" is unavailable in setting password.)

Password +"#"

Third Registration

Second Registration

First Registration

60 seconds required

Completion tone sound

Input 2-digit number

System Password +"#"

YES

NO

RESET(*)

SET

SET

SET

SET

SET

SET

- After placing adaptor 17V and video amplifier in flush mounting box, and then screw a joint tight.
- Connect output of adaptor to the power terminal (+17V, GND [polarity]) of lobbyphone.
- Connect '4P' connector from video amplifier to 'WAFER' terminal of lobbyphone. [Polarity].
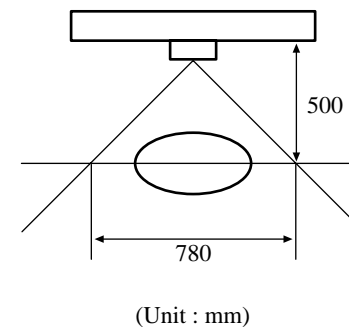
Reference before installation

Whole height of flush mounting box. [224mm]

From center of lens to bottom of flush mounting box. [188mm]
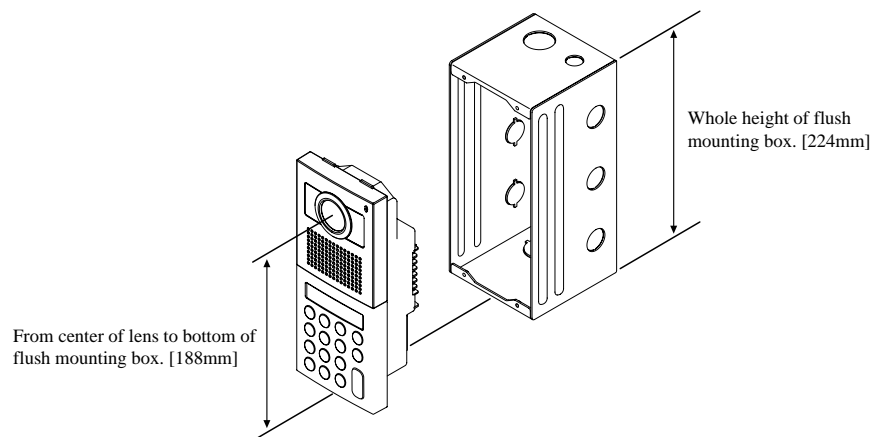
Standard height for installation of Lobbyphone

■ Standard installation height of lobbyphone is 1,400~1,450mm from floor to the bottom of flush mounting box.
In case that the installation height of lobbyphone 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 lobbyphone.

On the basis of the center of lobbyphone's lens

1,500

1,780

1,220

(Unit : mm)
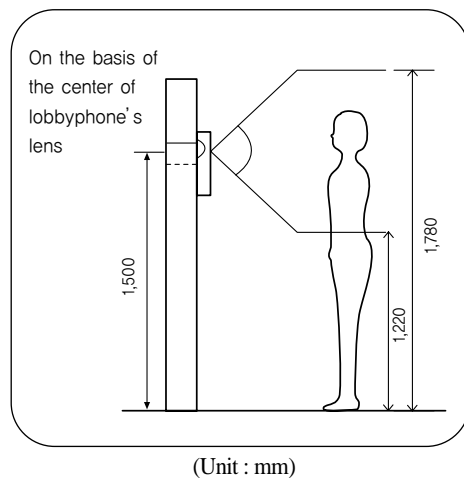
Standard dimensions for installation of lobbyphone

500

780

(Unit : mm)

For Multi Apartment or Villa Use & it's Connection

4

COAXIAL CABLE

UP **17V / 2A**

4

KC-D31

KIV-202

7

5

KVS-104P

2nd floor (up to 4 houses)
One KVS-104P is for 4 houses

5

KVM-520

7

6

KC-C61

4

KIV-102

5

KVS-104P

5

6

6

1st floor (up to 4 houses)
One KVS-104P is for 4 houses

KIP-603

KIP-603

KIP-603

+17V, GND, VOICE1, VOICE2, DATA

VIDEO, GND

EXTENTION OPTION

TERMINAL BOX

5

17V / 300mA

COAXIAL CABLE

17V / 300mA

2

KIP-120

KLP-C100

KHU-102P

4

5

KLP-C100

(ADD ADDITIONAL ADAPTOR, IF THE DISTANCE
IS OVER 50M FROM MAIN POWER)