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**COMMAX**  
SmartHome & Security

# User Manual

Tilt Color video door phone CDV-70KPT



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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.

## Greetings










- Thank you for choosing COMMAX.
- Please read this manual carefully before you use the product.

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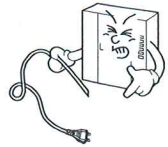



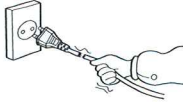





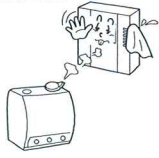










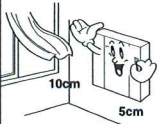


# 1. Warnings and caution

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>	 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.
 <p><b>Caution</b> It may cause a minor damage or injury if violated.</p>	

## Warning

Power & Installation

<p>Please don't use several products at the same time on one power socket. · It may cause a fire due to an abnormal overheating.</p>  <p style="text-align: center;"> </p>	<p>Please don't bend the power cable excessively or it may cause an electric shock. · fire when using a damaged power cable.</p>  <p style="text-align: center;">  </p>	<p>Please don't handle the power cable with a wet hand. · It may cause an electric shock.</p>  <p style="text-align: center;"> </p>	<p>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.</p>  <p style="text-align: center;"> </p>
<p>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.</p>  <p style="text-align: center;">  </p>	<p>Please don't install the product with the lightning and thunder. · It may cause an electric shock or fire.</p>  <p style="text-align: center;">  </p>	<p>Please don't use and connect this product with other products with different rated voltage. · It may cause a disorder or fire.</p>  <p style="text-align: center;"> </p>	<p>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.</p>  <p style="text-align: center;"> </p>

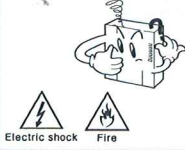
**Warning**

**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.



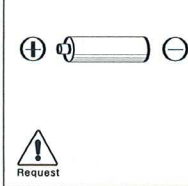
If an abnormal sound, burning smell or smoke is coming out of the product, please plug out the power cable and contact a service center.  
 · It may cause an electric shock or fire.



Please don't insert any metallic or burnable materials into the ventilation hole.  
 · It may cause an electric shock or fire.



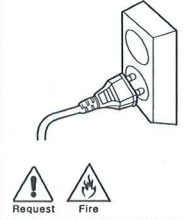
Please use only the designated batteries for the products of using DC power.  
 · It may cause an electric shock or fire.



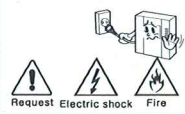
**Caution**

**Power & Installation**

Please plug the power cable firmly into the inner end.  
 · It may cause a fire.



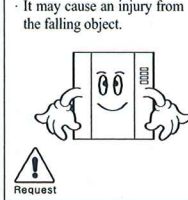
Please hold the plug tightly when unplugging the power cable (a part of the copper wire may be disconnected if the grabbing is only made on the cord when pulling out the cable).  
 · It may cause an electric shock or fire.



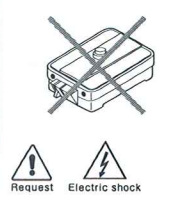
When connecting the power cables after cutting the cable, please install the product with power off.  
 · It may cause an electric shock or fire.



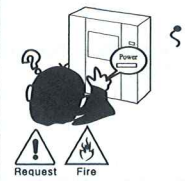
When installing the product, please fix it firmly while using the wall-mounting unit and screws.  
 · It may cause an injury from the falling object.



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



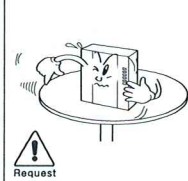
Please check the use voltage and current for the DC-only products and use the appropriate rectifier.  
 · It may cause a fire.



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.)



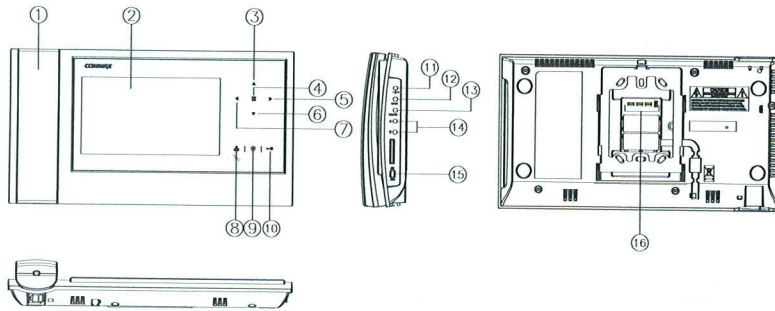
Please don't drop the product on the ground and don't apply a shock.  
 · It may cause a failure.



Please use the designated connection cable within the maximum calling distance designated for the product.  
 · It may reduce the product performance.



## 2. Product Overview



No.	Description	No.	Description
1	HANDSET	10	DOOR RELEASE BUTTON
2	MONITOR	11	VOLUME CONTROL
3	UP BUTTON	12	MENU BUTTON
4	MENU BUTTON	13	SELECT BUTTON
5	RIGHT BUTTON	14	UP BUTTON(Δ) (ZOOM - IN) / DOWN BUTTON(▽) (ZOOM - OUT)
6	DOWN BUTTON		
7	LEFT BUTTON	15	POWER SWITCH
8	MONITOR BUTTON	16	CONNECTING TERMINAL
9	INTERPHONE BUTTON		

- This videophone product provides different functionality for connecting the second door camera(tilt). At the time of booting, the built-in program checks the connectivity of the second door camera(tilt) and commands to supply the power to the second camera.
- Therefore, in case of connecting the second camera(tilt), the connection must be completed before the power is turned on.

- ① HANDSET
- ② MONITOR
- ③ UP BUTTON : Move to menu or used for tilt function
- ④ MENU BUTTON : Move to menu for Screen adjustment and Product info.
- ⑤ RIGHT BUTTON : Move to menu or used for tilt function
- ⑥ DOWN BUTTON : Move to menu or used for tilt function
- ⑦ LEFT BUTTON : Move to menu or used for tilt function
- ⑧ MONITOR BUTTON : Checking visitors' images at the gate.
- ⑨ INTERPHONE BUTTON : Calling slave interphone.
- ⑩ DOOR RELEASE BUTTON : Releasing the door during the talk.
- ⑪ VOLUME CONTROL : Adjust the ringtones volume.
- ⑫ MENU BUTTON  
To enter the menu for screen control, mute setting and product information.
- ⑬ SELECT BUTTON : Press to select an item from the menu.
- ⑭ UP BUTTON : Move from the menu items to up and right.  
("ZOOM IN" used for tilt function)
- DOWN BUTTON : Move from the menu items to down and left.  
("ZOOM OUT" used for tilt function)
- ⑮ POWER SWITCH : Power ON/OFF
- ⑯ CONNECTING TERMINAL : For program update or for connecting cameras and interphones.



### 3. How to use

#### Call from a visitor

- ① When the visitor calls from the entrance(door camera), the calling sound rings and the image of the visitor is shown on the screen.
- ② By picking up the handset, you can talk with the visitor. If you press door release button, door will be released.(Door release works only while talking and it is possible only when the door camera is interlocked with door release function.)
- ③ 3-way communication is possible when another user picks up the handset of extended interphone, when you are talking with door camera on video door phone. (Entrance-Household-Interphone simultaneous communication mode)
- ④ If you put down the phone, talking is finished and turns to stand-by mode.

#### Call with additional interphone

- (1) Call from interphone to video door phone(household)
  - ① The calling sound rings when there is a call from interphone.
  - ② By picking up the handset, you can talk with the person using interphone.
  - ③ Image of visitor is shown on the screen and 3-way communication is possible between household, interphone and door camera when visitor calls from door camera, while household is talking with interphone.
- (2) Call from video door phone to interphone
  - ① After picking up handset of video door phone, and then press INTERPHONE BUTTON in order to call the interphone.(Interphone is called only while the interphone button on household is being pressed.)
  - ② When you receive the call from interphone, enjoy the call.

#### 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 → .....

### Adjust the volume

When you press volume control key repeatedly on stand-by status, you can hear each level

of ringtone and volume level will be pop up on the screen. Ringtone of additional interphone is same with volume level of video door phone.

#### \* Caution

When the call volume control switch is clicked for call volume adjustment, call sound will be heard from the handset 1 time for a user to check the sound.

Please make sure that handset is in position, when the call volume function is being used.

- When call volume control switch is clicked, it will operate in order as follows.
- (Stand by mode - In position)
- CHIME-VOL0 → CHIME-VOL1 → CHIME-VOL2 → CHIME-VOL3 → CHIME-VOL0

### CAMERA TILT FUNCTION

Users can adjust the image focus to see the place that they want.

Functions are only available with pan tilt cameras.

"TILT" will be displayed on the upper-right had corner of the screen when it is called from a pan tilt camera.

**Display setting "ZOOM, 4:3, 16:9" SCREEN MODE is not available when it is connected to pan tilt cameras.**

**(Click the front key buttons to use pan tilt function during the monitoring or talk.)**

- \* Move left : LEFT BUTTON      \* Move down : DOWN BUTTON
- \* Move up : UP BUTTON          \* Move right : RIGHT BUTTON

- Enlarge or reduce screen size by using UP/DOWN buttons on the side during the monitoring or talk.

UP : Enlarge screen size gradationally (ZOOM - IN)

DOWN : Reduce screen size gradationally (ZOOM - OUT)

#### \* Caution

When the unit is restarted, the zoom mode will be innitialized.

### SCREEN MODE : Adjusting screen ratio.

If you press the UP/DOWN button in order during the monitoring or talk when it is connected with normal cameras(not pan tilt cameras), the screen ration will be adjusted.

WIDE : 16:9 screen mode / 4:3 : real ratio of image at the door.

ZOOM: 4:3 screen mode with zoomed in image

("ZOOM, 4:3, 16:9" SCREEN MODE is not available when it is connected to tilt cameras.)

## 4. Settings

You can adjust DOOR VIDEO SET, UTILITY and check INFORMATION(model name &version) with navigation button after pressing Menu button on the right of the product in video talk mode or stand-by mode.

• Products settings need the following 4 buttons on the right of product.

\* Move left : LEFT BUTTON      \* Move down : DOWN BUTTON

\* Move up : UP BUTTON          \* Move right : RIGHT BUTTON

### 4-1. 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 navigation button on the list of DOOR VIDEO SET

② Press SELECT button to choose an icon.

③ Adjust the set value with navigation 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 navigation button
  - ④ Press SELECT button.
- (5) EXIT : Go back to setting mode

#### 4-2. 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 volume sound .

- ① Move to CHIME-BELL VOLUME icon with navigation button in UTILITY Menu.
- ② Press SELECT to enter the menu.
- ③ Select the volume sound or not with navigation button.
- ④ To complete the set, press SELECT button.

(2) EXIT : Go back to Setting menu

#### 4-3. INFORMATION (The function to check Model name & Version)

In order to check the product information, press menu button and move to INFORMATION menu with navigation 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.

#### 4-4. EXIT(Finish setting menu)

#### 4-5. RESET : Initializing

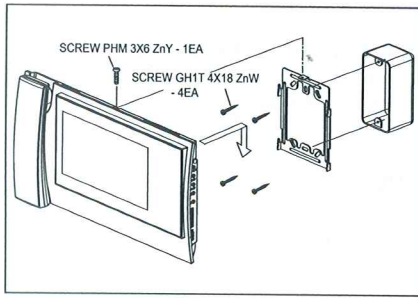
Keep pushing interphone and door open button for 3 seconds(Screen setting and Call volume will be initialized)

##### Caution

**If initialization is activated, all data including screen setting will be initialized) (Screen setting and Call volume)**

## 5. Installation

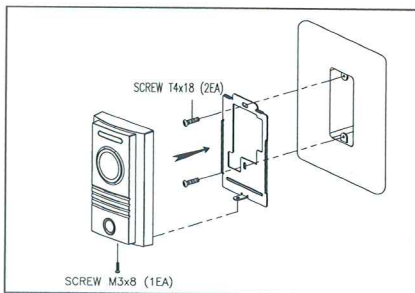
### 1. Installation Method of camera monitor



#### ⚠ 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

### 2. Installation Method of camera



#### ⚠ Note

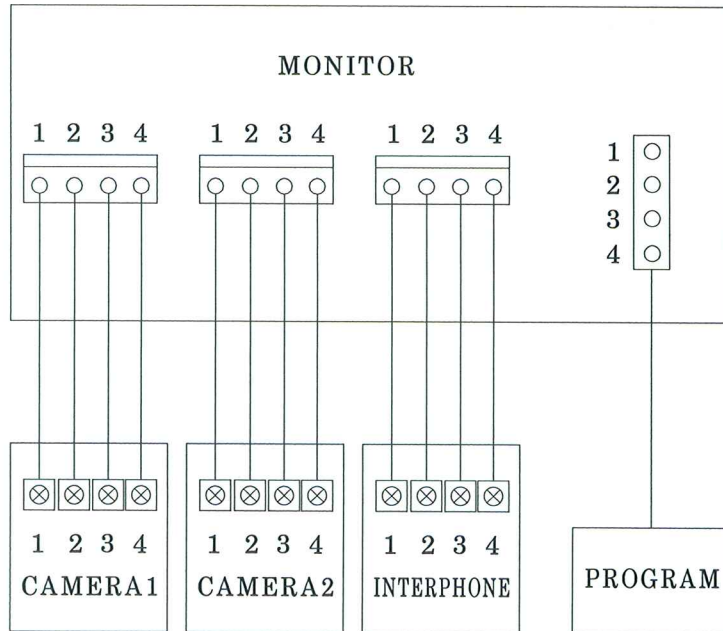
- ① Do not install the camera where it is exposed to Direct sunlight
- ② Keep cleaning up its lens to capture good views.

## 6. Wiring

The wiring of this equipment is as follows.

### Camera connector polarity

1. RED : VOICE 2. BLUE : GND 3. YELLOW : POWER(+12V) 4. WHITE : VIDEO

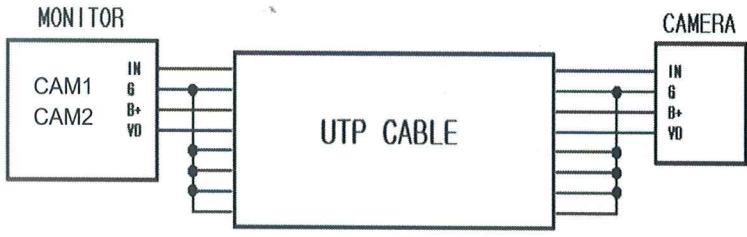


### Wiring precautions

Each device should be connected by separated cables.

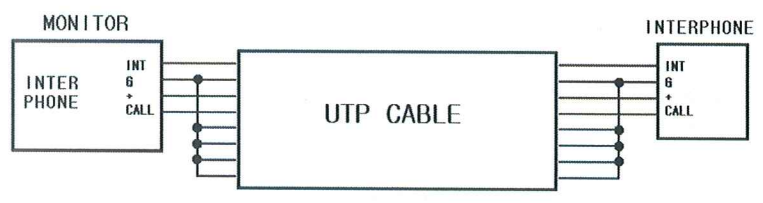
If you use UTP CABLE[CAT.5] for CAMERA1 and CAMERA2, 2 lines of UTP cable are required.

**DOOR Camera Wiring**



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

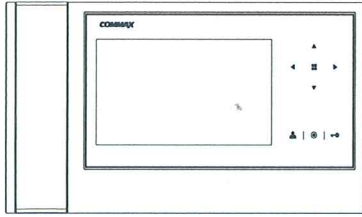
**INTERPHONE Wiring**



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



## 7. Package Contents



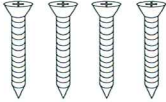
① Body of CDV-70KPT



② Bracket for wall mount



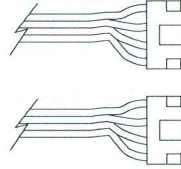
③ Manual



④ T4 X 18(4EA)  
Screw for wall mount



⑤ M 3 X 6(1EA)  
Screw for body



⑥ 4P Connector(2EA)

- ① Monitor(CDV-70KPT)
- ② Wall bracket for monitor
- ③ User Manual
- ④ Mounting Screw (SCREW GH1T 4X18 ZnW) – 4EA
- ⑤ Monitor fixing screw (SCREW PHM 3X6 ZnY) – 1EA
- ⑥ Connector (CONN. 4PX300) – 2EA

## 8. Caution in use

1. Turn on the power switch.
2. Please contact your local agent for product maintenance when you have a problem in use of CDV-70KPT
3. For your safety, power switch with a safety device must be used in your building.
4. Unplug before installing or repairing the product.
5. Unplug when you connect monitor with door cameras.

## 9. Miscellaneous

- Please carefully read this User's Guide before calling service man  
After checking the entire check list, please contact customer service center.  
We will do our best to make you satisfy with our services.

## 10. Specification

MODEL	CDV-70KPT		
Wiring	4 wires with door camera(Polarity)		
	4 wires with interphone(Polarity)		
Rating Voltage	100-240V~, 50/60Hz (FREE VOLTAGE)		
Power consumption	Stand-by : 4.5W    Maximum : 16W		
Transmission way	HAND SET		
Screen	17.78Cm(7") TFT-DIGITAL LCD		
Ringtone	Entrance : electronic chime		
	Interphone : electronic buzzer		
Screen Display	Monitoring : 30 ±5sec , Talk : 60 ±5sec		
Cable thickness	0.5mm	0.65mm	0.8mm
Distance	28m	50m	70m
Working temperature	0 ~+40°C (32°F ~ 104°F)		
Dimension	311(W) X 168(H) X 32(50.3)(D)		

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