



## User Manual for Motion Sensor Alert Chime



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## **Working Principle**

Objects with temperature over 0°C will produce infrared radiation. Movement or other factors can result in temperature change; Infrared motion sensor can detect the change of infrared spectrum of human body and even big animals, which is caused by temperature change. When someone or an animal enters the detecting area (4~5m x 110°), motion sensor can detect the little change with a blue lights alert, then send signal immediately to receiver and receiver will play the ring tone you choose and turn the LED light on.

## **Applicable Places**

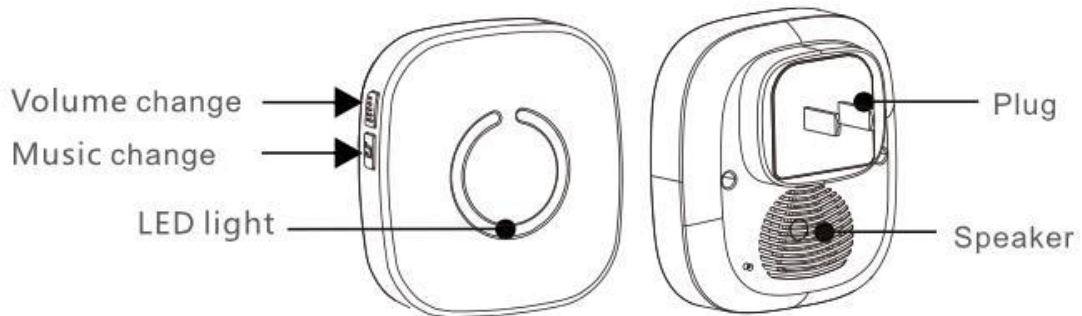
Shops, houses, offices, factories, hotels, hospitals etc.

Our Motion Sensor Alert chime can also work as door alert system to your premises.

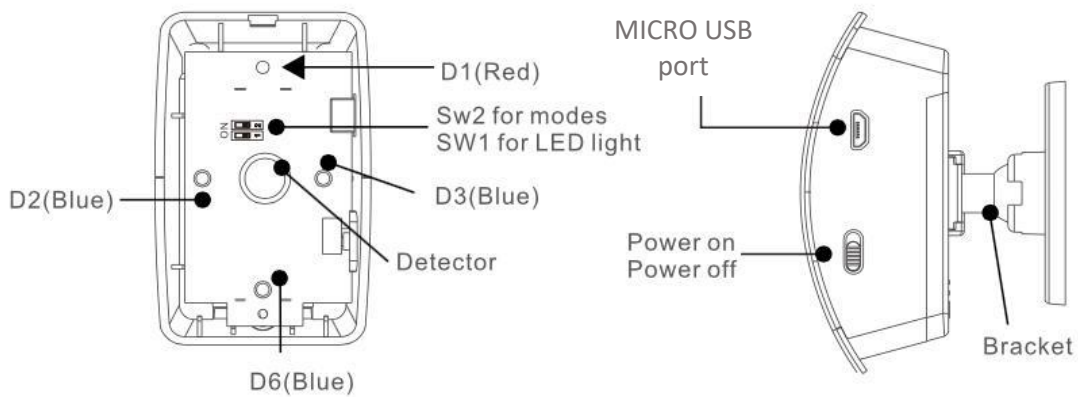
## **Product Description**

1. Learning code and expandable. Users can easily add more sensors and receivers.
2. Simple power. Receiver is AC plug-in type; motion sensor can be powered by batteries (2xAAA batteries) or with a MICRO USB cable. (Note: USB option does not charge the batteries)
3. Receiver has 52 high-quality ring tones, 4-level adjustable volume, and LED light. Motion sensor has 1 red indicator for low power alert and 3 blue indicators for detecting alert; see product diagram below.
4. Two working modes:
  - a) Motion sensor makes detection every 1-2 seconds
  - b) Motion sensor makes detection every 5 -8 seconds (default setting)
5. Easy installation and low power consumption.
6. 110m~140m receiving range in the open air without barriers; (4~5mX110°) detecting range

## Product diagram (Receiver)



## Product diagram (Motion Sensor)



## Remarks:

- D1 is red light and stays on all the time if voltage is lower than 1.9V and higher than 1.6V. This red light indicates low battery power and batteries should be replaced soon.
- D2, D3, D6 are blue lights. These three LED lights turn on every time motion sensor is triggered when detecting objects.
- If voltage is lower than 1.6V - D2, D3, D6 LEDs light up with a dark blue color, red light will be off and blue lights get darker and darker if voltage further decreases. Please note that working range performance will be affected when voltage is lower than 1.6V, so change to fresh batteries for optimal performance.

d) Choose sensing modes

Open the back cover of battery slot and then find the screw; use tool to unscrew it, then front cover can be opened and you can find Switch 1 and Switch 2.

- Switch "2" to the left (at the ON mark), it detects every 1-2 seconds.
- Switch "2" to the right, it detects every 5-8 seconds.
- Switch "1" to the left (at the ON mark), three LEDs (D2, D3, D6) will light up when motion detection is triggered.
- Switch "1" to the right, three LEDs (D2, D3, D6) will NOT light up when motion detection is triggered.

### **How to Pair the Motion Sensor with the Receiver and Change Tunes**

1. Put in batteries and open power button, D1 will flash for a second then goes off; meanwhile, D2, D3, D6, will flash for a few seconds to self-check. Motion Sensor has the same reaction if connecting with MICRO USB power cable.
2. Choose sensing mode and whether to light LEDs with Switches 1 and 2.
3. Volume Adjustment: There are 4 volume levels to choose. Find the volume control button on the left side of the receiver. Press this button repeatedly to set desired volume.
4. Music/Chime Selection: There are 52 different ring tones. You can set different or the same melody for transmitters. Ring tone and pairing setting can be made at the same time. Operations are the same – see step 5, a-b-c.
5. Your doorbell has already paired out of the box. If you need to re-pair the receiver(s) with transmitter(s) or wish to change to a different tune, do the following steps as soon as possible since receiver will exit learning mode automatically if it doesn't get a signal from the transmitter in 5 seconds.

- a) Press the Music Control button on the receiver to select the desired tune.
  - b) Set Receiver into learning mode (pairing mode) by either of the methods i) and ii) below:
    - i. Press the Volume and Music Control buttons on the receiver at the same time.
    - ii. Press the Volume button on the Receiver for 5 seconds.
  - c) Pair transmitter with receiver by waving in front of the motion detector of motion sensor to trigger it. You will hear the tune you have selected.
  - d) To pair additional transmitters; please repeat the steps a-b-c above. In order to avoid interference, pair 1 transmitter only at a given time. You can pair up to 30 transmitters at most.
6. RESET: To reset all settings, press the Music Control button for 5 seconds, then pairing will be relieved and tune turns into default music-Ding Dong. You can wave in front of the motion sensor to verify.

## **Installation Steps**

1. Please first choose the ring tone you like and test whether the operational range you have chosen works. Prepare an electric drill or cross screwdriver for installation.
2. Installation of receiver: Just plug receiver into an outlet.
3. Installation of motion sensor: make hole on the wall with drill and fix the bracket of motion sensor with screws and anchors in the housing, then assemble the other round part of the bracket, put on motion sensor and adjust the detect to make it aim at the area you require.
4. Suggestion for installation in shops and houses: we suggest you install the motion sensor on the inside roof by the door. In this way, the detecting area is vertical behind the door. Glass door will isolate the detection, when someone comes inside, they will trigger the door area, it begins detecting and sends signal to let receiver know. Please note that the motion sensor is non-waterproof.

### Parameters of Motion Sensor

Working Voltage	DC 3V (2 AAA batteries)
Working current	15Ma
Current in suspend mode	30 Ua
Detecting area	4~5Mx110°
Working range between receiver and sensor	120~150m in the open air
LED lights	4 (1 red LED for low power alert, 3 blue LED for detecting alert or extremely low power)
Voltage under USB line power supply	5V
Working frequency	433 MHz± 2MHz
Working temperature	-15°C ~60°C
Waterproof (Yes or no)	No

### Parameters of Receiver

Input of receiver	AC 110V/ 220V 50Hz/60Hz
Optional melodies	52
Volume loudness	30-110 dB
Plug type	Any
Expandable (yes or no)	Yes
Work frequency	433 MHz± 2MHz
Working temperature	-15°C ~ +60°C