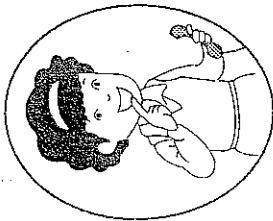


Warranty

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

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.

! "CAUTION: IT HAS POSSIBILITY TO HAPPEN INOPERABLE, AS THIS PRODUCT EXPOSED TO ELECTRON WAVE"

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

KVM-514R 02.07

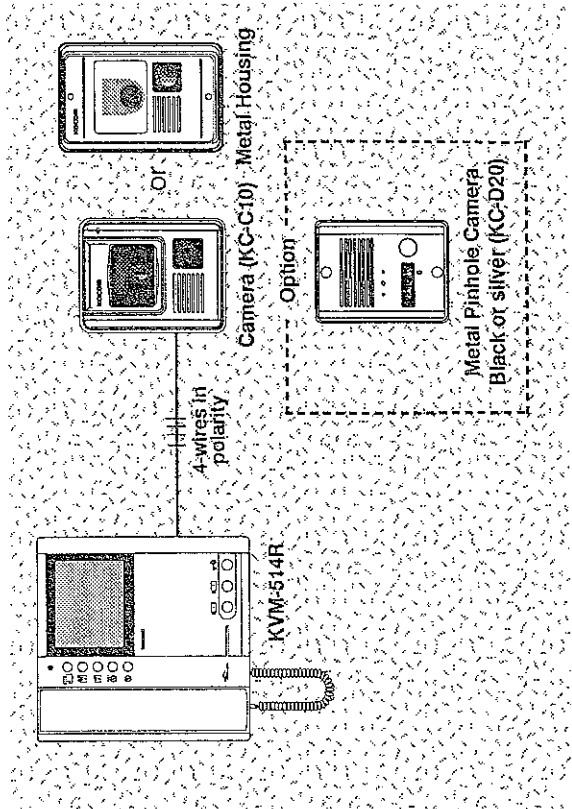
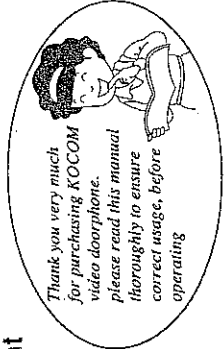


VIDEO DOORPHONE

KVM-514R Operating Installation Manual

Clear & Bright Picture at Low Light

- CCIR/EIA: 64 Images Recordable
- 4" Flat Monitor
- 4 Wired In polarity
- Easy Installation
- Wide view angle (120°)
- DC17V ± 1V
- Door release function
- Extension one more Camera
- Extension one more Monitor (Option: KVM-514S14R/S24R)

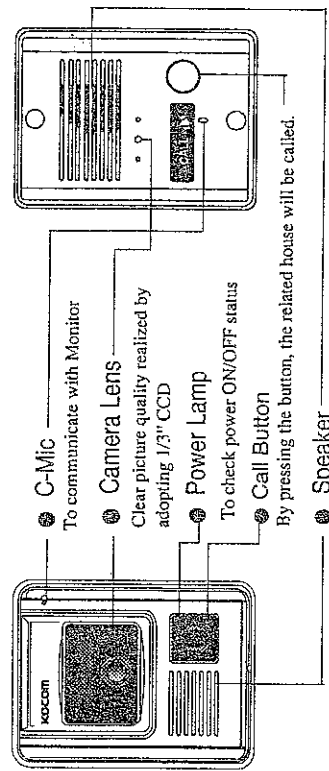


Name of each part

KVM-514R Monitor

- Manual/Auto recording Lamp** To communicate with door camera.
- Play Button** You can see the memorized images in order.
- Auto-Rec. Button** When you are out house the visitor's image can be recorded automatically.
- Manual Rec. Button** You can record visitor's image manually on purpose.
- Time mode Button** You can select the month, time, etc
- Time set Button** You can set up the month time, etc
- Power Lamp** To check power ON/OFF status
- Door Release Button** To open the door. It is available when the door equipment is installed
- Brightness Control Knob** To control brightness of monitor screen
- Contrast Control Knob** To control contrast of monitor screen.
- Call Signal**
- Volume Control Knob** To control calling signal volume.
- Power Switch**

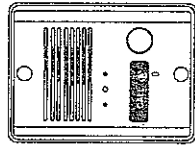
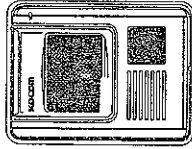
KC-C10 Camera & KC-D20 Metal Pinhole Camera



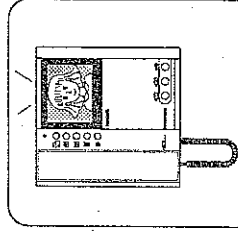
- C-Mic** To communicate with Monitor
- Camera Lens** Clear picture quality realized by adopting 1/3" CCD
- Power Lamp** To check power ON/OFF status
- Call Button** By pressing the button, the related house will be called.
- Speaker** When visitor calls on the phone, the sound of communication is amplified and it comes out of the speaker.

How to operate (Instruction for operating)

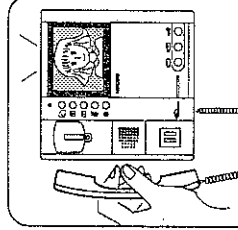
Identifying and talking to visitors



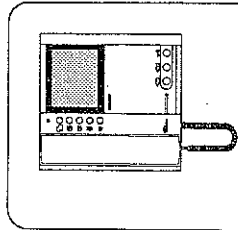
When visitor presses the call button of door camera.



1. Call signal rings from the monitor, while screen is turned on and visitor is appeared automatically.



2. Hold handset and identify visitor. Then, communicate with visitor. And, unless you replace handset within 30 sec., the monitor screen is turned off automatically.



3. After communications are finished, replace handset. However, if conversation continue more than 3minutes, monitor screen is turned off automatically. And if you want to communicate more time, press Camera button again.

Manual Record & Auto Record

1. **Manual Record** (REC): Please choose monitor image as pushing "Camera 1" or "Camera 2" button. And then the image will be recorded when you push "REC" button.
2. **Auto Record** (REC): If you push "AUTO-REC" button, the green LED lamp will turn on and the images will be recorded with blinking red color LED automatically when push camera's call button. (Auto-recording, is not available within 30 seconds after recorded)

Play Recorded Image

If you push "Play" button (PLAY), you can find one cut image with time in order from the latest images. It's not available with auto re-play for all images by one touch.

* In the case of full recorded images, it will be removed from the oldest image in order.

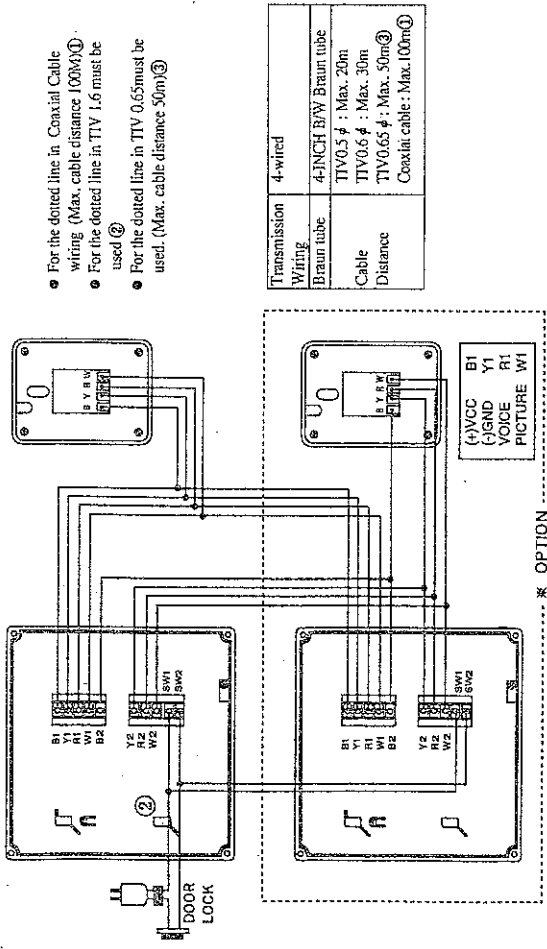
Time Setting

1. Turn on the monitor's screen as pushing camera 1 or camera 2 button
2. Press "Time Mode" (TM) (for 2 seconds), then appears "Time Mode" at the center of monitor's screen and "Minute" is on the blink.
3. Change the number as pushing "Time set" button (TS) & Select wanted number with "Time Mode" button. As like above method, set time & date continuously (minutes -> time -> date -> month -> year).
4. "REC" button :Down-Count, "Time set" button:Up -Count

Opening front door automatically

After communication with visitor, press door key button. Then, the door is opened automatically.

Video Doorphone Wiring Diagram



- For the dotted line in Coaxial Cable wiring (Max. cable distance 100m)①.
- For the dotted line in TV 1.6 must be used ②.
- For the dotted line in TV 0.65 must be used. (Max. cable distance 50m)③.

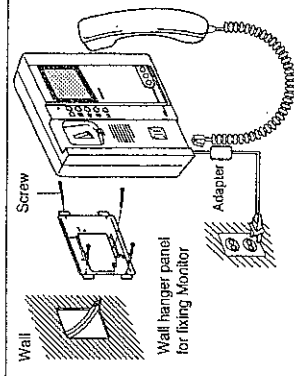
Transmission Wiring	4-wired
Braun tube	4-INCH B/W Braun tube
Cable Distance	TV0.5 φ : Max. 20m TV0.6 φ : Max. 30m TV0.65 φ : Max. 50m③ Coaxial cable : Max. 100m①

Caution for wiring

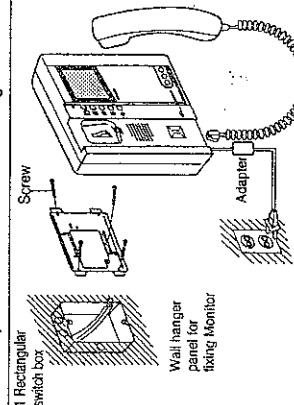
- A variable video doorphone wiring with TV 0.8mm is less than 50m in length.
- Connecting wiring between monitor and door camera should not be installed near other electrical cable, nor be horizontal. (In such case, clear picture can not be expected due to interruption by electrical noise)

Monitor Installation

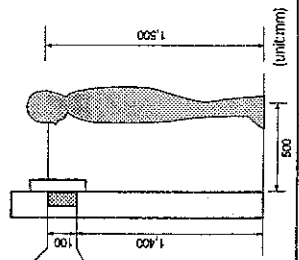
Basic installation method of Monitor



When system is attached to 1 rectangular switch box



Center of monitor



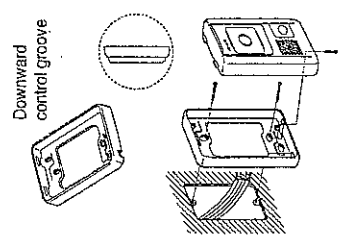
Standard height monitor

- Standard height of monitor is ranged 1,450 ~ 1,500 from bottom to the center of monitor screen.
- For installation, avoid the places where there is any excessive humidity, magnetic force, dangerous chemicals, direct ray of sun, and any places near a heater which can cause break down.

Door camera Installation

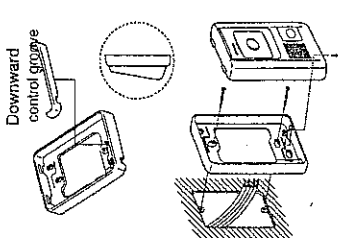
Surface-mounting Door Camera Installation

Straight Ahead Installation



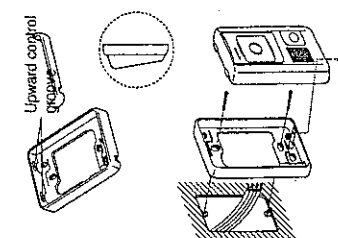
After attach the body supporter with 2 screws, put the Door Camera into the grooves of body supporter, and then fix it with a screw.

Looking "Upward" Installation



After attach the body supporter with 2 screws, insert the downward support into the downward groove of body supporter, and then fix it with a screw.

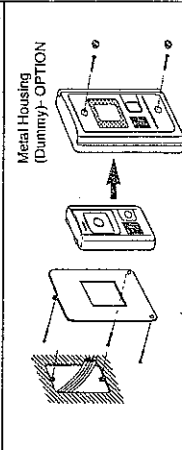
Looking "Downward" Installation



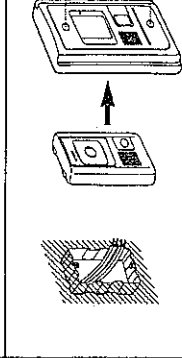
After attach the body supporter with 2 screws, insert the Door Camera into the upward control groove, and then fix it with a screw.

KC-C10 CAMERA, (Metal Housing-Option)

Installation method of Door Camera (Metal Housing)

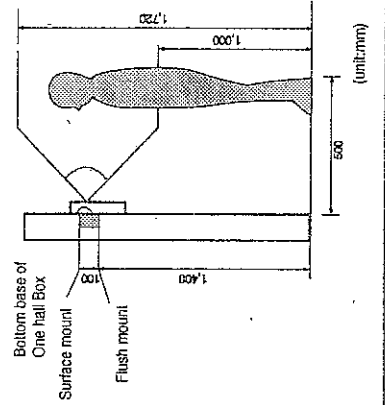


Flush Mounting Camera

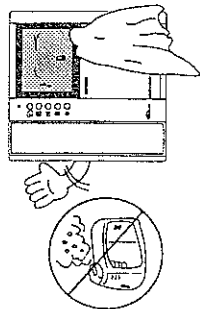


Standard Height of Door Camera

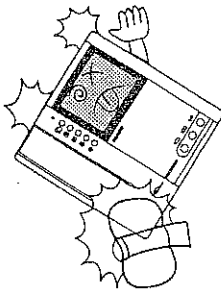
- Standard height of the door camera is 1,400mm ~ 1,450mm from the bottom of one camera to the floor.
- In case that the height of Door camera exceeds the range of min. 1,250mm ~ 1,550mm, it is impossible to control the screen picture with only the lens angle, and therefore, be careful of the height of camera installation.



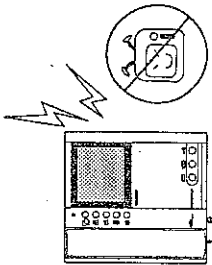
Precautions for Operation



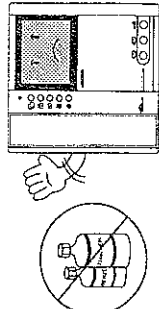
Keep away from humidifier and stove. High temperature and humidity can cause breakdown.



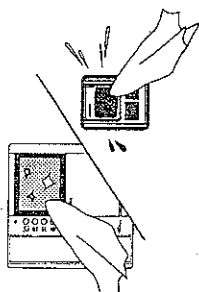
Do not drop monitor or door camera, and avoid strong impact.



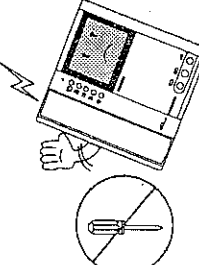
Keep away from devices generating strong magnetic field (TV, Speaker, etc.) (Picture can be disturbed or blurred and breakdown can result)



When cleaning, never use wet hands, volatile benzene or paint thinner.



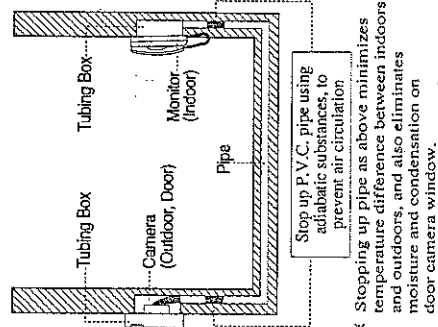
Keep picture clear by cleaning camera window frequently with soft cloths.



As this device consists of electronic precision components, and high voltage is generated internally, do not attempt to disassemble.

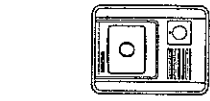
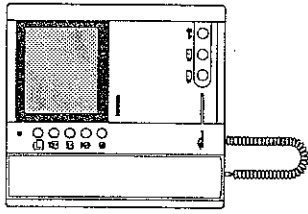
Installation Precautions

- Monitor and camera must be installed away from direct light and counter light.
- Camera must be installed at a place free from rain.
- Standard height of monitor must be 1,450mm~1,500mm from ground, centered around brawn tube.
- Camera should be installed on the wall in which cement is completely dry.
- If installed during winter season at temperature below -5° , condensation might be generated inside monitor and camera due to temperature difference between indoors and outdoors. To prevent breakdown due to such condensation, connection should be made in 2 hours or more after installation.
- Do not install monitor and camera in locations subject to direct heating as harmful gases may subsequently be emitted in significant amounts.



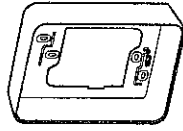
Component

● Monitor & Camera



- Main body supporter
- * Wall hanger panel is packed in the Camera

● Camera Accessories

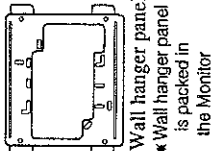


- Screw for fixing camera main body supporter
- Screw for fixing camera to panel.
- Screws for fixing camera wall hanger panel



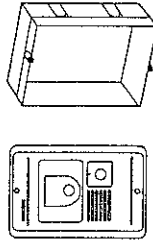
- Upward adjusting supporter for adjusting lens angle upward

● Monitor Accessories



- Wall hanger panel is packed in the Monitor
- * Wall hanger panel is packed in the Monitor
- Screws for fixing

● Flush-mounting Camera Accessories (OPTION) for KC-C10



- Flush-mount cabinet (Metal front)
- Rear Box



- Finishing rubber



- Screw Dummy

Specifications

Power source	DC17V ± 1V
Power consumption	Max:15W, Stand by : 2.5W
Ambient temperature	0°C ~ +50°C
Braun tube	4 inch Flat Tube (B/W)
Communication system	Duplex handset conversation
Call signal sound	Electric sound (Ding-dong / Ding-dong II)
Output Impedance	Picture : 75ohm, Voice : 600ohm
Wiring	4 Wired in Polarity (VCC / GND / VOICE / PICTURE)
Max Wiring Distance	φ 0.65 Single Cable/50m, 5C-2V Coaxial Cable/100m
Dimension	210(W) × 222(H) × 53(D)mm
Power source	DC12V ± 1V (power from Monitor)
Power consumption	Max: 2.5W
Assurance temperature	-10°C ~ +50°C
Scanning frequency	Horizontal: 15.734KHz, Vertical: 50Hz (CCIR)/60Hz (EJA)
Lens	F:2.0, f=3.0mm
Min. Illumination	0.1Lux (LED ON)
Dimension	96(W) × 127(H) × 32(D)mm
Illumination	Infra-red LED
Angle of picture	Diagonal 120°, 90° (KC-D20)
Color of KC-D20	Black or Silver

MONITOR (KVM-514R)

CAMERA (KC-C10) (KC-D20)