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COMMAX
SmartHome & Security

User Manual

Wide Color Video Phone CAV-43T2

www.commax.com

COMMAX Co.,Ltd.

Contents

1. Greetings

- Thank you for using the Commax video phone.
- Read these instructions for use carefully before using the product.
- The wall video phone that can be easily installed on a wall has been designed based on faultless digital circuit to realize quality picture.
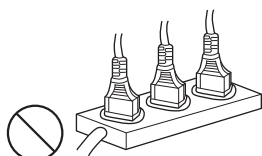
2. Warnings and caution

Make sure to follow the instructions to prevent any danger or property losses.

⚠ **Warning**

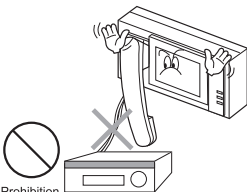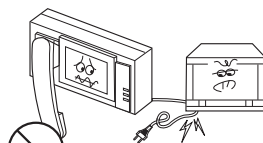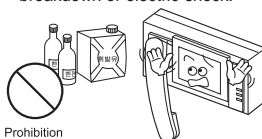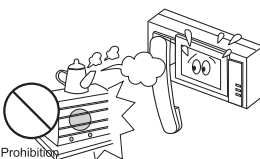|		
Do not put the plug in the socket simultaneously. ● It may generate abnormal heat or cause a fire. Prohibition	Do not connect to other products while in use. ● It may cause breakdown. Prohibition	Do not forcibly bend the cord or put a heavy object on the product. ● It may cause a fire. Prohibition
Do not use water, thinner or a detergent used to wash oil products when you wash the exterior. ● Make sure to wash it by using a dry cloth to prevent any breakdown or electric shock. Prohibition	Do not install the product in a humid place. ● It may cause an electric shock or a fire. Prohibition	Do not forcibly pull out the cord from the socket. ● If the cord is damaged, it may cause a fire or an electric shock. Prohibition
Do not put the plug in the socket with a wet hand. ● It may cause an electric shock. Do not contact.	Do not disassemble, repair or modify the product. ● It may cause a fire, an electric shock or an injury due to malfunction of the product. Do not disassemble	Do not use AC circuit breaker. ● It may cause an electric shock. AC circuit breaker
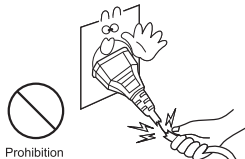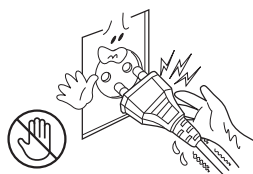
Warning and caution

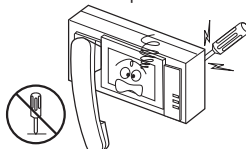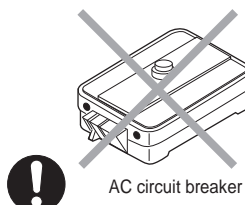|		
⚠️ Warning	Death or serious injury is expected.	🚫 It indicates prohibition.
		🔧 It indicates prohibition of disassembly.
⚠️ Caution	An injury or property losses are expected.	✋ It indicates prohibition of contact.
		❗ It indicates dos and don'ts.
		🔌 It indicates that the plug should be pulled out from the socket.

⚠️ Caution

If the socket holes are larger than normal, do not put the plug.
● It may cause an electric shock or a fire.

"The socket holes are larger than usual"
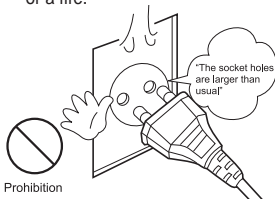
Prohibition

Make sure that dust or foreign substances are not gathered on the product.
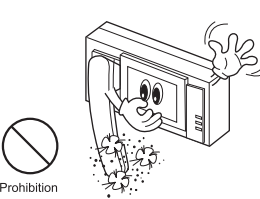
Prohibition

Make sure to prevent foreign substances from entering the product.
● It may cause a breakdown.
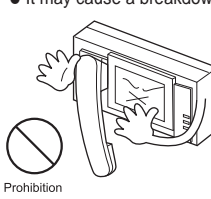
Prohibition

Do not put a heavy object on the product.
● It may cause a breakdown.
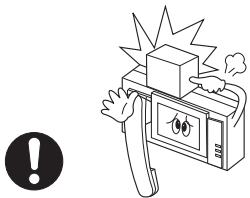
Do not disassemble or give an impact to the product.
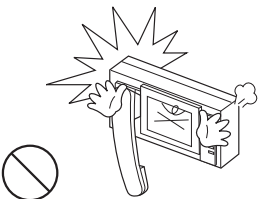
Prohibition

Avoid direct rays of the sun or heating devices at a time of installation.
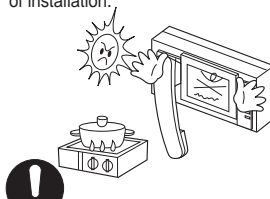
Install the product in a flat and stable place.
● Otherwise, it may not function properly.

OK
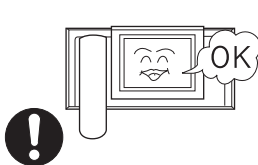
Pull the plug if the product is not used for a long time.
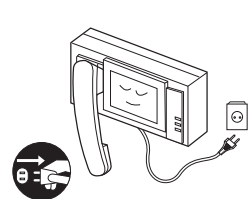
Pulling the plug

If the product generates strange sound, make sure to pull the plug immediately and contact Commax service center.
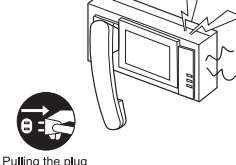
Pulling the plug

3. Name of each part and function

1) Monitor (CAV-43T2)

① Handset ② Speaker ③ Screen ④ Menu

⑥ Up button
⑦ Power LED
⑧ Door button
⑨ Telephone button
⑩ Mode button
⑪ Open button

⑤ DOWN BUTTON

⑫ Telephone Bell Volume
⑬ Brightness Control Volume
⑭ Contrast Control Volume
⑮ Color Control Volume
⑯ Power Switch

⑰ Handset jack
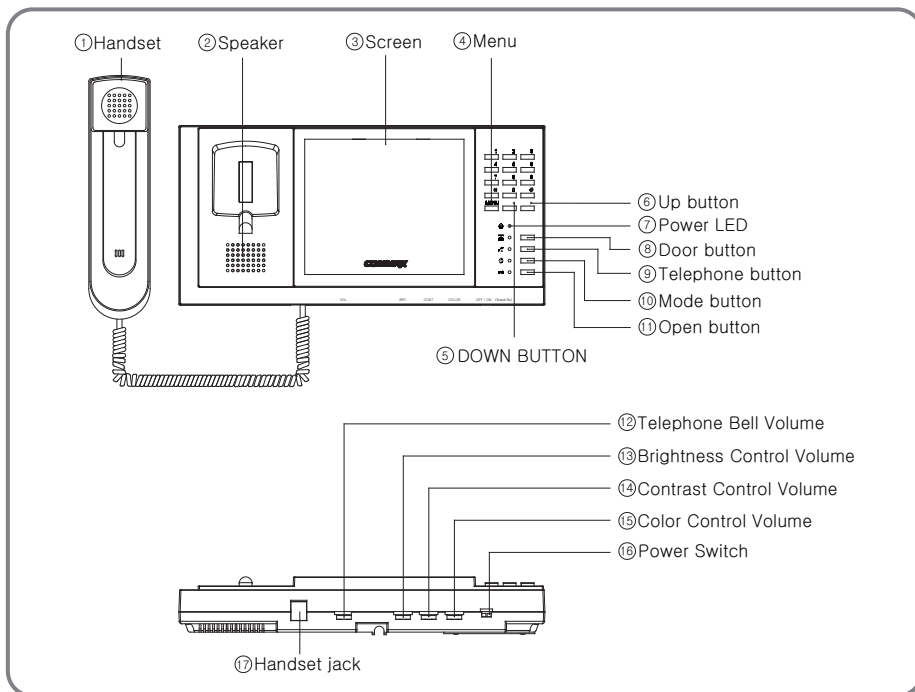
① HANDSET
② SPEAKER : The part which the call sound comes out
③ SCREEN
④ MENU BUTTON : To enter the menu for settings
⑤ DOWN BUTTON : Move left/down in the menu
⑥ UP BUTTON : Move right/up in the menu
⑦ POWER LED : LED is turned on in power on mode and light-out in power off
　　　　　　　　 mode
⑧ DOOR BUTTON : To check the situation of the entrance
⑨ TELEPHONE BUTTON : To call or answer the phone)
⑩ MODE BUTTON : To adjust LCD SCREEN RATIO(ZOOM / 4:3 / wide)
⑪ OPEN BUTTON : To release the door for visitor
⑫ TELEPHONE BELL VOLUME : to set the volume of telephone bell
⑬ BRIGHTNESS CONTROL VOLUME : to set the volume of BRIGHTNESS
⑭ CONTRAST CONTROL VOLUME : to set the volume of CONTRAST
⑮ COLOR CONTROL VOLUME : to set the volume of screen COLOR
⑯ POWER SWITCH : ON/OFF switch
⑰ HANDSET JACK

4. Parts list

① Body of CAV-43T2

② Manual

③ Screw for body(SCREW PHM 3X6 ZnY)...1EA

④ Screw for wall mount(SCREW GH1T 4X18 ZnW)..2EA

⑤ Bracket for wall mount

⑥ Camera connector (CONN. 4PX300) 2EA

⑦ Telephone connector(CONN. 2PX300) 1EA
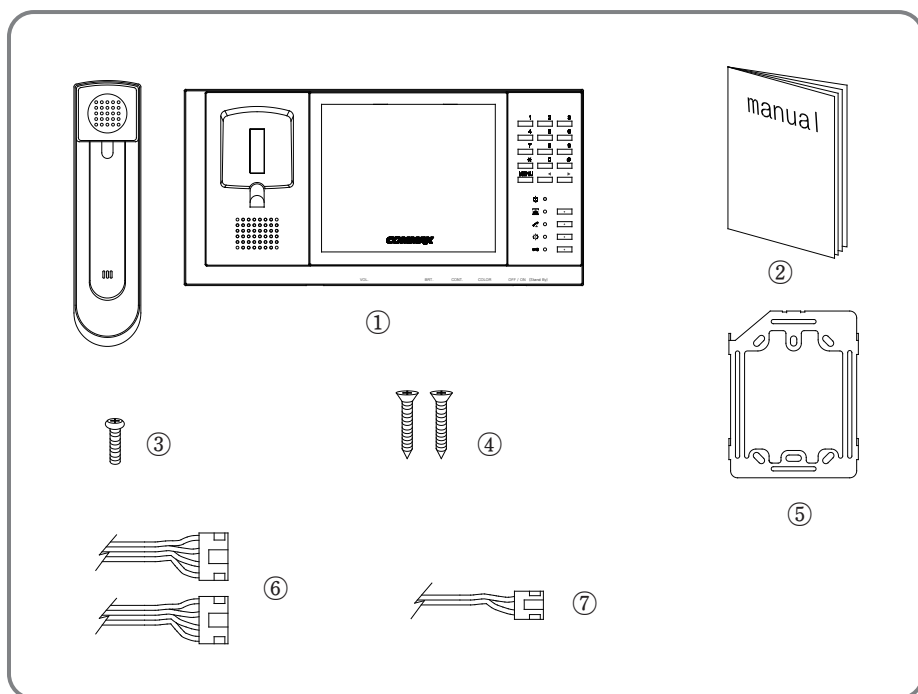
5. Installation

1) Installation Method of Monitor
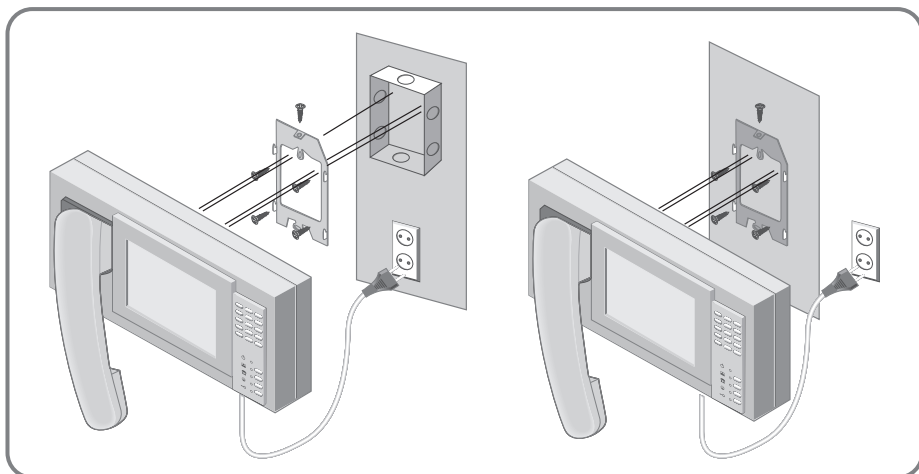
※ Note

- Avoid the range of direct sunlight

- The suitable height is 1,450~1,500mm from the floor.

- Avoid installing the product in the place with strong magnetism and much smoke or humidity,

2) Camera Installation

SCREW
PHM 3X6

SCREW CAP
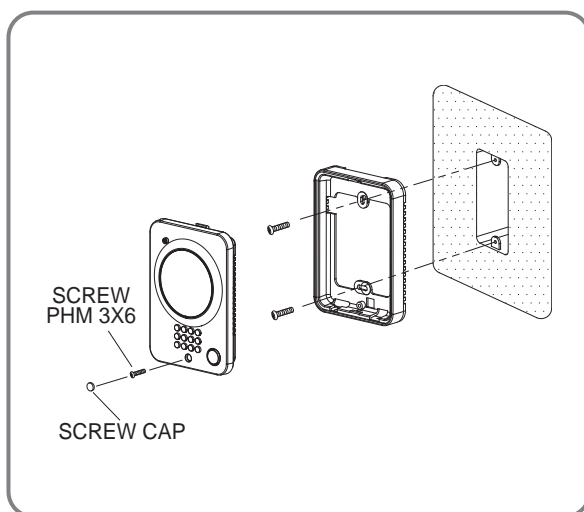
※ Note
- Avoid the range of back light or direct sunlight
- Keep cleaning up its lens to capture good views.

6. Wiring

※ The wiring of this equipment is as follows,.

CAV-43T2
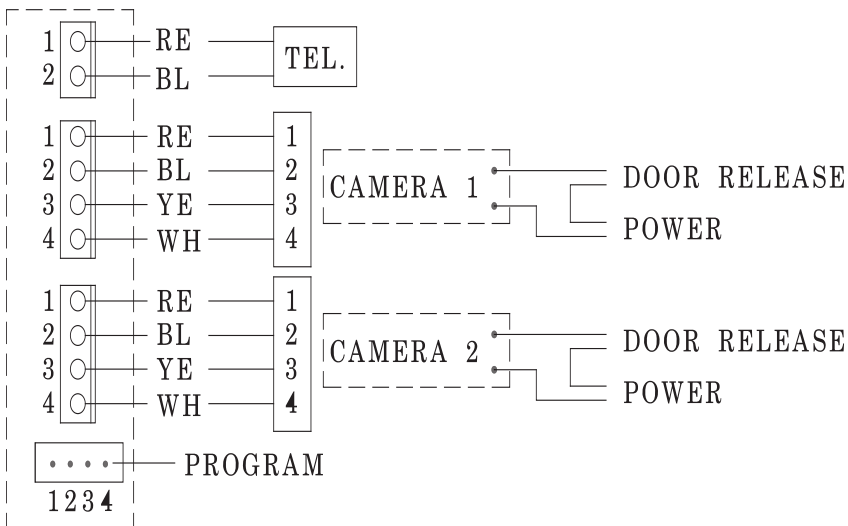
For better image quality when using UTP CABLE[CAT.5], connect the rest 4 lines to GND after connecting 4 lines with monitor and camera.

⚠ Wiring precautions

☞ Each device should be connected by separated cables.
To use CAMERA 1, CAMERA 2 and interphone using UTP CABLE[CAT.5], 3 lines of UTP cable are required.

■ DOOR Camera Wiring
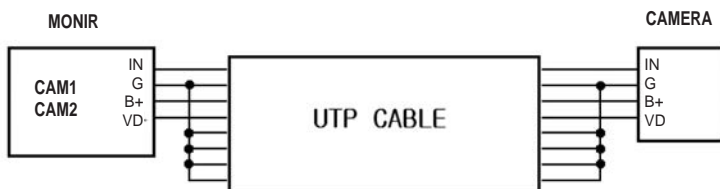
☞ if you use UTP CABLE[CAT.5], connect the rest 4 lines to GND after connecting 4 lines with monitor and camera.

7. How to use

1. Telephone
   1) To make a phone call
     Telephone lamp will be on and the bell sounds when the handset is picked up. If the call is answered, you can talk to answerer.
   2) To answer a phone call
    - If the phone rings, the telephone lamp blinks and phone bell sounds.
    - If you pick up the handset, the telephone lamp is turned on and you can talk to the caller.
   3) Door bell rings while on the phone
    - If door bell rings while on the phone(the telephone lamp is turned on), the door lamp blinks and it chimes.
    - If you press the door button(the door lamp is turned on), the call is disconnected and you can talk to the person at the door.
   4) You can control TELEPHONE BELL VOLUME.
   ∗ In case of emergency such as blackout, the local call is possible but the telephone lamp does not work.

2. Communication to a person at the door
   1) If someone at the door calls
    - It chimes, and the image of visitor is shown on the screen.
     (The screen and door lamp blinks for 30seconds after the call)
    - By picking up the handset, you can talk to a person at the door (the the door lamp is turned on)
     (You can talk for one minute from the time you picked up the handset.)
    - The door release works only during being on the phone. If you press door release button, the door is released with beep. (Please note that this function is possible only when the door camera is interlocked with door release function)
    - In order to talk for long time, Press door button after screen turns off so that you can continue talking.
   2) The phone rings while you are communicating to a person at the door
    - The phone rings during communicating to a person at the door (The door lamp is turned on) and the telephone lamp blinks.
    - Press the phone button while you are communicating to a person at the door.
    - The communication is disconnected and you are connected to the phone call. (The telephone lamp is turned on)
   3) Monitoring function
    - The screen is turned on if you press the door button in stand-by mode.
    - The screen will be turned on for 30 seconds after the time you press the door button.
    - By picking up the handset during monitoring, you can talk to a person at the door.
     (On stand-by mode)Operation == being put handset down
    - If you press the door button, the monitor works as follows in order.
     camera1 ➔ (camera2) ➔ OFF ➔ camera1 ....
     (During the communication with entrance)Operation == being picked handset up
    - If you press door button, the monitor works as follows in order.
     camera1 ➔ (camera2) ➔ camera1 ➔ (camera2) ....

3. Settings

For settings, use 3 buttons as follows.

MENU (Enter/Select/Exit) : MENU button

Move up / Move right : UP button   Move down/ Move left : DOWN button

∗ In order to set UTILITY and check product information(product name and version), press MENU button and then use UP/DOWN button during video telephony or monitoring mode.

3-1-1 UTILITY(additional function)

Press MENU button and use UP/DONW button to move Utility list and press MENU button again to select.

1) SPEAKER VOLUME : Adjustable ringtone which sounds when you answer the call from the door.

  ∗ Volume adjustment

  - Use UP/DOWN button to move SPEAKER VOLUME setting menu in UTILITY list

  - Press MENU button to enter.

  - Adjust it with UP/DOWN button.

  - If you finish the setting, press MENU button to exit.

2) SCREEN MODE : Adjustable screen ratio

  ① ZOOM : Zoom out image(full of the screen) is shown

  ② 4:3 : Ratio of 4:3 image is shown(This is actual ratio for camera)

  ③ WIDE: Ratio of 16:9 image is shown(full of the screen)

  ∗ Ratio adjustment

  ① Use UP/DOWN button to move SCREEN MODE setting menu in UTILITY list

  ② Press MENU button to enter.

  ③ Adjust SCREEN RATIO with UP/DOWN button.

  ④ If you finish the setting, press MENU button to exit.

3) EXIT : Back to UTILITY list(3-1-1)

3-1-2 INFORMATION (To check model name and version)

In order to check the product information, press the MENU button and enter the INFORMATION with UP/DOWN button during video telephony or monitoring mode.

1) Model : You can check the model name

2) Version : You can check the model version

3) VIDEO : You can check the video transmission formats(NTSC/PAL)

4) SOURCE : You can check the position of camera(DOOR1 / DOOR2) which is shown on the screen for now.

3-1-3. EXIT(Finish setting)

4. Image setting(BRIGHTNESS / CONTRAST / COLOR adjustment)
- It is possible to control when the screen is on.
- Adjustable image setting with BRIGHTNESS / CONTRAST / COLOR CONTROL VOLUME at the bottom of the product when the screen is on.

5. SCREEN MODE (Adjustable screen ratio)
① ZOOM: Zoom out image(full of the screen) is shown
② 4:3: Ratio of 4:3 image is shown(This is actual ratio for camera)
③ WIDE: Ratio of 16:9 image is shown(full of the screen)
＊ Ratio adjustment
The image setting mode will be sequentially operated (ZOOM -> 4:3 -> WIDE) when user presses the MODE BUTTON during video telephony or monitoring mode and also the word which means ratio pop up on the top of the screen.

8. When the product does not function properly

If the monitor is not turned on ➡

Checkpoint 1   Check if the power has been turned on.

Checkpoint 2   Check the voltage.

Checkpoint 3   Check the connection.

If you cannot hear any sound. ➡

Checkpoint 1   Check if volumn switch

If picture quality is bad and it trembles. ➡

Checkpoint 1   If the picture is not clear, adjust brightness and color.

Checkpoint 2   Check if it is well connected.

Checkpoint 3   If the picture trembles up and down when dark pictures are replaced with bright pictures, adjust contrast.

9. Caution in use

■ Do not install the product close to such electronic goods as TVs and videos. (It may have adverse effect on the screen.)
■ Do not install the product where ammonia, acidic materials and poisonous gases are generated. (It may cause a breakdown.)
■ Do not install the product where there are direct rays of the sun or strong reflection.
■ Do not drop, give a strong impact and shook the product. (It may cause a breakdown or damage.)
■ Do not place the product where water drops or splatters and put an object with water like a vase on it.
■ If the product is damaged or wet, do not wash it with volatile materials but use a neutral detergent and then clean it with a smooth cloth. Do not touch it with wet hands.
■ Do not put multiple plugs to one socket at the same time. (It may cause a fire or a breakdown.)
■ Do not spread water on the door camera. (It may cause a breakdown.)
■ Since high-voltage electricity flows in the inner circuit, do not disassemble the product at will. (It may cause a breakdown or an electric shock.)
■ Do not use AC circuit breaker. (It may cause an electric shock.)

10. Specification

Model name / Dimension	CAV-43T2
Rating Voltage	100-240V~, 50/60Hz (FREE VOLTAGE)
Consumption	Stand-by : 4W Working : 15W(MAX)
Transmission	Entrance 4wires polarity, Telephone 2wires
Screen size	4.3" TFT-DIGITAL LCD
Call mode	DUPLEX
Ringing sound	Entrance : electronic chime Telephone : electronic ring
Video receiving time	60 ±10sec (Communicating) 30 ±10sec (Monitoring)
Communication distance (Cable thickness)	28m(∅0.5) / 50m(∅0.65) / 70m(∅0.8)
Temperatures	0 ~ +40°C (32°F ~ 104°F)
Exterior dimension	290(W)X140(H)X42(D)

COMMAX