

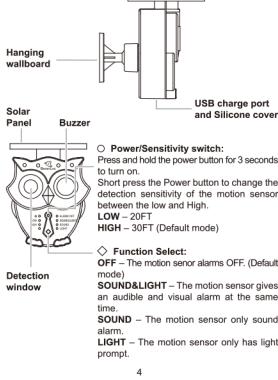
# Wireless Driveway Alarm System NS-001 User's Manual



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



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## 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.

*Note: 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.

- 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.
- Power on the motion sensor or wave your hand in front of the detection window to trigger the motion sensor.
- The receiver will produce a unique tone to indicate that the pairing has been successful. The zone number will be increased automatically.
- 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.

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*Note: 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.

*Note: 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

If the battery of the receiver is low, the red power indicator on the receiver will flash quickly. Please charge the receiver in time.

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- If the battery of the motion sensor is low, the power indicator on the motion sensor will flash 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 status indicator will light up for 5 seconds and then turn off 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.

*Note: Low = 20FT/ High=30FT (Default mode)*

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## 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 light prompt.

*Note: 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.

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## 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 remains 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 to replace the faulty sensor.

### 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

## 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:

- The sensor detection range cannot have air cooler or warm fan and other interference infrared changes, it is best not to have trees;
- Avoid direct infrared detection window of sunlight, car headlights, incandescent lamps, etc.;
- Between the sensor and the detection object to avoid glass and acrylic and other substances difficult to pass through the far infrared;
- The sensor cannot be used to detect a heat source that is not moving or moving at high speed.
- 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.

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.

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.

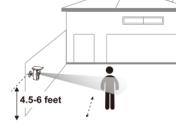
c. If there are still some false alarms, please contact us to replace the faulty sensor.

### 6) 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.

## C. Motion sensor mounting height.



*Note: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.*

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## 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 the receiver. - Connect the equipment into 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

## 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.

*Note: 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)

*Note: 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)

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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.
- DO NOT use an antenna that is longer than the antenna supplied with the radio or antenna specified or authorized by the manufacturer for use with this radio, and the antenna gain shall not exceed 2dB by the manufacturer declared.
- DO NOT transmit for more than 50% of total radio use time, more than 50% of the time the radio is active.
- During operation, the separation distance between the user and the antenna shall be at least 20cm, this separation distance will ensure that there is a safe distance between the user and the antenna.
- Do not use the antenna if it is damaged externally or if the antenna is damaged externally, unplug the antenna and do not use the radio.
- During transmission, your radio generates RF energy that can possibly cause interference with other devices or services. To avoid interference, turn off the radio if it causes interference to other devices or services.
- If the radio emits any signals that appear to do so, DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, airoft, and blasting sites.

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