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COMMAX
SmartHome & Security

User Manual

Floor distributor CMD-404CFU



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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. Introduction

Your unit is designed so it can be flush mounted on the wall or used. When flush mounted on the wall, the stand permits you to view the unit for an angular view. The model number is located on the bottom and record the serial number in the space provided below(available). Refer to these numbers whenever you call upon your COMMAX dealer regarding this product.

Model No. _____

Serial No. _____

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated **"dangerous Voltage"** within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.



caution

Risk of electric shock
do not open



CAUTION : To reduce the risk of electric shock, do not remove cover(or back) no user-serviceable part inside refer servicing to qualified service personnel



2. Important Safeguards

- ▲ **Damage Requiring Service** : This equipment from the power source and source and refer servicing to qualified service personnel under the following conditions
 - ① when the power is damaged.
 - ② if liquid has been spoiled or objects have fallen into the unit
 - ③ if the equipment has been exposed to rain or water.
 - ④ if the equipment has been dropped or otherwise damaged.
 - ⑤ when the equipment exhibits a distinct change in performance- this indicates a need for service.
- ▲ **Water and Moisture** : Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
- ▲ **Accessories** : The product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Any mounting of the manufacture's instructions, and should use a mounting accessory recommended by the manufacturer.
- ▲ **Object and Liquid Entry** : Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- ▲ **Lightning** : For added protection for this product before a lightning storm, or when it is left unattached and unused for long periods of time, unplug it from the wall outlet and disconnect the other system. This will prevent damage to the product due to lightning and power-line surges. If you live in an area heavily prone to lightning storms, it is recommended that you invest in power-line, telephone-line, RF cable and actuator / polarization surge protectors to protect your appliance system from possible damage



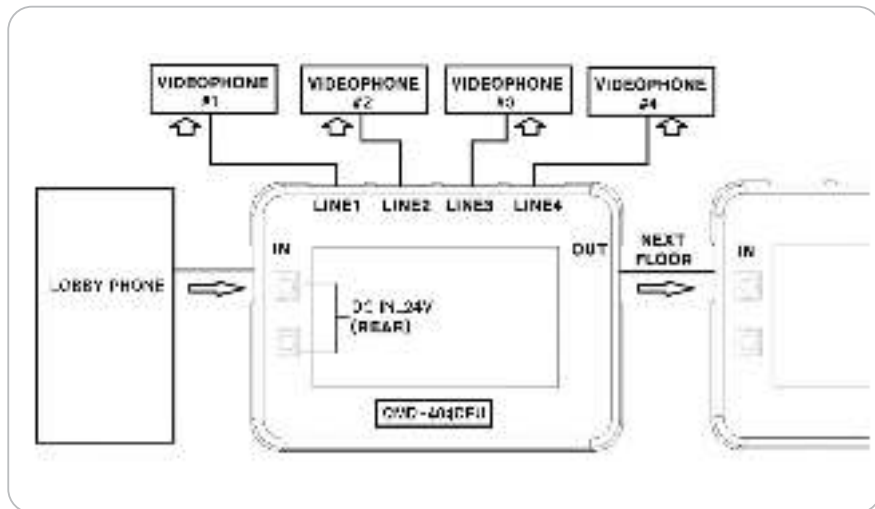
3. Main function and caution

- Using video door phone to connect with UTP type lobby phone.
- Connectable lobby phone and household's video door phone with CMD-404CFU is as below. Lobby phone : UTP type LOBBY (Gate view, Multi panel) Household's video door phone : 4 line type CDV video door phone
- Wiring safeguard for CMD-404CFU(We can't guarantee the product quality when you don't follow the instructions as below.)
 - Wire 'IN' of CMD-404CFU to output of lobby phone or 'Out' of any other CMD-404CFU
 - Wire 'Line 1 ~ 4' of CMD-404CFU to video door phone (Max. 4 units)
 - CMD-404CFU take the signal from lobby phone and distribute it for 4 household's units and output the 6 line signal to the next CMD-404CFU. (Connection between IN-OUT : 1:1 - EIA/TIA-568B)
 - Max. distance between lobby phone and monitor is under 300 meter and use CMD-404CFU up to 40 pcs.

- Max. distance between CMD-404CFU and monitor is under 28 meter.
- CMD-404CFU needs an extra power supply.(More than DC 24V/500mA)
- Basically, one power supply(DC24V / 500 mA) supports one pcs of CMD-404CFU. However, if you need to connect more than one CMD-404CFU, you can connect up to 5 pcs and within 30 meter in one power line.
- This device(CMD-404CFU) is the floor distributor which can connect with UPT type lobby phone. If you connect with other devices, it may not be operated.
- Conversation is not available for 4 seconds from the first call.
- When the system power cut off in case of blackout, each device can't be recognized to each other because of communication problem. In this case, re-boot the video-phone.



4. Wiring



- LOBBY PHONE CMD-404CFU(1ST FLOOR) → CMD-404CFU(2ND FLOOR) →
... GATEVIEW VIDEOPHONE : UTP CABLE [CAT.5] - MAX 300m



5. Setting for Device ID & Mode

- For setting of distributor's ID, you can use DIP switches(8 CH) which is located at the back side of lobby phone.

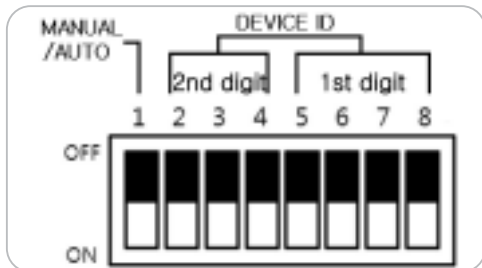
(If you install more than one pcs of lobby phone, each of them has their own ID.)

- Functions for each switches

No.1 (Select MANUAL / AUTO) : OFF= MANUAL / ON=AUTO

No. 2 ~ 4(Select ID : 2nd digit) : Consist of BCD code (Note for picture as below)

No. 5 ~ 6 (Select ID : 1st digit) : Consist of BCD code (Note for picture as below)



- Number notation of switch('2nd digits' can set with 3 switches and up to 7.)

Number	How to set up	Number	How to set up
0	OFF ON 2 3 4	4	OFF ON 1 2 4
1	OFF ON 2 3 5	5	OFF ON 1 2 5
2	OFF ON 2 3 6	6	OFF ON 1 2 6
3	OFF ON 2 3 7	7	OFF ON 1 2 7

Number	How to set up	Number	How to set up
0	OFF ON 1 2 3 4	5	OFF ON 1 2 3 5
1	OFF ON 1 2 3 6	6	OFF ON 1 2 3 7
2	OFF ON 1 2 3 8	7	OFF ON 1 2 3 9
3	OFF ON 1 2 4 5	8	OFF ON 1 2 4 6
4	OFF ON 1 2 4 7	9	OFF ON 1 2 4 8

[Set '2nd digit' number : 0~7]

[Set '1st digit' number : 0~9]

** Range of ID setting : Between 1 ~ 79 (MAX) **

- Select 'Auto / Manual mode'

1. Auto Mode (ON) : If No.1 switch is on while the device is booting, it will be operated with Auto mode.

Household number will be allocated automatically in order by previously set ID number of lobby phone.

(Bldg. No. = Fixed Bldg No. 101, 'Lobby phone ID' X '4' = 'number of the last household unit')

Ex) Set the lobby phone ID = 1

Line 1 of CMD-404CFU = Bldg No. 101, Household No. 1

Line 2 of CMD-404CFU = Bldg No. 101, Household No. 2

Line 3 of CMD-404CFU = Bldg No. 101, Household No. 3

Line 4 of CMD-404CFU = Bldg No. 101, Household No. 4

(1(Lobby phone ID No.) X 4 = 4[The last household unit number])

Ex) Set the lobby phone ID = 79(max)

Line 1 of CMD-404CFU = Bldg No. 101, Household No. 313

Line 2 of CMD-404CFU = Bldg No. 101, Household No. 314

Line 3 of CMD-404CFU = Bldg No. 101, Household No. 315

Line 4 of CMD-404CFU = Bldg No. 101, Household No. 316

(79(Lobby phone ID No.) X 4 = 316[The last household unit number])

※ **Note : In the Auto Mode, Bldg No. will be fixed with 101.**

2. Manual Mode(OFF) : If No.1 switch is off while the device is booting, it will be operated with Manual mode.

From lobby phone, you can set the Bldg No. or household No. by yourself.

Ex) : Bldg No. 102, Household No. 1314 or Bldg No. 501, Household No. 405 , etc

(Warning : The lobby phone that we provide additionally can be operated in the MANUAL

mode.)

When you register the lobby information to floor distributor from the lobby phone, this floor distributor will be set with the building No. of lobby phone.

After that, the household unit which is connected with this floor distributor can check the image of lobby phone during monitoring mode.

- Initialization

When you turn on the power while all the switch(1~8) is on or off, you can initialize the CMD-404CFU.

(Initialization value = Allocate with Bldg No. 101, household No. 1(line 1), 2(line 2), 3(line 3) or 4(line 4))

< Warning : After complete the setting, please reboot your devices so your setting value will be apply to the device. >



6. Specification

Spec \ Model	CMD-404CFU [Floor Distributor]
Transmission type	LOBBY 6 lines (Polarity), VIDEO-PHONE 4 lines(Polarity)
	(RJ45 CAT5e Patch Cable)
Power source	DC 24V / 80 mA (MAX)
Wiring	1. LOBBY (UTP type) 'IN'(input) of CMD-404CFU
	2. 'OUT'(output) of CMD-404CFU → 'IN'(extension) of CMD-404CFU
	3. LINE 1,2,3,4 of CMD-404CFU → 4 monitors of each floor
Distance	Max. 300m : Lobby phone → Monitor
	(Possible to connect Max. 40 PCS of Floor distributor)



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