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**COMMAX**  
SmartHome & Security

# User Manual

Color Video Door Phone CAV-43MG



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**COMMAX Co.,Ltd.**



- Thank you for purchasing COMMAX products.
- Please carefully read this User's Guide (in particular, precautions for safety) before using a product and follow instructions to use a product exactly.
- The company is not responsible for any safety accidents caused by abnormal operation of the product.



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
## 1. Greeting

- Thank you for purchasing a COMMAX product
- Please, use the product after carefully reading this Manual
- This type of videophone can be used in apartments, villas and other buildings as a multifunctional device with door opening, telephone conversation and guard station control function




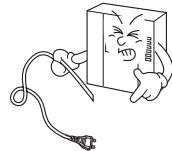



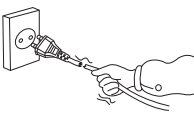


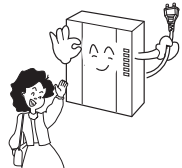


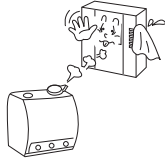



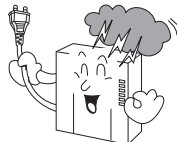






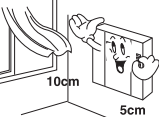




## 2. Warnings and caution

Please follow the things described below in order to prevent any danger or property damage.

|  |  |
|--|--|
|  <b>Warning</b><br>It may cause a serious damage or injury if violated.<br><br> <b>Caution</b><br>It may cause a minor damage or injury if violated. |  Prohibition.<br> No disassembly<br> No touch<br> Must follow strictly.<br> Shows plugging out the power cord without an exception<br> Shows the warning and caution for an electric shock.<br> Shows the warning and caution for a fire. |
|--|--|

### Warning

|                                 |   |   |  |  |
|---------------------------------|---|---|--|--|
| <b>Power &amp; Installation</b> | <p>Please don't use several products at the same time on one power socket.<br/>· It may cause a fire due to an abnormal overheating.</p>  <p>  화재</p>   | <p>Please don't bend the power cable excessively or it may cause an electric shock.<br/>· fire when using a damaged power cable.</p>  <p>  감전  화재</p> | <p>Please don't handle the power cable with a wet hand.<br/>· It may cause an electric shock.</p>  <p>  화재</p>  | <p>Please plug out the power cable from the socket when not using it for a long period of time.<br/>· It may shorten the product lifespan or cause a fire.</p>  <p> 요령  화재</p>                                       |
|                                 | <p>Please don't install the product in the place where there is much oil, smoke or humidity.<br/>· It may cause an electric shock or fire.</p>  <p>  감전  화재</p> | <p>Please don't install the product with the lightning and thunder.<br/>· It may cause an electric shock or fire.</p>  <p>  감전  화재</p>              | <p>Please don't use and connect this product with other products with different rated voltage<br/>· It may cause a disorder or fire.</p>  <p>  화재</p> | <p>When installing the product that generates heat, please install the product away from the wall (10cm) for the ventilation.<br/>· It may cause a fire due to the increased internal temperature.</p>  <p>  화재</p> |

## ! Warning

### Cleaning & Use

Please don't disassemble, repair or rebuild this product arbitrarily (please contact the service center if a repair is needed).

- It may cause an electric shock or fire.



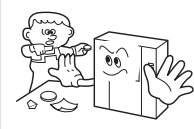
If an abnormal sound, burning smell or smoke is coming out of the product, please plug out the power cable and contact a service center.

- It may cause an electric shock or fire.



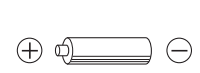
Please don't insert any metallic or burnable materials into the ventilation hole.

- It may cause an electric shock or fire.



Please use only the designated batteries for the products of using DC power.

- It may cause an electric shock or fire.

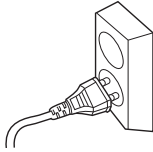


## ! Caution

### Power & Installation

Please plug the power cable firmly into the inner end.

- It may cause a fire.



Please hold the plug tightly when unplugging the power cable (a part of the copper wire may be disconnected if the grabbing is only made on the cord when pulling out the cable).

- It may cause an electric shock or fire



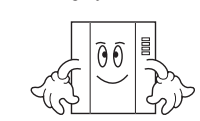
When connecting the power cables after cutting the cable, please install the product with power off

- It may cause an electric shock or fire

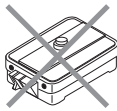


When installing the product, please fix it firmly while using the wall-mounting unit and screws.

- It may cause an injury from the falling object.



Please be careful when using an AC circuit breaker since there is a possibility of an electric shock.



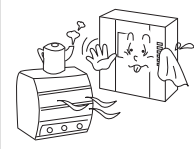
Please check the use voltage and current for the DC-only products and use the appropriate rectifier.

- It may cause a fire.



Please avoid direct rays of the sun or heating devices at a time of installation.

- It may cause a fire.



Please don't install the product on an unstable place or small support board.

- It may cause an injury if it falls down while in use.



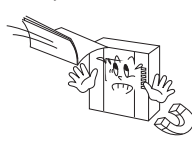
### Cleaning & Use

When cleaning the product, please rub it with a soft and dry cloth after plugging out the power cable. (Please don't use any chemical products such as wax, benzene, alcohol or cleanser.)



Please don't drop the product on the ground and don't apply a shock.

- It may cause a failure.



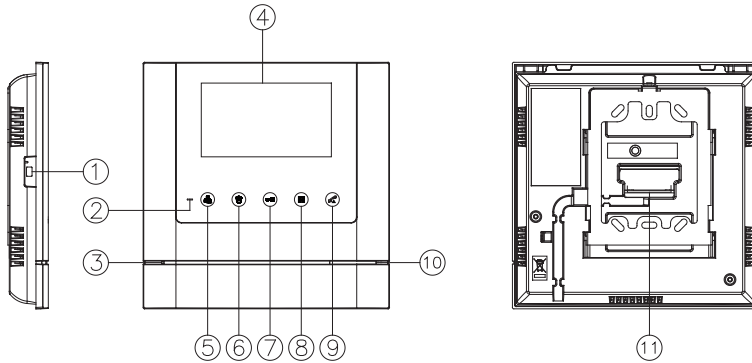
Please use the designated connection cable within the maximum calling distance designated for the product

- It may reduce the product performance.





### 3. Part names and functions



| 번호 | 내 용  | 번호 | 내 용  |
|----|--|----|--|
| 1  | Power ON/OFF switch                          | 7  | Door release button (UP button) : It's for door release or moving to the other menu item |
| 2  | Power LED                                    | 8  | MENU(Menu button)  |
| 3  | Microphone                                   | 9  | Talk button  |
| 4  | Monitor(LCD) : It shows the visitor's image. | 10 | Speaker  |
| 5  | Monitor button(SELECT button)                | 11 | Terminal for external connection   |
| 6  | Guard button (DOWN button)                   |    |  |

1. Power ON/OFF switch : It's for the product's ON/OFF.
2. Power LED : It shows the product's ON status.
3. Microphone
4. Monitor(LCD) : It shows the visitor's image.
5. Monitor button(SELECT button) : It shows the status of camera, during the menu selection.
6. Guard button (DOWN button) : It's for calling to the guard station or moving the other menu item.
7. Door release button (UP button) : It's for door release or moving to the other menu item
8. MENU(Menu button) :  
It's available to move to product's setup menu for adjusting the screen and receiver volume.
9. Talk button: It is used for a response to a visitor's calling and talk.
10. Speaker
11. Terminal for external connection :  
It's for the connection of door camera and lobby and guard station



## 4. Operating

### 4-1. Call from door camera

- ① When a visitor at the door calls, it chimes and the image of the visitor is shown on the screen.
- ② By pressing MONITOR BUTTON, you can talk to a person at the door. If you press DOOR RELEASE BUTTON, the door is released.  
(It is possible only when the door camera is interlocked with door release function)
- ③ The chime bell rings when there is a call from (common entrance/guard station) while you are communicating with a person at the door. If you press the button (common entrance : MONITOR BUTTON / guard station: guard button), the phone call from the door is cut off and then a call from common entrance or guard station is connected.
- ④ The screen is turned off automatically after 60seconds from starting talking. If you want to check screen again, please press MONITOR BUTTON
- ⑤ To finish to talk, press TALK BUTTON

### 4-2. Call from lobby phone

- ① When a visitor at common entrance calls, it chimes and the image of the visitor is shown on the screen.
- ② By pressing MONITOR BUTTON, you can talk to a person at the common entrance.  
(The screen is turned off automatically after 60 seconds from pressing MONITOR BUTTON to talk.)
- ③ The chime bell rings when there is a call from door while you are communication to a person at the common entrance. If you press MONITOR BUTTON, the phone call from common entrance is cut off and then a call from the door is connected.
- ④ If you DOOR RELEASE BUTTON while you are communicating with a person at common entrance, common entrance is released with door release sound and the phone call is cut off.

### 4-3. Talk with guard station

- (1) Call from guard station
  - ① it chimes when there is a call from guard station.
  - ② By pressing GUARD BUTTON to talk.
  - ③ If there is a call from door while you are communicating with a person at guardstation, it chimes and the image of visitors is shown. If you press MONITORBUTTON, the phone call from guard station is cut off.
- (2) To make a phone call to the guard station
  - ① By pressing GUARD BUTTON, you can call the guard station.
  - ② If someone at the guard station answers your call, you can start to talk.

#### 4-4. Monitoring

(1) In case both lobby and individual cameras are installed Click the monitor button once in standby mode to check the images from Individual camera. Click the button twice for Lobby images and three times for returning to standby mode. (Note. It is not available during the talk. During the monitoring

- (Calling is available with the camera by pressing the talk button during the monitoring.)

(2) In case only lobby is installed

Click monitor button once in standby mode to check the images from the lobby and click the button twice to return to standby mode

- (Calling is available by pressing the talk button during the monitoring.)

#### 4-5. Interlocking with Digital Door Lock

This product can be interlocked with Digital Door Lock via RF module and please refer to connection diagram.



## 5. Set up

- Use 4 function keys positioned right side of the product.

Start or end menu : MENU

Select or Input : SELECT button(Monitor button)

Move upward / Move right : UP button (Door release button)

Move downward / Move left : DOWN button (Guard station button)

#### 5-1. Screen and receiver volume adjustment

Press the MENU button in use of conversation or monitoring, then adjust DOOR(LOBBY), VIDEO SET, UTIL SET and INFORMATION using UP/DOWN button.

##### 5-1-1. DOOR(LOBBY) VIDEO SET(Adjusting BRIGHTNESS/CONTRAST/COLOR)

In video adjustment mode 5-1, move to DOOR(LOBBY) VIDEO SET and press SELECT button (LOBBY VIDEO SET should be done during calling from lobby phone or talking with lobby phone)

(1) BRIGHTNESS : Adjust BRIGHTNESS

(2) CONTRAST : Adjust CONTRAST

(3) COLOR : Adjust COLOR

※ Adjusting Brightness/Contrast/Color

- ① Move to DOOR(LOBBY) VIDEO SET in display setting mode 5-1 and press SELECT BUTTON. And then press the SELECT button with UP/DOWN button, move to the related item.
- ② Press the SELECT button to enter the menu.
- ③ Adjust the values with UP/DOWN button

④ After adjusting, press the SELECT button and save the setup.

(4) RESET : It initializes the screen setup.

※ Setting Method

- ① In Setting mode to move DOOR VIDEO SET please press SELECT button  
Press UP/DOWN button to move RESET category.
- ② Press SELECT button to select category.
- ③ Press UP/DOWN button to select YES.
- ④ Press SELECT button

[Precaution: Screen Setting and Reset functions must be adjust separately ( DOOR / LOBBY )]

(5) EXIT : Return to previous MENU.

#### 5-1-2. UTILITY (Other Functions)

5-1-2 In Screen Setting Mode move to UTILITY Option and press SELECT button to enter to the MENU.

(1) SPEAKER VOLUME : Adjust the volume for receiver sound

※ Setting Method

- ① In Setting Mode to move UTILITY option and press SELECT button to control UP/DOWN button to move SPEAK-VOLUME category.
- ② Press SELECT button to select category.
- ③ Press UP/DOWN button to set Volume control.
- ④ When you set, press SELECT button to save

(2) SCREEN MODE : to set screen ratio

- ① 5-1In Setting Mode to move UTILITY category and press SELECT button to move SCREEN MODEL by UP/DOWN button.
- ② Press SELECT button to select category.
- ③ Press UP/DOWN button to set screen rate and then please press SELECT button to save.
  - ZOOM: 4:3 Ratio ZOOM IN (Expanded image of Real Rate),
  - 4:3: Real Ratio of the Camera Image.
  - WIDE: Image of 16:9 Ratio will be shown on the screen.

(3) EXIT : Return to previous MENU.

#### 5-1-3. CHIME-BELL VOLUME

In Screen Setting Mode move to UTILITY Option and press SELECT button to enter to the MENU.  
UP Button ( OPEN ) DOWN Button ( GUARD ) UTILITY ( EXTRA FUNCTION & INFORMATION )

(1) CHIME-BELL VOLUME : To set calling mute and adjust volume

※ Setting Method

- ① 5-1-2 Move to UTILITY category and press SELECT button(Monitor) to move CHIME-BELL VOLUME by UP/DOWN button.

- ② Press SELECT button to select category.
  - ③ Press UP/DOWN button to control CHIME-BELL VOLUME. The user can check all of CHIME-BELL VOULME size.
  - ④ Press the SELECT button when you set up.
- (2) EXIT : Return to previous MENU.

## 5-2. System Configuration

In Stand By Mode press the Menu button for 3 seconds to enter the System Setting Mode.

UP BUTTON-OPEN DOWN BOTTON-GUARD HOME SET-HOUSEHOLD AN INFORMATION

### 5-2-1. HOME SET (Input the Residence Information)

5-2 Press the moving button in System Setting Mode to move to HOME SET and press SELECT button.

(1) HOME ID : Adjust the Building / Apartment Number Information.

※ Configuration Method

- ① Press the moving button in System Setting Mode to move to HOME SET and press SELECT button. Press UP/DOWN button to move HOME ID.
- ② Press SELECT button to select category.
- ③ It will be display actual builing number/house number in monitor.  
[Default Value is Building 1234 – Apartment Number 5678]
- ④ Press UP/DOWN button to select number and input the number.  
: It is in total 8 digits, and must not have empty  
(Ex : In case of Building 101 , Apartment No. 1 ( Input 0101 – 0001)
- ⑤ If you finish to input the last 8 digits please press the SELECT button to save.

(2) PASSWORD : Password setting of the residence

※ Configuration Method

- ① 5-2 First move to HOME SET and press SELECT button and move to PASSWORD by UP/DOWN button.
- ② Press SELECT button to select category.  
(To move PASSWORD category and press SELECT button to enter PASSWORD Mode)
- ③ Press UP/DOWN button to select number and input the number.  
(Input the new PASSWORD and automatically saved as 1234 and then you have to reset PASSWORD.)  
[Precaution : Avoid repetitive numbers. For security propose 0000, 1234 and 4321 can't be used as PASSWORD]
- ④ When you finish to input number and Press SELECT button to save. Press SELECT button to save the configuration.

(3) LOBBY ID : If connect up to 2 lobby phones, you have to sletct main Lobby phone.

※ Setting Method

- ① 5-2 In SYSTEM SETTING MODE to move HOME SET category and press SELECT button to move LOBBY ID by UP/DOWN button.
- ② Press SELECT button to select category (Standard: 01)
- ③ Press UP/DOWN button to input from 01 to 39. (MAIN LOBBY ID)
- ④ Press SELECT button to save the configuration.

(4) EXIT : Return to previous MENU.

5-2-2. INFORMATION (Product and Version Information)

5-1 When you move the INFORMATION category Product Information will be shown.

- (1) MODEL : Display Product Name.
- (2) VERSION : Display the Product Program Version.
- (3) HOME ID : Display Residence Building / Apartment Number Information.
- (4) VIDEO : The monitor (LCD) display for video standard transmission method.
- (5) TOUCH : Display the Touch Program Version.
- (6) SOURCE : The monitor(LCD) display the position of camera currently  
(LOBBY/COMMONENTRANCE)



## 6. RESET

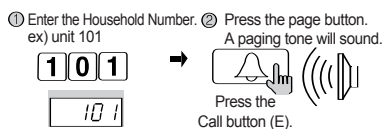
In Stand By Mode press the door release button and Guard button for 3 seconds to initial.

- ※ Precaution :When you reset all of the program please be careful to erase all of the informations ( Screen , CHIME-BELL VOULME,households and building number etc.)

## 7. The use of lobby phone (In case there are common lobby)

### 1) When paging the household

- Enter the household number you want to call.  
ex) household 101 ⇒ 1, 0, 1
- Household number appears on FND
- Press the Call button (E)
- Conversation begins when they answer.

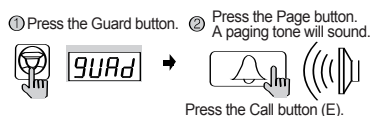


③ Wait for a reply



### 2) When paging guard station

- Press the guard button
- 'gUAd' appears on FND
- Press the Call button (E)
- Emit call house along with flickering of 'gUAd'.
- Conversation begins when guard station answers.



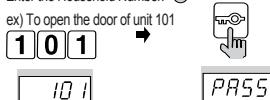
③ Wait for a reply



### 3) Opening the door with RF card

- Press the Household number
- Press the Key button (K)
- Letters of 'PASS' flicker on the FND.
- Press the 4-digit password.
- Appears '----' on the FND.
- Press the Call button
- Door is open with flickering of 'oPEn' on FND.

① Enter the Household Number. ② Press the Electronic key button.



③ Enter the Household PIN. ④ Press the Page button.



#### [Reference for use]

Contact guard station or management station if you don't remember the password

### 4) Opening the door with registered RF card (optional function)

- Put the RF card on the sensor positioned right below of camera lens to open the door. Door will be opened along with a message of 'oPEn' on FND.



#### [Reference for use]

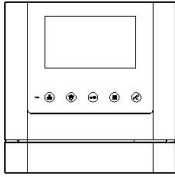
1. If you try to open the door with unregistered RF card, it will be notified to guard station. Please try again after registering it at the guard station or management office.
2. If RF card still doesn't work after proper registering procedure, it is not usable card.



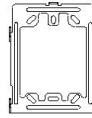




## 9. PART NAME AND FUNCTIONS



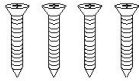
① Body of CAV-43MG



② Bracket for wall mount



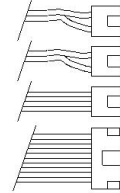
③ Manual



④ T4 X 18(4EA)  
Screw for wall mount



⑤ M3 X 6(1EA)  
Screw for body



⑥ 2P Connector(2EA)  
4P Connector(1EA)  
10P Connet(1EA)



## 10. Specifications

| 제원                | 모델명 | CAV-43MG   |
|-------------------|-----|--|
| Wires             |     | Individual door : 4 wires(polarity), Lobby : 8 wires(polarity)                             |
| Power source      |     | 100-240V~, 50/60Hz (FREE VOLTAGE)  |
| Power consumption |     | Operation : 10W, Standby : 4W  |
| Communication     |     | Full Duplex communication  |
| Screen            |     | 4.3" TFT LCD   |
| Ring tone         |     | Individual door : Electric sound(3 tones 2 consecutive).<br>Guard station : Electric chime |
| Talk Duration     |     | Standby : 30sec, Call time : 60sec, Guard 180±10sec  |
| Distance          |     | Individual camera : 28m(Ø0.5) / Common lobby : 300m(UTP)<br>Guard station : 1Km(Ø0.5)      |
| Temperature       |     | 0 ~+40℃ (32°F ~ 104°F)   |

# **COMMAX**

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