

*Since 1968*

**COMMAX**  
SmartHome & Security

# User Manual

Color video door phone CDV-70K



[www.commax.com](http://www.commax.com)

**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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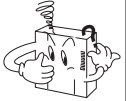








## 1. Warnings and caution

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

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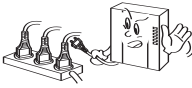
## Warning& Caution

<b>Cleaning &amp; Use</b>	<p>Please don't disassemble, repair or rebuild this product arbitrarily (please contact the service center if a repair is needed).</p> <p>· It may cause an electric shock or fire.</p>   <p>No disassembly</p>    <p>Electric shock Fire Unplug</p>	<p>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.</p> <p>· It may cause an electric shock or fire.</p>    <p>Electric shock Fire</p>	<p>Please don't insert any metallic or burnable materials into the ventilation hole.</p> <p>· It may cause an electric shock or fire.</p>     <p>Prohibition Electric shock Fire</p>	<p>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.)</p>   <p>Prohibition</p>
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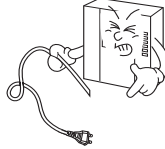
## ⚠ Warning & Caution

### Power & Installation

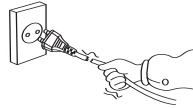
Please don't use several products at the same time on one power socket.  
· It may cause a fire due to an abnormal overheating.



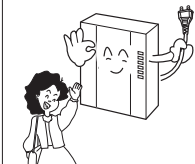
Please don't bend the power cable excessively or it may cause an electric shock.  
· fire when using a damaged power cable.



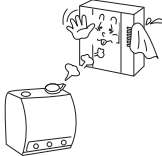
Please don't handle the power cable with a wet hand.  
· It may cause an electric shock.



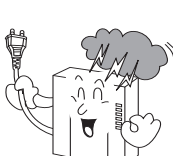
Please plug out the power cable from the socket when not using it for a long period of time.  
· It may shorten the product lifespan or cause a fire.



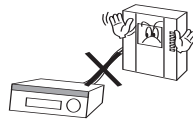
Please don't install the product in the place where there is much oil, smoke or humidity.  
· It may cause an electric shock or fire.



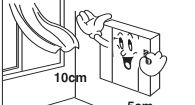
Please don't install the product with the lightning and thunder.  
· It may cause an electric shock or fire.



Please don't use and connect this product with other products with different rated voltage.  
· It may cause a disorder or fire.

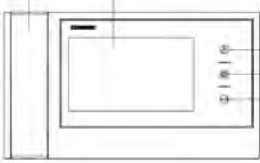


When installing the product that generates heat, please install the product away from the wall (10cm) for the ventilation.  
· It may cause a fire due to the increased internal temperature.



## 2. Parts Names

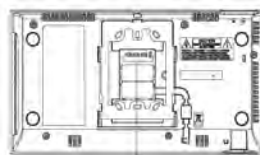
Handset Monitor



Monitor Button  
Interphone Button  
Door Release Button



Ringtone Volume  
Menu Button  
Select Button  
Up/Down Button  
Power Switch

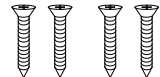


External Connection  
Terminal

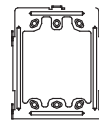
## 3. Package Contents



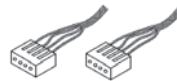
Monitor Fixing  
M3X6 Screw(1EA)



Wall Bracket Mounting  
Screw T4X18(4EA)



Wall Bracket  
for Monitor(1EA)



Connector 4P(2EA)



User Manual



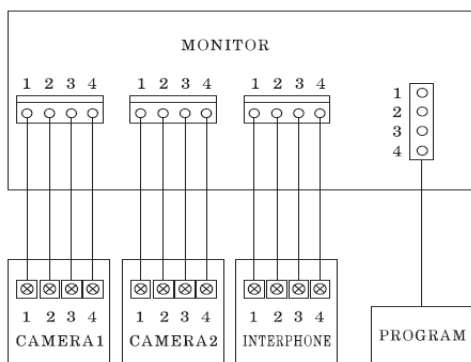
## 4. Wiring and Connection Instructions

### ▷ Polarity of the camera connector

1. Red: Talk (Audio)
2. Blue: GND
3. Yellow: Power (+12V)
4. White: Video

### ▷ Polarity of interphone connector

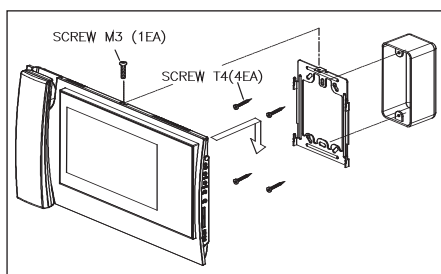
1. Red: Talk (Audio)
2. Blue: GND
3. Yellow: Power (+14V)
4. White: Call signal



\* Each device should be connected by separated cables.  
If you use UTP CABLE[CAT.5] for CAMERA1 and CAMERA2, 2 lines of UTP cable are required.



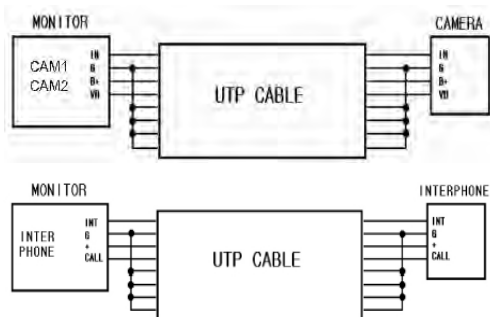
## 5. Installation



### ⚠ Note

- ① Avoid the range of direct sunlight
- ② Recommended height is pertinent from 1450 ~ 1500mm
- ③ Avoid the installation near magnetic activity, humid temperatures and gas

### DOOR CAMERA & INTERPHONE Wiring



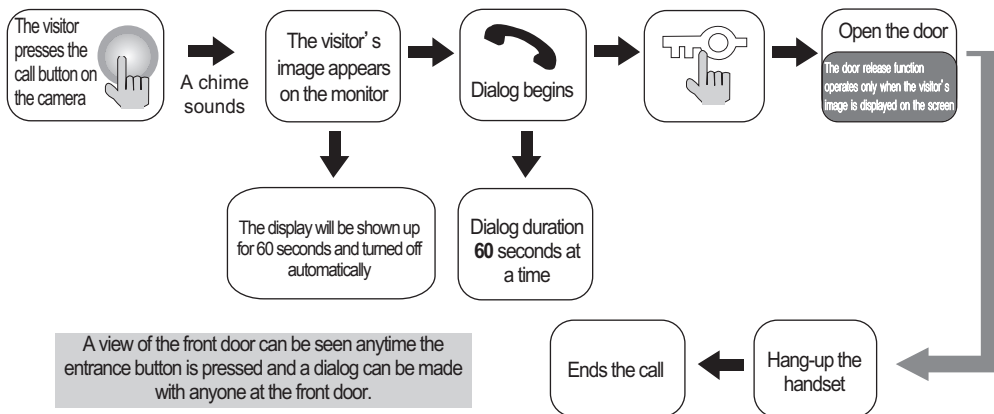
\* If you use UTP CABLE[CAT.5], connect the rest 4 lines to GND after connecting 4 lines between monitor and interphone.



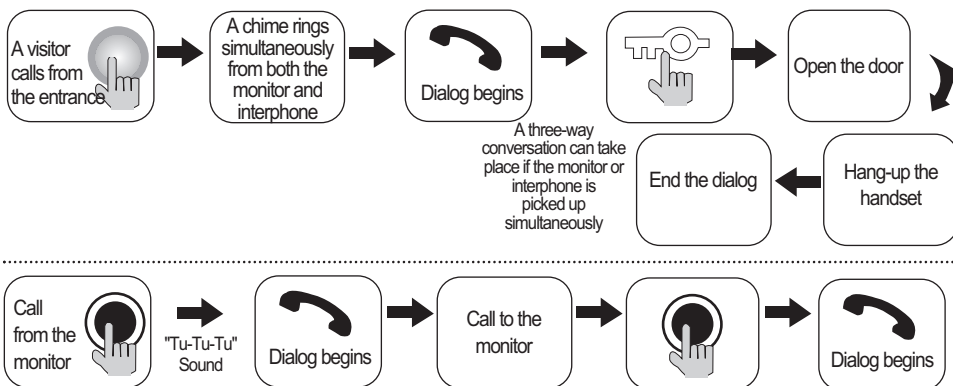
## 6. Operation

※ **Caution** : Do not hold the handset at your ear when you press hook switch to switch call.

### 1. Calling of visitor



### 2. Communication with the optional Interphone



Dialog between the interphone and camera is possible only when the visitor's image is visible on the monitor screen.

### 3. Monitoring : function to see the image of visitor in the entrance.

#### (On stand-by mode - status of putting handset down ) Operation

- By pressing the Monitor button repeatedly, the monitor will work as following in order.  
Camera 1 → Camera 2 → OFF → Camera 1 → .....

#### (One talking mode - status of putting handset up) Operation

- By pressing the Monitor button repeatedly, the monitor will work as following in order.  
Camera 1 → Camera 2 → Camera 1 → Camera 2 → .....



## 7. Settings

- You can adjust DOOR VIDEO SET, UTILITY and check INFORMATION(model name & version) with (UP)△ / (DOWN)▽ button after pressing Menu button on the front of the product in video talk mode or stand-by monitoring.
- **Products settings need the following 4 buttons on the right of product.**
  - \* Start Menu / Exit : MENU button
  - \* Select and in-put : SELECT (Interphone button)
  - \* Move up / Move right : △ / ▷ (Open button)
  - \* Move down / Move left : ▽ / ◁ (Monitoring button)

### 1. Screen setting (Brightness/Contrast/Color adjustment function)

Press the Menu button and access to DOOR VIDEO SET and enter the setting menu by pressing SELECT button.

(1) BRIGHTNESS : Adjusting Brightness of Screen

(2) CONTRAST : Adjusting Contrast of Screen

(3) COLOR : Adjusting Color of Screen

※ How to adjust

- ① Move to Menu you want to adjust with △/▽ button on the list of DOOR VIDEO SET
- ② Press SELECT button to choose an icon.
- ③ Adjust the set value with ◁/▷ button
- ④ To complete the set, press SELECT button.

(4) RESET : Initializing

※ How to Reset

- ① Move to RESET menu in DOOR VIDEO SET menu
- ② Press SELECT to enter the menu.
- ③ Select YES with ◁/▷ button
- ④ Press SELECT button.

(5) EXIT : Go back to setting mode

### 2. UTILITY(additional function)

Press the Menu button and access to Utility SET and enter the menu by pressing SELECT button.

(1) CHIME-BELL VOLUME : setting call sound level

- ① Move to CHIME-BELL VOLUME icon with △ / ▽ button in UTILITY Menu.
- ② Press SELECT to enter the menu.
- ③ Adjusting call level : 0(MUTE) ~ 3(MAX)
- ④ To complete the set, press SELECT button.

(2) SCREEN MODE : to set for screen ratio

- ① ZOOM: Zoon in(expansion) image maintaining actual ratio(4:3) is shown. (full of the screen)
- ② 4:3: Image of 4:3 ratio without expansion is shown.(This is actual ratio for camera)
- ③ WIDE: Full of the screen. Not actual ratio (4:3). Image is expanded according to LCD (WIDE LCD) ratio.

※ How to adjust

- ① Access to SCREEN MODE with  $\triangle$  /  $\nabla$  button in UTILITY Menu
- ② Press SELECT button to enter the menu.
- ③ Adjust screen ratio value with  $\triangleleft$  /  $\triangleright$  button.
- ④ To complete the set, press SELECT button.

(3) EXIT : Go back to Setting menu

### 3. INFORMATION (The function to check Model name & Version)

In order to check the product information, press menu button and move to INFORMATION menu with  $\triangleleft$  /  $\triangleright$  button.

- (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.

### 4. EXIT(Finish setting menu)

### 5. RESET : Initializing

Keep pushing interphone and door open button for 3 seconds(Screen setting and Call volume will be initialized)



## 8. Specifications and Features

Rated Voltage	100-240V~, 50/60Hz
Power Consumption	Stand-by : 4.5W    Maximum : 16W
Wiring	4 wires with door camera (Polarity), 4 wires with an Interphone (Polarity)
Screen Size	17.78Cm(7") TFT-DIGITAL LCD
Communication	Simultaneous communication
Call Sound	From a door camera : Electric chime From an interphone : Beep sound
Screen Display	Monitoring : 30 $\pm$ 5sec , Talk : 60 $\pm$ 5sec
Distance from camera	28m( $\Phi$ 0.5) / 50m( $\Phi$ 0.65) / 70m( $\Phi$ 0.8)
Operating Temperature	0 ~ +40°C (32° F ~ 104° F)
Dimension	311(W) X 168(H) X 32(50.3)(D)



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