Warranty

To receive after-sales 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

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE PURCHASED</td>
<td>WARRANTY PERIOD</td>
</tr>
<tr>
<td>AGENCY ADDRESS</td>
<td></td>
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</tbody>
</table>

KCOM Warrants 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, KCOM 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.

KCV-A374 MANUAL
[7inch Digital color video phone]

4 WIRE COLOR
HANDSFREE VIDEOPHONE

- 7inch Digital LCD (NTSC / PAL)
- LCD OSD Menu
- Room to Door Communication and Monitoring
- 5 Melody Selection
- Ultra Low Power Consumption
- Communication between Main Monitor and Sub Units
- Surface Mount Installation
- Door Opener Connectable from Either Monitor or Camera
- Connection up to 2 Door Cameras and 2 Monitors with Sub-Audio Unit (KDP-602G)

KCV-A374 09.10
Contents

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Cautions for Safety

Safety Instructions, Warnings and Cautions of Each System

Cautions for Use
- This unit is not designed for security purpose.
- Do not handle the unit with wet hands.
- Do not place a pot with water or a small metal material in the Unis.
- Do not cover the venting opening or put any metal material in the units. Open the main gate after checking if the image and sound system do not work. Call A/S.
- During thunderstorms, avoid using this unit. There may be a remote risk of an electric shock from lighting.
- Do not modify the unit.
- Do not disassemble the back and cabinet cover.

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 exhibits a distinct change in performance.
  - If the unit has been dropped or physically damaged.

Cautions for Abnormality
- 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 use any other voltage, except the marked regular voltage.
- Do not install monitor in following places.
  - Do not install near the noxious gases such as Hydrogen Sulfide, metal power and the like.
  - Do not install this unit near the fire, for example, near kitchen sink, heater or the like.
  - Do not install near the water and chemicals.
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Cautions for Abnormality
- Power must be connected to domestic voltage (product rated voltage) system or interior wiring.
- If a power plug is 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 interference.
- In such case, immediately turn down the power switch, and call to consult agency or store in which this product was purchased.
- Do not install 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 (-10°C) such as cold store
  4. Place with high humidity such as bathroom, washroom, heated room
  5. Place with lots of dust, gas, smoke of water or chemicals
  6. Do not spit with insecticide, drugs or chemicals such as thinner and alcohol, or it may damage the surface of this product.

Cautions for Abnormality
- 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, if 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.

Cautions for Abnormality
- Place with high humidity such as bathroom, washroom, heated room
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- Avoid installing monitor and camera in place directly exposed to heat or where gas noxiousness is highly occurring.
Components of product

Name and Functions of each part

[The front side]

① Power switch: Use by turning AC power ON / OFF.
② Monitor screen (LCD): Output of image sent from camera.
③ Speaker ④ Microphone ⑤ Monitor button: Push this button to check around camera when inside, and image is shown for 60 seconds. (Voice intercepted between camera and monitor)
⑥ Extension button or Speak button: Use this button to start / stop speaking. On standby, the internal call is available with pressing the button for 1.5 second. The call is available with pressing the button when LCD screen is turned on.
⑦ Open door button: Use this button to open front door with connected door switch.
⑧ Power cord
⑨ Brightness adjustment volume: Adjusting LCD screen brightness to use.
⑩ Call volume adjustment switch: Adjusting call sound in 3 steps [high, medium, low] to use. (In shipment: [medium]) Cannot adjust call sound to "none".
⑪ Speaking volume adjustment switch: Adjusting speaking volume transmitted from camera to monitor in 3 steps [high, medium, low] to use. (In shipment: [medium])
⑫ Camera section: Converts camera surroundings to visual signal and delivers to monitor.
⑬ Speaker
⑭ Microphone
⑮ Call button: Push this button for output of call sound from monitor.
⑯ Monitor connection wire: 4 wires by polarity
Blue : Vcc, Yellow : Ground, Red : Audio, White : Video
⑰ Extension monitor connection wire: DC 2 wires by non-polarity
FG : Frame ground
⑱ Door camera connection wire: DC 2 wires by non-polarity
⑲ Color adjustment volume: Adjust color on LCD screen. (In shipment, adjusted to standard color)
⑳ Dear2 – DC door switch terminal: Connects Camera2 DC door switch.
Call button: Connects Camera2 call switch.
Power input section: Input AC power and fix power cord.

[The back side]

Components of product

Name and Functions of each part

Camera (KC-MC24)

① White LED diffusion: Has built-in white LED that works at night and flickers when it gets dark around camera.
② Camera section: Converts camera surroundings to visual signal and delivers to monitor.
③ Speaker
④ Microphone
⑤ Call button: Push this button for output of call sound from monitor.
⑥ Monitor connection wire: 4 wires by polarity
Blue : Vcc, Yellow : Ground, Red : Audio, White : Video
⑦ DC door opener connection wire: DC 2 wires by non-polarity
⑧ FG : Frame ground
⑨ Screws for fixing main body on the wall
⑩ Screws for fixing camera to main frame supporter
⑪ Screws for fixing main body on the wall
⑫ Screws for fixing camera to main frame supporter
⑬ "L" wrench
⑭ Screw cap (KC-MC31)
⑮ Screws for fixing camera main body supporter
⑯ Screws for fixing camera

Specifications

<table>
<thead>
<tr>
<th>Model number</th>
<th>KCV-A374</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model number</td>
<td>KC-MC24</td>
</tr>
</tbody>
</table>

**MONITOR**

- **Power Source**: AC 100V~AC240V 50/60Hz
- **Power Consumption**: Stand by 0.8W (±20%), Max 13W (±20%)
- **Operating Temperature**: 0℃ ~ +40℃
- **Communication System**: Handsfree type
- **LCD**: 7 Digital LCD INTSC / PAL Auto switching
- **Camera**: 4 wire (Polarity)
- **Sub audio phone**: 6 wire (Polarity)
- **Extension monitor**: 8 wire (Polarity)
- **Mount Type**: Surface mount
- **Dimension**: 222(W) x 144(H) x 33(D) (mm)
- **Camera connection**: KC-MC24, KC-C60, KC-MC20, KC-MC30, KC-MC31

**DOOR/CAMERA**

- **Power Source**: DC 12V ± 2V (Power from Monitor)
- **Power Consumption**: Max 3W (±20%)
- **Operating Temperature**: ~10℃ ~ +50℃
- **Dimension**: 96(W) x 127(H) x 32(D) (mm)
- **Angle of Lens**: 1/4", 3.43mm/F.N02.5, 0.61
Camera installation

**Please check the Model Name of your door camera.**

**KC-MC24**

**Camera**

- [KC-MC24]

**Monitor**

- DC Electric Door Lock

**Power Supply**

- FG Non Polarity
- FG
- Power Supply

**Power Supply**

- DC Electric Door Lock

**KC-C60**

**Camera**

- [KC-C60]

**Monitor**

- AC/DC Electric Door Lock

**Power Supply**

- FG Non Polarity
- FG
- Power Supply

**Power Supply**

- DC Electric Door Lock

**KC-MC20**

**Camera**

- [KC-MC20]

**Monitor**

- DC Electric Door Lock

**Power Supply**

- FG Non Polarity
- FG
- Power Supply

**Power Supply**

- DC Electric Door Lock

**KC-MC30/31**

**Camera**

- [KC-MC30/31]

**Monitor**

- DC Electric Door Lock

**Power Supply**

- FG Non Polarity
- FG
- Power Supply

**Power Supply**

- DC Electric Door Lock
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 (top of piping) 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

Camera installation location

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

- Camera stack center (piping box) is above 1,390mm above ground level.

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

Caution of camera installation

- 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.

Product connection diagram

- Full system configurations

- Camera connection

Name of each connection port
**Product connection diagram**

- **Sub audio phone connection**
  - Sub audio phone (KDP-602G)
  - Monitor

  ![Sub audio phone connection wire spec]

  1. VCC
  2. GND
  3. AUDIO
  4. VCC
  5. DOOR1
  6. DOOR2

- **Ex_monitor connection**
  - ![Ex Monitor connection wire spec]

  1. VCC1
  2. GND
  3. AUDIO1
  4. VCC2
  5. VCC3
  6. AUDIO2
  7. VIDEO2
  8. DATA

- **Door lock connection**

**Instructions for operation**

- **Communication with door camera**
  - Push the call button. The camera melody is turned on.
  - You can hear call sound from all connected monitors, and camera image comes out on screen. (Standby time : 2 minutes)
  - Push the call button again and stop the communication.

- **Camera monitoring**
  - Push the monitor button when there is no image on monitor screen. Camera image appears on screen. (Monitoring time : 1 minute)
  - Push the monitoring button 2 times and the image of camera 2 appears.
  - Push the monitoring button again and stop the communication.

- **Opening door automatically**
  - While communicating with a camera, press the door open button and open automatically the door of the camera.
  - About 5 seconds after pushing the button, call ends automatically.
Instructions for operation

- **Extension call & communication**

  - **Internal call sending mode**
    - While the screen is off, push the call button for 1.5 seconds.
    - The screen turns on and INTERCOM Call is written on OSD. (INTERCOM Call Standby time : 1 minute)
    - When connected to the sub-monitor and sub-audiophone, the main monitor will show INTERCOM Talk on OSD and the communication turns on. (INTERCOM Talk time : 3 minutes)
    - Push the call button and stop INTERCOM Call.

  - **Internal Call Receiving Mode**
    - When receiving a call from Sub-monitor and sub-audiophone, the main monitor shows INTERCOM Call on OSD. (INTERCOM Call Standby time : 1 minute)
    - Push the call button and INTERCOM Talk starts.
    - Push the call button again and stop INTERCOM Talk.

- **Special function selection**

  - When the screen is off, push the monitor button for 4 seconds.
  - When the screen is on, Menu Mode OSD appears with the cursor.
  - Menu Mode will disappear automatically in 30 seconds. Push the monitor button for 4 seconds and Menu Mode will turn off.

  **MENU**
  - CAM1 : Bell 1 / 2 / 3 / 4 / 5
  - CAM2 : Bell 1 / 2 / 3 / 4 / 5
  - SUB : Bell 1 / 2 / 3 / 4 / 5
  - CAM1 View Time : 1MIN / CAM2 View Time : 1MIN

  **Cursor Guide**
  - UP : Push the monitor button
  - Selection : Push the call button
  - Down : Push the door open button

Wiring diagram (cable requirement)

- **Upto 100M : CAT5 cable**
  - Orange
    - W / Orange
    - Double up
  - Green
    - W / Green
    - Double up
  - Blue
    - W / Blue
    - Double up
  - Brown
    - W / Brown
    - Double up

- **Upto 50M : TIV 0.65㎟ cable**

- **Upto 100M : Over TIV 0.8㎟ cable**

- **Upto 150M : TIV 0.8㎟ cable + RG-59 / U**
  - RG-59 / U (Coaxial cable) for Video signal
  - Connect core to Video & shield to GND

※ Based on distance from a camera to the monitor
※ CAT5 wire configuration
※ In case of more than 50m of CAT5 cable length, the screen and voice quality can get lower. But the symptom is not a kind of fault. So less than 50m is recommended.

※ According to outside environment, you may view the images somewhat unclear. However, they do not result from any defect or trouble of the product.