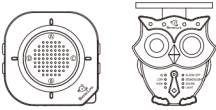
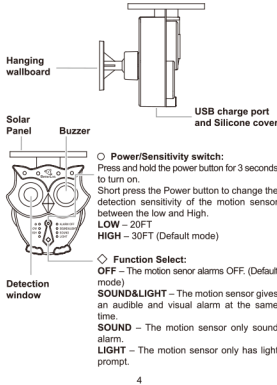


Wireless Driveway Alarm System
NS-001
User's Manual



Thank you for purchasing our product. Please read and keep this manual carefully. Please feel free to contact us if you have any query.
✉ Mail: support@betterlinkstore.com
🌐 Web: www.betterlinkstore.com

Motion Sensor



1 Product introductions

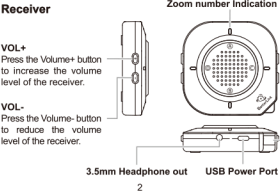
The wireless driveway alarm system includes a receiver and a motion sensor with waterproof grade of IP65 for indoor and outdoor use.
Built in lithium battery: The receiver and motion sensor have built-in the high-capacity battery will keep the ultra-long standby time.
Solar power for Motion Sensor: The motion sensor can be charged with solar panels that you never do not need to take it down for charging after installation.
Wide Range of Uses – The motion sensor is an important part of any family safety solution. The waterproof motion sensors in the system use the pyroelectric infrared (PIR) technology to detect the heat source of moving object, so that you can quickly receive motion alarms of people, cars and animals in your driveways, front porches, gates, sheds, walkways and even during hunting. Great for homes, businesses and offices.
Long Distance Wireless – Communication range up to 1/2mile (800 Meters) from each sensor to the receiver. Think of this system as your long-range doorbell.
Flexible work – The motion sensor can work with the receiver and also can work independently.
4 Alert Options - Select one of 4 ways of being alerted

3 Operating instructions for receiver

- 1. Turn on/off the receiver**
Press and hold the Power button for 3 seconds to turn on/off the receiver.
Noted: The receiver will power on automatically when USB is plug in.
- 2. Add(pair) a new motion sensor**
If you want to add additional motion sensors that you need to pair the motion sensors with the receiver. Please refer to the following steps.
 - a. First power on the receiver and then press and hold the Mode button for 3 seconds to enter the pairing mode and the Zone 1 flashes quickly for 30 seconds and waiting for pairing.
 - b. Power on the motion sensor or wave your hand in the front of the detection window to trigger the motion sensor.
 - c. The receiver will produce a unique tone to indicate that the pairing has been successful. The zone number will be increased automatically.
 - d. You can also specify this zone number manually that press and hold the Mode for 3 seconds to enter the pairing mode and then short press the Mode button to change the zone number that your favorite, then wave your hand to trigger the motion sensor to complete the pairing.

(audible alarm/Light Alarm/Sound light alarm/Work with receiver) . Be alerted to visitors, scare off unwanted intruders, or even know when your children have accessed restricted areas.
Easy to Install & expandable - This system is easy to install and expandable that can be set up within minutes, one receiver can expandable with up to 16 sensors for full coverage of your property. The sensors can be mounted to walls, fence posts, trees, or any other surface, providing extra layers of security and home safety.

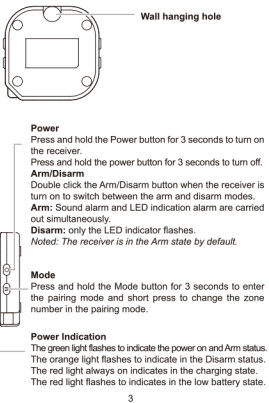
2 Overview



Noted: Our products have been paired before delivery.

- 3. Arm/Disarm Mode**
Double click the Power button to change between the Arm and Disarm mode when the receiver is on.
Arm Mode: The sound and red led of zone indication alarm at the same time and the green led of power indicator flashes to show the status.
Disarm Mode: There is only the zone indication and no audible alarm when the receiver is triggered and the orange led of power indicator flashes to show the disarm status.
Noted: The receiver is in arm mode by default and the green led of power indicator is flashing.

- 4. Adjust the volume level of the receiver.**
Press the Volume+/Volume- button to change the volume level of the receiver.
- 5. Headphone out**
If you don't want to disturb others, you can use the headphone output that will cut off the speaker out.
- 6. Low Battery Prompt**
a. If the battery of the receiver is low, the red power indicator on the receiver will flashes quickly. Please charge the receiver in time.



- a. If the battery of the motion sensor is low, the power indicator on the motion sensor will flashes quickly and there is an audio prompt from receiver at the same time to show the "Zone A/B/C/D power low, please charge". Please charge the motion sensor in time.

- 7. Clear pairing lists from the receiver.**
Press and hold the Mode button on the receiver and then plug in the USB power until the four zone indicators turn off in turn, the pairing lists will be cleared.

4 Operating instructions for Motion Sensor

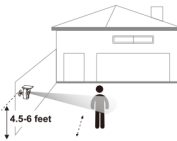
- The motion sensor can work with the receiver and also can work independently. The statues indicator will light up for 5 seconds and then time out to save power.
- 1. Turn On/Off the motion sensor**
Press and hold the power button for 3 seconds to turn on/off the motion sensor.
 - 2. Sensitivity Select**
Short press the Power button to change the detection sensitivity between the Low and High mode.
Noted: Low = 20FT/ High=30FT (Default mode)

- 3. Alarm mode select**
Short press the Mode select button to select the alarm mode.
OFF – Alarm off of the motion sensor (It can still work with the receiver)
SOUND&LIGHT – The motion sensor gives an audible and visual alarm at the same time.
SOUND – The motion sensor only audible alarm.
LIGHT – The motion sensor only has red led flashes prompt.
Noted: The alarm output of this buzzer is 120dB and will last for 10 seconds.
- 4. Alarm Level Select**
The motion sensor has two alarm volume levels with high/low that can be selected. The default setting is low. You can press and hold the Mode select button for 3 seconds to change the volume level between the high and low.
- 5. Charge for the motion sensor**
This sensor has a solar panel that can continuously charge the battery.
It can also be charged with USB 5V.

5 How to installation the motion sensor

- a. Installation method**
Fix the hanging wallboard of the motion sensor on the wall/tree or the flat surface of other objects with the screws in the accessories.
- b. Installation environment confirmation**
The motion sensor uses a Pyroelectric infrared sensor to detect the infrared radiation temperature change of a moving object. The infrared changes around the installation environment have a great impact on it, so there are the following requirements for the installation environment:
 - 1) The sensor detection range cannot have air cooler or warm fan and other interference infrared changes, it is best not to have trees;
 - 2) Avoid direct infrared detection window of sunlight, car headlights, incandescent lamps, etc.;
 - 3) Between the sensor and the detection object to avoid glass and allylic and other substances difficult to pass through the far infrared;
 - 4) The sensor cannot be used to detect a heat source that is not moving or moving at high speed.
 - 5) Electromagnetic interference or obstacles will reduce the wireless distance. Please avoid too many trees, walls and other obstacles between the sensor and the receiver, and there must be no metal obstacles.

C. Motion sensor mounting height.



- Noted: 1. The recommended installation height is 4.5-6 Feet.*
- 2. The installation angle should be adjusted according to the height and distance of the object to be measured and the detection environment.*

6 Technical Parameters

- Power Supply:** DC 5V/1A Input (5V adapter not included)
- Battery Life:** The receiver can work for about one month. The motion sensor can work for about one year.
Noted: The battery life ultimately depends on the trigger frequency of the motion sensor and receiver.
- Infrared (PIR) Detection Distance:**
Low Sensitivity: < 20FT (6 meters)
High Sensitivity: < 30FT (9 meters)
Noted: Maybe affected by the environment temperature.
- Infrared (PIR) Detection Angle:** 45° for the horizontal direction
- Wireless Distance:** < 1/2 mile or 800 Meters (In a clear or unobstructed space)
- Work Frequency:** 433.92 MHz FSK
- Installation height of Motion Sensor:** 1.5 - 2.1 Meters
- Work Temperature:** -4°F to 140°F (-20°C to +60°C)

7 Troubleshooting

- 1) The sensor is working properly, but the receiver does not respond.**
 - a. Make sure the power supply of the receiver is normal.
 - b. Make sure the motion sensor and the receiver has been paired correctly and successfully.
 - c. Make sure the motion sensor and the receiver in the valid range, please try to shorten the distance between the sensor and receiver.
- 2) Motion Sensor detects the movement of an object and works only part of the time.**
 - a. Please refer to the previous installation instructions and try to adjust the installation height and angle of the motion sensor to obtain an optimal detection angle.
 - b. Ensure that the detected object is within the valid range of infrared detection of the motion sensor or try to shorten the distance between the sensor and the detected object.
 - c. If the problem cannot be solved, please contact us for more help.
- 3) Sometimes the system is giving some false alarm.**
 - a. Please try to cover the detection window of the motion sensor with something to confirm whether there is any false alarm. In that way, the environmental interference

- a. can be eliminated first.
 - b. If there is no false alarm after cover the detection window, please refer to the previous installation instructions and try to adjust the installation height and angle of the motion sensor to obtain an optimal detection angle.
 - c. If there are still some false alarms, please contact us to replace the faulty sensor.
- 4) If the system goes off continuously**
 - a. Please try to cover the detection window of the motion sensor with something to double confirm whether there is any false alarm. In that way, the environmental interference can be eliminated first.
 - b. If there is no go off after cover the detection window, please refer to the previous installation instructions and try to adjust the installation height and angle of the motion sensor to obtain an optimal detection angle.
 - c. If it is still continuous go off, please contact us to replace the faulty sensor.
 - 5) The system is not getting expected transmission range.**
 - a. Check whether the battery of the motion sensor is in low power status. If so, please charge the battery in time.
 - b. Ensure that all equipment is installed away from metal obstacles and other electrical equipment.

8 FCC Statement

FCC ID: 2A89V-NS001
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. 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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This radio is designed for and classified as "General population/uncontrolled use".
– DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed RF exposure limits.
– A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio, and the antenna gain shall not exceed 2dBi by the manufacturer declared.
– DO NOT transmit for more than 50% of total radio use time, more than 50% of the time can cause RF exposure compliance requirements to be exceeded.
– During operation, the separation distance between user and the antenna shall be at least 20cm, this separation distance will ensure that there is sufficient distance from a properly installed externally-mounted antenna to satisfy the RF exposure requirements.
– During transmissions, your radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.