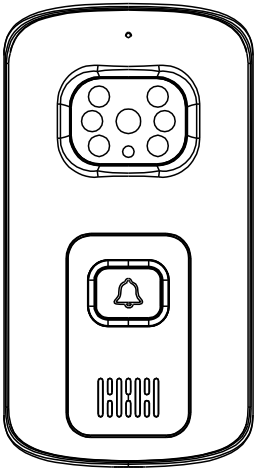
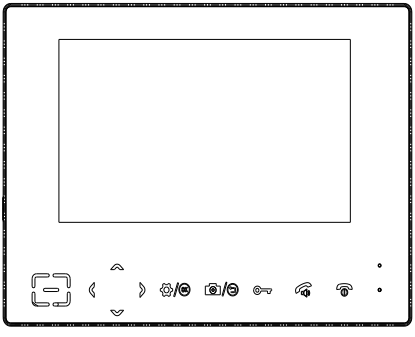
Wireless Digital Video Doorbell

User's Manual



Door Camera



Indoor Monitor

■ **Remark**

Please follow the user manual for correct installation and testing. If there is any doubt, please call our tech-supporting and customer center.

Our company applies ourselves to reformation and innovation of our products. No extra notice for any change. The illustration shown here is only for reference. If there is any difference, please take the actual product as the standard.

The product and batteries must be handled separately from household waste. When the product reaches the end of service life and needs to be discarded, please contact the local administrative department and put it in the designated collection points in order to avoid the damage to the environment and human health caused by any disposal. We encourage recycling and reusing the material resources.

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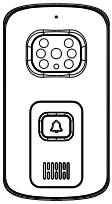
Product Features

- 7" TFT LCD display
- Video resolution: 800x480, with 15 frames per second
- Wide angle lens and LED for night vision
- Long standby door camera (battery or DC 12V)
- Waterproof door camera Ip55
- Microphone and speakerphone
- Basic video intercom, monitoring, remote unlocking and anti-dismantle alarm feature
- Brightness and talking volume are adjustable
- Supports up to 2 door cameras and 2 indoor monitors
- Transmitting distance: up to 500m range in open area
- DIY installation to save labor cost

Package Contents

Once you have unpacked your product, make sure that all the parts shown below are available. If any pieces are missing or broken, please promptly call you dealer.

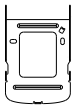
Parts of door camera



Door Camera

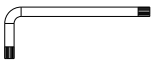
Battery Cover

Cable Cover



Bracket

Screws



Screw Wrench

User's Manual

Parts of indoor monitor

Indoor Monitor

Lithium Battery

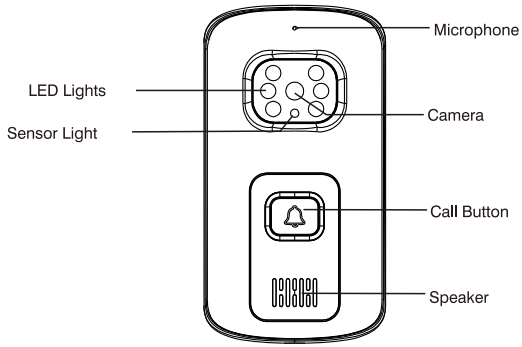
Power Adapter
(12V, 500mA)

Bracket

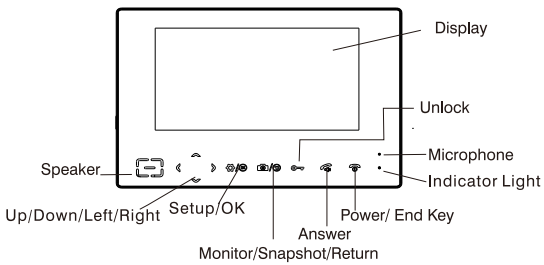
Screws

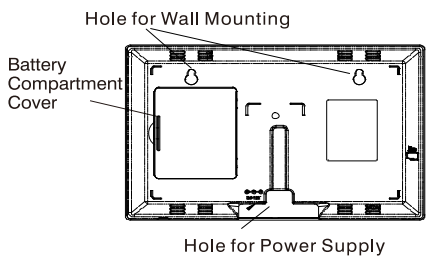
Product Pictures

Door Camera



Indoor Monitor



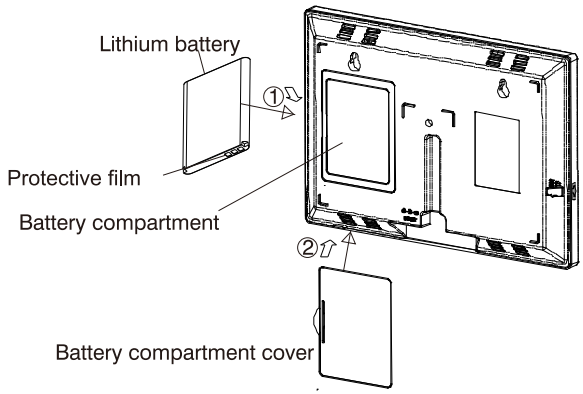


Installing Batteries

Indoor Monitor

The rechargeable lithium battery (3.7V, 2500mA) comes with your indoor monitor. Install the battery before use.

1.



2. Insert new battery as indicated, matching correct polarity(+,-).

3. To replace the battery, slide the cover up until it snaps in place.

Notes:

1. To activate battery please remove protective film from the battery prior to use.

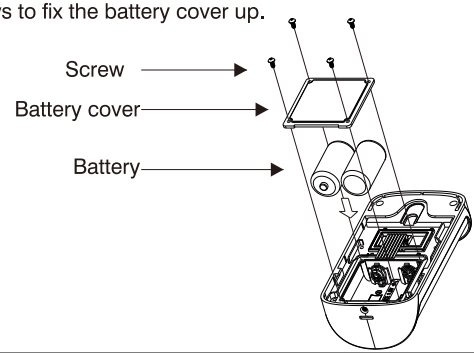
2. The battery needs to be replaced if it doesn't recover its full storage capacities after recharging.

3. When replacing the battery, make sure using good quality re-chargeable lithium battery. Never use other battery or conventional alkaline battery.

Door Camera

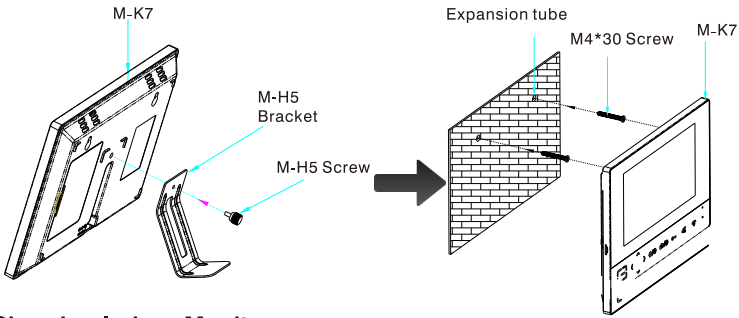
1. Install two C size 1.5V batteries (not supplied) into the battery compartment or connect with DC 12V power adapter to turn on the door camera.

2. Drill four screws to fix the battery cover up.



Installation Instruction

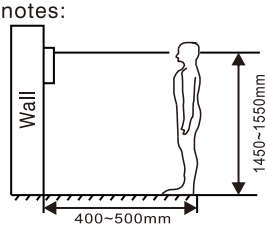
Indoor Monitor



Charging Indoor Monitor

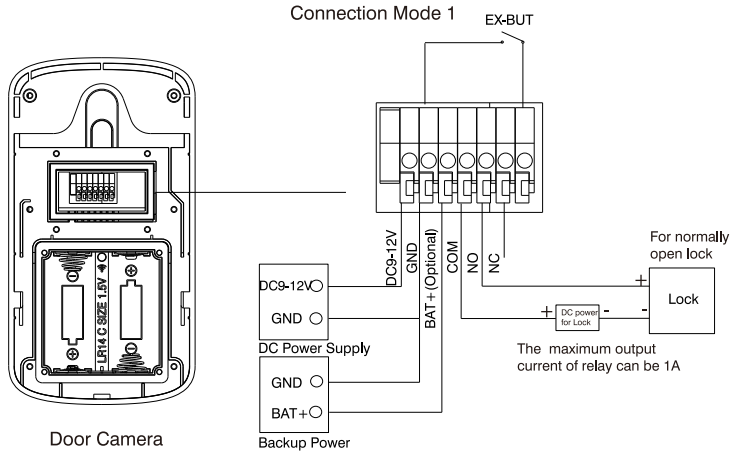
*! **Important Note**: Before initial operation, **YOU SHOULD FULLY CHARGE THE INDOOR MONITOR** for about **5** hours.*

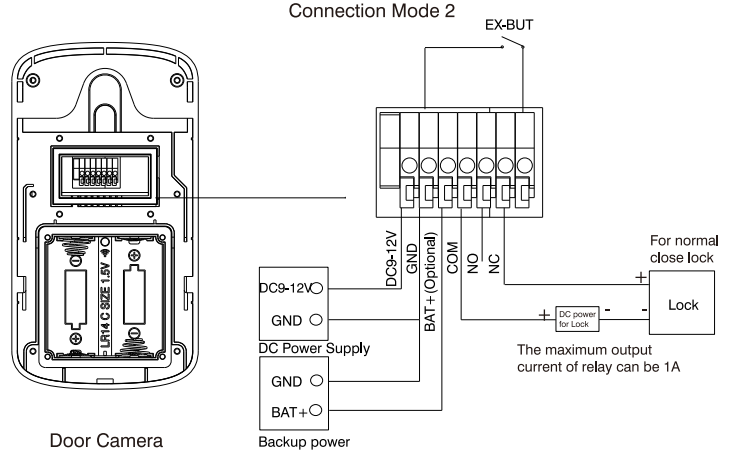
Installation notes:



[Suggestion]: During the installation, the display screen should be 1450～1550mm from the ground.

Diagram

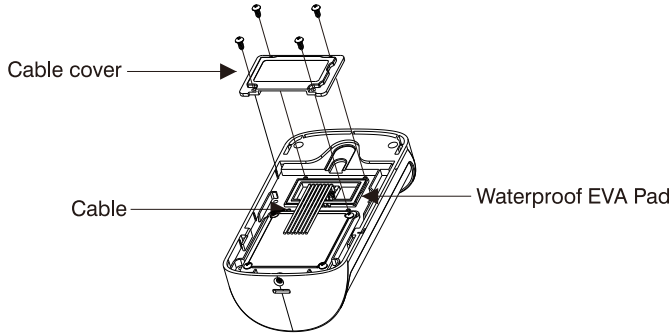




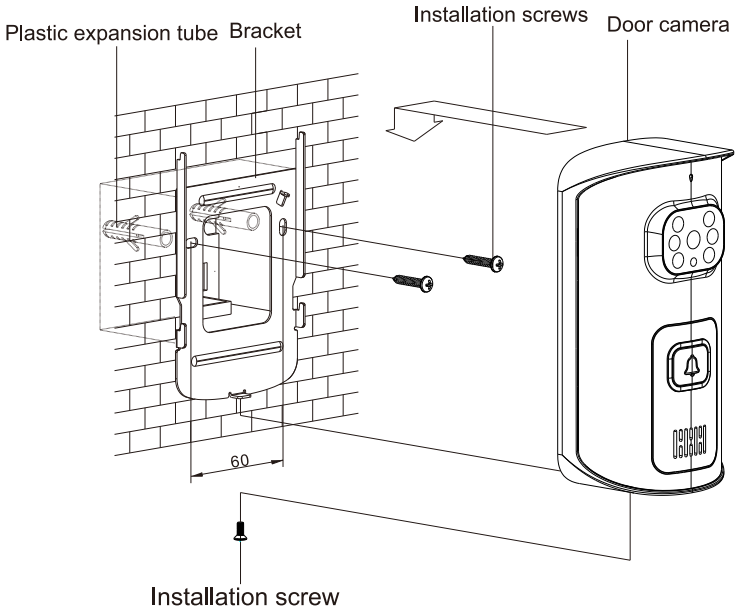
***Note**: The door camera can be powered by the batteries or the power supply (not included). Do not use batteries and power supply at the same time. If the door camera is powered by power supply, the monitoring feature is available. If the door camera is powered by batteries, the monitoring feature is not available until the power mode is changed to power consumption mode (see page 20).*

Door Camera

1. After wiring from the connection terminal, tense the cable. Drill the screws on the cable cover of the connection terminal.



2. Choose a proper location for the door camera. Be sure to consider the average height of visitors. Drill screws to fix bracket on the wall. Hang the door camera on the bracket. Drill screws to fix door camera and finish the installation.



Settings

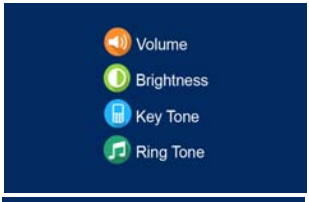
Turning On

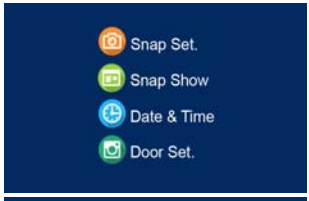
To turn on the indoor monitor, press and hold ☎ .

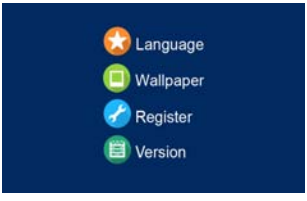
Powering on the indoor monitor, the system will enter into the following interface:

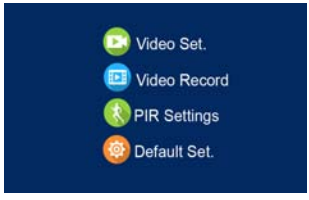
Note: *When the battery power of indoor monitor is insufficient, it will display an indication icon* [ ] *and emit warning tone. The indoor monitor will automatically turn off. You need to charge it.*

Press ⚙ on the indoor monitor, then the system will enter into the following interface:









Chapter 1: Volume

This function allows you to adjust the volume (9 levels are adjustable) during a call.

1. Press **Up** ^ or **Down** v to choose “Volume” menu, **then press the button** (OK) **on indoor monitor.**

2. Press **Up** ^ or **Down** v to choose talking volume(9 levels are adjustable), and press **Left** < or **Right** > to adjust.

3. Press **Up** ^ or **Down** v to choose ringtone volume(9 levels are adjustable), and press **Left** < or **Right** > to adjust.

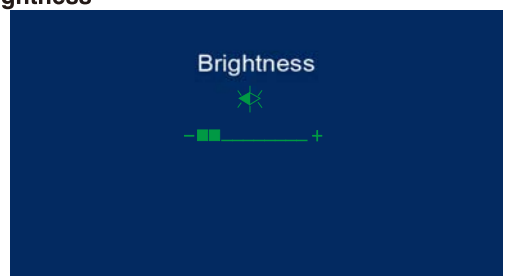
4. If you want to set the ringing time, you can press **Up** ^ or **Down** v to choose Ringing Time(1-30 seconds are selectable), and press **Left** < or **Right** > to adjust.

5. When setting Ringing Time at 0s, indoor monitor is on mute.

6. Press (OK) to save the settings and return to the previous menu.

> ***Note:*** *Also, you can use* ***Left*** < *or* ***Right*** > *key to adjust the ringtone volume in the standby mode.*

Chapter 2: Brightness



This function allows you to adjust the brightness (9 levels are adjustable).

1. Press **Up** ^ or **Down** v to choose “Brightness” menu, then press (OK).

2. Press **Left** ‹ or **Right** › to select the brightness level that you like. Each time you press **Left** ‹ or **Right** › , the indoor monitor displays with the selected brightness level .

3. Press OK to save the settings and return to the previous menu.

> ***Note:*** *Also, you can use* ***Up*** ^ *or* ***Down*** v *key to adjust the brightness in the standby mode.*

Chapter 3: Key Tone

Every time you press a key, your indoor monitor acknowledges it with a key tone. You can disable the key tones. In certain error conditions, there will be a warning tone when an incorrect key is pressed.

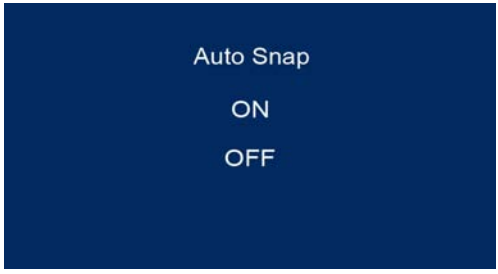
1. Press **Up** ^ or **Down** v to choose “Key Tone” menu, then press OK.
2. Press **Up** ^ or **Down** v to choose **On** or **Off** to enable or disable the function.
3. Press OK to save the settings and return to the previous menu.

Chapter 4: Ring Tone

This function allows you to change the ring tone of indoor monitor (There are three ring tones for your selection).

1. Press **Up** ^ or **Down** v to choose “Ring Tone” menu, then press OK to confirm .
2. Press **Up** ^ or **Down** v to select the ring tone that you like. Each time you press **Up** ^ or **Down** v , the indoor monitor rings with the selected volume.
3. Press OK to save the settings and return to the previous menu.

Chapter 5: Snap Set.



1. Press **Up** ^ or **Down** v to choose “Snap Set.” menu, then press OK .
2. Press **Up** ^ or **Down** v to choose **On** or **Off** to enable or disable the function.
3. Press OK to save the settings and return to the previous menu.

With this **Auto Snap On**, the camera will take a photo of visitor automatically when the visitor presses the **Call** button on the door camera. You can pick up this photo easily in the indoor monitor.

***Notes**:*

1. During the conversation, if you press the Snapshot key, the camera can take a photo of visitor and save it into the indoor monitor.

2. During the monitoring, if you press the Snapshot key, the camera can take a photo of the view and save it into the indoor monitor.

3. Up to 100 photos can be stored in the monitor . The previous ones will be removed automatically if the photos are more than 100 pieces in the indoor monitor.

Chapter 6: Snap Show

You can view or delete recorded photos in this menu. Door camera number, missed call icon or the door camera's PIR icon will be displayed at the top of photos correspondingly.

1. Press **Up** ^ or **Down** v to choose “Snap Show” menu.
2. Press OK, and press **Left** < or **Right** > to view pictures.
3. If you want to delete the photo, use **Left** < or **Right** > to choose the photo and then press OK . The display will show “ 🗑 ? ”. Press OK to confirm.
4. :This icon means Delete All. Pressing Unlock key, the system will prompt whether to delete all the photos. Press OK to delete and press Return to exit.
5. After one warning tone, it will display next photo.
6. Press ⮌ to return to the previous menu.

Chapter 7: Date&Time

1. Press **Up** ^ or **Down** v to choose “Date&Time” menu, then press OK to **Select.**

2. If you want to set the time, you can press **Left** < or **Right** > to choose the Hour or the Minute and press the **Up** ^ or **Down** v to adjust.

3. If you want to select the date, you can press **Left** < or **Right** > to choose the Year or the Month or the Date, and press the **Up** ^ or **Down** v to adjust.

4. Press OK to save the settings and return to the previous menu.

Notes:

1. Use 24-hour system as time format and YYYY-MM-DD as date format.

2. Date & Time must be set in advance to ensure that the time displayed on the indoor monitor is correct.

3. When you replace battery, you must set the time and the date again.

4. The Date & Time setting order is Hour-Minute-Year-Month-Date.

Chapter 8: Door Set.

1. Press **Up** ^ or **Down** v to choose “Door Set.” menu, then press OK.

2. If you want to adjust the volume of door camera, you can press **Up** ^ or **Down** v to choose (9 levels are adjustable), and press **Left** < or **Right** > to adjust.

3. If you want to set the ring time, you can press **Up** ^ or **Down** v to choose Ring Time(1-15 seconds are selectable. When two indoor monitors are connected to one door camera, if the time set in two indoor monitors is different, the time is subject to the shorter one), and press **Left** < or **Right** > to adjust.

4. If setting Ringing Time at 0s, door camera will not make a sound when the call button is pressed.

5. If you want to set the unlock time, you can press **Up** ^ or **Down** v to choose Unlock Time(1-9 seconds are selectable), and press **Left** < or **Right** > to adjust.

6. Press OK to save the settings and return to the previous menu.

> ***Note:*** *When two indoor monitors are connected to one door camera, the settings of these two indoor monitors should be the same.*

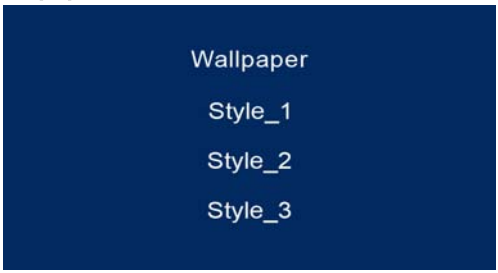
Chapter 9: Language

1. Press **Up** ^ or **Down** v to choose “Language” menu, then press OK.

2. Press **Up** ^ or **Down** v to choose the corresponding language(0 stands for English, 1 stands for Dutch, 2 stands for Polish, 3 stands for German, 4 stands for French, 5 stands for Italian, 6 stands for Portuguese, 7 stands for Spanish, 8 stands for Russian, 9 stands for Turkish).

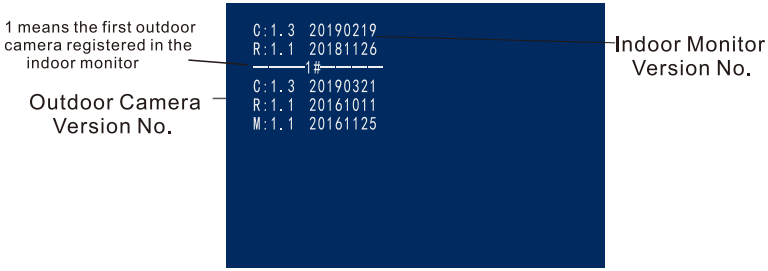
3. Press OK to save the settings and return to the previous menu.

Chapter 10: Wallpaper



You can choose different wallpaper.

Chapter 11: Version



Press **Up** ^ or **Down** v to choose “Version” menu, then press (OK).
You can check the software version in it.

Chapter 12: Video Set.

1. Press **Up** ^ or **Down** v to choose “Video Set.” menu, then press (OK) to **Select** .
2. Press **Up** ^ or **Down** v to choose **On** or **Off** to enable or disable the function.
3. Press (OK) to save the settings and return to the previous menu.

With this **Auto Video Record On**, the camera will record the video of visitor automatically when the visitor presses the **Call** button on the door camera. You can view this record easily on the indoor monitor.

Notes:

1. During the conversation/monitoring, the camera can record the video of visitor and save it into the indoor monitor.

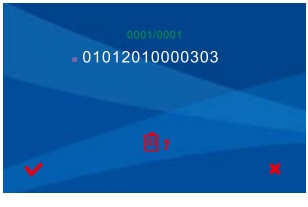
2. Up to 1000 records can be stored on the indoor monitor. The longest time for video recording is 75 seconds.

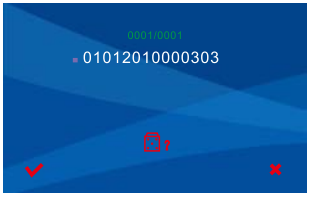
Chapter 13: Video Record.

1. Press **Up** ^ or **Down** v to choose “Video Record.” menu, then press OK to **Select**. SD card needs to be inserted, otherwise the following interface will appear. When the SD card is inserted, the upper right corner of the interface will appear .

You can view or delete the video record in this menu.

1. Press **Up** ^ or **Down** v to choose “View Record” menu.
2. Press OK, and press **Up** ^ or **Down** v to view the records.
3. If you want to delete the record, use **Up** ^ or **Down** v to choose it and then press OK. The display will show “ ? ”. Press OK to confirm.
4. :This icon means Delete All. Pressing , the system will prompt whether to delete all the records. Press OK to delete and press Return to exit.
5. After one warning tone, it will display the next view.
6. Press ⮌ to return to the previous menu.

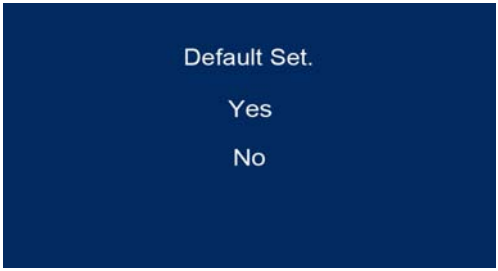




Chapter 14: PIR Settings

The door camera can not support this function.

Chapter 15: Default set.



This function allows you to reset the indoor monitor to the factory default.

1. Press **Up** ^ or **Down** v to choose “Default Set.” menu, then press (OK).
2. Press **Up** ^ or **Down** v to choose **YES** or **NO** to enable or disable the function.
3. Press (OK) to save the settings and return to the previous menu.

Result: After resetting, the indoor monitor will return to standby mode.

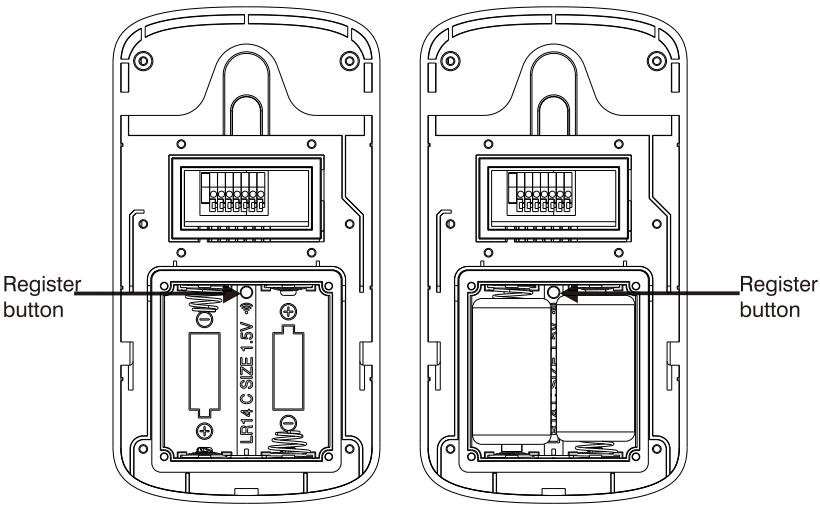
> ***Note:*** *If you reset the indoor monitor, all of the settings will return to the factory default.*

Engineering Mode

Register

1. Firstly, insert the small screw driver on " " position inside the battery compartment of door camera for 3 seconds. It will give a sound like "Di" and the backlight of call button will lighten.

Secondly, press on the indoor monitor, select the Register menu, press Up or Down to choose one door camera (1-2 are selectable) that you want to connect, and press OK to confirm the settings. Then the door camera will automatically search for the indoor monitor which needs to be registered. When the indoor monitor gives an indication tone, it means that it is registered successfully.



2. Pressing and then selecting the Register menu, the system will enter into the following interface. It indicates that the indoor monitor is registered successfully.

3. If you want to delete the registration, you can press (OK). The screen will show " 🗑?", press (OK) to confirm. Press ↩ to return to the home page.

Notes:

1. The registration of door camera can be up to 60 seconds.

2. The registration of indoor monitor can be up to 20 seconds.

3. The product can support max. 2 door cameras and 2 indoor monitors.

Power Saving Mode

1. If the door camera is battery-powered, the indoor monitor cannot enable monitoring function with factory default. Press register button for 3 seconds and make the door camera enter the registration status. Press register button again for 3 seconds. The door camera will give “bi-bi-bi” tone and switch from power saving mode into power consumption mode. Then the monitoring function is available for the indoor monitor.

2. In registration status, press register button for 3 seconds. The door camera will beep and switch from power consumption mode into power saving mode. In this case, the monitoring function is unavailable.

Operations

Monitor

As for monitoring function, the LCD will automatically display the corresponding menu in accordance with the registered door camera.

1. In the standby mode, press OK.

2. With one door camera registered, the indoor monitor will enter into monitoring mode directly.

3. With two door cameras registered, the LCD will display Monitor 1# and 2#. You can press Up ^ or Down v to choose the one you need to watch, then press OK.

4. In monitoring mode, press **Accept** key to enter into intercom communication.

Note: Monitoring time can last up to 45 seconds.

Alarm

When someone takes the door camera apart from the bracket, the door camera and indoor monitor will give alarm tone. The door camera will first call the main indoor monitor. If the main indoor monitor doesn't respond, the door camera will call the sub indoor monitor. In this case, the call button is invalid on the door camera. Press or on indoor monitor to stop alarm sounds.

Notes:

1. The alarm time can be up to 5 minutes.

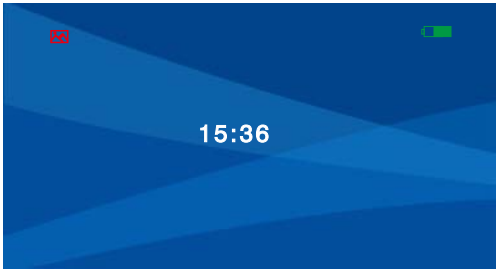
2. During the alarm, door camera can only connect with one indoor monitor.

Calling indoor monitor

If the visitor presses the **Call** button on the door camera, the corresponding indoor monitor rings and the image of the visitor appears on the LCD of indoor monitor.

1. If the owner doesn't want to answer, press to cancel the call.

2. After the owner presses , the indoor monitor will stop ringing. Then the conversation starts. Press to end the conversation.



3. When the door camera calls indoor monitor, if the indoor monitor has no operation (press / /), it will return to the main interface. The flashing icon of missed call will show in the upper left corner to remind the user of viewing the images. Pressing the End key in the main interface or viewing picture in the "Snap Show" can cancel the flashing icon.

Note: *Missed call icon will be displayed when Auto Snap is enabled.*

Notes:

1. The ringing time can be up to 30 seconds.

2. The conversation can be up to 45 seconds. After 45 seconds, the call will be disconnected automatically.

Unlocking

During conversation or monitoring status, press button to unlock the door.

Backlight

1. If the door camera is supplied by DC 12V, the backlight of call button is on.

2. If the door camera is supplied by battery, the backlight of call button is off.

3. In the registration, calling, alarm, monitoring and intercom status, the backlight will flash.

Note: During the calling, alarm or monitoring status, if the door camera is powered by battery in power saving mode, the backlight of call button will be off without flashing.

Technical Parameters

Item	Detail
Door Camera	
Transmit Frequency Range	2.4GHz - 2.4835GHz
Data Rate	2.0Mbps
Transmitting Power	19dBm（TYP）
Modulation Type	GFSK
Transmitting Distance(in open area)	about 500m
Image Sensor Type	Color CMOS Image sensor
Image Processing	H.264
Camera Pixels	640*480
White Balance	Auto
Viewing Angle (Diagonal)	120°
LED	6 LEDs
Power Requirement	(+9V-12V)±5%/ 2*LR14(C),1.5V batteries
Power Consumption	500mA Max(Cells) 200mA Max(+12 V DC)
Operating Temperature	-20℃～+55℃
Operating Humidity	20%-80%
Size(W*H*D)	86*160*55mm
No. of indoor monitor supported	Max .2

Technical Parameters

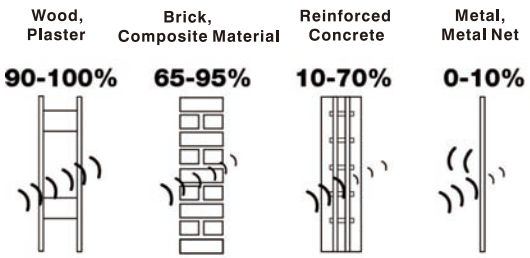
Item	Detail
Indoor Monitor	
Receiving Frequency Range	2.4GHz - 2.4835GHz
Monitor	7” Color LCD
Data Rate	2Mbps
Receiving sensitivity	-85dBm
Demodulation Type	GFSK
LCD Resolution	800X480(RGB)
Transmitting Power	19dBm（TYP）
Power Requirement	3.7V ,2500mA(lithium battery)
Power Consumption	500mA Max
Operating Temperature	-10℃～+55℃
Operating Humidity	20%～80%
Size(W*H*D)	214.85*149.85*21mm
No. of door camera supported	Max .2

Notes on Installation & Usage

Since working frequency of this product is 2.4G, wavelength is short and wireless signal has poor penetration, the device will get disturbed from other products of the same frequency. In order to ensure smooth communication, please note the following.

1. It's best to install door camera in a place away from rain and wind. Try to avoid the sunlight into camera lens. Do not place the door camera directly on metal security door, because metal will have barrier effect on the signal. Door camera can be installed on the wall nearby.

2. Since the product is straight line transmission, try to reduce the obstacle between door camera and indoor monitor. The obstacle will weaken the signal. In the case that there is the obstruction which affects transmission distance, please shorten the distance between transmitter and receiver if possible when meeting usage needs. When the product goes through different obstructions, general signal attenuation situation is as below:

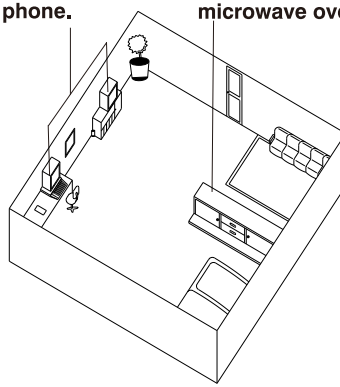


Remaining signal percentage is shown above after radio wave passes through the obstructions of different materials.

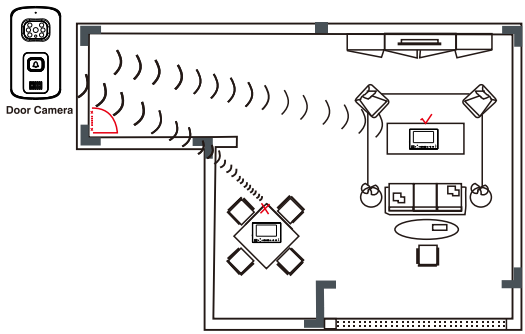
3. Do not put any product of the same frequency such as router, bluetooth device and microwave oven next to our device in order to avoid causing the interference and shortening of communication distance. If the number of walls between outdoor camera and indoor monitor results in ineffective communication, please adjust the location of two devices to reduce wall number between two devices over a horizontal distance. When outdoor camera is in communication with indoor monitor, if someone walks on the distance between two devices, the communication might be less effective. The indoor monitor cannot be put in low-lying place or corner.

Away from electrical appliances, such as a TV, personal computer or another cordless phone.

In a HIGH and CENTRAL location with no obstructions such as walls, microwave oven and WIFI.



Location Diagram 1 of Indoor Monitor



Location Diagram 2 of Indoor Monitor

Safety Instructions

In order to protect you and others from harm or protect your device from damage, please read the following information before using the device.

Do not install the device in the following places:

- Do not install the device in high-temperature and moist environment or the area close to magnetic field, such as around electric generator, transformer or magnet.
- Do not place the device near heating products such as electric heater or the fluid container.
- Do not place the device in the sunshine or near the heat source, which might cause discoloration or deformation of the device.
- Do not install the device in an unstable position to avoid the property losses or personal injury caused by the falling of device.

Guard against electric shock, fire and explosion

- Do not use damaged power cord, plug or loose outlet.
- Do not touch the power cord with wet hands or unplug the power cord by pulling.
- Do not bend or damage the power cord.
- Do not touch the device with wet hands.
- Do not make the power supply slip or cause the impact.
- Do not use the power supply without the manufacturer's approval.
- Do not have the liquids such as water go into the device.

Clean Device Surface

- Clean the device surfaces with soft cloth dipped in some water, and then rub the surface with dry cloth.

Other Tips

- In order to prevent damage to the paint layer or the case, please do not expose the device to chemical products, such as the diluent, gasoline, alcohol, insect-resist agents, opacifying agent and insecticide.
- Do not knock on the device with hard objects.
- Please be careful when standing up from under the device.
- Do not disassemble, repair or modify the device at your own discretion. The arbitrary modification is not covered under warranty. When any repair required, please contact the customer service center.
- If there is abnormal sound, smell or fume in the device, please unplug the power cord immediately and contact the customer service center.
- When the device isn’t used for a long time, the adaptor and memory card can be removed and placed in dry environment.

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