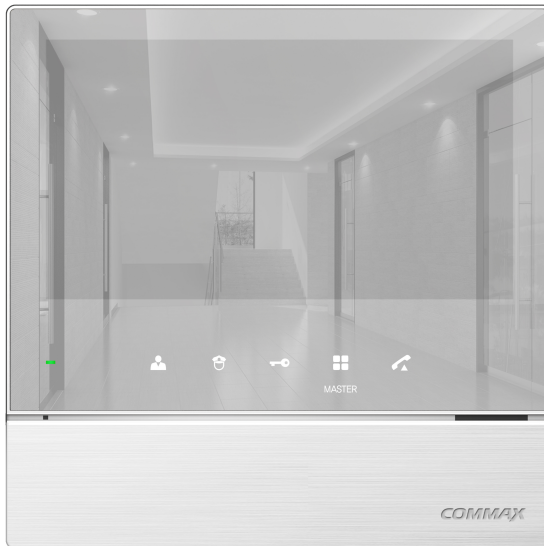


Since 1968

COMMAX
SmartHome & Security

User Manual

COLOR VIDEO SLAVE PHONE CAV-70HS



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. Greeting

- * Thank you for purchasing a Commax product.
- * Please read this manual before use and follow its instruction in full.
- * This common method system is a security enhancing and convenient system capable of being installed at apartments to protect residences and report any abnormalities to the Guardhouse.

2. Warnings and caution

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

	Warning	It may cause a serious damage or injury if violated.		Prohibition.
	Caution	It may cause a minor damage or injury if violated.		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.

Warning

Power & Installation

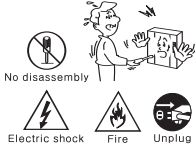
<p>Please don't use several products at the same time on one power socket.</p> <ul style="list-style-type: none"> It may cause a fire due to an abnormal overheating. <p>Prohibition Fire</p>	<p>Please don't bend the power cable excessively or it may cause an electric shock.</p> <ul style="list-style-type: none"> fire when using a damaged power cable. <p>Prohibition Electric shock Fire</p>	<p>Please don't handle the power cable with a wet hand.</p> <ul style="list-style-type: none"> It may cause an electric shock. <p>Prohibition Fire</p>	<p>Please plug out the power cable from the socket when not using it for a long period of time.</p> <ul style="list-style-type: none"> It may shorten the product lifespan or cause a fire. <p>Request Fire</p>
<p>Please don't install the product in the place where there is much oil, smoke or humidity.</p> <ul style="list-style-type: none"> It may cause an electric shock or fire. <p>Prohibition Electric shock Fire</p>	<p>Please don't install the product with the lightning and thunder.</p> <ul style="list-style-type: none"> It may cause an electric shock or fire. <p>Prohibition Electric shock Fire</p>	<p>Please don't use and connect this product with other products with different rated voltage.</p> <ul style="list-style-type: none"> It may cause a disorder or fire. <p>Prohibition Fire</p>	<p>When installing the product that generates heat, please install the product away from the wall (10cm) for the ventilation.</p> <ul style="list-style-type: none"> It may cause a fire due to the increased internal temperature. <p>Prohibition Fire</p>

! Warning

Cleaning & Use

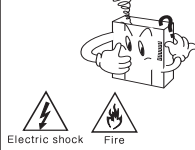
Please don't disassemble, repair or rebuild this product arbitrarily (please contact the service center if a repair is needed).

- It may cause an electric shock or fire.



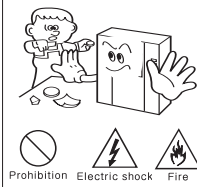
If an abnormal sound, burning smell or smoke is coming out of the product, please plug out the power cable and contact a service center.

- It may cause an electric shock or fire.



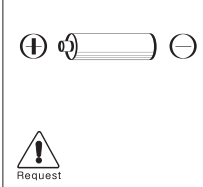
Please don't insert any metallic or burnable materials into the ventilation hole.

- 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.

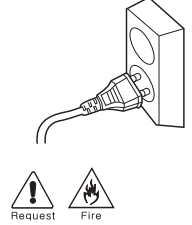


! Caution

Power & Installation

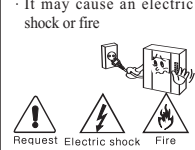
Please plug the power cable firmly into the inner end.

- It may cause a fire.



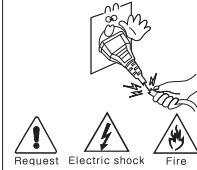
Please hold the plug tightly when unplugging the power cable (a part of the copper wire may be disconnected if the grabbing is only made on the cord when pulling out the cable).

- It may cause an electric shock or fire.



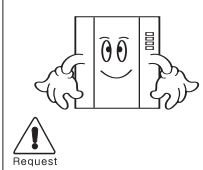
When connecting the power cables after cutting the cable, please install the product with power off.

- It may cause an electric shock or fire.

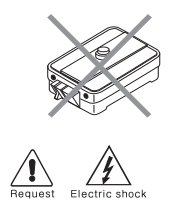


When installing the product, please fix it firmly while using the wall-mounting unit and screws.

- It may cause an injury from the falling object.

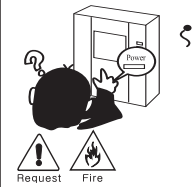


Please be careful when using an AC circuit breaker since there is a possibility of an electric shock.



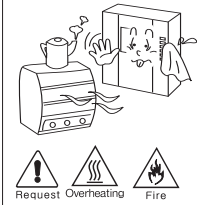
Please check the use voltage and current for the DC-only products and use the appropriate rectifier.

- It may cause a fire.



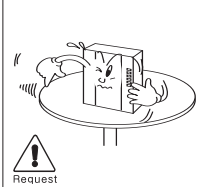
Please avoid direct rays of the sun or heating devices at a time of installation.

- 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.



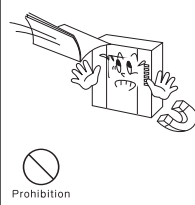
Cleaning & Use

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.)



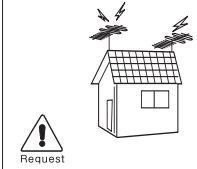
Please don't drop the product on the ground and don't apply a shock.

- It may cause a failure.

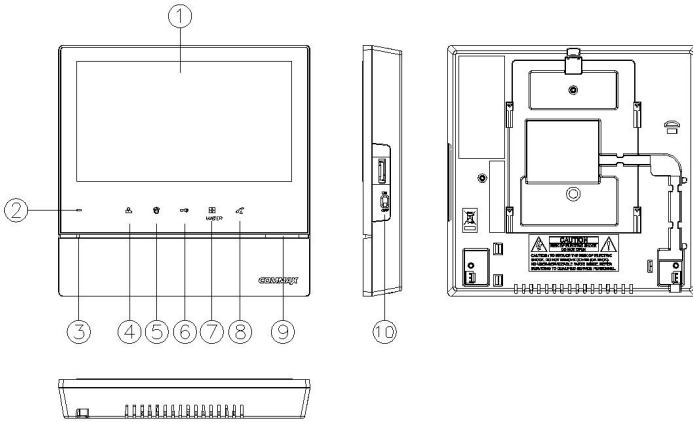


Please use the designated connection cable within the maximum calling distance designated for the product.

- It may reduce the product performance.



3. Part name and function



No.	CONTENTS	No.	CONTENTS	No.	CONTENTS
1	LCD	5	GUARD CALL BUTTON	9	SPEAKER
2	POWER LED	6	DOOR OPENBUTTON	10	POWER SWITCH
3	MICROPHONE	7	MENU BUTTON		
4	MONITORING BUTTON	8	TALK BUTTON		

4. User Setting

After Menu screen appears, you can change setting with below 4 buttons

Menu start and finish : [] (Menu button -[])

SELECT : [] (Guard button-[])

Move upward /move right : [] (Door release button -[] / [])

Move downward /move left : [] (Monitor button-[] / [])

After pressing MENU button in Video call or monitoring mode, you can change settings for DOOR VIDEO SET(BRIGHTNESS / CONTRAST/ COLOR), UTILITY (ADDITIONAL FUNCTION) and INFORMATION (product information)

4-1. DOOR VIDEO SET (Display setting)

DOOR VIDEO SET (BRIGHTNESS / CONTRAST / COLOR control function).

After moving to menu with MENU button, press SELECT button to move to the menu below.

(1) BRIGHTNESS : control BRIGHTNESS

(2) CONTRAST : control CONTRAST

(3) COLOR : control COLOR

You can control from 0 to 20 level. Initial level is set for level 10

※ how to set

After moving to menu with your desired MENU from 'DOOR VIDEO SET', press SELECT button to move to the menu below

(4) RESET: reset display setting

※ how to set

After moving to RESET from DOOR VIDEO SET, press SELECT button for RESET.

Select YES with move button.

Complete your setting by pressing SELECT button

(5) EXIT: Return to EXIT of initial menu

4-2. UTILITY (additional function)

After moving to MENU with button, press SELECT button to move to below screen

(1) SPEAKER VOLUME: control call volume (You can only adjust during a call)

There are 3 levels of volume control options and default is level 2

※ how to set

After moving to SPEAKER VOLUME from UTILITY, press SELECT button for SPEAKER VOLUME.

Select your desired setting.

Complete your setting by pressing SELECT button

(2) CHIME-BELL VOLUME : control ringing tone

You can control from 0(MUTE) to 3 level. Initial level is set for level 2.

※ how to set

After moving to CHIME-BELL VOLUME from UTILITY, press SELECT button for CHIME-BELL VOLUME.

Select your desired setting.

Complete your setting by pressing SELECT button.

(3) SCREEN MODE: set display ratio

※ how to set

After moving to SCREEN MODE from UTILITY, press SELECT button for SCREEN MODE.

With ▲/▼ button, select your desired setting.

Complete your setting by pressing SELECT button.

♣ ZOOM :4:3 display is changed into full display mode (default)

♣ 4:3 : actual ratio of camera.

♣ WIDE : display is changed into 16:9 display mode

(4) EXIT : Return to EXIT of initial menu

4-3. INFORMATION (product information,)

After entering to menu by pressing menu button, you can move to INFORMATION and check product information

- (1) MODEL : Shows product name
- (2) VERSION : Shows program version
- (2) HOME ID : Shows current building No. / Household No
- (4) SLAVE ID : Shows current slave ID.
- (5) TOUCH : Shows touch program version
- (6) VIDEO : Shows current camera output standard. (NTSC / PAL)
- (7) SOURCE : This indicates location of current video (Household door unit & Lobby entrance)

4-4. EXIT

Exit from menu



5. Telephone function

(When the call is finished, please end it by pressing the call button)

1) Receiving a call

This device (videophone) supports only incoming calls, not outgoing. When an incoming call is detected, the Call lamp will blink and a bell will ring. Press the Call button to answer the call, as indicated by the steadily lit Call lamp.

2) Being Paged by the individual entrance While in a Call

- a) A soft Chime tone will sound and the visitor will be displayed on screen.
- b) Press the call button while in a call. (LED will blink.)
- c) If you press the Call button again, a call with the Entrance will start.

3) Being Paged by the Common Entrance While in a Call

- a) A soft Chime tone will sound while in conversation and the visitor will be displayed on screen.
- b) While in conversation, press the Call button. (LED will blink)
- c) If you press the Call button again, a call with the Common Entrance will start.

4) Being Paged by the Guardhouse (or by another Household) While in a Call.

- a) A soft Chime tone will sound.
- b) Press the Call button while in conversation. (LED will blink)
- c) If you press the Call button again, a call with the Guard station(or other households) will start.



6. Talk with other households

1) Being Paged by Other Households

The Call lamp will blink and a Melody tone will sound when being paged by another household. Press the Call button to answer the page, as indicated by the steadily lit Call lamp. When finished with the conversation, press the Call button again to end the call.

2) Being Paged from the Individual entrance While in a Call with another Household

- a) A soft Chime tone will sound while connected to another household, and the visitor will be displayed on screen.
- b) Press the Call button while staying connected to the other household.
(LED will blink)
- c) Press the Call button once more.
- d) The current call will end and a new call will start.

3) Being Paged from the Common entrance while Connected to another Household

- a) A soft Chime tone will sound while connected to another household, and the visitor will be displayed on screen.
- b) Press the Call button while staying connected to the other household. (LED will blink)
- c) Press the Call button once more.
- d) The current call will end and a new call will start.



7. Ext. call function

1) Being Paged from an Extension

The Call lamp will blink and a Melody tone will sound when being paged from an extension. Press the Call button to answer the page, as indicated by the steadily lit Call lamp. When finished with the conversation, press the Call button again to end the call.

2) Being Paged from the Household Porch while Connected to an Extension

- a) A soft Chime tone will sound while connected to an extension, and the image of the visitor will be displayed.
- b) Press the Call button while staying connected with the extension. (LED will blink)
- c) Press the Call button once more.
- d) The current call will end and a new call will start.

3) Being Paged from the Common entrance while Connected to an Extension

- a) A soft Chime tone will sound while connected to the extension, and the visitor's image will be displayed on the screen.
- b) Press the Call button while staying connected to the extension. (LED will blink)
- c) Press the Call button once more.
- d) The current extension call will end and a new call will start.

4) Incoming Call while Connected to an Extension

- a) A soft Bell will sound while connected to the extension.
- b) Press the Call button while staying connected to the extension. (LED will blink)
- c) Press the Call button once more.
- d) The current extension call will end and a new call will start.

※ Alarm function operates interlocked with other equipment while staying connected to the extension.

1. Call with Master equipment: marked in only Master
2. Call with other Slave equipment: marked in the equipment which makes a call.



8. Guard station call function

1) Being Paged by the Guardhouse

The Call lamp will blink and a Melody tone will sound when being paged by the Guardhouse. Press the Call button to answer the page, as indicated by the steadily lit Call lamp. When finished with the conversation, press the Call button to end the call.

2) Being Paged by the Household Porch while Connected to the Guardhouse

- a) A soft Chime tone will sound while connected to the Guardhouse, and the visitor will be displayed on screen.
- b) Press the Call button while staying connected to the Guardhouse. (LED will blink)
- c) Press the Call button once more.
- d) The current call will end and a new call will start.

3) Incoming Call while Connected to the Guardhouse

- a) A soft Bell will sound while connected to the Guardhouse.
- b) Press the Call button while staying connected to the Guardhouse. (LED will blink)
- c) Press the Call button once more.
- d) The current call will end and a new call will start.

4) Paging the Guardhouse

- a) Press the Call button.(standby sound "toot" will be heard)
- b) Press the Guard button. (Paging Time: 30 seconds)
- c) When answered by the Guardhouse, register the household number and ext. setting.

※ This guard station call function is used when you set the ext. number to this slave phone when installing first. (using interlocked with Master and Guard station)



9. Individual entrance call function

1) Paging the Household Videophone from the Entrance

- a) A Chime tone will sound, and the visitor will be displayed on screen.
(The screen will turn off 30 seconds after the page)
- b) Press the Call button to answer.
(The call is limited to 1 minute from the moment of pressing the Call button)
When finished with the conversation, press the Call button to end the call.

2) Being Paged by the Guardhouse While Connected the Entrance

- a) Soft Melody tone will sound while connected to the entrance.
- b) Press the Call button while connected to the entrance. (LED will blink)
- c) Press the Call button again.
- d) The current call will end, and a new call will start. (LED will turn on)

3) Being Paged by the Common entrance While Connected to the Entrance

- a) Soft Chime tone will sound while connected to the entrance.
- b) Press the Call button while connected to the entrance. (LED will blink)
- c) Press the Call button again.
- d) The current call will end, and a new call will start. (LED will turn on)

4) Incoming Call while Connected to the Entrance

- a) Soft Bell will sound while connected to the entrance.
- b) Press the Call button while connected to the entrance. (The Call lamp will blink)
- c) Press the Call button again.
- d) The current call will end, and a new call will start. (LED will turn on)

5) Monitoring the entrance

- a) Press the monitoring button on stand-by mode (you can check the entrance)
- b) End it by pressing the monitoring button once again.
While monitoring, make a call with entrance by pressing the call button.
When finished with the conversation, press the Call button to end the call.



10. Common entrance call function

1) Paging the Household Videophone from the Common entrance

- a) Chime tone will sound, and the visitor will be displayed on screen.
(The screen will turn off 30 seconds after the page)
- b) Press the Call button to answer.
(The call can be made for 1 minute from the moment of pressing the Call button)
- c) Pressing the Open button while connected to the Common entrance will release it.
Press the Call button again to end.

2) Being Paged by the Household Porch while Connected to the Common entrance

- a) Soft Chime will sound while connected to the Common entrance, and the Entrance lamp will blink.
- b) Press the Call button while connected to the Common entrance. (LED will blink)
- c) Press the Call button again.
- d) The current call will end, and a new call will start. (LED will turn on)

3) Incoming Call while Connected to the Common entrance

- a) Soft Bell will sound while connected to the Common entrance.
- b) Press the Call button while connected to the Common entrance. (LED will blink)
- c) Press the Call button again.
- d) The current call will end, and a new call will start. (LED will turn on)



11. Door release function

- ※ By pressing the door release button, door can be released while talking with entrance(individual/common)
- ※ While calling with common entrance the call will be ended automatically after door release.



12. Master call function

1) How to call master related to extension number (Setting master ext. : no.1)

- a) On standby mode, enter the call standby mode by pressing the call button. (sound "toot")
- b) Press the priority MENU button. (calling Master)

☞ **Caution** : in case of MENU button, it operates as original function unless the call standby mode.



13. Detour function

- ※ When the Away Mode is set from the Household, pages by visitors from the Common entrance or Household Porch are automatically forwarded to the Guardhouse to be answered by the Guard on duty.
- ※ Away Mode cannot be set with this Videophone, but enabling the Away Mode through another videophone will have all pages from the Common entrance and the Household Porch to be forwarded to the Guardhouse.



14. Factory Initialization function

- ※ On pressing door release button and guard button for 3seconds at the same time, product reset is done with "beep"sound.

☞ **Caution** : On execution of initialization function, all the information such as household setting and screen adjustment

- ※ Initial value of initialization

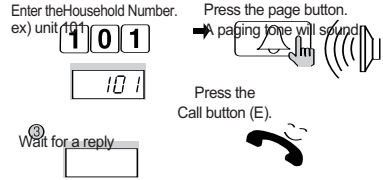
- a) Building and household number: Building 1234 household number 5678
- b) Ext. ID : 0
- c) Receiving delivery service status: no delivery service reception



15. How to use common entrance camera

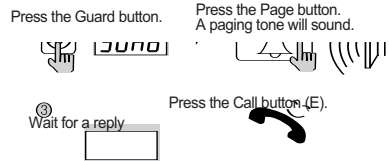
1) To call the household

- Press the household number ex) household 101 => 1,0,1
- Household number appears on FND
- Press the call button (E: shape of bell)
- Conversation begins when household picks up the phone.



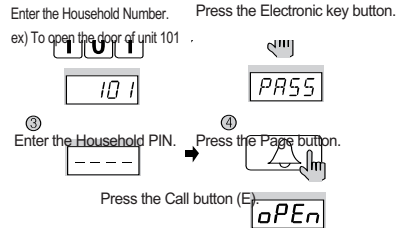
2) Paging a guard station

- Press the guard button (shape of police officer)
- 'Guard' appears on FND.
- Press the Call button (E: shape of bell)
- 'Guard' blinks on FND with call sound.
- Conversation begins when guard station pick up the phone.



3) Opening the door with PIN

- Press the household number.
- Press the Key button (K: shape of key).
- 'PASS' blinks on FND.
- Press the household PIN.
- '_' appears on FND.
- Press the Call button.
- 'OPEN' message blinks on FND and door will open.

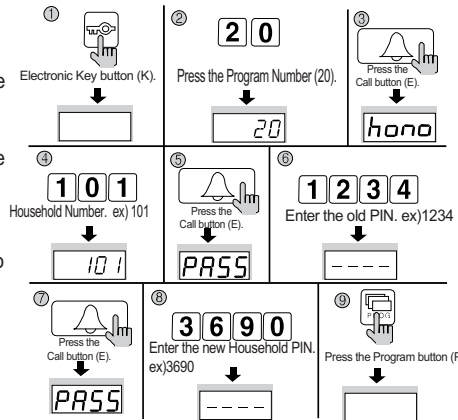


[Reference for use]

If you don't recall household PIN, please contact a guard station or management station.

4) Registering household PIN

- Press the Key button (K: shape of key)
- Press program number '20'
- Press the Call button (E: shape of bell). 'hono' message blinks on FND.
- Press the household number.
- Press the Call button (E: shape of bell). 'PASS' message blinks on FND.



5) When you want to open the door with wireless card

- key(optional), put the distributed wireless card key(RF Card) to the window at the bottom of camera lense. Then, door will open with the message of 'OPEN' on FND.

[Reference for use]

- If unregistered card comes close to the sensor, guard station unit has to be informed the situation automatically with the call. Please register RF card first at management office first.
- If nothing has been changed, the card cannot be used.





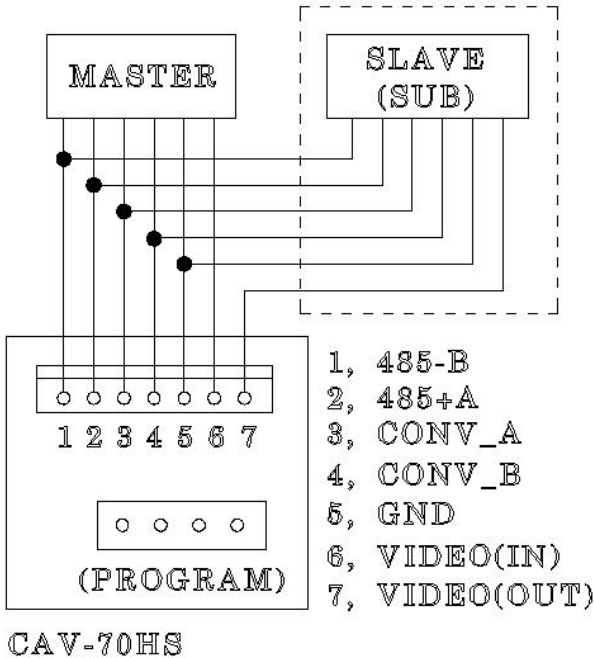
16. Guard Security Alarm Function

- * This Videophone sounds alarms when emergency situations are detected, but those alarms cannot be canceled through this unit.
- * Please use other Videophones (With Cancel/Reset Feature) to cancel emergency alarms.
- * This function is impossible to generate the sound which can be heard when interlocked with other video phones.

- 1) **Emergency** : Pressing the Emergency button when needed will sound the corresponding alarm (Electronic Gun) from the unit.
 - 2) **Warning 1** : The corresponding alarm (Fire Truck) will sound when Warning 1 is detected.
 - 3) **Warning 2** : The corresponding alarm (Ambulance) will sound when Warning 2 is detected.
 - 4) **Security** : The corresponding alarm (Police Siren) will sound when burglar is detected.
- ☛ **Caution** : in case of alarm, it will sound loudly regardless of volume switch.

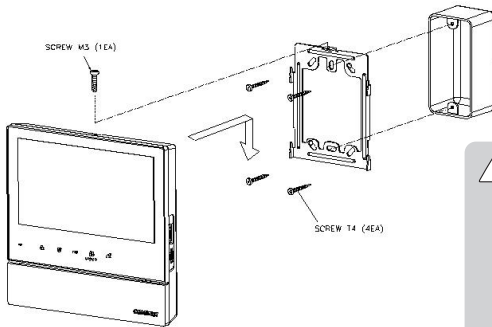


17. Connection diagram





18. Installation and how to wiring



⚠ Note

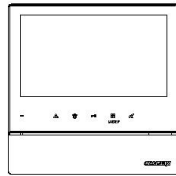
- ① Avoid the range of direct sunlight
- ② Recommended height is pertinent from 1450 ~ 1500mm
- ③ Avoid the installation near magnetic activity, humid temperatures and gas



19. Safe operation guide

- Make sure to turn on the product.
- In case if physical damage or operation failure is detected, do not hesitate to contact Service Center.
- All electric power must be blocked by the building blocking device.
- Do not place water bottles or flowerpots upon the product.
- Please, turn the power off when installing or repairing the product.

20. Contents



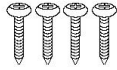
CAV-70HS



Bracket for Wall Mount



Manual



GH1T 4 X 18 ZnW
Wall Bracket
Mounting Screw



PHM 3 X 6 ZnY
Monitor Fixing Screw



7P(1EA)
Connector

- ▶ When more than one videophone is connected to the system and one of those videophones are in use, the call cannot be made by another videophone within that system.
- ▶ Also, incoming pages while a call is being made are only heard through the videophone in which that call is being held from.
- ▶ When an emergency situation occurs, emergency alarm will be sounded by all installed videophones, and the Cancel/Reset feature can only be performed through videophones supporting that feature.
- ▶ This videophone is able to call the guard, wireless phone(ext. 5) and Master phone(ext. 1) but in other places (common entrance, other households, local loop and so on), only receiving is available.(Master interlocking function)

21. Specification

Spec \ Model	CAV-70HS
Transmission style	MASTER 6 lines
Rated Voltage	100~240V~, 50/60 Hz (FREE VOLTAGE)
Power consumption	Max: 12W, Standby: 3W
Conversation	Hands free mode(Voice Switch circuit)
Display	17.78 cm(7") COLOR TFT-LCD(digital)
Call sound	- Entrance : two types of 3 tones electric chime bell - Guard station : Melody
Screen	60 ± 10 SEC(During conversation), 30 ± 10SEC(During monitoring)
Distance	MASTER : ø 0.65 CABLE / 30m
Working Temperature	0°C~+40°C

COMMAX

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PM0270AS0010

Printed In Korea / 2013.09.104