Since 1968



# **User Manual**

# COMMAX LOBBY PHONE DRC-500S



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. Greeing

- \* Thank you for purchasing our Commax product.
- \*You should read this user's manual carefully before operating the unit.
- \*This common method H/A system provides residents of apartment buildings with safety and convenience based on various built-in functions that protect homes from disasters such as crimes, natural disasters, etc.



### 2. Warnings and caution

Make sure to follow the instructions to prevent any danger or property losses.



Warning

Death or serious injury is expected.



It indicates prohibition.



It indicates prohibition of disassembly.



It indicates prohibition of contact.

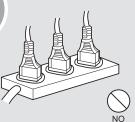


It indicates dos and don'ts.



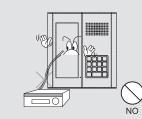
It indicates that the plug should be pulled out from the socket.





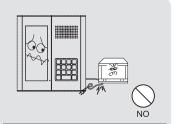
# Do not put the plug in the socket simultaneously.

It may generate abnormal heat or cause a fire.



# Do not connect to other products while in use.

It may cause breakdown.



# Do not forcibly bend the cord or put a heavy object on the product.

It may cause a fire.



# Do not use water, thinner or a detergent used to wash oil products when you wash the exterior.

Make sure to wash it by using a dry cloth to prevent any breakdown or electric shock.



# Do not install the product in a humid place.

It may cause an electric shock or



### Do not forcibly pull out the cord from the socket.

If the cord is damaged, it may cause a fire or an electric shock.



## Do not put the plug in the socket with a wet hand.

It may cause an electric shock.



### Do not disassemble, repair or modify the product.

It may cause a fire, an electric shock or an injury due to malfunction of the product



#### Do not use AC circuit breaker.

It may cause an electric shock.



### 2. Warnings and caution



Caution An injury or property losses are expected



It indicates prohibition.



It indicates prohibition of disassembly.



It indicates prohibition of contact.

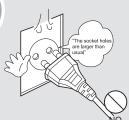


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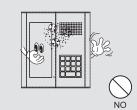
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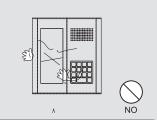


If the socket holes are larger than normal, do not put the plug.

It may cause an electric shock or a fire.

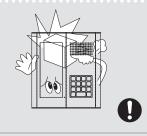


Make sure that dust or foreign substances are not gathered on the product.



Make sure to prevent foreign substances from entering the product.

It may cause a breakdown.



Do not put a heavy object on the product.

It may cause a breakdown.



Do not disassemble or give an impact to the product.



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



Install the product in a flat and stable place.

Otherwise, it may not function properly.



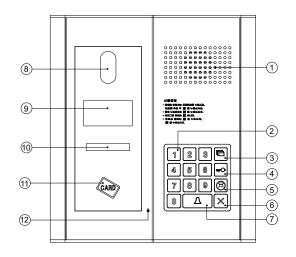
Pull the plug if the product is not used for a long time.

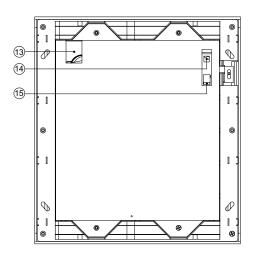


If the product generates strange sound, make sure to pull the plug immediately and contact Commax service center.



### 3. Part Names





1	Speaker
2	Dial Button
3	Programming button
4	Electric Key Button
(5)	Guard Call button

6	Cancel Button
7	Call Button
8	CCD Camera
9	Display Screen
10	LED

1	RF Card reader
12	MIC
13	Connector for hub
14)	Connector for door Lock
15	DC Power(14V/3A)



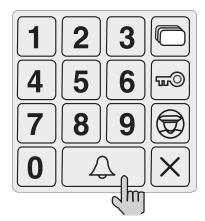
### 4. Features

It allows you to open the entrance by touching RF card on the reader.



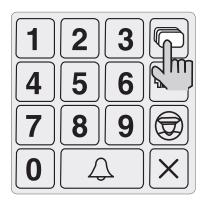
#### • 'A' button: Call button

Press "call" button to run as "Enter" on the computer after registering building numbers and residents number.



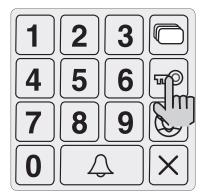
#### • ' button

: It is to set the environment. (use just for administrator)



#### • '堀② ' button

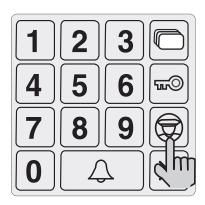
(When is used as scroll key: "down" directional key, Numeric Registration Key: Registration of a decimal point): It's to open the entrance with PIN.



### • ' button

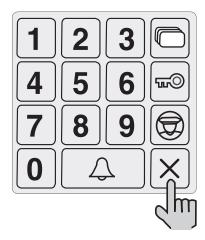
(When is used as scroll key: "down" directional key, Numeric Registration Key: Registration of a decimal point)

: It is to call up guard station.



### • 'X' button

: It is to cancel the current operation or to return initial mode when program setup is completed.





#### 5. Descriptions displayed in LCD

#### • Initial Screen



**REG**: The state of being registered in a server.

SIT : The state that only the use of VoIP serve is set but it is not registered in a server.

P2P: Peer to Peer Mode.

LCS : The state of be able to connect to Local server. (the sever is for use RF-ID card, PIN)

DAT: The state that all the information for RF card/PIN was downloaded from DRC-500S.

In case of interruptions in server, these back-up data is used for the access of visitors to the entrance. (Renewal every 12 hours).



### 6. Calling up a residence

1. Communication with residences

(When building number is set DRC- 500S in advance)

\* Building Number runs automatically, so jut enter residents' numbe Ex) when you call up resident number,101

Enter resident number 102 and then  $\triangle$ .







You can hear call sound.

The communication duration last for 60 seconds.

When the communication is completed, press "X" button to end the talk.

When "Door release" button is pressed from in-house unit during the communication,

"Door open" message is displayed on the screen.

#### 2. Communication with residence.

(There isn't input value in Call prefix; when building number isn't set DRC-500S in advance)

Enter building numbers and then resident number in order.

Ex) when you call up resident number, 101 , building number, 201



Enter building number 201 and then  $\triangle$ 





And then enter resident number, 101 and then \(\int\)







You can hear call sound.

The communication duration last for 60 seconds.

When the communication is completed, press "X" button to end the talk.

When "Door release" button is pressed from in-house unit during the communication, "Door open" message is displayed on the screen.

If you hear "busy" sound, press "X" button to retry it in a moment.



#### 7. Calling up a guard station

This is to call up the registered guard stations in advance by a manager Press "guard call" button and then  $\triangle$  .



"Making a call to guard station" message displayed in screen and call sound is heard

(ringer duration lasts for 30 seconds).

The communication duration lasts for 60 seconds.

When the communication is completed, press "X"button to end the talk. When "Door release" button is pressed from in-house unit during the communication, "Door open" message is displayed on the screen. If you hear "busy" sound, press "X" button to retry it.



### 8. Opening the entrance with PIN.

This is to open a common entrance with PIN registered in advance.

The PIN should be a registered in web site for user in the community in advance.

All the process of PIN should be done by web site.

Even the administrator of this system doesn't know it owing to security program.

The user is responsible for the management of the registered PIN.

And it is optional function to register or use PIN because there is possibility to disclose it.

Enter the residence number only and then '



Enter the residence PIN and then "A" button.



The common entrance get be opened with vocal message, "door opened" when the access is successful.



### 9. Opening the entrance with RF card.

It is to open the entrance with RF card registered in advance.

The RF cards should be registered to use in the management station in advance.

Touch RF Card on the reader of it.



The common entrance get be opened with a vocal message, "door opens" when the access is successful.

The entrance does not be opened when the access fails.



### 10. Environment Setup (use only for the management)

It is to setup the environment of DRC-500S. Press "PROG" button.



Enter "PIN" with 4 digits long and then 'Q' button.



- \*\* Default PIN is "0000" Note: Please make sure that you change the default PIN into new one for your security.
- Button Functions Button Functions



\* "•" is used as a Dot(.) to register

IP address in this function.

#### Setting Menu

0: Help+

1 : Set Network+

2 : Set Voip+

3 : Mangement

4 : Audio/Video+

5 : Extea Config+

6 : System Info+

7 : Test+

#### % Note :

Resetting the system should be done after the completion of the setup of IP ADDR., NETMASK, GATEWAY, DNS, ENS IP ADDR and UPDATE IP ADDR respectively.

#### 0 : Help+

0 : KeyMap (guidance of the use of buttons)

#### 1 : Set Network+

- 0 : Current Status(the status of current network setup is displayed)
- 1 : Static IP+
  - 0 : IP address : (Registration of IP address)
    - : G/W address (Registration of Gateway)
  - 2: DNS address (Registration of DNS)
  - 3 : Net mask (Registration of network mask)

#### 2 : Set VolP+

- 0 : Use SIP Server (Choice of the availability of using SIP server)
- 1 : SIP Server (Registration of SIP server address)
- 2 : Guard ID (Registration of ID of guard station.)
- 3 : Call Group (availability of using "Call Group")

#### 3: Management+

- 0 : Server address (Registration of local server address)
- 1 : Update address (Registration of server address for updating)
- 2 : System ID (Registration of ID of DRC-500S)
- 3 : Call Prefix (Setting a building number)
- \* Setup mode to register the building number is displayed automatically in case there is no input values in a building number.

#### 4: Audio/Video+

- 0: Audio+
  - 0 : Speaker Vol. (adjust speaker volume)
  - 1 : Mic Vol. (adjust mic. Volume)
  - 2 : Key Sound: (the selection of button sound type)
  - 3: Ring Sound (the selection of Ringer sound type)
  - 4 : Ring Vol. (adjust ringer sound)
- 1 : Video: +
  - 0 : Quality (adjust the video image quality of visitors)
  - \*\* Its video quality gets much better according to the choice one out of 384K/800K/1M/1.2M in order.

But Low level out of them should be selected as the case may be.

#### 5 : Extra Config+

- 0 : Language (Choice of language)
- 1: Set Time+
  - 0: Door Open Time (Setup the Door-open duration)
  - ◆ Values from 1 to 25 (unit :Seconds)
  - 1 : Backlight Time ( Setup LCD backlight )
  - ◆ Auto: The backlight turns on in use.
  - ◆ Always: The backlight keep being on.
  - 2 : Key Time Out
  - ◆ Return to the initial mode when there is not other input through button.

- 2 : Change Pwd (change Password)
  - ◆ The old password can be deleted by button.
- 3 : Auto Ring Off

(Selection of the availability to keep opening the communicating line with residence or a guard station for certain time after the entrance is opened )

- ◆ Auto : Cut the communicating line after the entrance is opened.
- ◆ Manual : Keep opening the communicating after the entrance is opened

Note: The communication should be completed by users in case of "Manual" mode,

- 4: Reboot (Reset the system)
- 5 : System Reset ( All the system values become default one)

#### 6 : System Info+

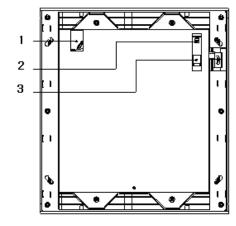
- 0 : Version (the version of software is displayed)
- 1 : Memory: (The status of memory is displayed)
- 2 : Kernel (information of OS is displayed)

#### 7 : Test+

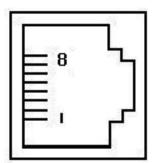
- 0 : Test Door Open (It is to test for opening the door)
- 1 : Test RF Card : (RF card number is displayed)
- ♦ It is useful to know RF card number.
  Touch RF card on the card reader in the status of "Reading..."



### 11. Wiring Diagram



#### 1. LAN Connection (1:1) Straight

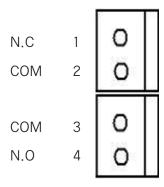


Direct connection with UTP CAT5.

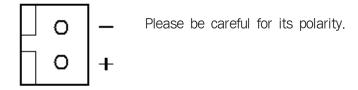
#### 2. Door Lock (NO,NC) Connection.

: COM 2 and COM3 are common wires and N.C1 is for "Normal Close connector" and N.O4 is for "Normal Open" one.

You can choice the connection according to the entrance type.



#### 3. DC 14V/3A Connection.





## 12. Specifications

Spec Model	DRC-500S
Transmission way	TCP / IP
Related voltage	DC 14V / 3A
Consumption	Max : 1A Standby :0.7A
Communication way	HANDS FREE Type
Display	LCD(128 * 64)
Call sound	Electric chime: So, Mi, Do (twice)
Operating temperature	0~ + 40°C



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