Since 1968

COMMAX
SmartHome & Security

User Manual

COMMAX CONVERTER UNIT CCU-232AGF



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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. Feature

- This unit as a 32-channel distributor has to be use a power adapter separately.
- If a CCU-232AGF is installed among CCU-204AGFs, It has to be used by connecting 8-wires among floor distributors for power supply among CCU-204AGFs.
- This unit can be used by connecting with the 2-wire loop type Interphone (ex. AP-2SAG) manufactured in COMMAX.
- This unit can be also used by connecting with Phone what has a keypad.
- This unit connect with a lobby phone in 6-wires.
- Remote updating is possible by guard phone.
- Please make sure to check the wire sequence.
- Avoid duplication other devices ID.
- This unit s using a Power of DC24V/3A(Recommended RF-24AS by COMMAX).

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.

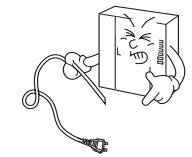
Warning

Power & Installation

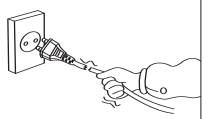
Please don't use several products at the same time on one power socket.
· It may cause a fire due to an abnormal overheating.



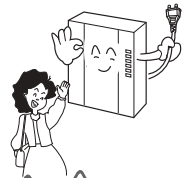
Please don't bend the power cable excessively or it may cause an electric shock.
· fire when using a damaged power cable.



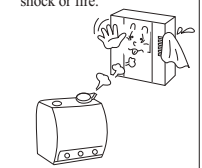
Please don't handle the power cable with a wet hand.
· It may cause an electric shock.



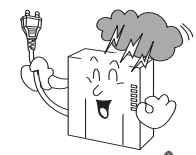
Please plug out the power cable from the socket when not using it for a long period of time.
· It may shorten the product lifespan or cause a fire.



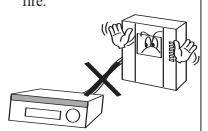
Please don't install the product in the place where there is much oil, smoke or humidity.
· It may cause an electric shock or fire.



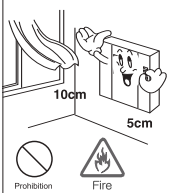
Please don't install the product with the lightening and thunder.
· It may cause an electric shock or fire.



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.



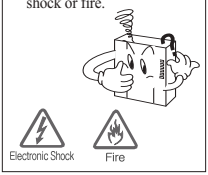
Warning

Cleaning & Use

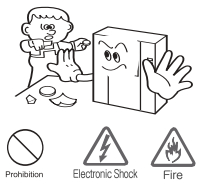
Please don't disassemble, repair or rebuild this product arbitrarily (please contact the service center if a repair is needed.
· It may cause an electric shock or fire.



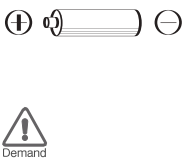
If an abnormal sound, burning smell or smoke is coming out of the product, please plug out the power cable and contact a service center.
· It may cause an electric shock or fire.



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



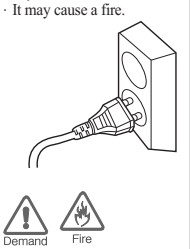
Please use only the designated batteries for the products of using DC power.
· It may cause an electric shock or fire.



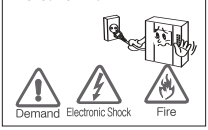
Caution

Power & Installation

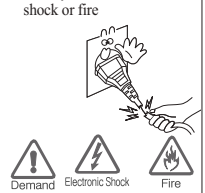
Please plug the power cable firmly into the inner end
· It may cause a fire.



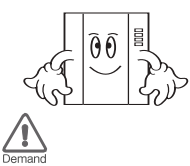
Please hold the plug tightly when unplugging the power cable (a part of the copper wire may be disconnected if the grabbing is only made on the cord when pulling out the cable).
· It may cause an electric shock or fire



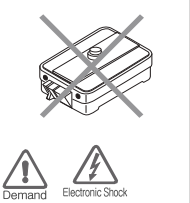
When connecting the power cables after cutting the cable, please install the product with power off
· It may cause an electric shock or fire



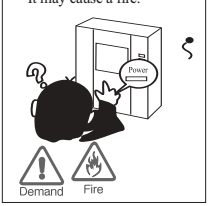
When installing the product, please fix it firmly while using the wall-mounting unit and screws.
· It may cause an injury from the falling object.



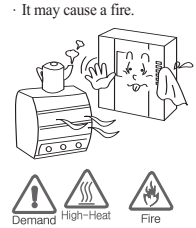
Please be careful when using an AC circuit breaker since there is a possibility of an electric shock.



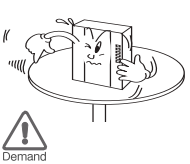
Please check the use voltage and current for the DC-only products and use the appropriate rectifier.
· It may cause a fire.



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.

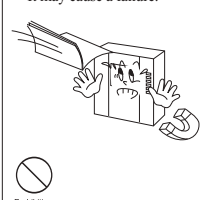


Cleaning & Use

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.

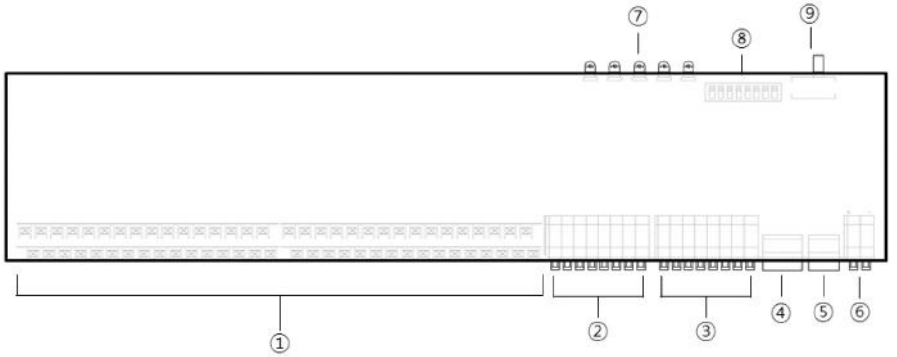


Please use the designated connection cable within the maximum calling distance designated for the product
· It may reduce the product performance.



3. The name & Function

3-1. Draft & Table Name



No.	Part	No.	Part
1	Household input & output	6	Power Input Terminal
2	Common line input	7	STATUS LED
3	Common line input	8	ID SWITCH
4	Program terminal	9	POWER SWITCH
5	Connect terminal		

3-2. FUNCTION

① Household in& output terminal : house hold call line input terminal.
② Common line output terminal : Distributor Common line output terminal
③ Common line input terminal :
Lobby Common line & Distributor common line input terminal
④ Program terminal : This product is a terminal for program download.
⑤ RS-232 Connection terminal : you can use it If you change settings by a PC.
⑥ Power input terminal : RF-24AS Adaptor connection terminal.
⑦ Status LED : LED is on depending to the status.
1) Power LED : The LED is on when the power is on.
2) Lobby call LED : The LED is on when calling between HOUSEHOLD & LOBBY.
3) Guard call LED : The LED is on when calling between Household & Guard or House hold.
4) Data LED : The LED is on when transferring data between devices.
5) Error check LED : The LED is on when Error.
⑧ The Switch to set up the ID : This is The DIP SWITCH to set the ID.
⑨ Power switch : ON/OFF SWITCH FOR POWER.

4. Manual to use

4-1. Door open function of the Lobby (Control function of household interphone)

- Pls. proceed as follows if you want to open the door with the interphone while talking to Lobby phone.

4-1-1 : Method using the Hook switch

(1) Press & release the hook switch for 1 seconds.

(2) This opens the door.

(3) Pls. down the handset To end the call.

(Caution : Guard room is called if you do not hang up in a period time)

4-1-2 : The way to use the button for opening a door.

(if you have a door open button in a household.)

(1) Press the door open button while talking to the lobby.

(2) Door is opened.

(3) Pls. down the handset To end the call.

4-2. The function of DTMF

- Pls. proceed as follows if you want to call the guard(or ohter household unit) or open the door.

4-2-1 The way to call other household unit

(1) Press the building number using keypad.

(2) Press '*' the building button.

(3) Press the unit number using keypad.

(4) Press '#' the call button.

(5) Talk as answered.

4-2-2 The way to call the guard station.

(1) Press the '#' the call button while hooking off.

(2) Talk as answered.

4-2-3 The way to open the door.

(1) Press the door open button while talking to the lobby.

(2) Door is opened.

(3) Pls. down the handset To end the call.

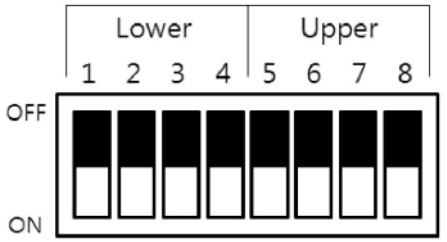
4-3. When changed by the guard phone :

refer to the use manual of linkage guard phone

4-4 The Method to set the device ID

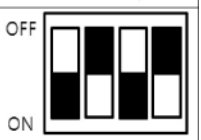
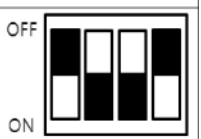
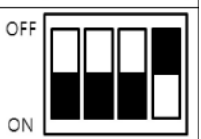
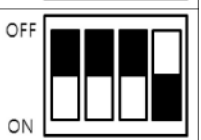
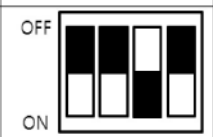
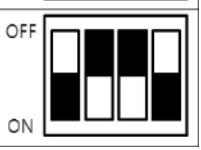
You should set the device ID up BCD code using DIP switch.

1) DIP switch is divided into two parts, Lower 4 bits(1~4) and Upper 4 bits(5~8)

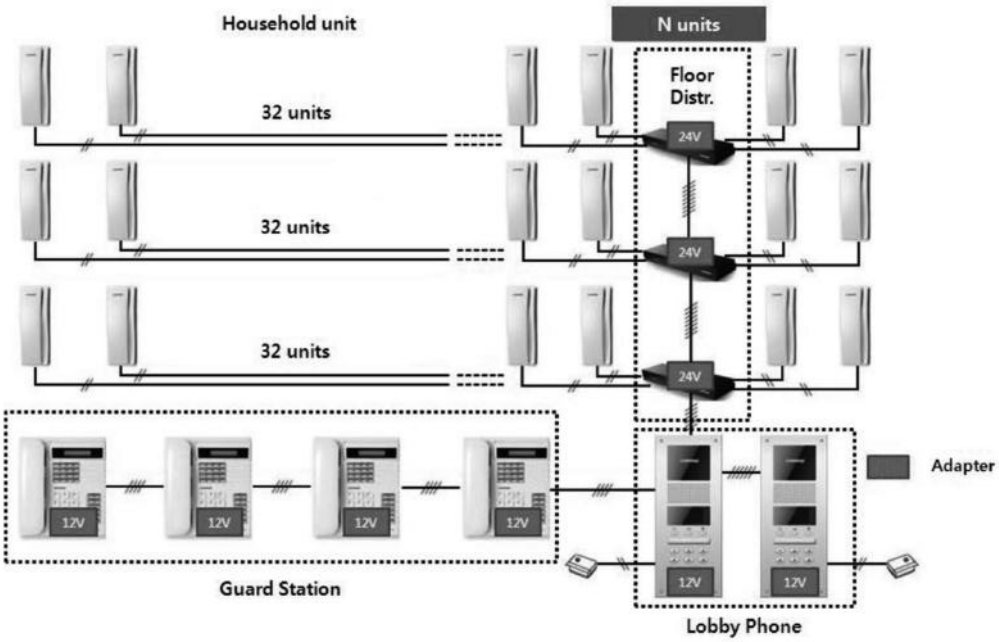


2) Lower bits are set up unit's place and Upper are ten's place.

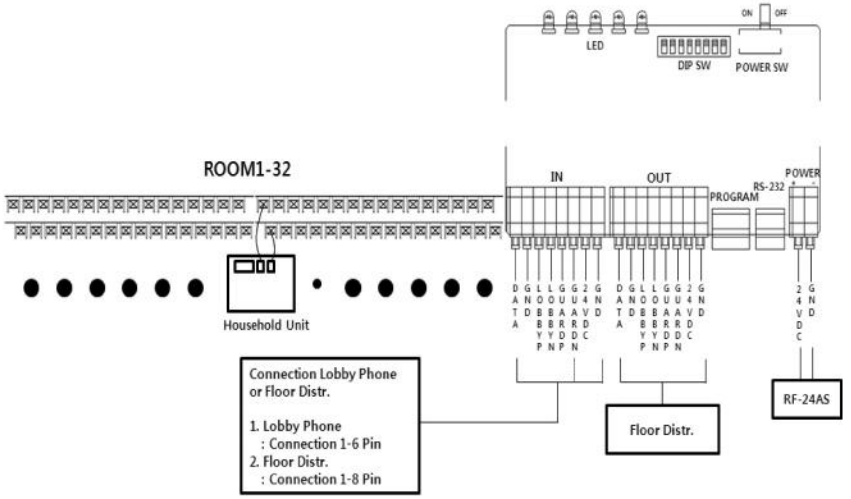
- You can set up to 99 IDs maximally.

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

5. System Diagram



6. wiring


LED
ON
OFF
DIP SW
POWER SW
ROOM1-32
IN
OUT
PROGRAM
RS-232
POWER
DATA
GND
LOBBY
LOUDN
BAYPR
GUARD
24VDC
GND
Household Unit
Connection Lobby Phone
or Floor Distr.
1. Lobby Phone
: Connection 1-6 Pin
2. Floor Distr.
: Connection 1-8 Pin
Floor Distr.
RF-24AS

7. Precautions.

- The product is damaged or if an error occurs, please contact directly to customer support team in headoffice.
- Do not place a flower vase or bottle on the product.
- A proper cutoff(the device can cut all) must be used Indoor wiring in a building when risk of fire or equipment occurs, press down the breaker of the building as soon as possible.
- First of all, off the power & install the unit or repair the product.

8. Others

- Before making a call for a faulty equipment, please read the manual thoroughly.
- Please check all status prior to making a customer service call.

9. Specifications and Characteristics

Model	CCU-232AGF
Wiring	To Lobby 6 Common Wires, To Floor Distributer 8 Common Wires
Power	24V ⎓ / 3A
Power consumption	Standby : 100mA
	Maximum : 330mA
Range	200 meter / ø ±0.65mm wire
	Household ↔ CCU-232AGF ↔ Guard

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