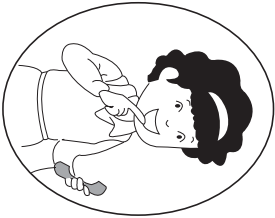


Warranty



To receive after-Sale 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	
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 disorder.

KOCOM CO.,LTD.

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

KIP-603 08. 08

KOCOM

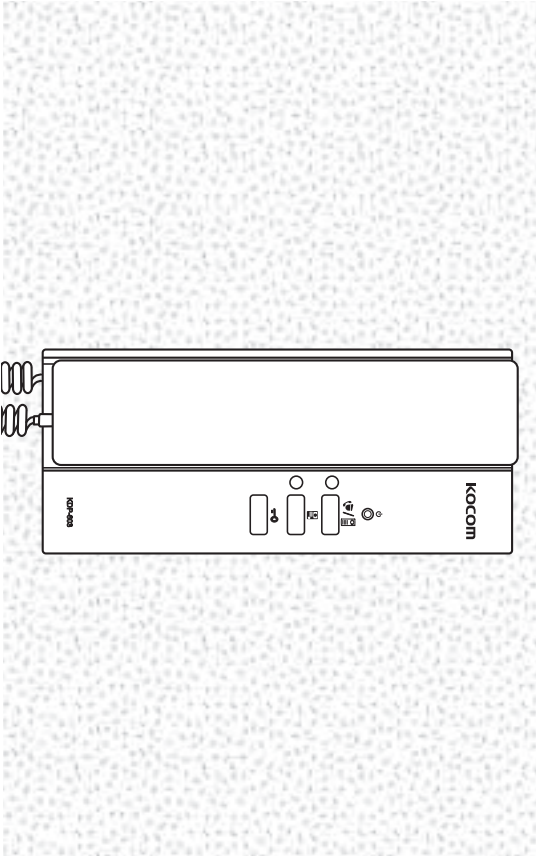
Interphone
for Apartment Unit

KIP-603 User's Manual for Operation and Installation

- Interactive call and communication between house and guardroom.
- Inner line call and communication within the house.
- Communication with lobby phone and door open function.



Thank you very much for purchasing KOCOM video doophone. please read this manual thoroughly to ensure correct usage, before operating.



KOCOM CO.,LTD.



Warnings & 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.



This symbol means that wrong handling or ignorance of matters that this symbol indicates may cause serious injury or even death of user.



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 any event.



This symbol means that user should follow the instructions.



This symbol means that contents (high voltage, electric shock, warnings, etc.) to which user should pay attention are included.



This symbol 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 need 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 started 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 from 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 spraying, 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.

⚠ Warnings

➤ Cautions for Use

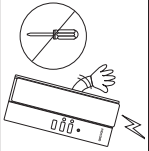
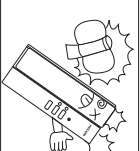
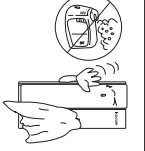
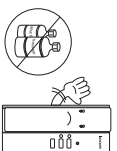
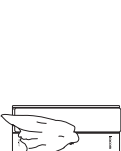
- Do not install the product at bathroom or at the place near a washing machine, or at other humid places. It may cause fire or electric shock.
- Do not install the product at the place near a dresser, humidifier or heater. Also avoid the place exposed to spark, heat or humidity. All of them may cause 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 results in fire and 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. It 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 should 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 to 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.

⚠ Warnings

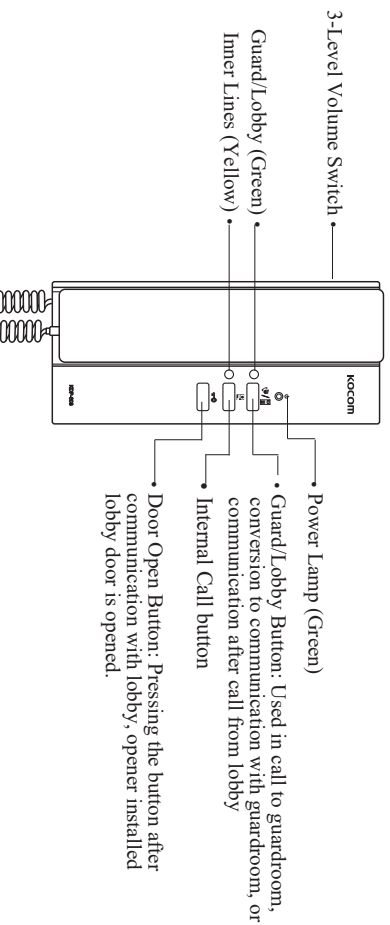
➤ Cautions for Use

- This product is not for perfect security solution.
 - 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 lightning is expected or strokes. It may cause fire and electric shock.
 - The product is cannot be used for security.
 - 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 Abnormally
- 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.

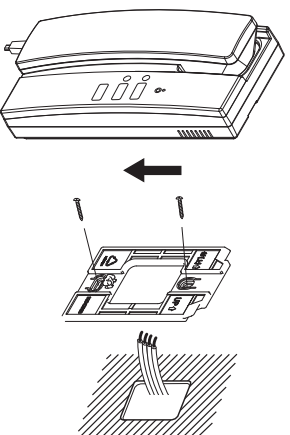
Precautions for Operation

 <p>As this device consists of electronic precision components, do not attempt to disassemble.</p>	 <p>Do not drop this device and avoid strong impact.</p>
 <p>Keep away from humidifier and stove. High temperature and humidity may cause troubles.</p>	<div data-bbox="1189 533 1305 683">  </div> <p>When cleaning, do not use wet hand, volatile benzene or paint thinner. Use soft cloths dipping in neutral detergent to wash this device and dry it with dry clothes.</p> <div data-bbox="1037 533 1157 683">  </div> <p>Clean the exterior of this device with soft cloths at times to keep it in clean state.</p>

Component's Name

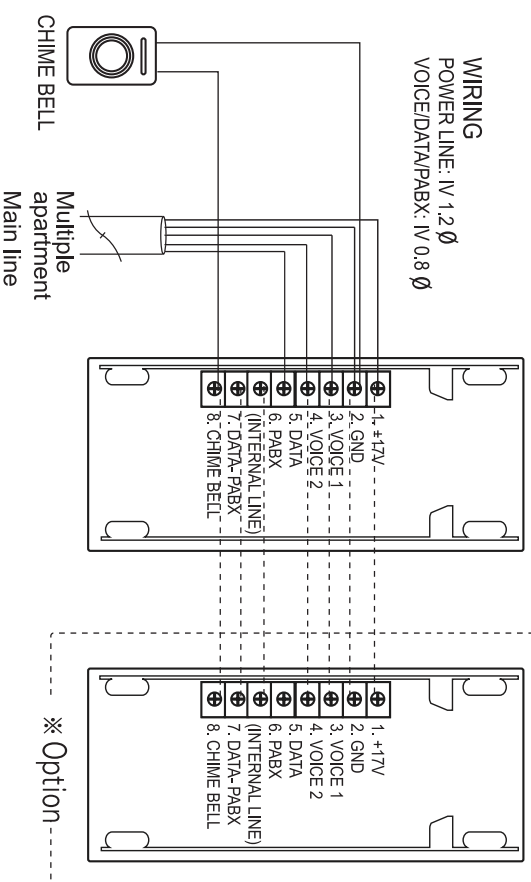


Instructions for Installation



- Place bracket on the wall and fix it with screws. After wiring, fit the rear side of main frame to a groove in the bracket and pull the main frame down to fix.

External Wiring Diagram



Precautions for Wiring

- As incorrect wiring may cause the device's non-operation or poor communication quality, please carefully conduct wiring work.
- When connecting a wiring chord to a terminal, loosen screw, insert the end of the chord into the bottom part of screw, and tighten the screw.
- When fixing wiring chord, use stapler not to cause damage to the chord.
- When using existing wiring, please be cautious not to cause disconnection and short-circuit.

Product Specification

Power: DC 17V(±1V)

Common Power Input DC 12.8V±1V

Consuming Electricity Max 1W (standby mode) / Max 2W (operation mode)

Guaranteed Operation Temperature 0 ~ +50°C

Communication Mechanism Balance Circuit

DUPLEX HANDSET CONVERSION

Melody (front door, inner lines, guardroom, lobby)

Wiring 5-line polar wiring (VCC/GND/Voice I/Voice 2/DATA)

(OPTION : Chime SW 2line(signal / GND)

Wiring Distance Power(+/GND) 1.2 φ 300M within

(OPTION : ChimeSW – φ 0.5 SINGLE CABLE / with in 30m)

Dimensions W 92 mm X H 210 mm X D 57 mm

Wiring Specification

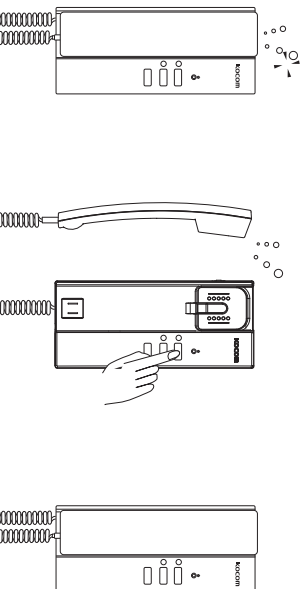
- 5-line polar wiring between wirings in main line of apartment unit
- 6-line polar wiring between KVM-520,KIV-102,KIV-212,KCV-802R (monitor) and interphone
- 2-line non-polar wiring in connection with chime switch at front door
- 6-line polar wiring when installing more devices

Functional Specification

- Pressing chime switch to call, chime tone of call from front door rings (device does not support communication function and only detects call state).
- Inner line call and communication – chime tone of inner line call rings and communication maintains for 3 minutes (installation of additional monitors and interphones is required).
- Communication with lobby phone – After chime tone rings, user can communicate with lobby phone for 3 minutes. (If pressing the door open button during the communication with lobby phone, opener installed common lobby door is opened.)
- Call to and communication with guardroom
If pressing guard button on interphone, user can call to and communicate with guardroom.

Operational Description

■ Call from lobby

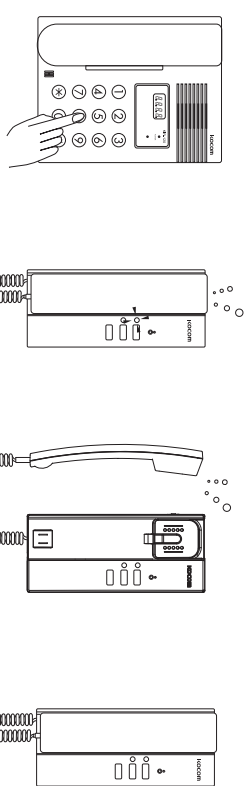


- When a lobby calls to house in standby mode, tone sound rings for about 30 seconds in house.
- Speaker outputs tone sound and (lobby/guard) LED flickers.
- Picking up handset, communication with lobby is automatically available (available communication time: 3 minutes) (At this time, LED is turned off).
- To open the door during the communication with lobby, press door open button and opener will automatically operate.
- Hang up handset, communication is ended (call to lobby function is not available).

Call to guardroom for communication

- If picking up handset and pressing guard/lobby button, guardroom is called out (call maintains for 30 seconds).
(When other house is not on the line, LED is turned on.)
- If guardroom responds to the call, call state is maintained (for 3 minutes).
(When communication begins, LED is turned off.)

Call from guardroom to house



- If guardroom calls to house, tone sound rings in handset of house (for 30 seconds) and (guard/lobby) LED flickers. Picking up handset, communication begins (communication maintains for 3 minutes).
- At this time, LED is turned off.
- Hanging up handset, communication is automatically ended.

Inner line call and communication

- Inner line call to the extend in door unit
Picking up handset and pressing (inner line) button, then, extended in door unit is called out (call maintains for 30 seconds).
- Inner line LED is turned on.
- Extended unit responds to the call, Call maintains for 3 minutes.
(LED is turned off)
- Hanging up handset, communication is ended.

- Inner line call from extended in door unit
If house received a call, tone sound rings in house handset (for 30 seconds)
- (inner line) LED flickers.
- Picking up handset, communication begins (maintains for 3 minutes).
(When communication begins, LED is turned off).
- Hanging up handset, communication is ended.

Instructions for Operation

■ Instructions for Operation

Model: (KDP-100 / KL-P-100 / KL-P-P100 / KL-P-C100), Functional Specifications

▷ Call to house

When a visitor calls to house using lobby phone, press house number.

e.g) In case of calling to house No.101



> Pressing call button, call sound rings and house is called.

> If the house responds to the call, communication is available for 3 minutes.

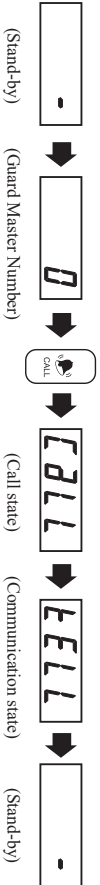
(Pressing door open button during the communication, opener installed with common gate is opened.)

> 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 and lobby phone ID is displayed in guardroom phone.

> Communication with guardroom maintains (for 3 minutes). When communication is ended, device returns to standby mode.



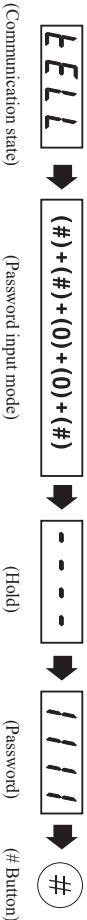
▷ Password Change

(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.

e.g) When register password as '1111', (It should be 4 digits)

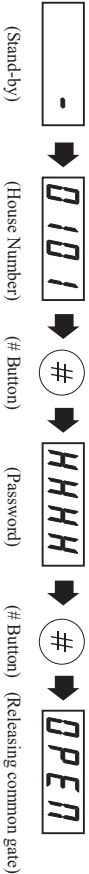


▷ Door open using lobby phone with password

Pressing "house number + # + password + #" designated by the house, door is automatically opened.

when the user from house number "0101" opens common gate with password.

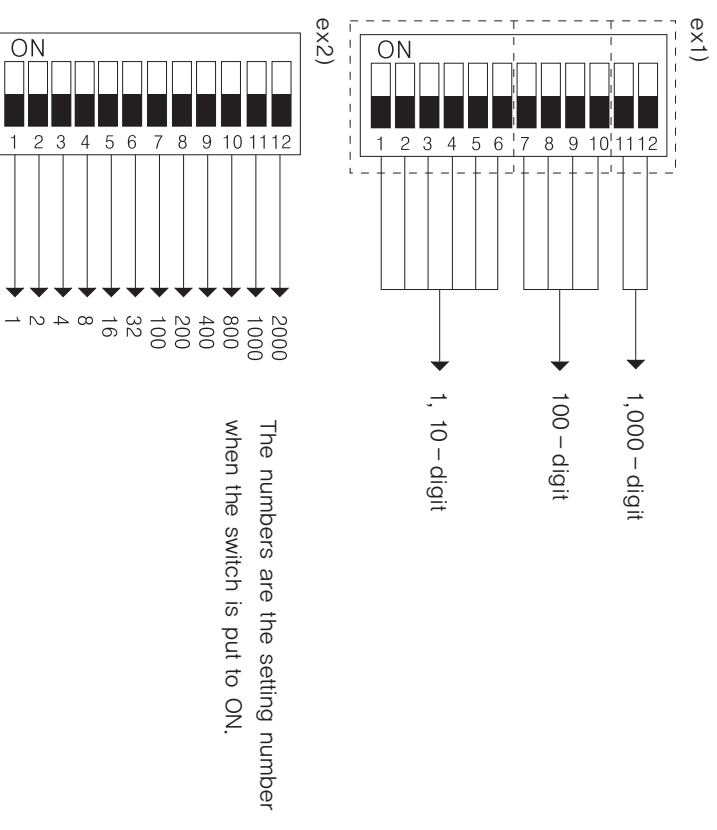
e.g) Press house number "0101", #, password and # in order.



DIP Switch Setting at House Interphone and Video Phone

■ **OLD MODE** : It is compatible with the existing units. 1D is available with 1~63, 1000~1963, 2000~2963, 3000~3963.

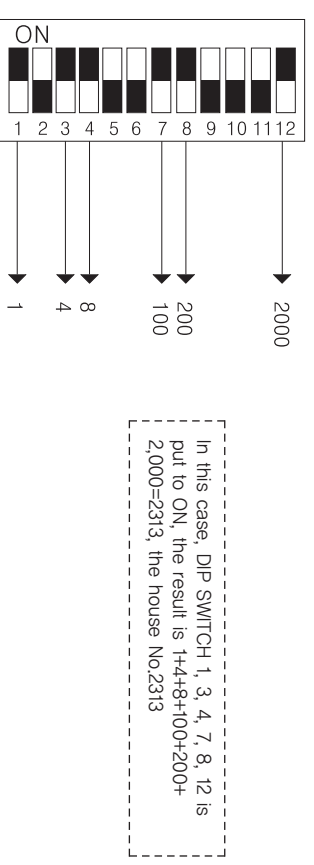
※ There should be no mixed protocol in a system. Mixed protocol in a system can make the malfunction of system.



1. If DIP SWITCH from 1 to 12 is put to ON, the numbers of DIP SWITCH will be summed up.

ex1) If the switches 1 and 2 are put to ON, the setting number becomes 1+2=3.
ex2) If the switches 1 and 3 are put to ON, the setting number becomes 1+4=5.

ex3)



[Lobby Phone's Direct-Button Call Function]

Model : KDP-104, KDP-108, KDP-112, KLP-104, 108, 112, KLP-P104, P108, P112,

KLP-C104, C108, C112

To call to house, press house number using lobby phone's key pad.

Tone sound rings and call signal is sent to the house.

Pressing the call button again while calling, calling is cancelled. No separate cancel button is offered.

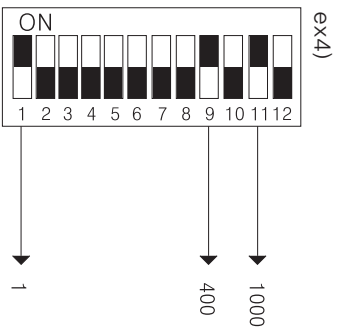
If called house is communicating with extended other lobby phones or guardroom phone, busy signal sounds and device immediately returns to stand-by mode.

▷ Operation of Door Opener While Communicating with House

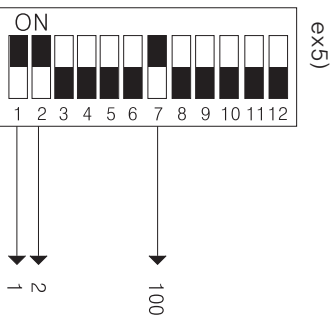
1. Pressing door open button during the communication with house, common gate is opened.

(Door Opener Specification: Within DC 12V 300mA)

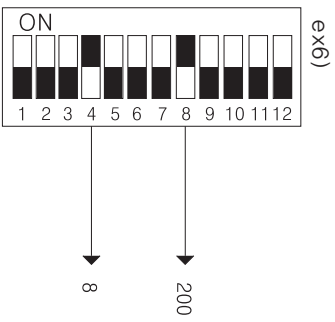
※ Functional specifications may be changed according to the specifications of installed products.



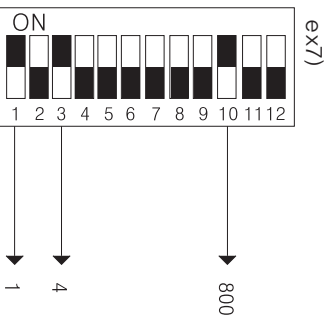
In this case, DIP SWITCH 1, 9, 11, 12 is put to ON, the result is $1+400+1000+1000=1401$, the house No.1401



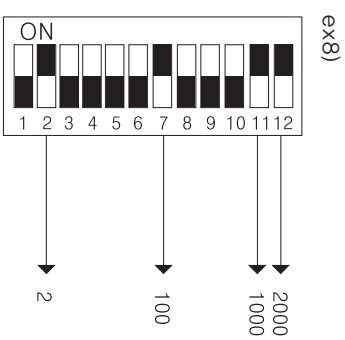
In this case, DIP SWITCH 1, 2, 7 is put to ON, the result is $1+2+100=103$, the house No.103



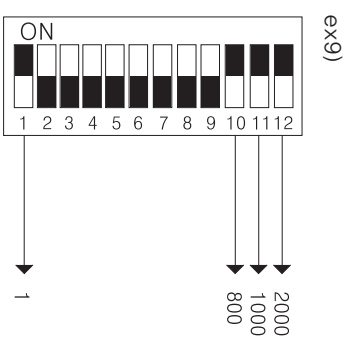
In this case, DIP SWITCH 4, 8 is put to ON, the result is $8+200=208$, the house No.208



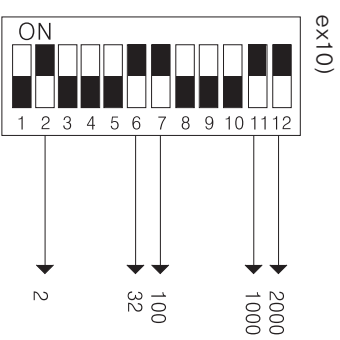
In this case, DIP SWITCH 1, 3, 10 is put to ON, the result is $1+4+800=805$, the house No.805



In this case, DIP SWITCH 2, 7, 11, 12 is put to ON, the result is $2+100+1000+2000=3102$, the house No.3102



In this case, DIP SWITCH 1, 10, 11, 12 is put to ON, the result is $1+800+1000+2000=3801$, the house No.3801



In this case, DIP SWITCH 2, 6, 7, 11, 12 is put to ON, the result is $2+32+100+1000+2000=3134$, the house No.3134

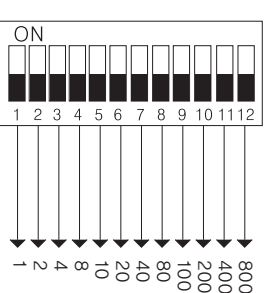
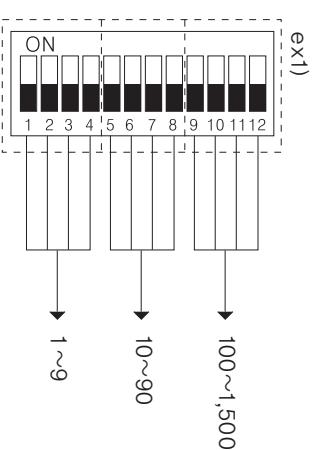
DIP Switch Setting at House Interphone and Video Phone

■NEW MODE : It is available to set from No. 1~1599.

- 1) DIP SW 1~4, it is available by 15, the sum of 1248. In case of 2 digits from 9 are available by No.9. And 10~15(A~F HEX code)'s setting is 9.
- 2) DIP SW 5~8 is available by 15, the sum of 1248. In case of 2 digits from 9 are available by No.9. And 10~15(A~F HEX code)'s setting is 9.
- 3) DIP SW 9~12 is available by 15, the sum of 1248.

※ There should be no mixed protocol in a system. Mixed protocol in a system can make the malfunction of system.

※ KIP-120 and KLP-100 Series only matching with over 4.0 version's NEW MODE.



The numbers are the setting number
when the switch is put to ON.

1. If DIP SWITCH from 1 to 12 is put to ON, the numbers of DIP SWITCH will be summed up.

ex1) If the switches 1 and 2 are put to ON, the setting number becomes 1+2=3.
ex2) If the switches 1 and 3 are put to ON, the setting number becomes 1+4=5.

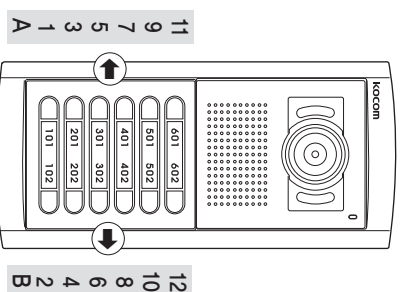
2. Precautions for DIP Switch Setting (House No. Setting)

- 1) After setting DIP switches, device power should be reset.
(In power switch ON state, DIP switches cannot be set.)

- 2) For direct button type lobby phone, up to 12 houses can be set.

Thus, when DIP switches of house interphone and video phone are set, available houses are also 1 to 12 in number.

For Common gate pannel (KDP-104/KDP-108/KDP-112) and Lobby Phone (KLP-104/KLP-108/KLP-112, KLP-C104/KLP-C108/KLP-C112, KLP-P104/KLP-P108/KLP-P112), house (KVM-520 and KIP-603, KIV-102, KIV-D102, KIV-212, KIV-D212, KCV-802R, KCV-D802R) No. setting should be conducted as following instructions. (A specification preset by internal protocol)



House No. (DIP Switch) Setting for direct button type.

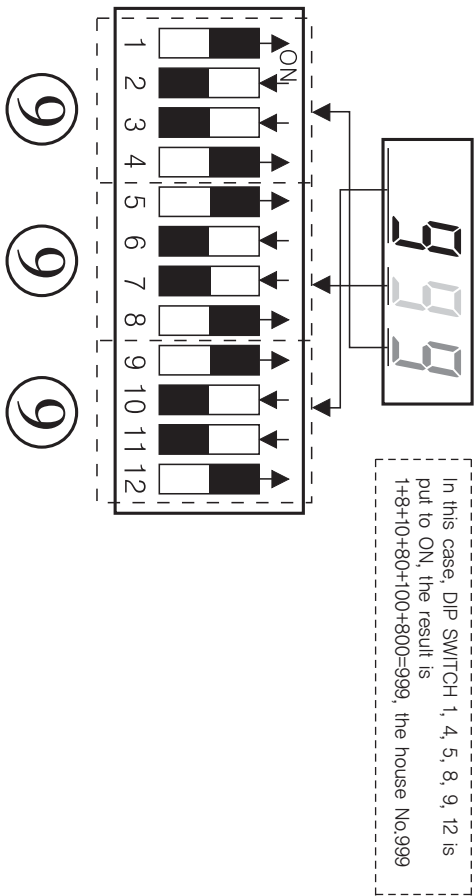
House Setting No.

	Lobby Phone (Column A)	Lobby phone (Column B)	Household monitor setting number
KDP-104	1 (101)		1
KLP-104		2 (102)	2
KLP-P104	3 (201)		3
KLP-C104		4 (202)	4
KDP-108	5 (301)		5
KLP-108		6 (302)	6
KLP-P108	7 (401)		7
KLP-C108		8 (402)	8
KDP-112	9 (501)		9
KLP-112		10 (502)	10
KLP-P112	11 (601)		11
KLP-C112		12 (602)	12

(Warning!) House device should be set as described above (Fix house No. type).

- 3) If user wants to use interphone or video phone as sub-phone, all DIP switches should be in OFF state.
- 4) When user sets DIP switches, excessive impact on DIP switches may cause abnormal or erroneous operation of device.

ex3) To set the house No.999



ex4) To set the house No.1203

