

Smart Video Intercom Doorbell WIFI Network Version User Manual



Please read this user manual carefully , before using this products

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Attention :The illustrations in this manual, the screen display, All in order to more directly in detail expound the operation of the products, due to the different version upgrades and production batch, they might a little different from the machine with you, If mentioned in this manual content does not accord with your machine, please refer to our machine .

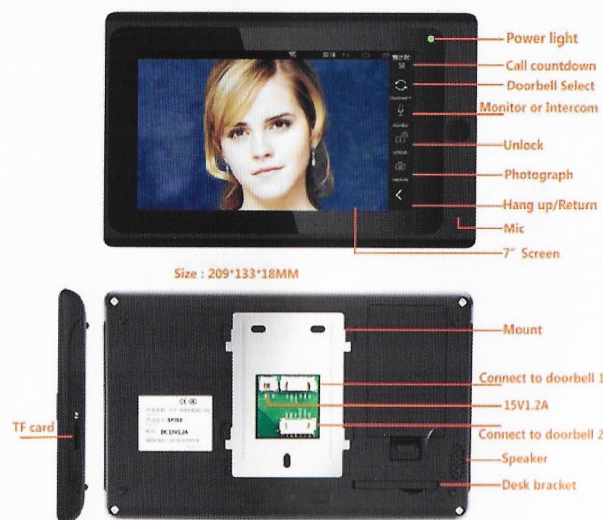
1. Products Introduction

1. Indoor monitor use the multi-point *capacitance touch screen*, adopt to Android System, steady and easy to operate.
2. 7inch/9inch High definition digital LCD monitor, with take picture, visitor records and calendar function.
3. Indoor monitor can take picture by manually or automatically, max to support 64G TF card.
4. Indoor unit with monitor, intercom, unlock, hands-free and Don't disturb function, support APP remotely operated .
5. Volume, brightness & colorful adjustable.
6. The indoor monitor can support to connect 8 mobile phone APP user .
7. Indoor monitor can connect to wireless wifi router.
8. Mobile APP with monitor, take picture, video record and unlock functions.
9. Anti-oxidation and wear-resistant outdoor unit, with a rain-cover, wall installation more convenient.
10. Outdoor unit use 1000TVL analog high-definition camera, with IR-CUT.
11. Outdoor unit type (optional): Normal type、RFID & Password type、Fingerprint type
12. Can connect to NO electric lock directly, with unlock delay setting.
13. Come with power supply & terminal wire, user can install by themselves.
14. Support 1V1 / 1V2 max to 1V6 , 2V1/2V2 max to 2V6, more than 1V1 or 2V1 use WIFI wireless indoor unit , install and using more convenience .
15. RFID & Password type: Support 2000 ID cards unlock, 2000 passwords unlock, 10 remote controls unlock.
16. Fingerprint type: Support 1000 fingerprint, 1000 ID cards unlock, password unlock.

Notice: For different outdoor unit type, the function is different.

2. Function

WIFI Wired Indoor unit :



WIFI Wireless indoor unit :



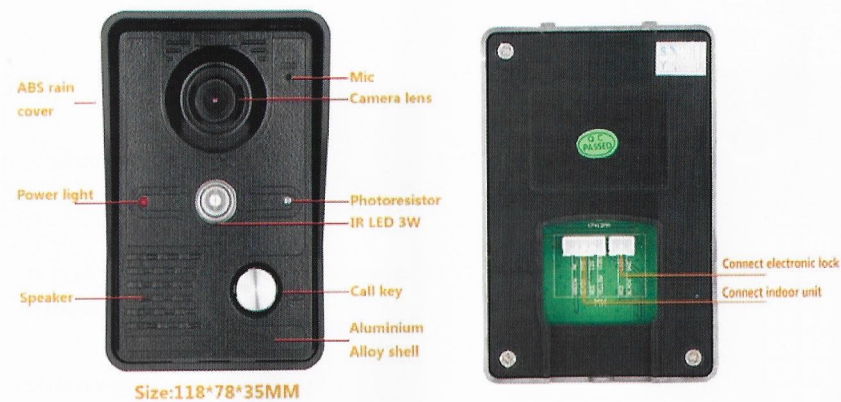
Outdoor Unit:

Normal Type:

6-core wire



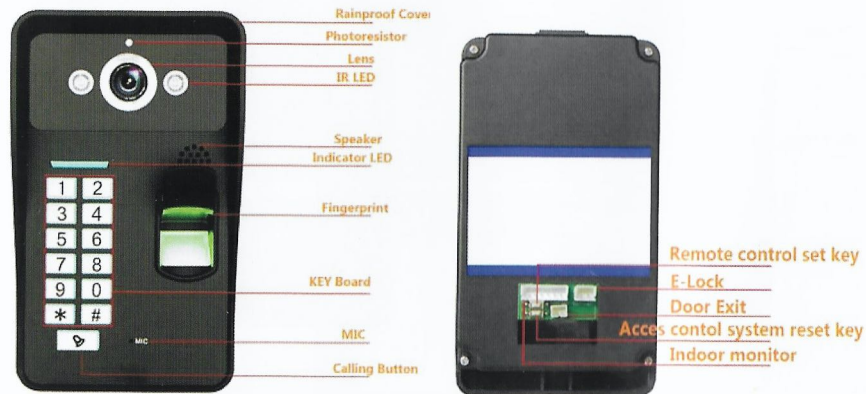
4-core wire:



RFID & Password type :



Fingerprint type:



3.APP download , wired WIFI indoor unit install、Mobile phone device add 、 wireless WIFI indoor unit add:

1.APP Installation

Support : Android & IOS

1.For android :

2.A:Search "VILLA BELL"  on Google play,then download and install.

B:Scan the QR code,then download and install"VILLA BELL"



3.For IOS:

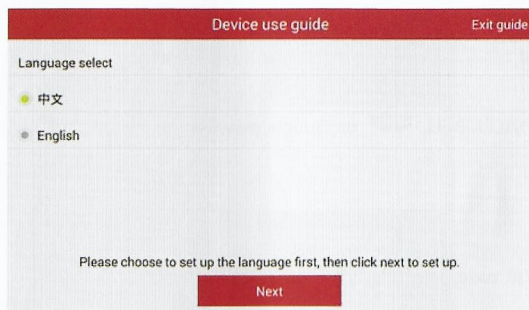
A: Search "VILLA BELL"  on APP,then download and install.

B:Scan the QR code,then download and install"VILLA BELL"

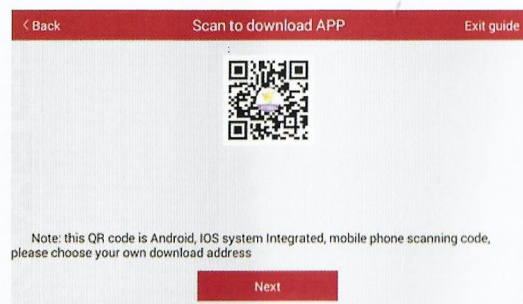


Device Usage Guidelines Quick Installation Instructions:

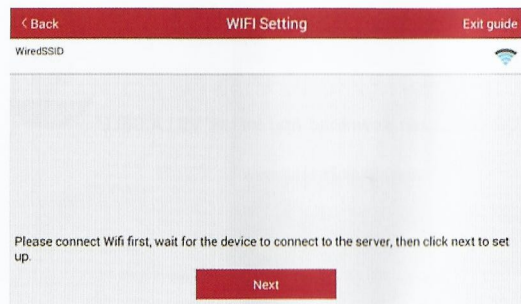
- (1) Power on the indoor unit ,then turn on ,enter the device usage guidelines .
(turn-on time about 60s) .



Language selection



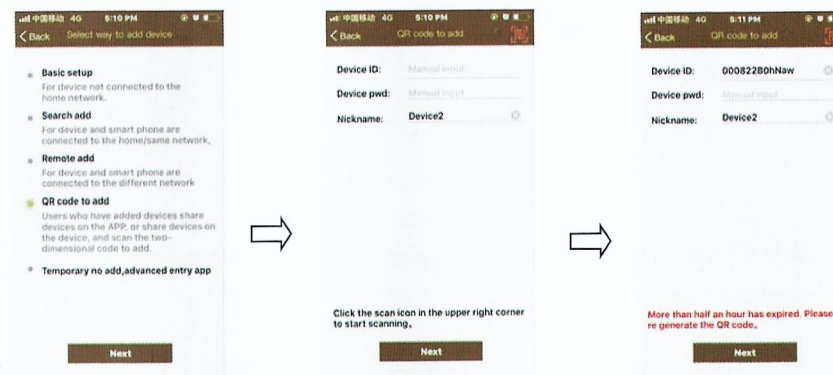
Mobile APP download



Indoor unit connected to home wireless WiFi



Run the mobile phone APP scan the QR code to connection and add the wired WIFI indoor unit .



Mobile APP add and use way :

Wireless WIFI indoor unit connected to wired WIFI indoor unit .

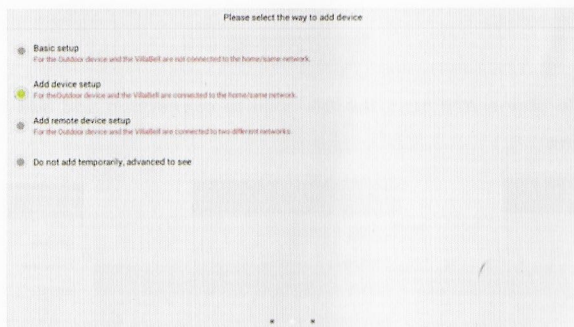



1.Click "about"on indoor unit ,enter WIFI setting , input your home wifi password to connect ,will hint the voice "open service" later.

Note : When add device the mobile phone and indoor monitor are must under the same wifi .After added successfully can go to "about " to change .

2.Run the mobile APP, Click  to add the doorbell .

3. Search to add:



Click  to get the ID number and password,then click next step,click "confirm",then doorbell had been added successfully.

4.RFID & Password type Operation:

Acousto-Optic indication

Operation Status	Red light	Green light	buzzer
Standby	Slow flash	off	
Keyboard			DI
Succeed	off	on	DI-
Failure			DIDIDI
Entry programming	on	off	DI-
Setting	on	on	
Exit programming	Slow flash	off	DI-
Unlock	off	on	DI-

1. Restore the factory setting:

Disconnect the power supply, press # key all the time,then connect the power supply,when hints "DIDI" voice,then release your hand,the machine had been restored the factory settings successfully. (Note:It only can restore the programming code,another information can't be restored.)

2. Enter the Programming Mode:

Press * + Programming code (factory default: 999999) + #

3. Modify programming code:

Press 0 + new programming code + # + repeat the programming code + # + *
(Code: 6 Random digits)

4. Add User Card

Press * + programming code + # + 1 + read card ...+ # + *

Notice: If need to add more user card,please read the user card continuously,at most support 2000 user cards.There will be a default password 1234 when added user card,but this password can't be open the door,only for modifying the user password.

5.Delete user cards:

(1) Press 2 + read card...+ # + * Delete all read cards

(2) Press 20000 + # + * Delete all user cards

6. Setup unlock way:

(1) Press 30+ # Read valid cards unlock

(2) Press 31 + # Read valid cards and input valid code unlock

(3) Press 32 + # Read valid cards or input valid code unlock (Factory default)

7. Setup unlock delay time

Press 4 + Time + # + * can set 0-99 seconds,factory default: 5s

8. Security mode:

(1) Normal mode (Factory default)

Press 70 + #

(2) Locked mode

Press 71 + # (Note: Within 10 minutes,use 10 invalid cards consecutively or use invalid code 10 times, the system will dead lock 10 minutes)

(3) Alarm mode

Press 72 + # (Within 10 minutes,use 10 invalid cards consecutively or use invalid code 10 times,the buzzer will be alarmed)

9. User operation (No need to enter into programming)

(1) Modify the user password using the ID card:

Press + * + read card + 1234 + # + new password + # + repeat new password + # + *

(2) ID card unlock

Read valid ID card to open the door

(3) Password Unlock:

Press user password + # to open the door

(4) ID card + Password unlock

Read valid card + user password + # to open the door

10. Shut down the alarm

Read the ID card or press the programming code + #, then can shut down the alarm.

11. Add/Delete the remote control

(1) Add remote control: power on outdoor unit and press the remote control pair button, then press remote control A/ B/ /C /D any one of them release the hand after one seconds, Again press A/ B/ /C /D any one of them will hear the buzzer, Pair successful. (Can repeat the operation when unsuccessful)

(2) Delete all remote controls: power on outdoor unit and press the remote control pair key 8-10 seconds, then delete successful

12. Exit programming code:

Press * Exit programming code

5. Fingerprint Operation:

Acousto-Optic indication

LED Indicator

Case	Red light	Blue light
Standby	Alternate shining each seconds	
Waiting for entering into programming	Flash	---
Waiting for Programming confirm	Fast flashing	---
Finish commands	Fast flashing	Flash
Valid operation	---	Flash
invalid operation	Red and blue light blink 3 times alternate	
Give an alarm	---	flash

2. Build-in buzzer

Case	Introductions	Ring
Programming password restore succeed	1 long beep	Di---
Valid unlock	1 long beep	Di---
Invalid unlock	5 short beep	Di Di Di Di Di
Input valid key	1 short beep	Di
valid operation	1 long beep	Di---
invalid operation	5 short beep	Di Di Di Di Di
Delete all ID card	short beep	Di Di Di Di Di

3. Setting and use ways

1. Initial code:

Programming code : 8888, Universal code: 5555,

2. Enter the Programming Mode

Press * + Programming code + # (only the red LED fast flashing)

3. Function set: (only under programming mode)

(1) Modify programming code:

Press 00 + # + new programming code + # + repeat the programming code + #

(Programming code: 4-6 Random figures, like 5678 etc)

(2) Set Universal unlock password:

Press 01 + # + new password + # + repeat the password + # (Programming code: 4-6 Random figures)

When use the password to unlock: press password + # to confirm.

(3) Restore factory default setting.

press 02 + # + programming code + #

(4) Setup unlock way: (Factory default : read valid cards unlock)

Press 10 + # Read valid cards unlock

Press 11 + # Read fingerprint unlock

Press 12 + # input valid password unlock

Press 13 + # Read valid cards or input valid password unlock

Press 14 + # Read valid cards or fingerprint unlock

Press 15 + # input valid password or fingerprint unlock

Press 16+ # Read valid card、 valid fingerprint or input valid password unlock

(5) Setup unlock time(Factory default is 3 seconds)

Press 17 + # + unlock time + # , Time : double digits (between 03-60s) ,unit : seconds.

(6) Security mode:(Default setting: close)

Press 18 + # Close security function

Press 19 + # Open security function

Note: Input wrong programming code 5 times or invalid password 5 times continuously,the system will dead lock 1 minute,the blue led fast flashing.

(7) Add User card:

Press 20 + # + code + # + read card + #

Continuous add cards: Don't need to press # after read the first card,can read the second card directly,the code NO will be given automatically,press # to confirm after read all user card. Card code is 4 unrepeatable No. (0001-1000)

8) Delete user cards:

Press 21 + # to delete all user card

Press 22 + # + read card + # delete the read card

Press 23 + # + input the card code + # delete the corresponding card

(9) (9) Add the fingerprint

1 . press 30 + # + fingerprint code + #

2.press your finger,the buzzer sound 1 beep,then loosen your finger.

3. press your finger again,the buzzer sound 1 beep,then loosen your finger

4. If the buzzer sound 5 beep,then fingerprint add failure;if sound 1 beep,then succeed.

5. Whether succeed or failure,need to press # to finish the command .(It is very important)

6. If need to add another fingerprint,then repeat the above steps.

Notice: The fingerprint code is 4 unrepeatable NO (between 0001-1000), please ensure that the fingerprint module mirror clean, otherwise the failure rate of the fingerprint will increase.

(10) Delete Fingerprint

Press 31 + # delete all fingerprint

press 32 + # + fingerprint code + # delete the corresponding fingerprint

(11) . Exit programming

Press * to exit programming

Notice: All setting need to press # to save (within 2 minutes),then press * to exit.

After exit programming,the Red and blue led blink.

(12) Reset programming code

1. If forgot the programming code,please press the "reset" key (about 5s) to restore programming code (8888),other settings remain unchanged.

2.If there is not any operation after 20s,the system will be enter into standby mode automatically.

3. When use the fingerprint to open the door,please just press once time,don't press it all the time.The buzzer sound 1 beep for valid fingerprint,if for invalid fingerprint,then no sound.

6. 1V1,2V1 Operation Details:

(1)When indoor unit in standby mode, the visitor press outdoor unit call button, indoor unit will ring and show the video of outdoor visitor, the host can press the talk button to intercom with the visitor, video and intercom up to 60 seconds, under the intercom mode, the host can press the unlock button to open the door,press monitor button or talk button again to stop intercom and video. Indoor unit go to standby mode automatically.

(2).Monitoring operation:

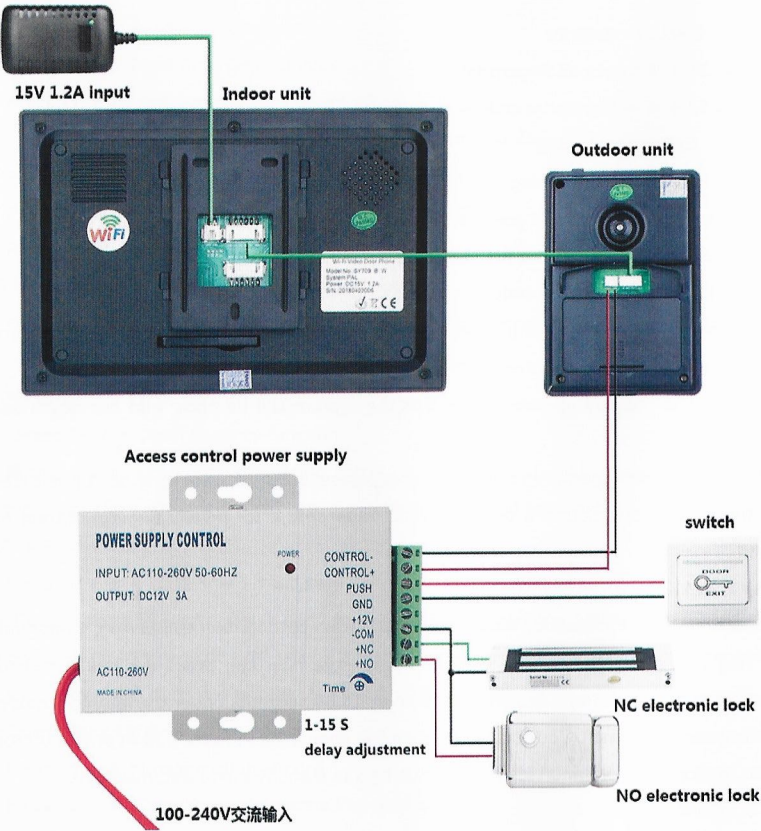
When outdoor unit under the standby mode, press monitor button in indoor unit, indoor unit can monitor outside any time, monitoring delay time is 60 seconds,press the monitor button again to exit.

(3) Mobile Phone APP Operation:

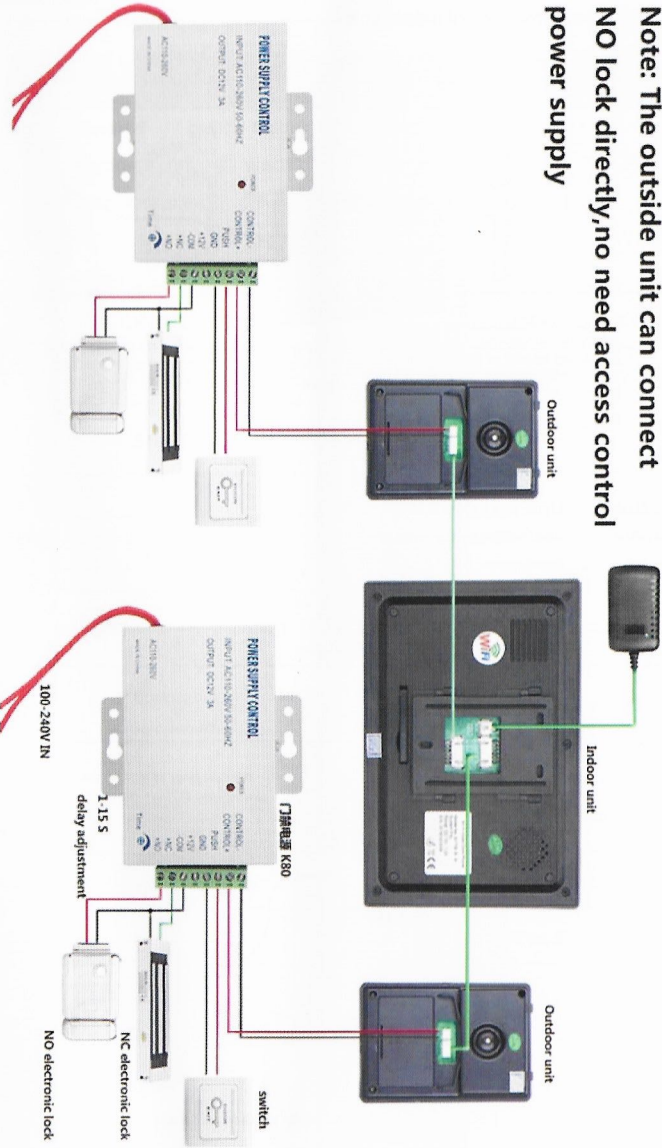
First,the indoor monitor connected to wifi network,and the mobile phone connected to the indoor monitor,when the visitor pressed the calling button,mobile phone will get this calling,can press the talk button to take photo or record,unlock etc.

7.Wire Diagram

Wire Diagram: below picture is for 1V1 door intercom .



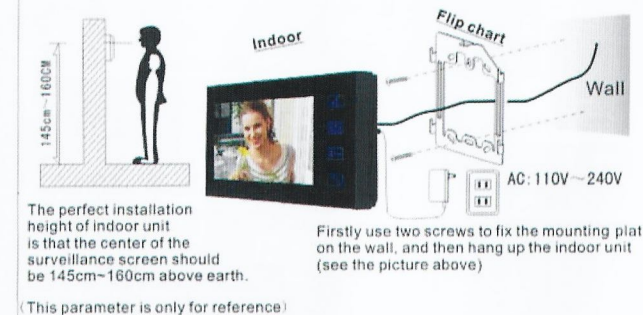
Wire Diagram: below picture is for 2V1 door intercom.



Note: The outside unit can connect
NO lock directly, no need access control
power supply

8 . Indoor Unit installation:

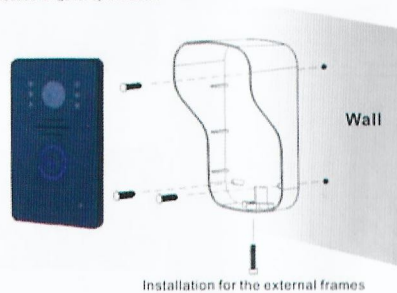
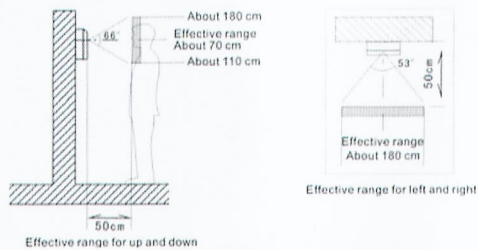
① The installation of indoor unit



9 . Outdoor Unit installation:

The installation of station

Effective range



※ Attention items

Avoid installing this camera with directly exposure to sunlight. At night, when the visitors' back is shone by the streetlight or luminance things, you should install a light to enhance the imaging effects.

10. Specification

Outdoor Unit		Indoor Monitor	
Power Supply	Powered by indoor monitor,if for NC electric door lock,please connect more an access power supply	Power Supply	Input: AC 100-240V 50/60Hz Output: DC 15V/1.2A
Camera	CMOS 1000TVL	LCD	7" TFT 1024×600
LED	3W 850nm IR LED	Effective area	154.08(H) ×86.58(V)
Power consumption	Standby: 2W Unlock: 12W	Power consumption	Standby: 3W; Work: 8W
Night Vision Distance	About 3m	Press-key	multi-point <i>capacitance touch screen</i>
Effective distance	100m (6/4*0.75MM2)	Talk Time Delay	60s ±10%
Angle	92 degrees	Monitor Time Delay	60s ±10%
Working temperature	-10 to 50 degrees	Indoor Monitor function	Take photo auto,visitor records
Size	155×95×55MM	Storage	Max support 32G TF card
		APP	Max support 8 User
		Working temperature	-10 to 50 degrees
		Size	209(L)×133(W)×18(H)MM

11. Working Environment

- (1) Working temperature -25°C—+50°C
- (2) Working humidity range: less than 85%

12. Machine Maintenance

- (1) Keep surface clean, dust on the machine can be cleaned by soft dry cloth;
- (2) Need to turn off the power switch when clean indoor unit,
- (3) If machine surface is difficult to clean by different dry cloth, it can be cleaned by soft towel moistened by diluted neutral detergent, then clean with a dry cloth;
- (4) Do not use organic solvents such as benzene, thinner or gasoline to clean, these solvents may damage the machine or cause the machine and surface discoloration.

13. Notice

- (1) The machine should be placed on the place with solid, well-ventilated, dry and no direct sunlight, no strong magnetic fields and dust;
- (2) Do not use chemical to clean the surface; clean, soft and dry cloth can be used to clean.
- (3) Avoid to press multiple keys at the same time;
- (4) Outdoor and indoor unit needs to match with specified models, and can not mix to use with other models or other company's product.
- (5) Do not open the machine without permission, please contact with your dealer or our technical department if you need any maintenance.

Failure diagnosis			
NO	Malfunction	Checking	Debug
1	Fail to start the product	If the plug of power adapter correctly??	Re-connect indoor monitor with power adapter.
2	Blue screen or no video	If 4-core/6-core wire connection correctly?	Unplug and reconnect 4-core wire & 6-core wire. If the line has extended, please check whether the wiring color/position/direction correctly.
3	Indoor to outdoor are silent	Without press indoor unit talk button?	When press the calling button, need to press the talking button to talk-back.
5	Howlround	Indoor unit and outdoor unit two microphones distance is less than 0.5 meter?	Keep two microphones distance more than 0.5 meter
6	No image/image blur	Cable is too thin/Whether the acrylic panel protective film tear off ?	Change another cable according to the requirement/Take away acrylic panel protective film
6	Can't unlock	If the electronic lock is 12V?	Choose 12V electronic lock
8	current noise	Microphone broken?	Find the broken Microphone from indoor unit and outdoor camera, then change it
9	Can't connect APP	if connected to the wifi network	check whether the router is limited, or change the password to try, or start the router

Wire Use Standard

Cable Length		Wires Use Standard
1	5-20 meters	Use UTP net wire or 0.3 square copper wire
2	21-50 meters	Use 0.5 square copper wire
3	51-80 meters	Use 0.75 square copper wire
4	81-100 meters	Use 1.0 square copper wire

14. Accessory

- ☐Indoor Monitor
- ☐Outdoor Unit
- ☐15V/1.2A Power Supply
- ☐4/6-core terminal wire
- ☐unlock terminal wire
- ☐Manual
- ☐Mounting plate
- ☐Screws
- ☐Color package
- ☐1 pc remote control
- ☐Rainproof Cover
- ☐door exit unlock terminal wire
- ☐ID Card 5 pcs

Note: It does not include the E-Lock and access control power supply.

15. Technical Support and Services

(1) We insist on pre-sale, sale, after-sale tracking service, Before installation please kindly read the user manual carefully;

(2) Before use this products, the customers should be strictly carried out in accordance with the user manual, Any doubt, please contact with our technical support and consulting service center;

【 Note 】 : Our company is committed to reform and innovate products, This manual graphics for reference only, if there is any discrepancy, Please refer to product for reference.

16. Warranty

1. From the day you purchase the machine, our company will provide free maintenance for the normal breakdown of the product within the warranty period.

2. Products of our company could enjoy one year warranty and can be changed within 15 days, if there are any quality problems.

3. Within the warranty period, if the machine is man-made dismantled or damaged despite of the requirements for using, maintaining, taking care of in the product instruction, we will ask for the cost fee for the components.

4. Warranty place: the defective products will be sent back to our company by the distributors. The SHENZHEN factory of our company will arrange maintenance work.

Model NO:

Purchase Date:

Name	Contact		
Address			
Warranty Time	Warranty Record	Change Accessories	Warranty People