COMMAX
SmartHome & Security

User Manual

CIOT-L2TM

www.commax.com

COMMAX Co.,Ltd.

Table of Contents

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Safety Warning & 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.	🚫 Prohibition.
	🔧 No disassembly
	✋ No touch
⚠️ **Caution** It may cause a minor damage or injury if violated.	❗ 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 lightening 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.

10cm
5cm

Prohibition   Fire

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⚠ 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
Electric shock   Fire   Unplug

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.

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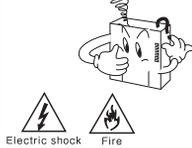
Please don't insert any metallic or burnable materials into the ventilation hole.
· It may cause an electric shock or fire.

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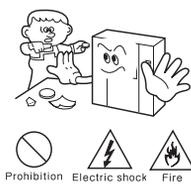
Please use only the designated batteries for the products of using DC power.
· It may cause an electric shock or fire.

Request
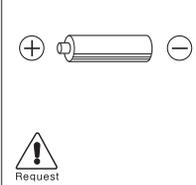
⚠ Caution

Power & Installation

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

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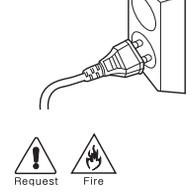
Please hold the plug tightly when unplugging the power cable (a part of the copper wire may be disconnected if the grabbing is only made on the cord when pulling out the cable).
· It may cause an electric shock or fire

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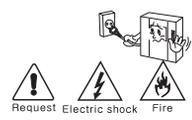
When connecting the power cables after cutting the cable, please install the product with power off
· It may cause an electric shock or fire

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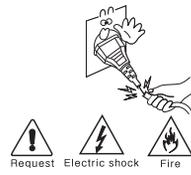
When installing the product, please fix it firmly while using the wall-mounting unit and screws.
· It may cause an injury from the falling object.

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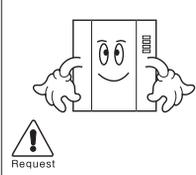
Please be careful when using an AC circuit breaker since there is a possibility of an electric shock.

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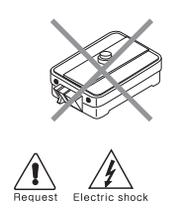
Please check the use voltage and current for the DC-only products and use the appropriate rectifier.
· It may cause a fire.

Request   Fire
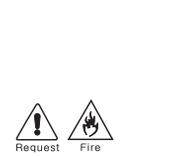
Please avoid direct rays of the sun or heating devices at a time of installation.
· It may cause a fire.

Request   Overheating   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.

Request
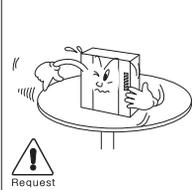
Cleaning & Use

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.)

Prohibition
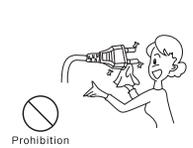
Please don't drop the product on the ground and don't apply a shock .
· It may cause a failure.

Prohibition

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

Request

3

1. CONFIGURATION
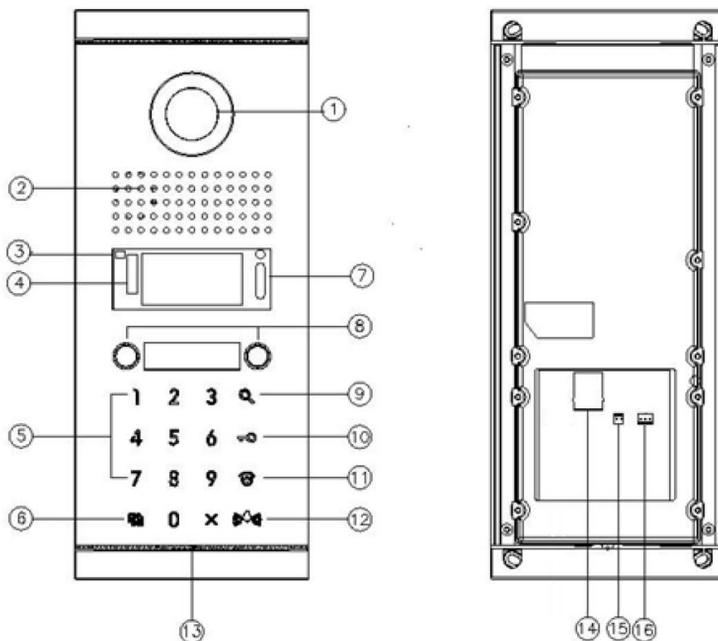
NO	NAME	NO	NAME
1	CAMERA	10	ELECTRONIC KEY BUTTON
2	SPEAKER	11	GUARD CALL
3	PROXIMITY SENSOR	12	CALL BUTTON
4	RF CARD READER	13	MIC
5	NUMERIC KEY BUTTON	14	LAN PORT
6	PROGRAM BUTTON	15	DC 14V
7	LED	16	DOOR OPEN
8	HOUSEHOLE CALL BUTTON		
9	NAME SEARCH BUTTON		

※ Proximity sensor
- OLED screen turns on automatically when a person approaches within a certain distance (1m).

※ Precautions for using proximity sensor
- If the outdoor temperature is below -20 ℃, the proximity sensor may not operate.

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2. Screen Setting

1.1. Initial Screen

2.1. Status Icon

Icon	Description	Icon	Description
NET	LAN Connectivity	REG	Connected to Server
OUT	OUT-Door Lobby Phone	SIP	Unconnected to Server
DNG	Building Lobby Phone	LCS	Local Server Connectivity
Dat	RF-Card Data Storage status		
BLE	BLE Connectivity Stats		

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3. Guard Call

① Press ⊗ (Guard Station) Button

② Press 🔔 (Call) Button.

③ Call Guard Station with Ring Sound.

④ When Guard Answers the Call, Talk to Guard (Talk Time: 1Minute)

⑤ Press "X" Button If you Want to Hang up.

⑥ When Guard Press "Door Open" Button, Door Open with "Door Open" Sound

⑦ If you Listen to "beEP" Sound, It Means the Line is busy. so, Please Call Later.

PIC.1. Guard Call

※ You can Call the Guard Which Was Registered by Operator.

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4. Household Call

4.1. Call Among Household

I. In Case Each Building No. is Registered :

Building No. Registered In Call Prefix

PIC.2. Household No. Registration Screen

① Enter Household No. In Keyboard.

Example) Household No. 101➔ Entry 101

② Press ♤(Call) Button

③ Call the Household with Ring Sound.

④ When the Household Answers the Call, Talk to the Household (Talk Time: 1Minute)

⑤ Press "X" Button If you want to Hang up.

⑥ When Household Press "Door Open" Button, Door Open with "Door Open" Sound

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II. In Case Building No. not Registered :

Building No. not Registered In Call Prefix

PIC.3. Building, Household No. Entry Screen

① Enter Building No. In Keyboard

Example) Building No. 101 ➔ Enter "101"

② Enter Household No. In Keyboard.

Example) Household No. 101 ➔ Enter "101"

③ Press 🔔(Call) Button

④ Call the Household with Ring Sound.

⑤ When the Household Answers the Call, Talk to the Household (Talk Time: 1Minute)

⑥ Press "X" Button If you Want to Hang up.

⑦ When Household Press "Door Open" Button, Door Open with "Door Open" Sound

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5. Entry Authorization

5.1. Entry with RF-Card

① Put RF-Card on card Reader.

② If Authorized, Door Open with "Door Open" Sound.

③ If Unauthorized, It Sounds a Dull Warning Sound.

PIC.4. Putting RF-card

5.2. Entry with Password

I. In Case Each Building No. Registered :

Building No. Registered In Call Prefix

① Enter Password In Keyboard.

② Press 🔑 (Key) Button.

③ Enter the Password of the Household No.

④ Press 🔔 (Call) Button.

⑤ If Authorized, Door Open with "Door Open" Sound.

⑥ If Unauthorized, It Sounds a Dull Warning Sound.

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II. In Case Building No. not Registered :
   Building No. not Registered In Call Prefix

① Enter Building No. In Keyboard
   Example) Building No. 101 ➜ Enter "101"
② Press 🔔(Call) Button.
③ Enter Household No. In Keyboard.
   Example) Household No. 101 ➜ Enter "101"
⑦ Press 🗝(Key) Button.
⑧ Enter the Password of the Household No.
⑨ Press 🔔(Call) Button.
⑩ If Authorized, Door Open with "Door Open" Sound.
⑪ If Unauthorized, It Sounds A Dull Warning Sound

PIC.5. Entering Password

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5.3. Entry with Password In Case of off-Line

Condition (Not Connected to Local Server)

① Press ⚷ (Key) Button.

② Enter the Password.

③ Press 🔔 (Call) Button.

※ Under on-Line Condition (Connected to Local Server), This Function does not work.

※ Under on-Line Condition, User must Delete Password for off-Line Entry.

6. Registration of Smart E-Key & Door Open

6.1. Registration of Smart E-Key

① Memorize'Gate name' Indicated In the Screen top of LobbyPhone. (EX: Gatename 0106-47)

② Input Gate name In 'Building/Lobby number'

③ Input the number of Household (EX: 101)

④ Input Password to Access to the Building (Password for a Wallpad)

⑤ Enter the Button 'Registration'
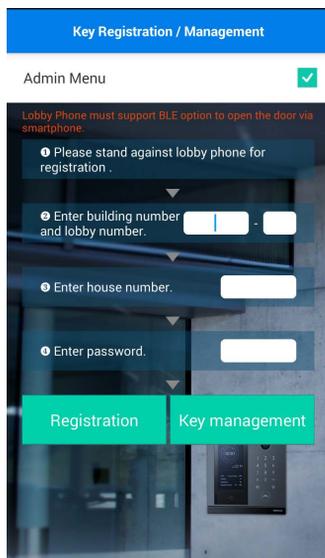
※ Precautions

1. Do not use the numbers '1234, 4321, 0000' as a Password for Wall pad.
2. Do not use the number '9999' for Building/Household number
3. The Maximum Quantity of E-Key Registration is 7 Keys. need to remove former E-Key to ADD.

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6.2. Open the Door at the Lobby.

① Press the Button 'Door Open' In GREEN Color.

② the Door is Open after two Seconds.
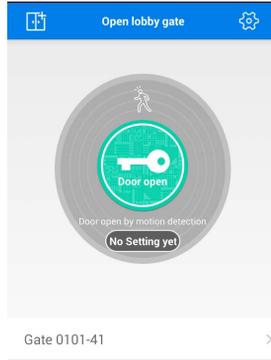
※ **Precautions**

- In Case of Change or Deletion of Lobby Password, Please Register E-Key once again.

※ BLE Module name set-up

- BLE Module name will be Combined Call Prefix number with System ID.

  (EX) Call Prefix : 106, System ID : 40

      Gate (BLE Module name) : 0106-40

- BLE Function is not Available with Outdoor Lobby Phone

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7. Name Search

   ①   Press the Button 🔍 (Name Search).

   ②   Input the name on the Keypad.

   ③   Select the name you are Looking for by using up🔑(Key) & down🛡️(Guard) Buttons.

   ④   Press the Button 🔔(Call) to Call the Household.

```
┌──────────────────────┐
│     Name Search      │
│        Nick          │
│───────────────────── │
│       Monica         │
│        Kelly         │
└──────────────────────┘
```

8. General Setting

Settings

   ①   Press the Button 🗐..

   ②   Input your Password..

   ③   Presee the Button 🔔 (Call)

※ For Network Security, Please Change the Password for the First use. ※
Initialization of the Password: 🗐 + "0000" + 🗐 + 🔑 + 🛡️ + 🗐 + 🔔 🔔

How to use the Buttons

```
┌─────────────────────────┐
│ 🗐 - Clear    - Cancel   │
│ 🔑 - Up,•   🔔 - OK      │
│ 🛡️ - Down,•              │
└─────────────────────────┘
```
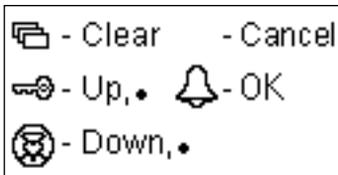
※When you Input the IP Address, use the Buttons 🔑 and 🛡️ "•".

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Menu of the Settings

0: set Network+

  0: IP Address: (Input IP Address)

  1: G/W Address (Input Gateway Address)

  2: DNS Address (Input DNS Address)

  3: NET Mask (Input Network Mask)

1: set VoIP+

  0: SIP Server (Input SIP Server Address)

  1: Guard ID (Input Guard ID)

2: Management+

  0: Server Address (Input Local Server Address)

  1: update Address (Input update Server Address)

  2: System ID (Input Serial number of the Product)

  3: Call Prefix (Setting Building number)

  * In Case of No Input Building number, Input Screen will Automatically Appease.

  4: Call Line+

    0: Min Call Line (Input Minimum Call Line)

    1: Max Call Line (Input Maximum Call Line)

    * Caution : If Min Call Line is Higher than Max Call Line, It's not Possible to Call.

  5: Position (Setting the Installation Place of the Product)

※ use the Button ⌨ for Setting Aboveground and the Button ⧆ for belowground.
EX) Press the Button ⌨ to Indicate'1', the Button ⧆ to Indicate'B1'.

※ If you Do not Input the Floor, the First Floor will be Automatically set.

※ In Case of Change of System ID and Call Prefix, BLE Module name will be Changed.

3: Audio/Video+

  0: Audio+

    0: General SPE. VOL. (Speaker Volume Control When Calling Household)

    1: General MIC VOL. (Microphone Volume Control When Calling Household)

    2: Guard SPE. VOL. (Speaker volume Control When Calling Guard)

    3: Guard MIC VOL. (MICRO Phone Volume Control When Calling Guard)

    4: General number Speech (Setting Voice Button of Building/Household numbers)

    5: Key Sound (Setting Key Sound)

    6: Ring Sound (Setting Ring Sound)

    7. Key VOL. (Setting Key Volume)

    8. Ring VOL. (Setting Ring Volume)

    9: EFFECT VOL. (Setting Sound EFFECT Volume)

    10: Initialization (Audio Initialization)

  * all Settings In Audio Menu will be Initialization .

  1: Video:+

    0: Quality (Adjust Video Quality)

    * Available to Adjust the Quality by 1M/2M/3M.

    ※ Date size Increases In Higher Quality.

    1: Resolution

     *　480P(640*480)/720P(1280*720)/1080P(1920*1080)

    2: Initialization (Video Initialization)

  * all Settings In Video Menu will be Initialization .

4: EXTRA Config+

  0: Language (Select Language)

  1: Skin theme

    0: auto

    * It Automatically sets once a day When Boots up Skin theme.

    1: FLIP Clock

* Fix the Skin theme by FLIP Clock type.

2: RED Clock

* Fix the Skin theme by RED Clock type.

3: GREEN Clock

* Fix the Skin theme by GREEN Clock type.

4: BLACK Clock

* Fix the Skin theme by BLACK Clock type.

2: set Time+

0: Door Open Time

* 2, 5, 10, 15, 20, 25 SEC. Selection

1: Sleep MODE Time

* 30 SEC., 1, 2, 3, 4, 5 Min. Selection

2: Key Time OUT

* 10, 20, 30 SEC. Selection.

3:use 24-HOUR format

* Select the type of Time (24Houres)

3: ADC Sensor

0: Distance (Change the Range of Distance Measurement of ADC Sensor)

* In Case of exposed to Direct   Sunlight, Distance will Shorten.

0:[ ] 100CM

1:[ ] 90CM

2:[*] 80CM

3:[ ] 70CM

4:[ ] 60CM

5:[ ] 50CM

6:[ ] 40CM

7:[ ] 30CM

8:[ ] Unused

1: Detection Hold Time

0:[ ] 200MS

1:[*] 300MS

2:[ ] 400MS

3:[ ] 500MS

4:[ ] 600MS

4: BLE Intensity

0:[ ] 1 step

1:[ ] 2 step

2:[ ] 3 step

3:[ ] 4 step

4:[*] 5 step

5:[ ] 6 step

6:[ ] 7 step

7:[ ] 8 step

5: Change PWD

* Please use the Button ⬚ to Change the Password.

6: off-Line PWD (Enter the Password to Open the Door When offline)

* Please use the Button ⬚ to Change the Password.

* Initial off-Line Password is 123456.

7: Reboot: (Operation System reboots)

8: System Reset (System is Reset to the Factory Settings)

* Changed IP is not Initialization .

5: Database+

0: Password down. (download Household Password)

1: RF-card down. (download RF-card Date)

2: Password DEL. (Delete Household Password)

3: RF-card DEL. (Delete RF-card Date)

6: System Info+

0: Version (software Version)

1: BOOT (BOOT LOADER Information)

2: KERNEL (OS Information)

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7: Test+

0: Test Door Open

1: Test RF Card

* Check the number of RF-Card

* touch RF-Card to the RF-Card Reader

2: Test Elevator (TEST Calling Elevator)

3: ADC Sensor Test

4: Temp Sensor Test

* Check the Sensor In "DEFROSTER : on" MODE

5: Call Button Test

Call Button Test Reading... Panel : 0 Index : 1 Value : Unused	0 : Panel Index : 1 Setting Value "Unused"
Call Button Test Reading... Panel : 0 Index : 1 Value : 5678	0 : Panel Index : 1 Setting Household Calling "5678"
Call Button Test Reading... Panel : 0 Index : 8 Value : Guard	0 : Panel Index: 8 Setting Guard Calling

6: System Initialization

9. Web settings

It is Available to Access to the WEB System Inputting IP Address In Internet Browser.
(EX : http://10.254.1.17/login.php)

① Input the Password for the panel (Initial Password : 0000)

② Push the Button "login"

※ Computer and Lobby Phone should be Connected In the same Network.

9.1. System Info

9.1.1. Version Info

- Check the version of system
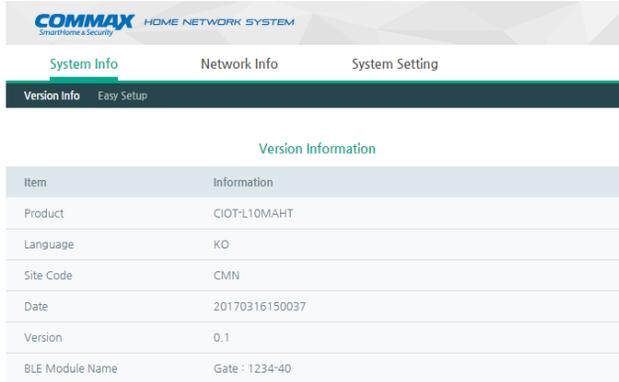
9.1.2. Easy Setup

- Call Prefix : Input the number of the Building

    * If you Do not Register the Building number, Date Input Screen will DisPLAY

    Automatically.

- System ID : Input Serial number of the Lobby Phone
- Guard ID : Input Guard ID

※ after Changing Call Prefix/System ID/Guard ID, Please Press the Button "update" of Each Item and Reboot the system.

9.2.   Network Info

9.2.1.   Network Info

- IP Address : Input IP Address

- Subnet Mask : Input Subnet Mask

- Gateway : Input Gateway Address

- DNS : Input DNS Address

  * after Setting all Information, Please Reboot the system.

9.2.2.   Server Info

- Local Server : Input Local Server Address

- SIP Server : Input SIP Server Address

- Update Server : Input update Server Address

9.2.3. System Reboot

- push the Button "Reboot" for all Settings to be applied.
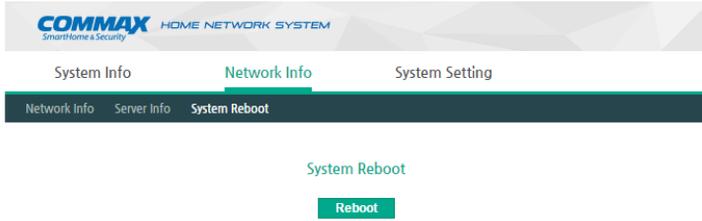
9.3. System Setting

9.3.1. Password

- Current Password

- New Password

- Re Password : Confirm new Password
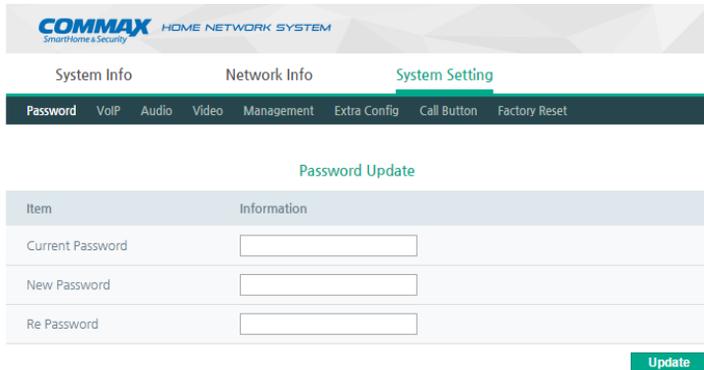
9.3.2. VoIP

- Guard ID : Input Guard ID

VoIP

Item	Information	
Guard ID	7000010050	Update

9.3.3. Audio

- General SPC Volume : Speaker Volume Control When Calling Household

- General MIC Volume : Microphone Volume Control When Calling Household

- Guard SPC Volume : Speaker Volume Control When Calling Guard

- Guard MIP Volume : Microphone Volume Control When Calling Guard

- Key Sound : Setting Key Sound

- Ring Sound : Setting Ring Sound

- Key Volume : Setting Key Volume

- Ring Volume : Setting Ring Volume

- Effect Volume : Setting Sound EFFECT Volume

- Number Speech : Setting Voice Button of Building/Household numbers

Audio

Item	Information	
Gener SPC Volume	2(0dB)	Update
Gener MIC Volume	2(18dB)	Update
Guard SPC Volume	2(-3dB)	Update
Guard MIC Volume	2(22dB)	Update
Key Sound	Key 1	Update
Ring Sound	Happy Day	Update
Key Volume	7(14)	Update
Ring Volume	7(14)	Update
Effect Volume	7(14)	Update
Number Speech	Use	Update

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9.3.4.　Video

- Video Quality : Adjust Video Quality

　　* Available to Adjust the Quality by 1M/2M/3M

　　※ Date size Increases In Higher Quality

	Video	
Item	Information	
Video Quality	2M ▼	Update

9.3.5.　Management

- Call Prefix : Setting Household number

- System ID : Input the Serial number of the Product

- Call Min Line : Input Minimum Call Line

- Call Max Line : Input Maximum Call Line

- BLE Intensity : Setting BLE Intensity

- Proximity Sensor Distance : Setting the Range of Distance Measurement of ADC Sensor

* In Case of exposed to Direct　Sunlight, Distance will Shorten.

- Proximity Sensor Hold Type : Setting Detection Hold Time

	Management	
Item	Information	
Call Prefix	1234 Reboot is required after update.	Update
System ID	40 Reboot is required after update.	Update
Call Min Line	0	Update
Call Max Line	0	Update
BLE Intensity	5 ▼	Update
Proximity Sensor Distance	80cm ▼	Update
Proximity Sensor Hold Time	300ms ▼	Update

9.3.6.　Extra Config

- Language : Setting Language

- Door Open Time : Setting Time for Door Open

　　* 2, 5, 10, 15, 20, 25 SEC. Selection

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- Sleep Mode Time : Setting Time of OLCD Sleep Mode
    * 30 SEC., 1, 2, 3, 4, 5 Min. Selection
- Key Time Out
  * 10, 20, 30 SEC. Selection
- Use 24-hour format : Select the type of Time (24Houres)
- Off-Line Password : Enter the Password to Open the Door When offline
  * Initial off-Line Password is 123456

Extra Config

Item	Information	
Language	English ▾	Update
Door Open Time	5 Sec ▾	Update
Sleep Mode Time	30 Sec ▾	Update
Key Timeout	10 Sec ▾	Update
Use 24-hour Format	No ▾	Update
Off-line Password	123456	Update

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9.3.7. Call Button

- Guard Setting : Available to set only one Button In the panel.

- Unused : not use the Button

9.3.8. Factory Reset

- System is Reset to the Factory Settings

  * Changed IP is not Initialization .

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System Info	Network Info	System Setting

Password	VoIP	Audio	Video	Management	Extra Config	Call Button	Factory Reset

Factory Reset

After Factory Reset, IP is not changed.

Reset
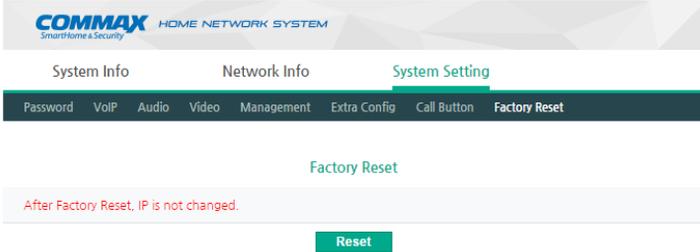
9.4. Initialize the Password

- Input "Lobby IP/key_event.php" Into the WEB BROWSER.

  (EX : http://10.254.1.17/key_event.php)

ⓘ 10.254.1.17/key_event.php

MAX HOME NETWORK SYSTEM
Security

1	2	3
4	5	6
7	8	9
X	0	Key
Prg	Bell	Guard
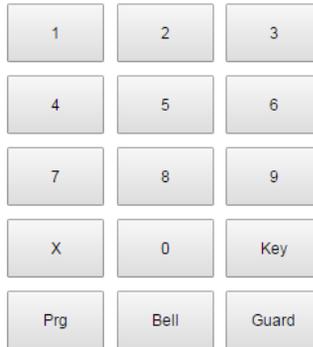
※ Please Change the Initial Password(0000) for SAFETY.

※ How to Initialize : Prg + "0000" + Prg + Key + Guard + Prg + Bell

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10.Wiring Diagram
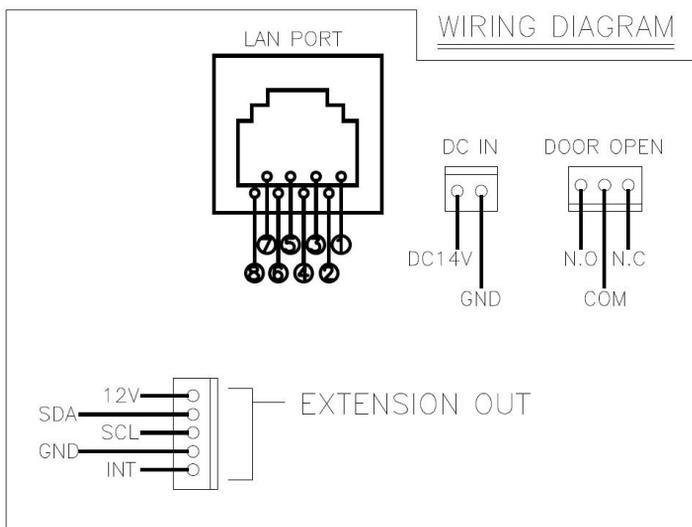
11. Specifications

Model name Specification	7 ℂH!@&HA
Transmission	TCP/IP
Voltage	DC14V/1.8A
Power Consumption	Max : 1.4A Standby :0.35A
Telecommunication	VoIP
Display	&"(" ℂL9D
Video Format	H.264 / MPEG4
Camera Pixel	&"$˙A Y[U˙D]l Y`
Call tone	Electric chime : 3 Melody 2 times
Temperature	Using : - 40° ~ 50 °

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