



# **Open Voice Intercom System**







### COMMAX Co.,Ltd.

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Printed In Korea / 2008. 12

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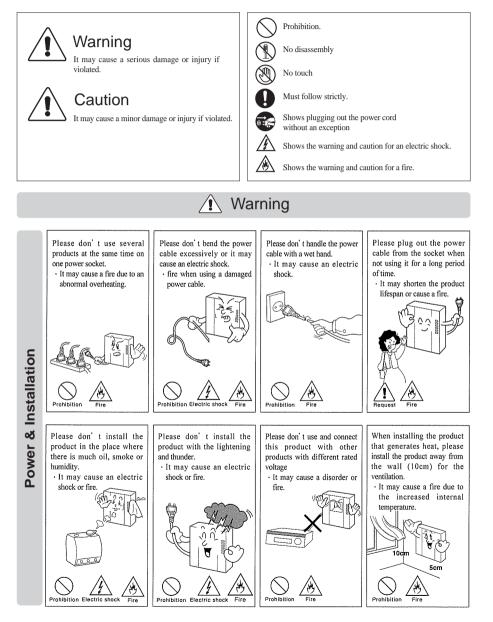
Instructions for users		
 evel-B product	The product is registered for electromagnetic compatibility for household use and can be used in all areas including residential areas.	

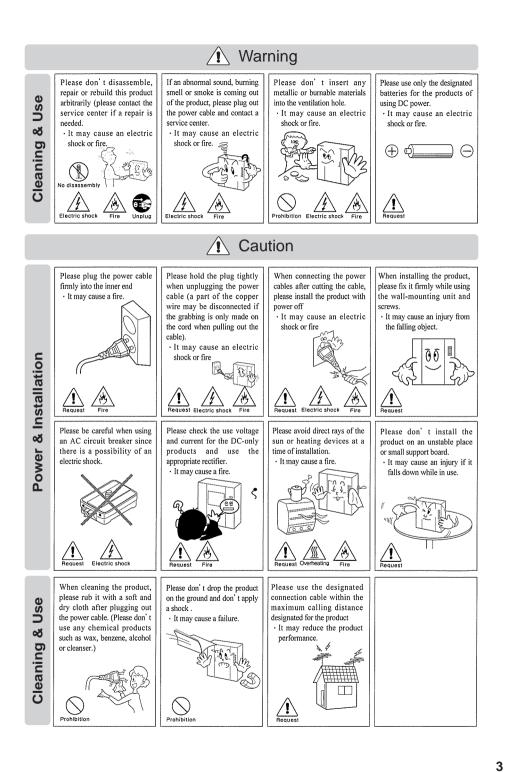
### 1. Greetings

- \* 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

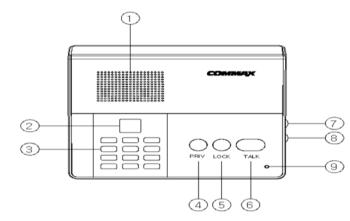
Please follow the things described below in order to prevent any danger or property damage.





## 3. Names and function of each part

3-1 Name of each part of CM-810M



NO	Description
1	Speaker
2	FND display unit
3	Ten key
4	PRIVACY function
5	LOCK(Hands-free communication)
6	TALK(Conversation)
7	Receiver Volume Control
8	Call Sound Volume Control Dial
9	MIC

- Receiver Volume Control: Regulating of voice of opponent, coming from outside.
- Calling Out Volume Control: it regulates volume of calling sound.
- PRIVACY Button: when this button is pushed, even under communication, voice of this person will not be transmitted to the other party. (preventing of eavesdropping is possible)

As CM-810M does not have a handset, you should press "Talk" button, during conversation, and press again one more time "Talk" button in order to finish conversation.

# 4. Operational functions

4-1 Setting methods before usage and precautions

#### 1) Setting of Melody ID

- If you press for 2 seconds button "\*", beep voice will sound and bell sound will enter setting mode.
- Word "Sd (SOUND)" will be shown in Display window, and current number of melody (initial number: 01) will flicker.
- At this moment, if you press 1 or 2, appropriate melody will be in effect.
- After melody is selected, push button " # "and finish melody selection.
- By pressing melody selection and button " # ", device will be automatically enter to ID setting mode
- ID in display window, and current ID (initial number: 01) will be sequentially flickered.
- After setting of ID is done, press " # " and setting for use will be over.

#### 2) Precautions

- Setting of ID should be done from 1 to 10 according to wiring state.
- In order to go over among Melody and ID setting, press "\*".
  (Example): For setting only ID : pressing about 2 seconds button "\*" + button "\*" + set ID number + button "#"
  For setting only melody: pressing about 2 seconds "\*" + Number of setting melody + button "\*"
- After entering into setting mode, if you do not press any button for 10 seconds, it will automatically go to initial state.

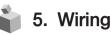
5-2 Master Station\_CM-810M How to use, guidelines for CM-810M

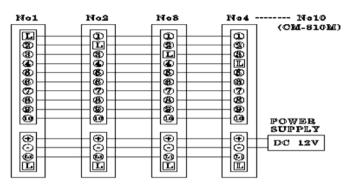
#### \*\* When you want to call and begin to talk

- 1) Press ID number of device to be called and then press button " # ".
- If bell lasts over 1.5 seconds, conversation mode automatically opens. Example: Calling to ID number 1: press "1 + # (Bell sound will occur)"
- When you press wrong number, error beep sound will occur. (It is possible to call from 1 to 10, and impossible to call into its ID number).
- When you enter wrong number, press "\*" and it will be annulated.
- 3) When calling, press Talk button and speak, release Talk Button, when listening.
- When talking is over, press again button<sup>r</sup>#<sub>J</sub>and finish conversation.

#### \*\* When you are called from other unit and want to speak

- If there is a call coming from another unit, you will see in display window "A(call)" words appear, after 1.5 seconds it get automatically in to speaking mode with appearing of "N" in display.
- 2) During of transmission it is possible to talk without handling any button.
- 3) If you press privacy button, it will be impossible to make eavesdropping over master unit.





#### 5-1 Wiring method

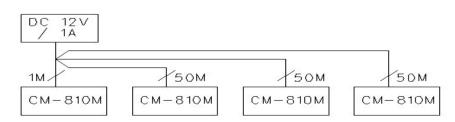
#### - This product use LINE CORD terminal for wiring.

- 1) Terminal 10P: It connects with LINE CORD 10P CONNECTOR. Number of this unit will be connected to terminal "L".
- 2) Terminal 4P : It connects with LINE CORD 4P CONNECTOR. ( + , , L1 , L )
- \*\* It is recommended to use Adaptor 12V Trans Type.

### 6. Power Specifications

This product's composition schema is different by distance of power supply units and quantity of installing intercom units.

#### 6-1 When we use only one RF-1A(DC12V/1A) (distance 50M)



- In case of usage of 12V/1A as it is in picture, maximum 4 units will be connected.
- It is needed to wire adaptor and first CM-810M at maximum closest way within 1 meter.
- It will possible to wire in parallel way by every 50 meters.

#### 6-2 When we use only one RF-1A(DC12V/1A) (Distance 100M)



- It is needed to wire adaptor and first CM-810M at maximum closest way within 1 meter.
- A distance between first and second units of CM-810M will be about 100 meters.

#### 6-3 When we use two RF-1A (DC12V/1A). (Distance 50M / 100M)



- It is needed to wire as closest as possible first CM-810M with power within 1 meter.
- Second and third CM-810M should be connected to each other in parallel way and installed in every 50 meters.
- After installing first CM-810M unit in 100 meters distance from fourth CM-810M unit, turn on second power supply.
- Place fourth unit of CM-810M maximum close to the power supply unit, within 1 meter.
- Place fifth and sixth CM-810M units by 50 meters distance from each other in parallel way.

#### 6-4 When we use 2 pieces RF-1A(DC12V/1A) (distance 200M at maximum)

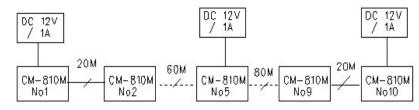


- Place first CM-810M and power supply unit within 1 meter in wiring.
- Please place first CM-810M and second CM-810M within 200M distance and turn on the power.
- Please install second CM-810M Unit and power supply unit within 1 meter.

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#### 6-5 When we use 3 pieces of RF-1A(DC12V/1A) (distance 20M)



- Make wiring distance between first unit of CM-810M and power supply unit within 1 meter.
- Place every CM-810M from first unit to tenth unit, putting them by 20 meters respectively between every unit.
- Turn on second power supply unit, connecting it to fifth CM-810M Unit, which is placed in middle of this structure.
- Wire fifth CM-810M unit by placing it from power unit within 1 meter.
- Turn on third power unit connecting it to the last CM-810M.
- Wire power unit with the last CM-810M within 1 meter.

### 7. Specifications and features

#### 7-1 Technical Specifications

Item	Description
Wire	CM-810M : 14 wires (Talking 10 wires, Power 2 wires, L & L1)
Power Source	DC12V 1A / RF-1A
Transmission way	Half duplex communication
Display Unit	FND
Power Consumption	Stand by : 50mA
	Maximum : 100mA
Communication	Maximum 200m (Ø0.65mm)
Distance	

#### 7-2 Features

- 1) Master between master communication.
- 2) Nice voice quality.
- 3) Hands-free communication.
- 4) High degree of sensitivity.
- 5) Privacy function prevents eavesdropping from others in the intercom system.
- 6) Offered with 3-call, 5-call channels(supporting up 6, or 10 stations).
- 7) Notify you of incoming calls with an electronic tone and an LED that indicates calling station.
- 8) Build your system with one or more master stations up to 10stations.

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