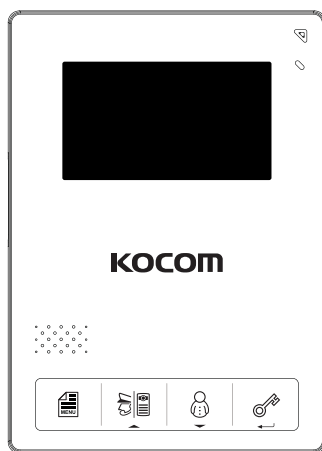


KCV-436 / D436 MANUAL

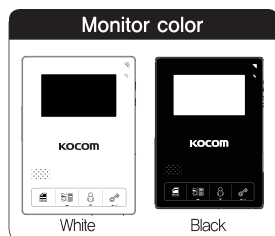
[Multiplex house color video phone]

Multi-household Video Phone COLOR HANDSFREE

- Compact, mini design
- 4.3 inch digital LCD color monitor
- Icons revealing the status of operation at once glance
- OSD marking function
- Visitor's call and door opening
- Communicate with Guard Master phone
- Lobby phones interworking
(KLP-302 / KLP-410 Series / KLP-100 Series)
for entrance camera monitoring
- Touch button
- Door opener can't be connected from door camera
but from monitor.(200mA)



KCV-436 / D436



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 from an unauthorized person 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.
- 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 disorder.
- Setting the communication lines in a high humid place such as outside without any protection from rain causes the communication disorder.
- 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 code causes fire and electric shock. Do not pull the power code when unplugging.
- The damaged code 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 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 code.
- 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.



Caution

⦿ Safety Instructions, Warnings and Cautions of Each System

- Do not disassemble this unit as it 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.

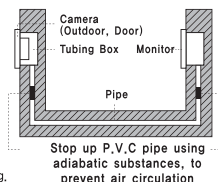
⦿ Things You Need to Know

- 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 5cm 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.

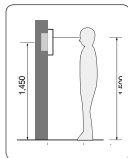
⦿ Cautions

- 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.

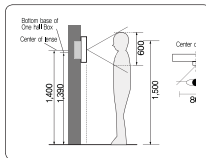


Installation location



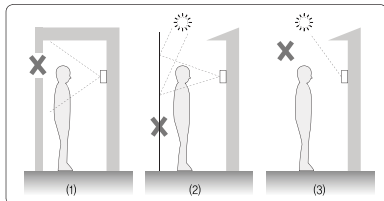
■ Monitor installation location

- Standard monitor installation height is about 1,500mm where screen center is at eye level.
- In this case, wall-hanging metal center (center of piping) is 1,450mm above ground level.
- Standard installation height



■ Camera installation location

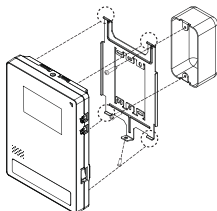
- Camera installation in height Standard camera installation height is when lens is about 1,400mm above the floor.
- In this case, camera stack center (piping box) is above 1,390mm above ground level.
- Standard installation in height



■ 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 following picture.
 - (1) Place illuminating sky as background
 - (2) Place with white wall reflecting direct ray of light
 - (3) Place with direct ray of light
- Standard installation in height

■ Monitor installation



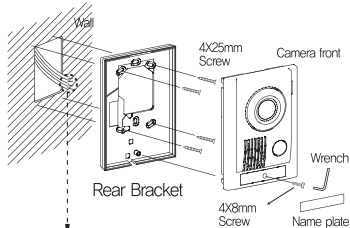
■ Directly connecting cut-off power cord with power wire

- Do not do such electric work on your own. Installing product in this way requires reliance on electric installation man with electric work license.
- Insulate with insulating tape while cutting off power cord and connecting with power wire so electric wire metal does not expose. Contact between exposed electric wires cause fire or electric shock accident.
- Such electric work requires connection after interception of supplied power.

- Remove wall-hanger bracket metal behind monitor.
- Install wall-hanger bracket metal on 1 type box or wall with attached Vis.
- Connect wiring to monitor back terminal referring to product connection diagram.
- Hang monitor on wall-hanging metal, and fix monitor on wall-hanger bracket metal using attached Vis.
- Plug monitor's power plug into consent and check to see if the power switch is [ON] on the left side of monitor.

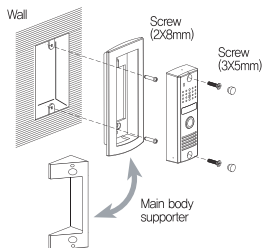
■ Door camera installation

KC -MC30

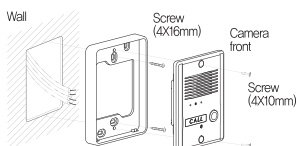


Camera Terminal Block
Standard wire strip specification : 6~7mm
Standard wire (AWG) : 16~24(0.5mm~1.2mm)

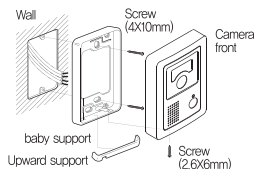
KC-MC20



KC-MC24



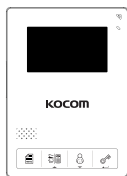
KC-C60



※ After fix the rear bracket with 4 screw, put the Door Camera into the grooves of rear bracket, and then fix it with hexagon screws and stick the finishing materials.

Components of product

■ Monitor



■ A Wall hanger frame



■ Screw for fixing monitor



4X25mm 4ea
(Flat head type)



3X8mm 1ea

■ Wire



4 Pin cable for camera



4 Pin cable for door opener



7 Pin cable for multi-house wiring

※ KCV-D436



· DC 15V Adaptor
(JPW128KA1502NXX)

■ Door Camera

[KC-C60]



Main body
Supporter



4X10mm



2.6X6mm

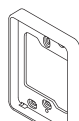


Screws for fixing main
body on the wall

Screws for fixing camera
to main frame supporter

Upward adjusting
supporter for lens angle

[KC-MC24]



Main body
Supporter



Finishing rubber



4X10mm

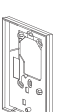


4X16mm

Screws for fixing camera
main body supporter

Screw for fixing camera

[KC-MC30]



Main body
Supporter



4X25mm



4X8mm



"L" wrench

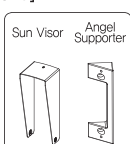
Screws for fixing main
body on the wall

Screws for fixing camera
to main frame supporter

"L" wrench

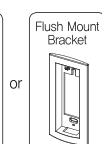
Scre cap (KC-MB30)

[KC-MC20]



Sun Visor

Angel
Supporter



Flush Mount
Bracket

Screws Cap (2EA)

Sun Visor Screw
(2X4mm 3EA)

Dummy Screw
(4X25mm 2EA)

Main Body Screw
(4X18mm 2EA)

※ In case of Surface mount type, 'Sun Visor' and 'Angel Supporter' are packed together with the 'Main body'. And 'Flush Mount Bracket' is included for Flush mount type.

Specifications

Monitor	Model No.	KCV-436		KCV-D436	
	Power Source	AC 90V-AC 240V 50/60Hz		DC 15V-2A(JPW128KA1502N05)	
	Power Consumption	Standby 1W, In load 8.5W(±20%)			
	Operating Temperature	0℃ ~ +40℃			
	LCD	4.3 Inch color LCD			
	Communication System	Handsfree type			
	Wiring	Door camera wiring – Polarized 4 lines / Multi-house wiring – Polarized 7 lines			
	Mount Type	Surface mount			
	Dimension	140(W) x 195(H) x 32(D) mm			
Door Camera	Model No.	KC-MC30	KC-MC24	KC-C60	KC-MC20
	Power Source	DC 12V ± 1V(Power from Monitor)			
	Power Consumption	Max, 3W			
	Operating	-10℃ ~ +50℃			
	Dimension	110(W) x 158(H) x 39(D)mm	96(W) x 127(H) x 32(D)mm	95(W) x 127(H) x 34(D)mm	40(W) x 120(H) x 22(D)mm
	Angle of Lens	Diagonal 120 ° (angle adjustable)	Diagonal 90 °	Diagonal 90 °	Diagonal 90 °

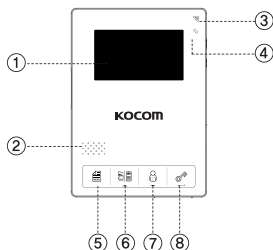
※ Door Camera Wiring : Polarized 4 lines(VCC[12V] / GND / VOICE / VIDEO)

※ Lobby phone : KLP-C100, KLP-C410

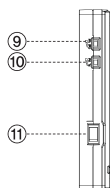
Name and Functions of each part

■ Monitor part

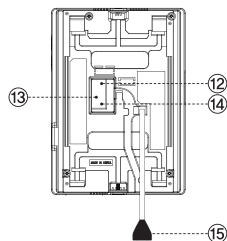
· Front



· Right Side



· Back

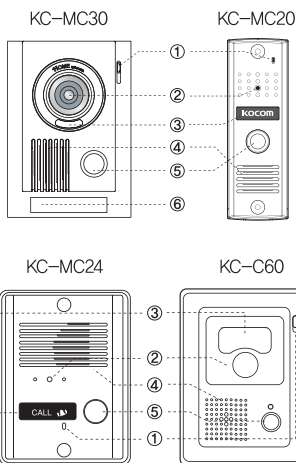


- ① LCD Monitor
- ② Speaker
- ③ Microphone
- ④ Power LED
- ⑤ Menu Button
- ⑥ Lobby / Guard Button
- ⑦ Camera Button
- ⑧ Door open Button

- ⑨ Call volume adjustment switch
- ⑩ Speaking volume adjusting switch
- ⑪ Power Switch
- ⑫ Door Camera Terminal
- ⑬ Multi-House Terminal
- ⑭ Door Opener Terminal
- ⑮ Power input section : Input power and fix power cord
(KCV-436 : AC Cord / KCV-D436 : DC Jack)

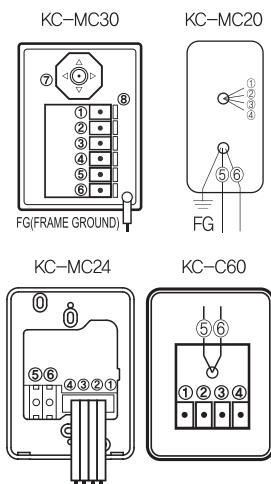
■ Camera part

· The front side



- ① C-Mic : To communicate with Monitor
- ② Camera Lens
- ③ LED
- ④ Speaker : When visitor calls, the voice from monitor comes out of the speaker.
- ⑤ Call Button : By pressing the button, the related house will be called.
- ⑥ Name plate

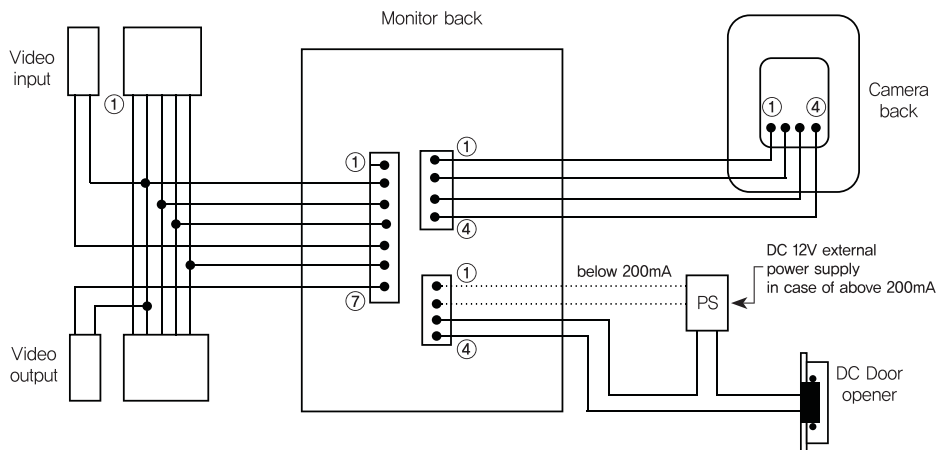
· The back side



- ① VCC
- ② GND
- ③ Audio
- ④ Video
- ⑤&⑥ Door (Non-Polarity)
- ⑦ Camera angle knob
(Only KC-MC/MB30)
- ⑧ Wire clamp

Wiring diagram

■ Multi-house main wiring



WIRING
POWER LINE : IV 1,2 Ø
VOICE / DATE / PABX : IV 0,8 Ø
VIDEO : COAXIAL CABLE 5C-2V

※ When the current of a DC Door Opener is below 200mA, connect port no. 1 & 2 and an extra power supply DC 12V is necessary in case of above 200mA.

• Multi-house line

- ① NC
- ② GND
- ③ Voice 1
- ④ Voice 2
- ⑤ Video input
- ⑥ Data
- ⑦ Video output

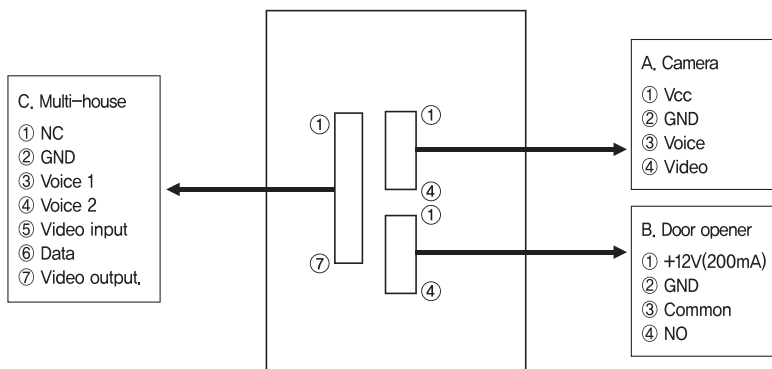
• Camera line

- ① Vcc
- ② GND
- ③ Voice
- ④ Video

• Door opener line

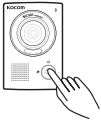
- ① +12V(200mA)
- ② GND
- ③ Common
- ④ NO

■ Name of each connection port

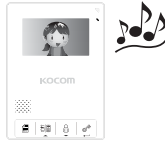


Instructions for operation

■ A visitor's call from the entrance camera




As your visitor presses Call button, the monitor will show this call.





The monitor speaker will make a call sound and the visitor will appear on the screen.
(Appearing time : 30 seconds)




Press the entrance button [] and you will be connected.
(Communication time : 3 minutes)

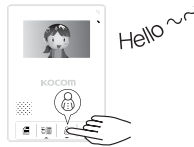



Press the entrance button [] once more and you can exit.
Press the door open button [] and the call will be finished in five seconds automatically.
Door opens only when you are connected.

■ Monitor-based entrance check





While waiting, press the entrance button [] and you will see the image on the entrance camera.
(Appearing time : 1 minutes)



Press the entrance button [] once more as entrance monitoring takes place and you will be connected.
You can see on the screen.
(Communication time : 3 minutes)



Press the entrance button [] once more to exit. Press the door open button [] to open the entrance and the call will be finished in five seconds automatically. You can open the door only when connected.

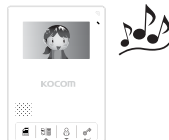
※ Monitor-based common entrance(lobby) check

Press [Lobby/Security] button for long(two seconds) and you can see the common entrance(lobby) on the screen.
Then, the image and sound will be available for eight seconds.

■ Visitor calling from common Entrance (Lobby)




Your visitor will call you from the common entrance by pressing your Household Number.





As you hear a call sound from the monitor speaker, you will see the visitor on the screen.
(Appearing time : 30 seconds)



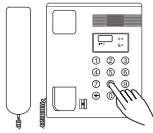
Press the Lobby/Security button [] and you will be connected.
(Communication time : 3 minutes)



Press the Lobby/Security button [] once more and you can exit.
Press the door open button [] to open the lobby door and finish your call in a few seconds automatically.
You can open the door only when connected.

Instructions for operation

■ Visitor's call from Security Office



Security Office presses your household number called to inform.



You can hear a call sound from the monitor speaker.



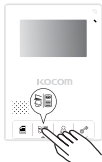
Press the Lobby/Security button [] and you will be connected.
(Communication time : 3 minutes)

Hello ~

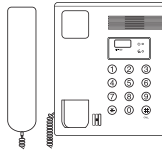


Press the Lobby/Security button [] once more and you can exit.

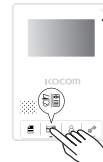
■ Calling Security Office



As you press the Lobby/Security button [] while waiting, you can call Security Office.



As Security Office receives your call, you will be connected.
(Communication time : 3 minutes)



Press the Lobby/Security button [] while talking to Security Office and your call will be finished automatically.

Menu Setup

※ Turn power switch off and on, Press Menu button [] within a minute.

And setting menu screen is on with beep sound. Press Menu button [] to exit.

1. Household Number : 0001
2. Type of entrance camera : C60
3. Type of lobby phone. : KLP-410
4. Mode : OLD
5. Language : English
6. Image : NTSC
7. Initialization

Menu Buttons

Up : [Lobby/Security] Button

Down : [Entrance] Button

Enter : [Open Door] Button

※ Up, Down, and Enter buttons will work only when you are using Menu Setup Mode.

1. Household Number : Set up your household ID.
2. Type of entrance camera : Select the entrance door camera interworking mode.
3. Type of lobby phone: Select the lobby-interworking model
(you can select the sensitivity of your lobby phone calls).
4. Mode : Modes are divided into OLD and NEW versions of your interworking lobby phone.
Old Mode : Household IDs can be set up between 1 ~ 63, 100 ~ 963, 1000 ~ 1963, 2000 ~ 2963, and 3000 ~ 3963
New Mode : Consecutive up to Household Number 1 ~ 1599
5. Language : You can select Korean or English.
6. Image : NTSC, fixed
7. Initialization : Setup initialization

※ Both Lobby and Security phones shall be under the same mode (Old or New).
OLD mode is the initial setup.

※ Power (Household Number 0001)

Off → On → Menu → Select Household Number → Open Door → Security/Lobby
→ Select 0002 → Open Door → Menu

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	
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.



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

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