
Apartment System



USER'S MANUAL

Congratulations

on the purchase of your new video intercom system!

Please read these instructions carefully before installing your system and follow all of the directions to ensure proper installation.

This instruction manual explains in simple steps how to install, use and care for your new video doorphone system in homes, offices or businesses.

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■ Specifications

✍ Video indoor monitor

1. Temperature: -20~+50°C
2. Humidity: <85%
3. Harmonic distortion: ≤5%
4. Size:
Dimension: 164*260*26(mm)
Installation: Surface wall mount type

✍ Video outdoor station

1. Working Voltage: DC12V
2. Rated power: 2.5W
3. Operating Temperature: -20~+70°C
4. Standby power consumption: 0.7W
5. Camera: 1/3"CCD
6. Resolution: 420TVLine bi-directional talking
7. Talking Mode: Bi-directional talking
8. Minimum illumination: 0.05LuX
9. Talking time: 45S
10. Indoor phone capacity: 99999 sets
11. Size:
Dimension: 316*136*56(mm)
Build-in size: 280*114*34(mm)

■ Feature List

Video indoor monitor

1. 5.6, 7 inch LCD
2. Touch Screen (optional)
3. Hands-free speaking
4. Bi-directional speaking with outdoor station and management center
5. Remote control unlock, password unlock
6. Monitoring entrance
7. 6 alarm stations (optional)
8. Message receiving (optional)
9. Color: optional color or electroplating mirror

Video outdoor station

1. Aluminium-alloy and ABS surface
2. High lightness keypad and background lamp
3. Maximum capacity: 99999 households
4. B/W/Color CCD camera, with infrared night vision function
5. Calling indoor monitor and management center
6. 32 groups password unlock, sensor card unlock and remote control unlock
7. Compatible with audio indoor phone

■ Important Safety Precautions

1. Read instructions

All safety and operating instructions should be read before the unit is operated or installed.

2. Water and Moisture

Do not use this product near water. Protect all outdoor connections and power cord from moisture.

3. Ventilation

Slots and openings in the cabinet are provided for ventilation and to protect it from overheating.

4. Cleaning

Unplug this product from the wall outlet before cleaning. Do not clean the cabinet with liquid cleaners, aerosol cleaners, gasoline or other types of flammable fluids.

5. Damage Requiring Service

Do not attempt to service this equipment yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Unplug this equipment from the power source and refer servicing to qualified service personnel under the following conditions:

6. Safety check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

7. Lightning

For added protection for this equipment before a lightning storm, unplug it from the monitor.

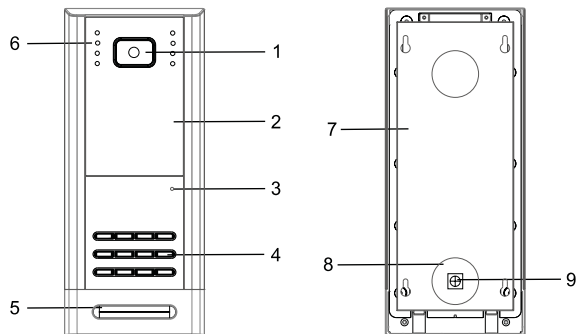
8. Accessories

Do not place this equipment on an unstable cart, stand or bracket etc. The equipment may fall, causing serious injury to a child or adult, and serious damage to the appliance.

Do not place this equipment directly on wood or simulated woods surfaces as these surfaces are easily damaged.

■ Location of Controls

Video outdoor panel



1. Camera lens
Color/B/W CCD
2. Numerical code tube display
Display the relevant information what users input
3. Microphone
Allow visitor to speak to you.
4. Button
Visitor presses the button to sound chime and active monitor, then the monitor will make a chime tone sound and show the picture of the visitor automatically.
5. Speaker
Allow visitor to hear you.
6. Infrared LEDs
Allow you to view visitors under any lighting conditions.
7. Built-in box
Fix the outdoor station on the wall.
8. Connection terminals
Connect to power supply and isolator.
9. Speaker volume control
Adjust the speaker volume before installation.

4. Card number search

Press the **4** button, the outdoor station shows “-----”, then move the registered card closer to the card reader of the outdoor station, at the moment the outdoor station will show the card number. Repeat the same operation to search other card numbers.

5. How to Delete all the registered card numbers

Press the **5** button, the outdoor station shows “**ALL**”, then press the **#** button to confirm, the outdoor station will show “**OK**”, indicating that all the registered card numbers have been deleted, after that the outdoor station will show “00000” to indicate the quantity of registered card number at present is zero. You can press the ***** button to exit.

4 System Settings

Press the **4** button to enter the system settings menu, the outdoor station shows “**SETN**”, then you can do the following settings:

1. Isolator box/Indoor monitor number settings

NOTE:

*Before entering this menu you should move the SET1 switch to the **ON** position, Remember to move the SET1 switch back to the **OFF** position after the setting, otherwise it will affect the normal use of the system.*

Press the **2** button, the outdoor station shows “**SET--A**”, then you can do the following settings:

- ① Port number setting
- ◇ Auto setting

Press the **1** button, the outdoor station shows “--”, then you can enter “**00**” to set the isolator automatically. For example, to set a 2-branches isolator, enter “00” on the outdoor station, the screen shows “**NO**”. Enter the first indoor phone number 101, then the first port will be set as 101 while the second port will be set as 102, the outdoor station shows “**OK**”.

--" mode, enter the first 3 digits followed by the last 5 digits, then press the # button to confirm. Repeat this operation to register other card.

NOTE:

You can register up to 99 groups card numbers each time.

If the memory of the card is full, the screen shows "FULL", you failed to register the continuous card numbers when the storage capacity of the card is not enough. If the storage capacity can only keep 10 groups card numbers finally, when the screen shows "--", you can only enter a digit no more than 10. Otherwise the screen will show "--" again. The card storage capacity usually be default as 1000 groups of card numbers when they delivered from the factory.

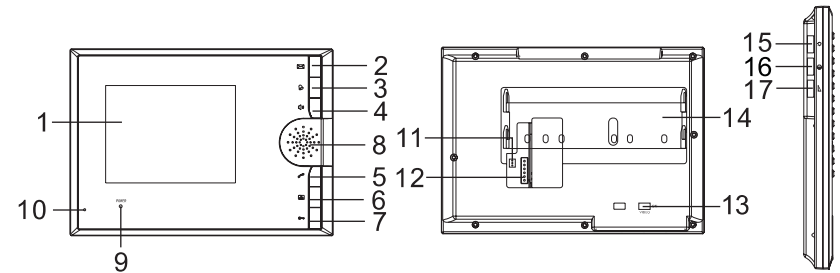
2. How to use the Card to register directly







Press the 2 button, the outdoor station shows "rEg", then move the card closer to the card reader of the outdoor station. If the outdoor station shows the card number "*****", it indicates the card has been registered to the outdoor station successfully. Repeat this operation to register other cards. If the card has been registered to the outdoor station before, the outdoor station shows "old".

3. Card number deleting

Press the 3 button, the outdoor station shows "dELE", then enter the card number you want to delete, press the # button to confirm. The outdoor station will show "OK" to confirm the deletion or "ouT" to indicate there is something wrong. Repeat the same operation to delete other card numbers.

Video indoor monitor



1. Monitor screen
7.0" TFT.
2. Message (optional) 
Available for the super apartment system.
2. Chime (optional) 
Available for the super apartment system.
4. Hand-free button 
Press this button to talk to the visitor.
5. Call button (optional) 
Press this button to call the management center.
6. Monitor button 
Press this button to activate camera and view the picture on the monitor screen.
7. Unlock button 
Press the button to open the door and let your visitors come in.
8. Speaker
Allow visitor to hear you.
9. Power LED
Indicate if the system is on or off.
10. Microphone
Allow visitor to speak to you.

11. Terminal block
Connect to isolator.
12. Terminal block
Connect to isolator.
13. Video switch
Adjust the video signal from outdoor panel.
14. Wall bracket
Fix the indoor monitor on the wall.
15. Brightness trimmer
Adjust the image brightness.
16. Contrast trimmer
Adjust the image contrast.
17. Volume trimmer
Adjust the ring volume.

3 Card unlock feature

Use the card which has registered to the outdoor station to unlock the door.

Keep the card within a parallel distance of less than 5cm from the card reader in the outdoor station. Drive in a speed of less than 30cm per second.

NOTE:

During a conversation between the door keeper(management center)and the indoor phone or when the indoor phone monitors the outdoor station, this feature can still work normally.

Press the **3** button to enter the card management menu, the outdoor station will show the quantity of the card number which have been registered then shows “**Card**”, then you can do the following settings:

1. How to enter the card number to register the relevant card
Press the **1** button, the outdoor station shows “**regn**”, then enter the card number directly. If the card number is “192, 12345”, you should enter the first 3 digits “192” first, at this time, the display screen shows “----”. Then enter the last 5 digits “12345”, press the **#** button, the screen shows “--”. At this point if only one card number needs to be registered, you can press the **#** button again to confirm then the screen will show “**OK**” to indicate the card number has been registered successfully. If a series of continuous card numbers need to be registered, for example, from “192, 12345” to “192, 12364”, you need to enter the cards number “20” when the screen shows “--” then press the **#** button, the screen will show “**OK**” to indicate these 20 groups of card numbers have been registered successfully. After registering successfully, the screen shows “----”, then you can register other card. If the first 3 digits of card number are the same as the previous one, you can enter the last 5 digits of card number directly. Otherwise you should press the ***** button to return to “-

4. Set the Main outdoor station and sub outdoor station

This menu is used to set the main outdoor station or sub outdoor station. All the outdoor stations are defaulted as main outdoor station from the factory, user can press **4** button to make change between the main outdoor station and sub outdoor station. For example, press the **4** button, if the outdoor station shows "**MAIn**", this outdoor station is set as the main station, To change it as sub outdoor station, the user can press button **4** again, it show "**Sub**" and press **#** to confirm.

NOTE:

There can only be one main outdoor station in the same building.

2 Press the **2** button to enter the password management menu, the outdoor station shows "**PSW**", then you can do the following settings:

1. How to change the project password

Press the **1** button, the outdoor station shows "-----", you can enter the 6-digit new password. Then the outdoor station shows "-----", enter the new password again to confirm. If you enter the same password twice, the outdoor station shows "**OK**", the password can be modified successfully. Otherwise the outdoor station shows "**Err**".

2. How to change and search the public password

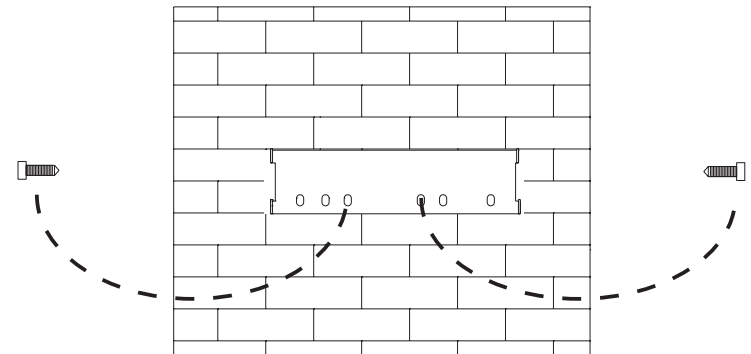
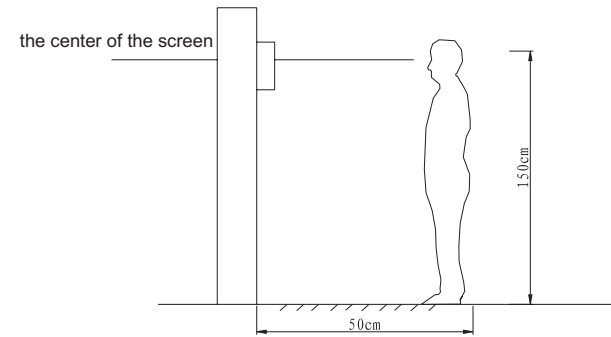
Press the **2** button, the outdoor station shows "**CODE**", then press the **#** button, the outdoor station shows "****" (the old password you have set) or "----". After you enter a 4-digit new password, the outdoor station shows "**OK**", the new password replace the old one. If the outdoor station shows "----", which indicates no password saved before. At this time if you enter a new 4-digit password, the outdoor station will show "**OK**" to save it.

Press "**#**" key continuously, you can search other saved and valid public passwords (Max. 32 groups).

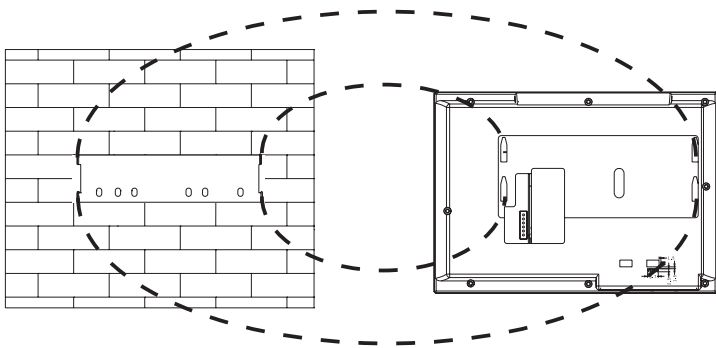
■ Installation Instruction

🔗 Video indoor monitor

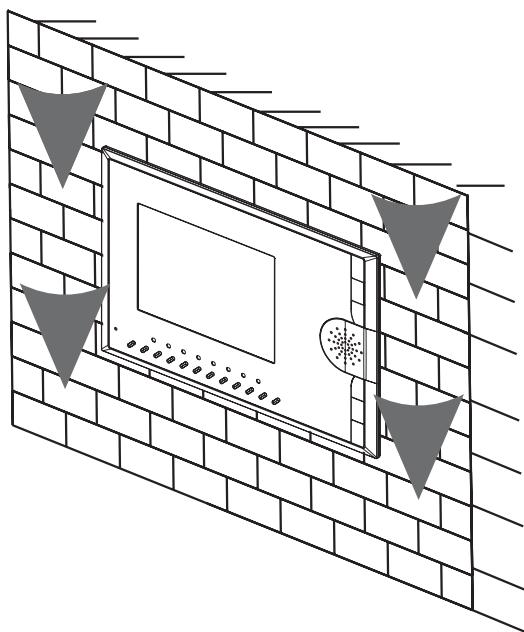
1. Fix up the iron hanging bracket on the wall, then drill the screws in it.



2. Connect the indoor monitor with the cable, then hang it on the bracket.



3. Pull downward indoor monitor and finish the installation.



1 Press the **1** button to enter the system configuration menu, the outdoor station shows “**SYST**”, then you can do the following settings:

1. Local number

Press the **1** button, the outdoor station shows “**d ******”. Enter the outdoor station number (up to 4 digits), press the **#** button to confirm. The outdoor station will show “**d******” on the screen. The “****” indicates the outdoor station number you have just entered. Then you can press the ***** button to exit the menu and enter the system configuration menu.

NOTE:

The length of local number (the Outdoor station number) add the length of the room number (please find details below) should not exceed 6 digitals. For example, if the room number is 101(3 digitals), then the local number should not exceed 3 digitals.

2. Display length

Press the **2** button, the outdoor station shows “**LEN -***”. The “*” indicates the length of room number, for example, if the room number is “101”, it shows “**LEN -3**”, User can enter a value (select from 1 to 5) to change the length of the room number then press the **#** button to confirm. The outdoor station will return to the system configuration menu after that.

3. Display mode

This menu is used to set the display mode (numbers or letters) of room number. Press the **3** button, the outdoor station shows “-----”. Enter a 6 digitals “000000” or “111111” (“000000” represents the display with numbers, while “111111” represents the display in English format). If you make a mistake, use the ***** button or any numeric keys to cancel. After the setting the system will return to the system configuration menu automatically.

■ The Outdoor Station Programming

➤ Setup menu of Outdoor station

1 System configuration **SYST**

1. Local number
2. Display length
3. Display mode
4. Main outdoor station and sub outdoor station configuration

2 Password management **PSW**

1. How to change the project password
2. How to change and search the public password

3 Card unlock feature **CARD**

1. How to enter the card number to register the relevant card
2. How to use the card to register directly
3. Card number deleting
4. Card number searching
5. How to Delete all the registered card numbers

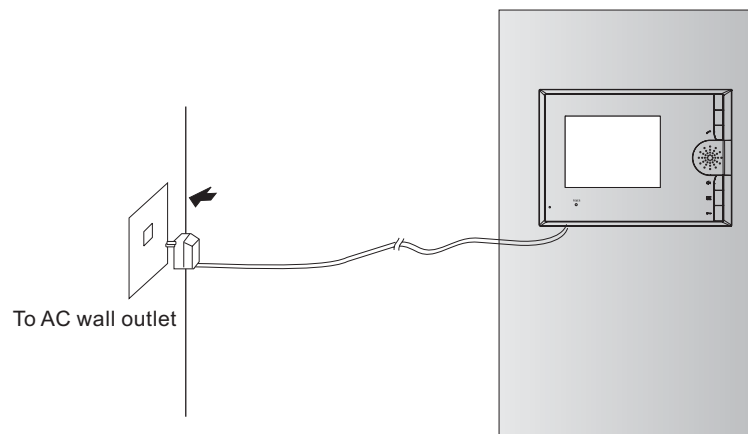
4 System settings **SETN**

1. Isolator box/Indoor monitor number settings
 - ① Port number setting
 - ② Port number deleting

➤ Programming operation of Outdoor station

Press and hold the **0** button 3 seconds, the outdoor station shows “**PWO**”. Enter 6-digit “Project password” (the default one is 000000), the outdoor station shows “**MEnU**”. In menu mode you can set the following menus: (Generally, the ***** button is used as exit button and the **#** button is used as confirm button).

4. Connect the indoor monitor to the standard AC wall outlet.



NOTES:

1. Do not install the indoor phone where it could be exposed to dirt, direct sunlight, other strong light, high temperature (over 40 degrees) or high humidity conditions.
2. Do not select an installation location that is subject to vibration or pounding.
3. Select a mounting close to an AC outlet where it is easy to view and operate the indoor phone.

Video outdoor station

1. Choose a proper location for the outdoor station. Be sure to consider the average height of visitors.
2. Dig a hole in the wall according to the dimension to allow the placement of the built-in box (see Figure 1).
3. Put the built-in box into the hole and fix it into the wall with four screws (see Figure 2).
4. Place the outdoor station inside the built-in box and leave the connection cable from the round hole of the built-in box (see Figure 3).
5. Drill two screws into the outdoor station from the bottom of the built-in box and tighten it (see Figure 4).

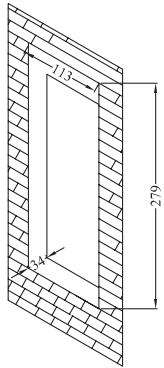


Figure 1

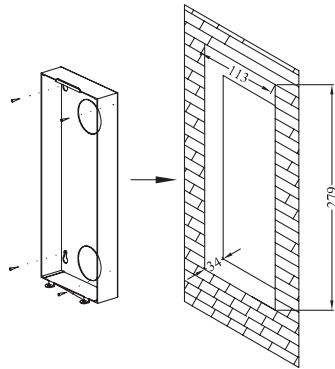





Figure 2

➤ **Password unlock**

32 Group Public password unlock

When the outdoor station is in standby mode, press the **#** button, the display screen will show **"No"**. Then press the **#** button again, the display screen will show **"----"**. At this time, enter any one group of Public password. If the password is correct, the door station will open the electric control lock, and the display screen shows **"oPEn"**. Otherwise it will return to standby mode.

➤ **Indoor phone monitors the outdoor station**


In on-hook state, you can press the  button to monitor the outdoor station. During the monitoring process press the  button again to turn off the CRT and end the monitor. If you press the  button in the monitoring state, you can open the electric-controlled lock of the door and turn off the CRT to end the monitor.

■ System Operation

➤ *Conversation between Outdoor Station and Indoor Monitor*

1. When a visitor dials the room number, if the number is correct, the outdoor station sounds a pleasant **ringback tone**, the calling starts. If the number is incorrect or the indoor monitor does not exist, the outdoor station will display “**Err**” after a while, then it will return to standby mode.

2. If the calling is effective, the indoor monitor will sound a pleasant ring tone. At the same time the visitor's image will also appear on the display screen of the visual indoor phone. At this moment user can pick up the handset to talk with the visitor.

3. During the conversation, user can press the  button to open the electric-controlled lock of the corresponding door and end the call.

4. During the calling or conversation, if the * button on the door station is pressed, the current calling or conversation will be canceled, the outdoor station will return to standby mode.

5. If the user does not respond to the calling within 25 seconds, the system will give up the calling and return to standby mode.

6. If the talk time exceeds 45 seconds, the conversation will be cut off automatically.

7. When the indoor phone monitors the outdoor station, the display screen on the outdoor station shows “**MONI**”.

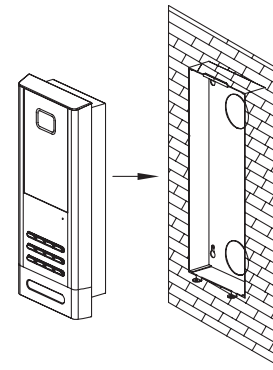


Figure 3

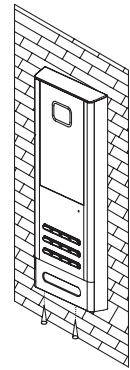
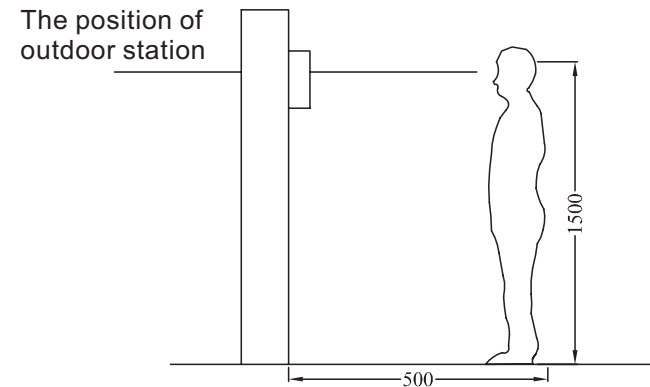


Figure 4



NOTE:

The dimension above all are actual dimension, the hole you need to dig should be larger.

System Schematic Diagram

