Wireless Solar Driveway Alarm System with Wi-Fi

User's Manual — Model: HS02LW-W

eMACROS was founded in 2012 by the "Swinehill" group of friends who previously designed Motorola products. After a few years, we became the industry leader in home intercom and security products. Our vision is to create a global world leader in home intercom solutions and products. We create intelligent residential home solutions and intercom systems. Our company philosophy is to focus our efforts on the needs of our clients. We want you to have the best experience possible with our products. We also offer superior customer service to address damaged or defective products. If you have any questions, don't hesitate to contact us at: **Macros.service@outlook.com**; we will assist you as quickly as possible.

Notes, cautions, and warnings

NOTE: A NOTE indicates important information that helps you make better use of your product.

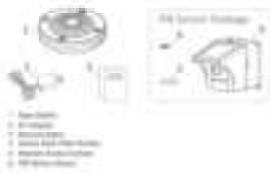
CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

Overview

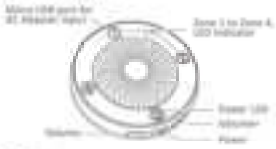
The Wifi Motion Alert ranges up to 122 mts (800 meters) in the open air. It uses a Passive Infrared (P.I.R.) Motion Sensor to detect movement of people and vehicles while allowing small animals to pass through undetected. An AC adapter powers the Base Station; it can also run on 4AA batteries as backup in case of a power outage for 4 weeks. You will receive the notifications on your cell phone when your sensor triggered.

What's in the Box



Operation & Features

1. Base Station



Power

1) Power on: Short press the power button, with one beep.

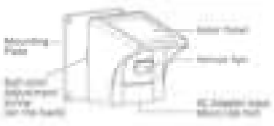
2) Power off: Long press the power button for 3S, with a long beep.

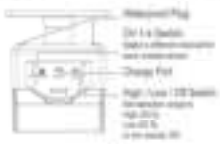
Volumes (Volume-

1) Volume Up and Down: short beep when adjusting the volume, no beep when reaching highest or lowest volume.

2) Network connection: Long press the Volume+ or Volume- button for 3S to enter the network configuration mode, the red indicator light changes from slow flashing to fast flashing.

2. Passive Infra-Red(PIR) Motion Sensor





a. Before installing the PIR Sensor, recharge the sensor (with 18650 battery attached) using the AC adapter to ensure a full charge. The blue light will turn off once the battery is fully charged.

Note: The sensor has been tested several times in the factory. If the blue light went illuminate, the battery may be fully charged, you can install it directly.

b. High / Low / Off Switch: First, open the black silicone seal cap at the bottom of the PIR Motion Sensor. Then turn on the sensor by switching to High or Low. Set the detection range to High (100feet), Low (20 feet), or turn sensor Off.

c. CH 1-4 Switch: Select a different channel for each outside sensor. If installing multiple PIR Motion Sensors, ensure that each sensor is set to a different Channel/Zone.

Note: Each separate channel uses an unique chime, allowing you to match different chimes with different channels.

d. Test the PIR Motion Sensor by waving your hand in front of the sensor. The Base Station will produce a unique tone based upon the sensor's setting.

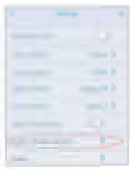
e. When detecting movements, a sensor eye will flash red only when assigned to zones 1 and 2, not zones 3 or 4.

Setting Up Your Home Security System

a. Pairing Sensors:

1) In Receiver: Long press the power button for 5S to enter the pairing mode with a long beep then 4 blue lights flash with one beep. Choosing one channel and turn on the sensor by switching to H or Low. The receiver will produce a unique tone based on the channel automatically. The receiver and sensor are paired successfully.

2) In App: You also can pair the sensor in the App after the receiver connect to wifi. Click the Setting in the App, turn on the Add a Sub Device, then the 4 blue lights would flash 30 seconds with a short beep, then trigger the sensor, the receiver will produce a unique tone based on the channel automatically. The receiver and sensor are paired successfully.



b.Clear the pairing:

1) In Receiver: If you need to clear the paired Sensor, keep press the Power button for 5S, plug in the USB cable, or insert batteries back to enter the clear pairing mode. Your blue indicator lights will on on after one beep, then turn off in turns. After one beep, the clearing is complete, and you can return to normal mode.

2) In App: You can also clear the paired Sensor in the App by pressing Deleting All Sub Devices in the Settings.

1. Download Appz And Create Account

a. Search the My Homeyo App or scan below QR Code to download from the Apple App Store or Google play.

Note: Please make sure that your mobile device's operating system is either iOS 9.0 or higher, or Android 4.1 or higher.

b. Creating a new account on My Homeyo App. Open your My Homeyo App and click the Sign Up and click Agree to agree the user agreement.

Note: To make sure you can receive the notifications when your sensor triggered, please Agree the user agreement.

Enter your email address or mobile number and create a password.

Enter your verification code.

2. Network connection

The red indicator light flashes slowly when the receiver is not connected with the network, long press Volume+/Volume- 8S to enter the network configuration mode, the red indicator light changes from slow flashing to fast flashing. When the network configuration is successful. The receiver's red indicator light goes off.

Connect your phone to Wi-Fi, turn on GPS and Bluetooth, open the MY HOMEYO App, click to add a device.

Manually connection: Select Smart Solar Drive Alarm (Wi-Fi), fill in the working Wi-Fi and enter the password, click next, confirm that the indicator light flashes quickly, click next to wait for the connection, wait for the pop-up of Add successfully, then the network configuration is successful.

Automatic connection: After the available equipment is found, the alarm receiver icon appears, click Go to add, click Bluetooth device +, fill in the working Wi-Fi and password, click confirm to wait for the connection, wait for the pop-up of Add successfully, then the network is successfully configured, and the receiver's red indicator light goes off.

3. App Control

HS02LW can receive alarm information through the mobile phone App and control the receiver function.

Note: The same alarm notification will be sent one minute apart.

On the home page of the App, click on the multifunction receiver to enter the main operation page.

a. Main page

Power Supply Mode Display: USB is displayed in the circular box at the top of the interface when the adapter powers the receiver. When batteries power the receiver, the circular box displays the percentage value of the power; when the battery power is less than 20%, the percentage number will turn red, and the receiver will report BASE POWER LOW zone alarm.

Base Volume Level: the volume can be set through the volume bar; there are 5 levels in total, when the level is 0 the receiver would be muted.

Alarm Zone Display: You can view the alarm indications in it press. If a zone alarms, the alarm indication will change from the Alarm to Alarm. Clicking the alarm indication will enter the history record interface to view the details and the history of the alarm. After exiting, the alarm indication changes to normal.

b. History Record

1) Alarm Records: Record the date, time, and alarm area of the alarm information.

2) Settings Records: Record the operation of the App controlling the receiver.

3) Other Records: Record the power supply mode of the receiver.

c. Zone alarm settings

1) **All Disarmed:** After clicking, the four blue indicator lights will turn off, all areas will be disarmed, and the receiver will not alarm.

2) **All Armed:** After clicking, the four blue indicator lights are on, all areas are in arming state, and all areas of the receiver can normally alarm.

3) **Defense Zone:** A defense zone can be armed and disarmed through the switch button. After arming, the blue indicator light in this area is on. The defense area can normally alarm. After disarming, the blue indicator light in this area will go out; this zone will not alarm.

4. Settings

1) **Add Zone Voice:** You can add channel voice before the alarm chime to let you easily know which zone triggered.

2) **Zone Chime:** The alarm chime of a certain defense zone can be changed, and there are 17 chimes to choose from.

3) **Add A Sub-Device:** The number in the front is the number of paired sensor, a total of 16 sensors can be paired.

4) **Deleting All Sub-Devices:** After clicking, a confirmation interface will pop up, and all paired sensors will be cleared after confirmation.

5) **Reset:** Click to pop up a confirmation interface, after confirmation, all paired sensors will be cleared, and the distribution network will also be cleared.

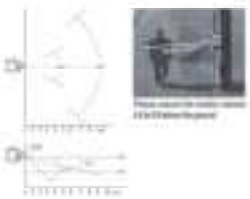
5. Remove the device

If you want to remove the device from the mobile App, you can click the edit icon in the upper right corner of the homepage or the upper right corner of the settings page, click the Disconnect and wipe data or Disconnect only.

Product Installation

1. P.I.R. Motion Sensor Installation

a. Mount the waterproof P.I.R. motion sensor vertically on a solid surface 4.5-6 feet (1.3-2m) above the ground and make sure the detected object is within 30 feet when the sensitivity is set to High. Please refer to below for the installation height and detection angle.



b. Rotate sensor to access screw holes.

c. To prevent or reduce the false alarms (go off), the sensor can adjust the angle as needed. Position the sensor to avoid direct sunlight to the sensor eyes while keeping the solar panel facing up.

Note: Pairing and testing are required before installation, and ensure that the sensor is fully charged.

Technical parameters

Power Input: DC 5V

Battery Power Supply: 6V 4pcs AA Battery

Wi-Fi Working Frequency: 2412-2484MHz

Wi-Fi Maximum Power: 16dBm(EIRP)

Wi-Fi Band: Only support 2.4G

Wi-Fi Network Support: IEEE 802.11b/g/n Open WEP, WPA, WPA2 Encryption

RF433 Wireless Transmission Working Frequency: 433.92MHZ

RF433 transmission distance: 1/2mile(open area)

Normal working temperature: -20—60°C

Troubleshooting

+ The PIR Motion Sensor operates, but the base station does not respond.
Check the sensor switch settings and make sure the sensor and base station in the valid range.

+ PIR Motion Sensor is detecting motion only part of the time.
Set the PIR Sensor Switch to High sensitivity setting. To detect vehicles, The PIR sensor detects the movements with least sensitive. Please adjust the sensor eye with horizontal angle to the engine of the car. Swivel the sensor to obtain the best line of sight to a vehicle.

+ The system is giving false alarms.
Check for moving tree branches or insects in the sensor window and remove as necessary. Check the Sensor Switches on the PIR Motion Sensor. Ensure that sunlight is not shining directly into the sensor eye.

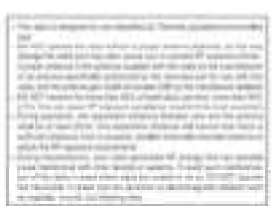
+ The system is not getting expected transmission range.
Ensure that the PIR Motion Sensors are vertically aligned, not attached to the far side of a line, and away from metal objects. Ensure that the Base Station has the clearest possible line of site to the sensors. The fewer objects between the devices, the longer the range.

+ The Solar Panel stop working.
Please clean the dust from the solar panel after using for a period of time.

+ How to prevent the sensor get the water inside.
Please tighten the black rubber cover seal at the bottom of the sensor.

+ If the sensor continuously goes off.
Please cover the sensor to confirm if it still goes off or gets false alarm, if so, Your receiver may get the interference with other sensors. Please contact our service support, we will do our best to make it right for you.

FCC Statement



Thank you for purchasing this eMacros product. This user manual will help you to familiarize yourself with all the features of your newly purchased product.

If you have any queries, don't hesitate to contact our support team at:

Macros.service@outlook.com