

eMACROS HS002-1T1

eMACROS 1/2 Mile Long Range Solar Wireless Driveway Alarm

USER MANUAL

Introduction

The eMACROS 1/2 Mile Long Range Solar Wireless Driveway Alarm system is designed to provide security and awareness by detecting motion from humans, vehicles, and large animals within its detection zone. This system is ideal for monitoring driveways, property perimeters, and other outdoor areas. The solar-powered sensor ensures reliable operation without frequent battery changes, while the wireless receiver provides instant alerts.

Package Contents

Your eMACROS Driveway Alarm package typically includes the following components:

- 1 x Wireless Receiver
- 1 x Solar-Powered Motion Sensor
- 1 x USB Data Cable (for receiver power, adapter not included)
- Mounting Hardware (screws, anchors)



Image: The eMACROS solar-powered motion sensor, the wireless receiver, and the product packaging, illustrating the main components of the system.

Setup and Installation

Follow these steps to set up your eMACROS Driveway Alarm system:

1. Sensor Placement and Mounting

Choose a location for the motion sensor that provides a clear line of sight to the area you wish to monitor. Ensure the solar panel receives adequate sunlight for continuous charging. The sensor is weather-resistant and designed for outdoor use.

- Mount the sensor securely using the provided hardware. The swivel mount allows for adjustment of the detection angle.
- For optimal performance, position the sensor to detect motion across its field of view rather than directly towards it.

No need to replace batteries Unit charges even on cloudy or rainy days.

We recommend using our original cable. Using cables of other brands or models may cause damage to the device. The sensor can be used directly after receiving it without charging.



Solar Powered

Rechargeable

Image: A solar-powered motion sensor mounted on a wooden post, positioned to monitor a driveway, demonstrating typical outdoor installation.

COMPARE WITH SIMILAR ITEMS

HS002C solar driveway alarm



Power

✓ Solar-powered

Battery

✓ Internally equipped with a rechargeable battery

Sensor

✓ German Heiman sensor, reduced false alarm rate by 80%

Others



✗ Battery-powered

✗ Batteries not included, requires 3pcs AA batteries

✗ Unknown

Image: The solar sensor mounted on a tree, highlighting its solar charging capability and outdoor placement flexibility.

2. Receiver Power and Placement

The receiver requires a 5V 1A adapter for power (not included). Connect the provided USB data cable to the receiver and a compatible USB power adapter. Place the receiver in a central location within your home or office where you can easily hear the alerts.

3. Pairing Sensors (if needed)

The sensor and receiver are typically pre-paired from the factory. If you are adding additional sensors (up to 4 sensors per receiver) or need to re-pair a sensor, follow these steps:

1. Ensure the additional motion detector is switched off.
2. On the receiver, press and hold the pairing button (refer to your receiver's specific button layout) until all indicator lights begin to flash.
3. While the receiver lights are flashing, select the desired channel on the receiver for the new sensor.
4. Activate the motion sensor (e.g., by moving in front of it or turning it on). The receiver should confirm successful pairing with a chime or light indication.

Operating Instructions

1. Motion Detection and Alerts

Once installed and powered, the system will detect motion within the sensor's range and transmit a signal to the receiver. The receiver will then sound an alert using one of its 4 unique chimes. You can assign different chimes to different sensors to identify the location of the detected activity.

1500FT Wireless Transmission Range

2 Adjustable Detection Distance: 20ft/30ft.



Image: Examples of the eMACROS sensor detecting various movements, including a delivery person, a car entering a driveway, and a large animal in a wooded area, demonstrating its versatile detection capabilities.

2. Adjusting Sensor Sensitivity

The sensor features an adjustable sensitivity switch to minimize false alarms. This switch is typically located on the sensor unit:

- **Hi (High Sensitivity):** Detects motion up to approximately 30 feet.
- **Low (Low Sensitivity):** Detects motion up to approximately 20 feet.

Adjust the sensitivity based on your environment to prevent triggers from small animals or swaying branches.



Image: A visual representation of the 1500ft wireless transmission range and the sensor's 30ft detection distance, illustrating the system's coverage.

Maintenance

To ensure the longevity and optimal performance of your eMACROS Driveway Alarm:

- **Solar Panel Cleaning:** Periodically clean the solar panel on the sensor with a soft, damp cloth to remove dirt, dust, or debris that may obstruct sunlight and reduce charging efficiency.
- **Sensor Battery:** The sensor's internal battery is charged by the solar panel, eliminating the need for manual battery replacement under normal operating conditions.
- **Weather Resistance:** The sensor features a waterproof ABS housing and sealing ring (IP65 rated) to ensure normal operation in various weather conditions, including rain and shine.



Image: The eMACROS sensor shown wet from rain, emphasizing its weather-resistant design and ability to function in various outdoor conditions.

Troubleshooting

If you encounter issues with your eMACROS Driveway Alarm, refer to the following common problems and solutions:

- **False Alarms:**

Adjust the sensor's sensitivity switch to "Low" (20ft). Ensure there are no swaying branches, tall grass, or small

animals directly in the sensor's detection path. Reposition the sensor if necessary to avoid these triggers.

- **No Detection/Sensor Not Triggering:**

Check if the sensor's solar panel is clean and receiving adequate sunlight. Verify the sensor is powered on. Ensure the sensor and receiver are within the 1500ft wireless range and that there are no significant obstructions (e.g., thick walls, dense foliage) between them. Re-pair the sensor with the receiver if necessary (refer to "Pairing Sensors" section).

- **Receiver Low Battery Alert:**

The receiver is powered by an external 5V 1A adapter via the USB data cable. Ensure the receiver is properly connected to a working power source. If using a portable power bank, ensure it is charged.

- **Difficulty Pairing New Sensors:**

Ensure you are following the pairing instructions precisely. The additional sensor must be off before initiating the pairing sequence on the receiver. Once the receiver's lights are flashing, activate the sensor to complete the pairing process on the selected channel.

Specifications

Brand	eMACROS
Model Number	HS002-1T1
Power Source	Solar, Battery Powered (Receiver: External Adapter, Sensor: Solar-charged internal battery)
Maximum Wireless Range	1500 Feet (approx. 457 meters)
Sensor Detection Range	Adjustable: 20 feet (Low) / 30 feet (High)
Frequency	433 MHz
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Waterproof Rating	IP65 (Sensor)
Product Dimensions (Sensor)	5.71"D x 5.31"W x 4.96"H
Item Weight	14.88 ounces
Included Components	1 receiver and 1 sensor (standard package)

Warranty and Support

eMACROS products are designed for reliability and performance. For any questions, technical assistance, or warranty claims, please contact eMACROS customer support. You may also refer to the official Installation Manual (PDF) available online for additional guidance.

For further assistance, please visit the official eMACROS store or contact their customer service directly. Contact information can typically be found on the product packaging or the brand's official website.

