1/2 Mile Wireless Driveway & Intruder Alert

User Manual

Please read the user manual carefully before use and installation.

General Information

The wireless driveway and intruder alert includes wireless door chime and outdoor PIR motion sensor, the wireless distance between them can be up to 2600 feet (800m) in open air. It is great for multiple applications, including:

- Alerting you when visitors enter your driveway.
- Deterring trepassers and thieves from entering your property or building.
- Alerting you to wildlife on your land.
- Using in drive-thrus to signal that a customer has pulled in, and more.

This wireless driveway alert is expandable,which allows you to pair various transmitter to the receiver, such as door sensor, motion detector, push button, etc. One doorbell receiver can pair with up to 50 various transmitters and each transmitter can be set to different ringtone. One transmitter also can pair with up to 50 receivers for different rooms.

Specifications

Input of Receiver	AC 110-230V, 50/60Hz
Plug Type:	US / EU / UK / AU
Optional Melodies	58
Volume Level	0-110dB, 5 levels
Wireless Transmission Distance	up to 800m in open air
Adjustable Detection Distance	4-6m, 6-8m, 10-12m
Detection Angle	horizontal: 60°, vertical:30°
Time Interval Between 2 Detections	15s
Expandable (Yes or No)	Yes
Working Frequency	LoRa 433MHz±2MHz
Waterproof Level	IP44
Working Temperature	-20~ +50℃

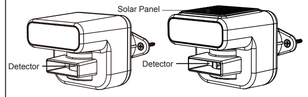
How does it work

1) The receiver works as an alarm buzzer or door chime, it monitors for signals coming from the Passive Infrared (PIR) motion sensor, and activates an alert in response to that signal. It also features a LED indicator so you can visually tell when an alert is coming, it can be simply plugged to an AC outlet.

2) The PIR motion sensor enables you to detect movement of people and vehicles. It will send a signal to the receiver whenever motion is detected. The motion sensors should be deployed outdoors, where there is a clear view of the driveway or the likely entry and exit paths that you plan to secure.

Overview

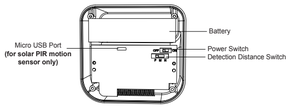
AC Plug-in Receiver



Non-rechargeable PIR Motion Sensor

Solar PIR Motion Sensor

PIR Motion Sensor PCB Layout



Micro USB Port: to fast charge the built-in battery when the battery is low and no sunlight for solar charge.

Power Switch: turn the motion sensor ON/OFF.

Detection Distance Switch: there are "N", "M", "F" three options.
N: detection distance is 4-6m
M: detection distance is 6-8m
F: detection distance is 10-12m
You can choose any of them based on your requirement when you install the PIR motion sensor.

Getting Started

1. Power up the indoor chime receiver

Plug the receiver into the outlet, the receiver will perform better if kept away from other electrical equipment (e.g. TV, microwave)

2. Power up the PIR motion sensor

The motion sensor runs on battery and operates wirelessly at a maximum distance from the receiver of 2600 feet (800m).

3. Sound volume conrol

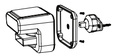
Press the volume control button on the receiver to cycle through 5 volume levels.

4. Setting ringtone for a transmitter

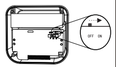
There are 58 melodies to choose from
(1) Press the Forward or Backward button to choose your favorite ringtone, the receiver playing is the ringtone selected.
(2) Please follow the pairing steps below to sync the new ringtone. The new ringtone will be set for the most recently synced transmitter.
(3) Different ringtone can be set for each transmitter.

5. Pairing a transmitter to the receiver

(1) Remove the screws from the four corners of the back of the motion sensor.



(2) Take off the back cover and turn on the battery switch, when you see the PIR sensor flashes, then you can replace the back cover and secure the screws to wait pair.



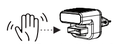
(3) Please select your favourite ringtone before pairing.

Select ringtone

(4) Hold and press the **Volume Control** Button for about 5s until a "Ding-dong" is heard and the LED indicator starts flashing. You are now in pairing mode.

Hold volume button for 5s

(5) Quickly activate the tramsitter within 5s to send a signal to the receiver. When the pairing (ringtone sync) is successful, activate the transmtter again, the receiver will play the selected ringtone automatically.



WAVE your hand in front of the motion sensor to **activate**

Remark:

(1) Pairing mode will last for 5 seconds only.
(2) Pairing mode will quit automatically after pairing is completed. If you didn't pair the transmitter with receiver successfully, please repeat the pairing steps (4)-(5) .

6. Two or more transmitters pairing:

The pairing mode is available for a transmitter only each time. For two or more transmitters, please follow the pairing steps (1)-(5) once again to get transmitters paired one by one.

7. Reset:

Press **Music Forward** Button for about 5 seconds to reset receivers to default. When receiver sounds "Dingdong" with LED flashing that means reset succeeds, settting is back to default. It comes back to the 1st music, no transmitter is paired with receiver.

Hold forward button for 5s

Receiver & Transmitter Installation

Important: Prior to installation, please test the alert wireless distance.

For Plug-in Receiver: Just plug receiver into standard outlet in room, then it will work.

For PIR Motion Sensor:

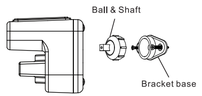
We recommend mounting the motion sensor at least 3-4 ft (1m) above the ground on a sturdy, no metal surface (i.e. a wall, wooden post or tree) with the sensor detector pointed straight out over the area you wish to cover (such as up your driveway looking towards your house).
This will decrease or eliminate false alarms from small animals, give you a longer area to pick up movement, and avoid unwanted alarms from nearby lawns /roads.

Note:
Always test that your sensor is working in your desired location before installing it. Avoid placing your sensor in a location where sunlight will shine directly into the sensor's detector window. Direct sunlight may cause false alarms and/or damage to the PIR sensor.

Tools you will need for installation:
- Pencil
- Phillips screwdriver
- Electric drill with 3/32" and 7/32" drill bits (recommended)
- Hammer (optional)

(1) Mark the mounting holes with a pencil.

(2) If installing on a wooden surface, you only need to use the included screws. Drill out your pilot holes using a 3/32" drill bit to a depth of 3/4". This will help you prevent stripping of the screws and hold the sensor more securely.



(3) If installing on any other surface, such as brick or masonry, you will use the included screws and anchors. Drill out your pilot holes using a 7/32" drill bit to a depth of 1". Gently tap the anchors into your pilot holes using a hammer until the anchors are flush with the mounting surface.

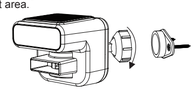
(4) Screw the bracket base to the place you want to install.

(5) Screw the back cover onto the shaft of the screws.

(6) Replace the back cover and secure the screws.

(7) Twist the ball onto the fixed base of the bracket just until tight. Do not over-tighten.

(8) Adjust the angle of your sensor so that it is looking at your target area.



Troubleshooting

1. Alerts went off randomly when no one was around.

Reason: There may be random movement of animals, high density FR, heat radiation, or strong air flow in the detection range of sensor,

Solution: Change install location.

2. Receiver sometimes doesn't ring when someone passing by.

Reason 1: The movement of passerby may not be detected.
To avoid constant alerting and ringing if a motion trigger occurs, there's a 15-second time interval between 2 detections. If someone passes through the detection range quickly during the time interval, then the movement can't be detected.

Solution 1: Please install the motion at height of 2~2.2 meters to cover maximal detection area.

Reason 2: The movement was detected but working range between receiver and sensor is shorter than before due to low power status of motion sensor.

Solution 2: Please change or charge battery for motion sensor after you noticed the low power alert.

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.