2.4GHz Digital
Wireless Video Door Phone

User Manual

- Thank you for purchasing our product.
- Please carefully read this User Manual (in particular, precautions for safety) before using the product and follow instructions exactly on how to install and use the product.

In order to better fulfill the outstanding function of this product, please read User Manual carefully to grasp the correct way of installation and operation.

1. Introduction

This system operates in the 2.4GHz radio band for wireless transmission of digital audio and video signals. It can be used in apartments, villas, hotels, offices, public buildings etc.

With a fashionable and fresh outlook, the view is clear and sharp. The outdoor camera is easy to install while the indoor monitor does not require any communication wire. You can use the system where the wireless signal can reach, such as dining room, living room, balcony, kitchen and so on. So this is an ideal safety product for modern families.

2. Features

(1) This system applies 2.4GHz digital frequency hopping and encryption technology. Transmission distance in open terrain is up to 300meters, robust anti-interference and high degree of confidentiality;

(2) Outdoor camera integrates a wide-angle lens, with clear night vision;

(3) The indoor monitor uses a high-definition 3.5 inch digital display screen and monitor. The door can be unlocked by wireless control;

(4) Hands free call and talk function;

(5) Indoor monitor take pictures automatically or manually, 160 pictures can be stored and browse, can up to 1000 pictures (based memory);

(6) Standby mode is supported for indoor monitor with adjustable volume;

(7) MiniUSB interface is provided for indoor monitor with replacement rechargeable Lithium battery;

(8) One outdoor camera can support up to 4pcs indoor monitors and vice versa;

(9) Compliant with FCC, CE, RoHS standards.

3. Packing list

(1)   Outdoor camera,   Please refer to page 4

(2)   Power adapter for outdoor camera

Input: AC 100-240V 50/60Hz   Output: DC 12V/1A   Wire Length: 150cm

(3)   Indoor monitor,   Please refer to page 5 and 6

(4)   Power adapter for indoor monitor

Input: AC 100-240V 50/60Hz   Output: DC 5V/500MA   USB Cable Length: 80cm
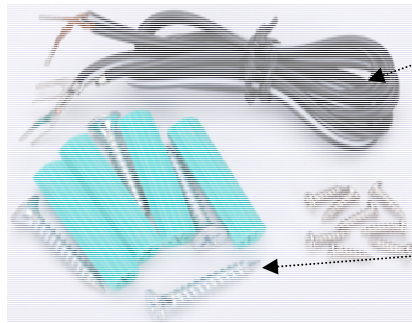

(5)   Lithium battery

(6)   Screws and expansion bolts for the installation of outdoor camera
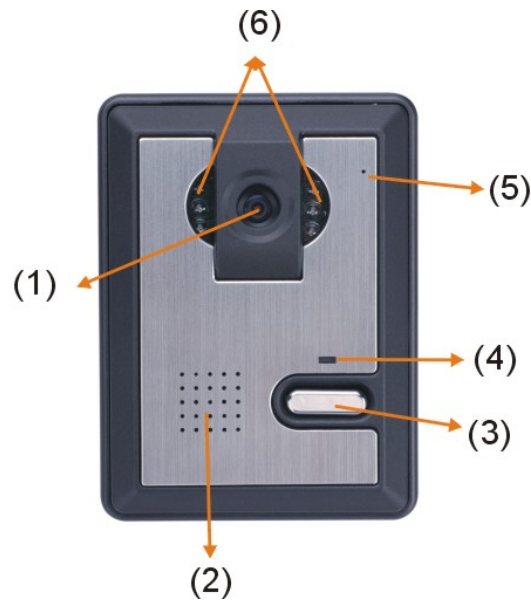
(7)   Wiring of electric lock (Option)

(8)   User manual

Wiring of electric lock

Screws and expansion bolts

4. Outdoor Camera

Description:

(1) Camera Lens (CMOS 300k pixels, to capture the image of visitor and outdoor)

(2) Speaker (To hear the voice from indoor monitor)

(3) 'Call' Button (To call the indoor monitor by press this button and auto boot the camera)

(4) Indicating light (It stands for working state if light on, otherwise standby or power off)

(5) Microphone (To transfer voice of visitor to indoor monitor)

(6) Infrared light (Enable to identify visitor in dark circumstance)

5. Indoor monitor
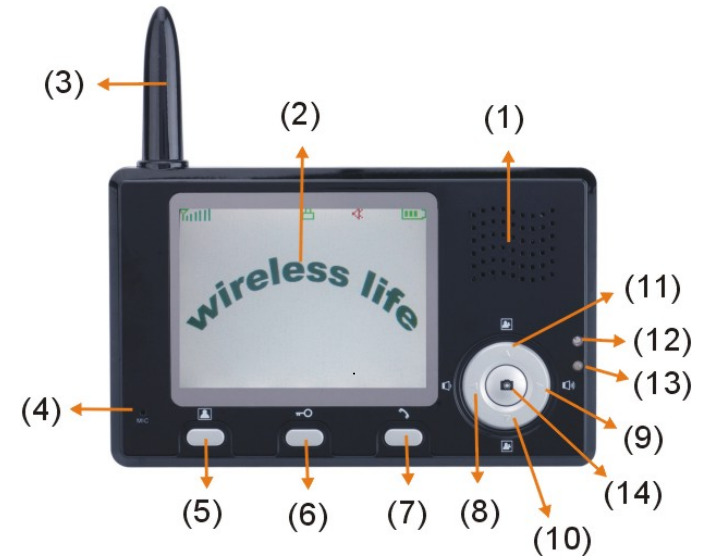
Description:

(1) Speaker (To transfer the voice of visitor and "ding dong" sound)

(2) 3.5 inch digital display screen (To display images of outdoor camera)

(3) Antenna (To transfer the signal of voice and unlock operation to the outdoor camera, receive the signal of voice, image and call operation from the outdoor camera)

(4) Microphone (To transfer the owner's voice to outdoor camera)

(5) 👤: Monitor button (To monitor outdoor circumstance)

(6) ⊷○: Unlock button (To control the outdoor camera and open the E-lock)

(7) ↘: Talk button (Talk to the outdoor camera)

(8) ◀ 🔈: (Reduce the volume) (9) ▶ 🔊: (Increased the volume)

(10) ▼ 🖼: (Browse next picture) (11) ▲ 🖼: (Browse last picture)

(12) LED 1: Indicating light (if the light on, it stands for power on, otherwise power off)

(13) LED 2: Indicating light (the light is red when charging, turn to blue after the fully charge, that did not in the charger if the light is off)

(14) 📷: Take a picture

Back view of indoor monitor:
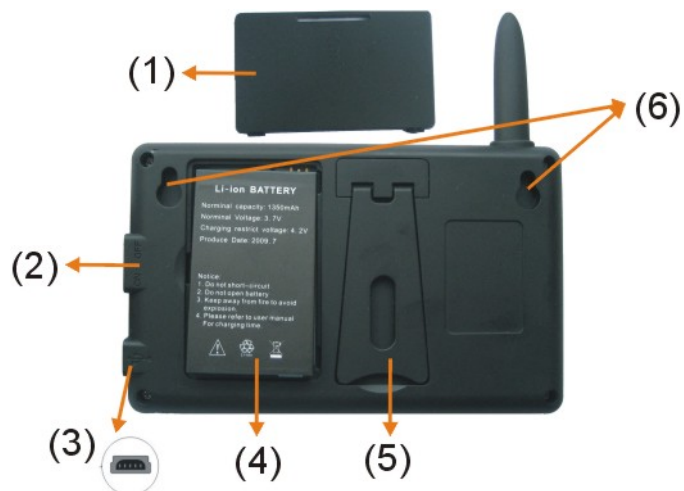
(1) Battery lid   (To cover the battery)

(2) ON/OFF   (Power switch)

(3) MiniUSB for charge

(4) Lithium battery   (3.7V 1350mAh Lithium battery)

(5) Bracket   (To fix indoor monitor on the desk)

(6) Two slots   (To fix the indoor monitor on the wall, closet or likewise)

6.   Installation

(1)   Installation method of outdoor camera

The outdoor camera should be installed at the shielded position to be free from direct shinning of strong light and raining. The height for installation is recommended to be 1.5m~1.7m for camera to focus on the best monitoring range.

If wiring needs to go through wall, the plug shall be first wrapped with tape so as to avoid the sand or dirt going into the plug thus resulting in malfunction.

Before install outdoor camera, please plug off the power supply cord, and plug the power supply cord after installation.

(Picture 1)

(Picture 2)

(Picture 3)

(Picture 4)

(Picture 5)

(1)   Take out the screw from outdoor camera.   (Please refer to the picture 1)

(2) Take out the bottom frame from the outdoor camera.　(Please refer to the picture 2)

(3) Connect outdoor camera to power adapter, electric lock, wiring needs to go through the bottom frame. (Please refer to '**Connect power adapter and electric lock**')

(4) Let the wires go through the wall from the centre hole, Fix the bottom frame of the outdoor camera on to the wall or door with four screws and expansion bolts if needed. (Please refer to the picture 3)

(5) Hang the outdoor camera to the hook which is on the top of the bottom frame and fasten them. Push the bottom of outdoor camera slightly, will see two screw holes at the bottom.　(Please refer to the picture 4)

(6) Tighten the screw to the second hole at the bottom of outdoor camera. (Please refer to the picture 5)

(2) Connect power adapter and electric lock
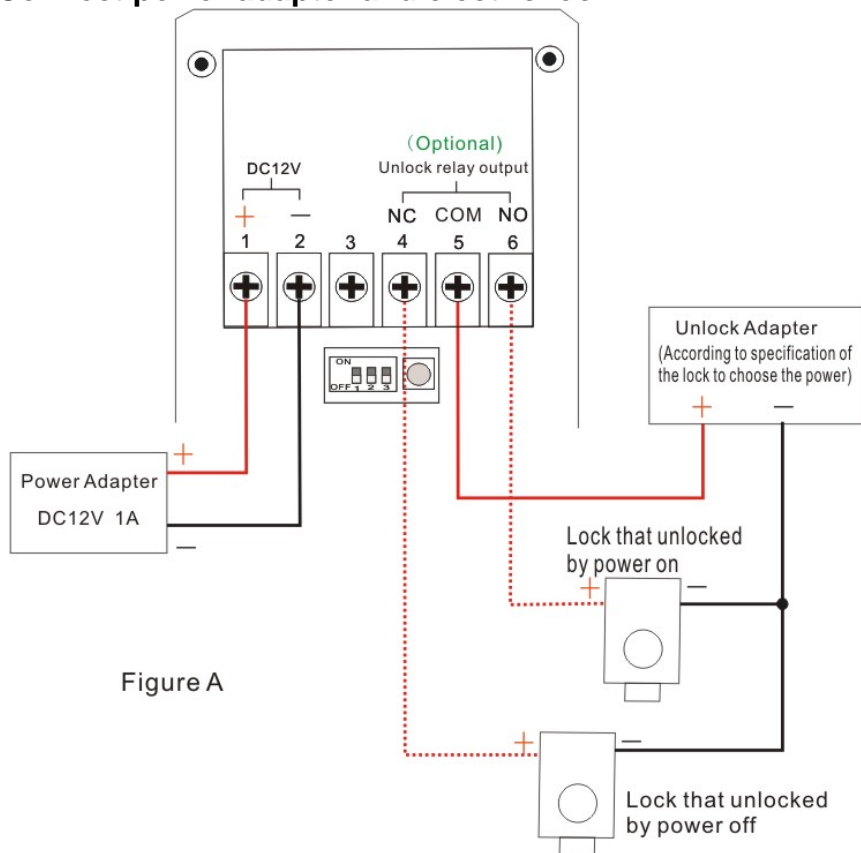
Figure A

## Settings of delay locking

A．Last for 800ms (Default)
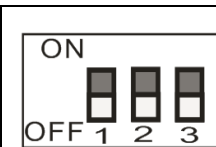
	* Locks that unlocked by power on (Connect to Normal Open); * Locks that unlocked by Power off (Connect to Normal Close); * When unlocked, relay close (open) for 0.8s;

B．Last for 4s
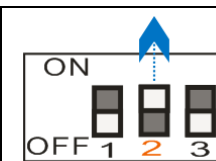
	* Locks that unlocked by power on (Connect to Normal Open); * Locks that unlocked by Power off (Connect to Normal Close); * When unlocked, relay close (open) for 4s;

C．Last for 8s

	* Locks that unlocked by power on (Connect to Normal Open); * Locks that unlocked by Power off (Connect to Normal Close); * When unlocked, relay close (open) for 8s;

7. Operation Instructions

Follow the manual instruction to install the electric controlled lock, turn on the outdoor camera , and turn on the indoor monitor. Detailed operation is as follows:

(1) Indoor monitor turn on/off

Turn the power switch to "ON", then the screen shows the welcome page for one second.　After that, the light on the above will shine, and the bell rings "Ding Dong, Ding Dong". On the top left corner, there is a signal of communication message. The max is level 6. If without signal, please follow the "Failure Diagnosis" part of this manual instruction.　There is also signal of battery on the top right corner. The max is level 4. Null means the battery is emptied.

Signal bar   Lock signal   Unlock signal   Talking state

Battery bar
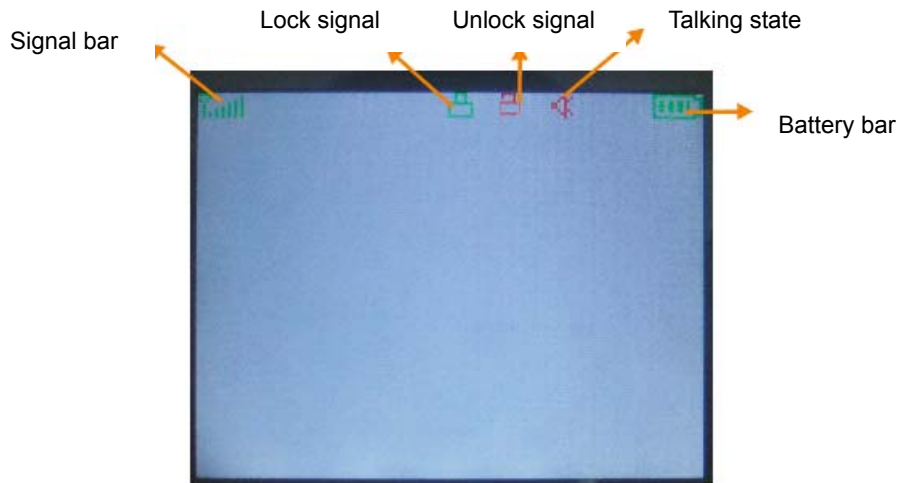
Turn the power switch to "OFF" then power off and the LED1 off.

(2) Talk, Unlock

The visitor presses the "call" button of the camera, all monitors will sound "Ding dong, Ding dong" and show the image of visitor.

A. Press 📞 button of one monitor to speak to visitor before unlocking. Other monitors can see the image but not hear sound of the visitor. If you want to allow other monitor to talk, press 📞 button to close the current dialogue, then another monitor press 📞 button to speak to visitor. Only one monitor for each dialogue.

When under tallking state, press 🔓 button to release the door lock, the unlock signal shows on the screen, when release 🔓 button, the unlock signal will disappear.

Press 👤 button to turn off the screen and enter standby mode, or it will turn into standby mode automatically after 30 seconds.

B. If do not want to receive the visitor after seeing the video, no operation or press the 👤 button to turn off the screen and then enter into standby mode.

Indoor monitor enter into the standby mode after 30 seconds if no operation.

Schematic diagram of unlock:
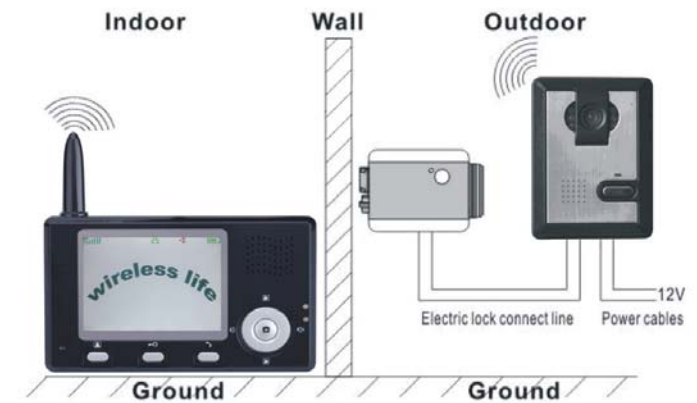
If the user doesn't press 📞 button, he can hear the voice of visitor, while the visitor cannot hear any sounds of inside.

(3) Monitor

For one camera with one monitor or several cameras system, if there is no calling from the outdoor camera, and the indoor monitor is in standby mode. User can press the 👤 button once to wake up the indoor monitor; press 👤 button again to enter monitor mode and monitor the outdoor as long as you like, monitor signal will display on the screen. Press 👤 button again to quit and close the screen.

For several cameras with one monitor, or several monitors system. Under monitor mode, press 👤 button to take turns to show the image from the CAM1, CAM2, CAM3, CAM4(if the system has); At the last camera, press 👤 button again to quit and close the screen.

(4) Take picture

When it's monitoring, pressing 📷 button to take pictures, one press for one picture, then quit the picture mode

If the user isn't in or no any operation, all indoor monitors save the image of outdoor automatically after 10 seconds and enter into the standby mode after 30 seconds.

The indoor monitor can keep 1,000pcs pictures at most, will replace first picture if exceed available memory when take a new picture.

(5) Delete picture

First turn off the monitor, then press 🔳 and 📷 button together, then turn on the monitor, press 🔳 and 📷 button still the screen display two lines of text:

'DELETE OK

LEASE POWER OFF',   After that all pictures have been deleted.

Please turn off the monitor, then turn on the monitor that will work.

(6) Browse picture

The indoor monitor can store up to 1000 pictures. Press the ▲🔳, ▼🔳 button to view the stored pictures of the outdoor screen, then press 📷 button or after 10seconds to quit viewing mode.

(7) Adjust volume

A   To adjust the volume of talk by the◀, ▶ button, adjusting range: 0-7

Monitor signal

Volume signal
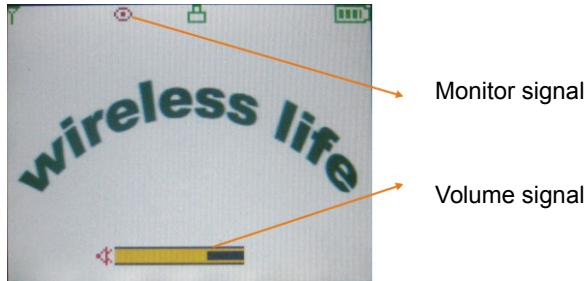
B To adjust the volume of 'Ding Dong' by press 🔳 and ◀, ▶button together , ringing the 'Ding Dong' at the same time to select the volume.

8. Working Environment

(1)   Working temperature: -15°C—+55°C

(2)   Working humidity: ≤85%

9. Failure diagnosis

Defect	Diagnosis	Operation
Fail to start the product	If turn the switch to the "ON"?	Turn the switch to the ON
	If the power of Lithium-on batteries is not enough?	Charge the Lithium-on battery
Fail to charge	If the plug of power adaptor correctly plug into miniUSB?	Re-connect the devices and power adaptor
	If the power adaptor correctly get through the 100-240V AC electricity?	Re-insert the plug to make power adaptor get AC electricity.
Speaking state no voice	If the volume is adjusted to be the least?	To adjust the volume to be suitable
The image is flashing or noise	If the indoor device is close to fluorescent lamps, mobile phone which has magnetic wave?	Keep the devices off these things which has magnetic wave
The indoor monitor no signal	If the outdoor camera doesn't connect the power?	To connect the outdoor camera power
	If the outdoor camera is far away from the indoor monitor?	Keep the distance in 60 meters within (stopped by multi-wall)
	If there is other strong magnetic space bother?	Put the indoor device out of the strong magnetic space

10. Machine Maintenance

(1)   Keep the clearance of the surface and use the soft dry cloth to clean the dust of the product, Please turn off the power of indoor device.

(2)   If there is the hard dirty which cannot be cleaned with dry cloth, please use the soft towel dipped in the neutral diluted detergent to clean the product and then clean it with dried cloth.

(3)   Don't clean the product with benzene, diluted liquid or petrol etc organic liquid for these will damage the outside part or vary the outside color of the product.

(4) The product should be placed where is stable, windy, air-dry, non-sunshine, non-strong
    magnetic and non-dusty.

11. Notices

 (1) New product must be charged more than 5 hours for first two times to activate the
     Li-ion battery,   after that charge 2~3 hours every time, Up to 120 hours of standby
     time.
 (2) Please don't cover anything on the Microphone or speaker when there is
     conversation.
 (3) Please always use the specified electric source power supplier adaptor, or that with
     the same type (same standard voltage and electric current). Using the adaptor
     unspecified may lead to the damage of the circuit and component of the product.

12. Technical Support

(1) We insist tracking service through before selling, selling and after selling, please
    carefully read user manual before installation;
(2) Please strictly follow the user manual before you install and test this product. If there
    is any question, please contact our tech support and customer service;

Remark:

(1) Damage Requiring Service – Unplug this equipment from the power source and refer
     servicing to qualified service personnel under the following conditions:
    a.   when the power supply cord or plug is damaged;
    b.   if liquid has been spilled or objects have fallen into the unit;
    c.   if the product has been exposed to rain or water;
    d.   if the product has been dropped or otherwise damaged;
    e.   if the product exhibits a distinct change in performance
(2) Servicing – Do not attempt to service this product yourself as opening or removing
    covers may expose you to dangerous voltage or other hazards. Refer all servicing to
    qualified service personnel.