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Since 1968

Home Network
COMMAX

User Manual

COLOR VIDEO DOOR PHONE CAV-35NM



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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	Instructions for users
Level-B product	The product is registered for electromagnetic compatibility for household use and can be used in all areas including residential areas.



1. Greetings

- * Thank you very much for purchasing of COMMAX products.
- * Please read carefully this user manual and follow its rules.
- * This intercom can be used in offices, and shopping outlets, and provide convenience to use communication on long distances.



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.



Caution

It may cause a minor damage or injury if violated.



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.



Warning

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.

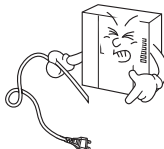


Prohibition

Fire

Please don't bend the power cable excessively or it may cause an electric shock.

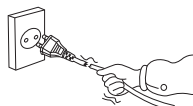
- fire when using a damaged power cable.



Prohibition Electric shock Fire

Please don't handle the power cable with a wet hand.

- It may cause an electric shock.



Prohibition Fire

Please plug out the power cable from the socket when not using it for a long period of time.

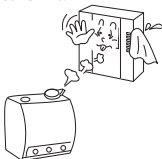
- It may shorten the product lifespan or cause a fire.



Request Fire

Please don't install the product in the place where there is much oil, smoke or humidity.

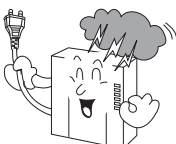
- It may cause an electric shock or fire.



Prohibition Electric shock Fire

Please don't install the product with the lightning and thunder.

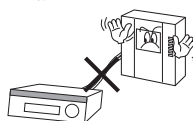
- It may cause an electric shock or fire.



Prohibition Electric shock Fire

Please don't use and connect this product with other products with different rated voltage

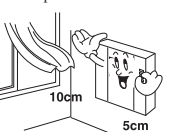
- It may cause a disorder or fire.



Prohibition 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.



Prohibition Fire

! 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.

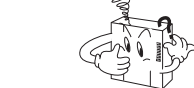


No disassembly



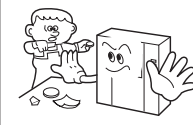
If an abnormal sound, burning smell or smoke is coming out of the product, please plug out the power cable and contact a service center.

- It may cause an electric shock or fire.



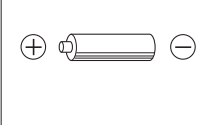
Please don't insert any metallic or burnable materials into the ventilation hole.

- 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.

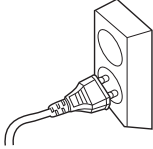


! Caution

Power & Installation

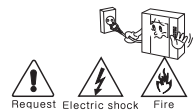
Please plug the power cable firmly into the inner end

- It may cause a fire.



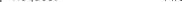
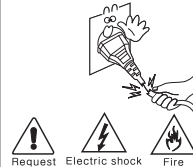
Please hold the plug tightly when unplugging the power cable (a part of the copper wire may be disconnected if the grabbing is only made on the cord when pulling out the cable).

- It may cause an electric shock or fire



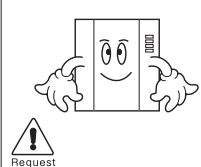
When connecting the power cables after cutting the cable, please install the product with power off

- It may cause an electric shock or fire

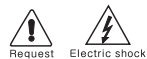
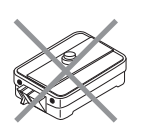


When installing the product, please fix it firmly while using the wall-mounting unit and screws.

- It may cause an injury from the falling object.

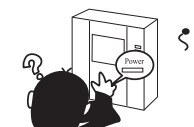


Please be careful when using an AC circuit breaker since there is a possibility of an electric shock.



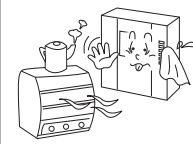
Please check the use voltage and current for the DC-only products and use the appropriate rectifier.

- It may cause a fire.



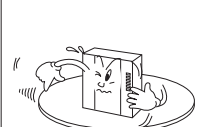
Please avoid direct rays of the sun or heating devices at a time of installation.

- 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.



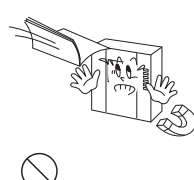
Cleaning & Use

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. Features

CAV-35NM is a hand set type of Color Video phone.

This model connects to Lobby phone (Common entrance unit) through Floor Distributor (CCU-FS) and Building Distributor (CCU-BS), each Floor distributor is able to connect up to 4 house unit.

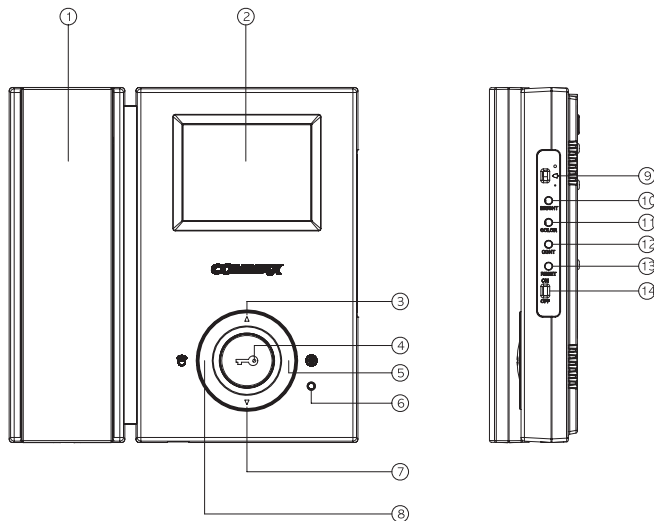
This house unit can add maximum 2 sub-units, total 3 units are available in each residence.

Main features

- 1) DC power and Floor Distributor base system (Hand set type)
- 2) When installing 1 master unit only, power shall be supplied up to 32 units from a Floor Distributor (CCU-FS) without additional power supply.
- 3) Sub-monitors need extra power source.
- 4) 3.5 inch TFT LCD Monitor
- 5) Available to call "Porter (Guard Phone)", "Door release" and "Extension interphone".
- 6) COMMAX chime (Sol, Mi, Do) is the ring tone that sounds from Lobby phone. "Ding- Dong" sounds from an individual door when there is a call.
- 7) Door release function for Entry panel.
- 8) 6 wires including a power line; one UTP Cable (CAT.5) can be used



4. Part names and functions



No.	Part name	No.	Part name
1	Hand set	8	Guard call button
2	LCD Screen	9	Volume switch
3	UP button	10	BRIGHT control switch
4	Door release button	11	COLOR control switch
5	Interphone button	12	CONT control switch
6	Power indicator	13	RESET button
7	DOWN button	14	Power switch



5. Basic use

1) Call from Lobby phone

- ① When receiving a call from the lobby phone, sound COMMAX chime and the visitor's image will be shown on the screen. (Chime rings 2 times.)
- ② Hold a handset to make a conversation
- ③ Pressing "Door release" button to open the common entrance during a conversation.
- ④ When conversation is over without door release, put a handset to end the conversation.

2) Call a sub-units (Intercommunication)

- ① Hold a hand set and press "Interphone" call button to call a sub unit.
(All call to both Master and Slave unit)
- ② When the sub unit responds, conversation occurs.
(When trying to call the Guard station or other sub units during intercommunication, nothing happens.)
- ③ During extension call, if a call made from lobby phone, you have the image of visitor with lower call sound.
(Talk duration is 30 seconds)
- ④ Start conversion with Lobby phone after ending extension call.
(Only one extension can have a conversation with Lobby phone at the same time)

3) Call a Guard Phone (Porter)

Calling Guard phone

- ① Hold a hand set and press "Guard Call" button.
- ② When the guard responds, conversation occurs.
(In case of Porter connection, calling porter is available only. It is impossible to receive a call from porter).
(Hear the buzz sound if the guard or porter is on the phone with other residence.)

4) Receiving a call from Guard phone

- ① When the guard phone call a residence, sound chime for 30 minutes without image.
- ② When the residence responds, conversation occurs.
- ③ Put the hand set to end the communication.

5) Call / Talk duration

This is applied to all call and conversation.

- ① Calling time lasts for 30 seconds.
- ② Talking duration lasts for 60 seconds.



6. Setting House unit as a Master and Sub Units.

- A. This setting should be set by the Lobby phone which should be connected to channel 1 of CCU-BS.
- B. When a single unit is installed in a household, it should be set as a master unit.
(In case more than 2 units are installed in a household, one of them should be set as a master, and the rest should be set as slave units.)
- C. The "Door Release" and "Interphone call" button on the unit run as a selection of a master or slave unit in this mode.

1) Set a house unit as a master unit.

- ① Set the ID as "0" on the Multi Entry Panels that should be connected to channel 1 of CCU-BS.
- ② After pressing a "Talk" button of an in-house unit, press the "Interphone call" button and the "door release" button at the same time.
- ③ You can communicate with the Multi Entry Panel while the resident's number displayed on a screen of multi entry panel.
- ④ Press the "Door release" button on an in-house unit then the "**** -> M" message is displayed on the Multi Entry Panel.
Register desired household number in Multi Entry unit, and then press "Call" button.
The electric sound will be heard after completion.
- ⑤ The registration is complete when you cancel the conversation.
(Repeat this process for other residence's registration.)
- ⑥ Set the ID on the multi-entry panel as "1" from "0" after completing the registration

2) Set a house unit as a slave unit.

- ① Set the ID as "0" on the Multi Entry Panels that should be connected to channel 1 of CCU-BS.
- ② After pressing a "Talk" button of an in-house unit, press the "Interphone call" button and the "door release" button at the same time.
- ③ You can communicate with the Multi Entry Panel while the resident's number is displayed on a screen of multi entry panel.

- ④ Press the "Extension" button on an in-house unit then the "**** -> S" message is displayed on the Multi Entry Panel.
Register desired household number in Multi Entry unit, and then press "Call" button.
- ⑤ The electric sound will be heard after completion
- ⑥ The registration is complete when you cancel the conversation.
(Repeat this process for other residence's registration.)
- ⑦ Set the ID as "1" on the multi-entry panel after completing the registration.

3) Chime sound from individual door unit

- ① Chime will sound when calling an individual door bell with audio type







7. The Change and initialization of the password.

1) Initialization for the password

Shut off master unit and turn it on again while holding the "Interphone call" button and "Door release" button at the same time for 3 seconds. (Note: Default password: 1234)

2) Changing Resident Password(through Multi Entry panel)

- ① Enter "Residence Number" and "  "button for 2 seconds and release when LCD stops blinking.
- ② Enter "Current password" and press "  "button for 2 seconds and release when the LCD stops blinking.
- ③ Enter "New Password" with 4 digits on Multi Entry Panel displaying "NEW PW : message. Press "  " button for 2 seconds and release when the LCD stops blinking.
- ④ Repeat "New password" to confirm it. Press "  "button for 2 seconds release when the LCD stops blinking. It is completion with initial mode.



Note) "1234" as a password can't be used to open the door because it's default password"
You can't open the door with password until you do change default password (1234) into new password.



8. Opening the entrance of Multi-entry panel with password



1) Open the entrance with resident password.

(The doors do not open by default password "1234".
you use this function only after changing default password into
new one,)

- ① Enter the resident number in Multi Entry Panel.
- ② Press "  " button.
- ③ Enter the residential PIN number
- ④ Press "  " button.

The door is opened with the "OPEN" message displaying on the LCDscreen.

2) Open the entrance with Building password.

- ① Enter "9900" in Multi Entry panel
- ② Press "  " button.
- ③ Enter the "Building password"
- ④ Press "  " button.

The door is opened with the "OPEN" message displaying on the LCD screen.



9. BRIGHT, COLOR, CONT setting

- Bright, Color and CONT is adjustable when the monitor must be on.

1) BRIGHT setting

- ① Press the BRIGHT button in the right in status of the screen on.
- ② Power LED is blinked as fast (BRIGHT control mode)
- ③ Control the BRIGHT as the user wants by pressing UP/DOWN button
- ④ Hold "BRIGHT" button for 2 seconds and release it to be saved
- ⑤ Power LED is blinked as normal

2) COLOR setting

- ① Press the COLOR button in the right in status of the screen on
- ② Power LED is blinked as fast (COLOR control mode)
- ③ Control the BRIGHT as the user wants by pressing UP/DOWN button
- ④ Hold "COLOR" button for 2 seconds and release it to be saved
- ⑤ Power LED is blinked as normal

3) CONT Setting

- ① Press the COLOR button in the right in status of the screen on
- ② Power LED is blinked as fast (COLOR control mode)
- ③ Control the BRIGHT as the user wants by pressing UP/DOWN button
- ④ Hold "CONT" button for 2 seconds and release it to be saved
- ⑤ Power LED is blinked as normal

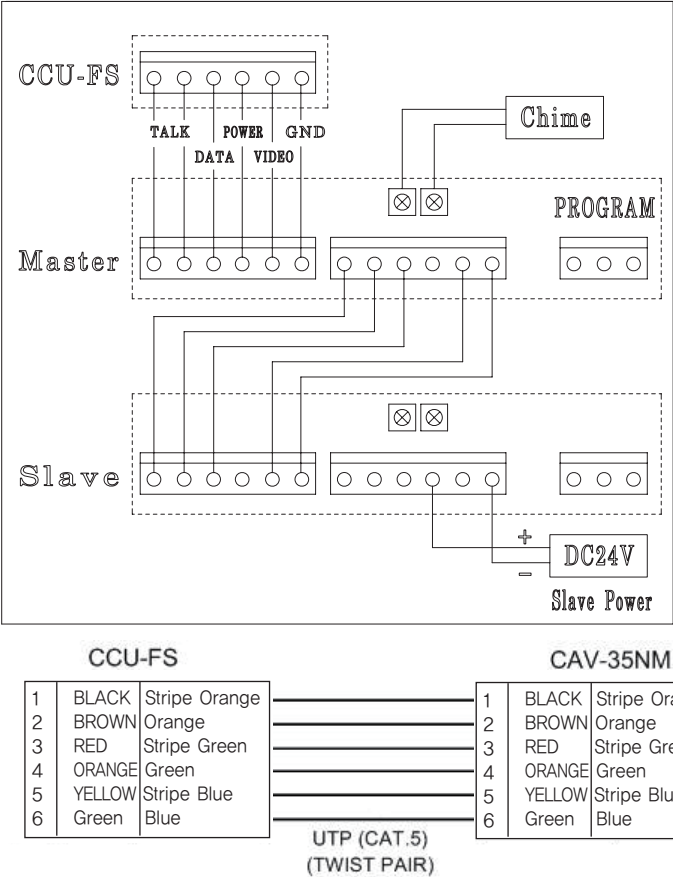
4) RESET (Video Status initialization)

- ① Press the Reset button in status of the screen on.
- ② Video status is initialized to the factory delivery conditions.



10. Wiring and System diagram

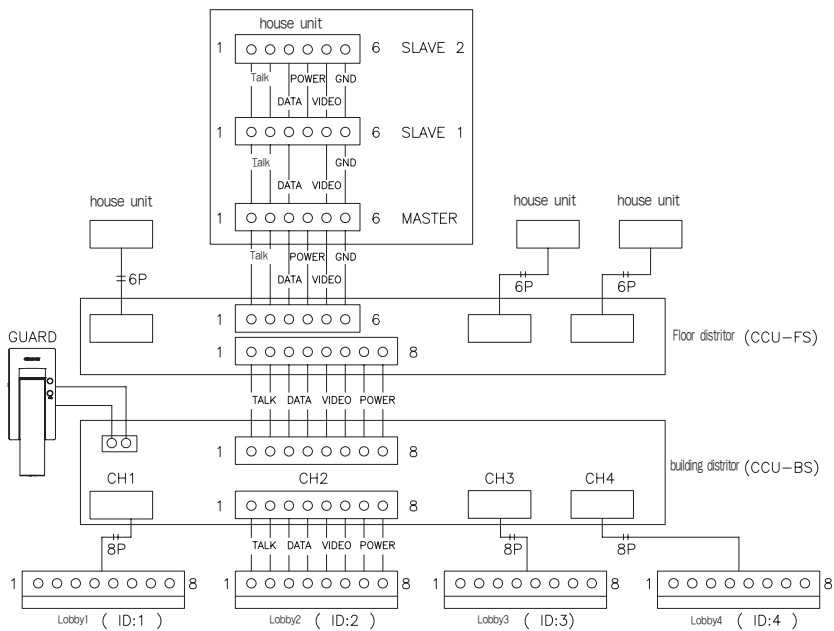
1) Wiring Diagram



2) Wiring method

- ① Please pay attention to the polarity of the wires. Units will not work properly when mis-wired.
- ② As using UTP(CAT.5) cable, each cable color should be matched as shown the above wiring diagram.
- ③ The Power of the Master unit is supplied from the Floor Distributor(a power per 8 Floor Distributors) without an additional power supply, but additional sub units requires a separate a power source.
- ④ Power source ,DC24V/1A cover up to 2 additional sub units.
(Power line connection between Master unit and Sub units should be separated.)

3) System Diagram





11. Specification

Model No.	CAV-35NM
Wiring	To floor distributor : 6 wires (TALK2, DATA1, POWER1, VIDEO1, GND1)
Power Voltage	24~28V $\overline{\text{DC}}$ / 5A (Power is supplied from Floor Distributor) / an extra power is required for Slave units.
Communication Method	Hand set
Display	8.89Cm(3.5") TFT LCD
Power Consumption	Stand by: 40mA Maximum : 230mA
Distance	UTP (\varnothing 0.5) 50m