eMACROS BT274

eMACROS Solar Wireless Driveway Alarm Instruction Manual

Model: BT274 | Brand: eMACROS

1. Product Overview

The eMACROS Solar Wireless Driveway Alarm System provides a reliable and expandable solution for monitoring your property. This system features a solar-powered motion sensor and a receiver, designed to alert you to movement within its detection range. It is built for outdoor use with weatherproof capabilities and offers a long wireless range.

Image: The eMACROS solar-powered motion sensor, designed for outdoor use.

Key Features:

- **1/2 Mile Long Receiving Range:** Under ideal conditions, the system can achieve a wireless range of up to 1/2 mile.
- **Solar Powered Sensor:** Eliminates the need for frequent battery replacement, utilizing a built-in rechargeable Lithium-Ion battery.
- **Weatherproof Design (IP66):** The outdoor motion sensor is fully enclosed and designed to withstand various weather conditions, with a working temperature range from -20°C to 60°C.
- **Expandable System:** A single receiver can be paired with up to 7 sensors for comprehensive property coverage.
- **7 Selectable Chimes:** Choose from 7 unique alert sounds to differentiate between sensors and detection locations.
- **Easy Installation:** Designed for quick and straightforward setup.

2. Setup and Installation

Follow these steps for optimal setup and performance of your eMACROS Driveway Alarm System.

2.1 Unboxing and Initial Charge

1. Carefully unpack all components: the solar motion sensor, the receiver, and mounting hardware.
2. Before first use, ensure the solar sensor is exposed to direct sunlight for at least 6-8 hours to fully charge its internal battery. The receiver should be plugged into a standard wall outlet.

2.2 Sensor Placement

Strategic placement of the sensor is crucial for effective detection and to minimize false alarms.

- Mount the sensor on a stable surface such as a wall, fence post, or tree. Ensure it has a clear line of sight to the area you wish to monitor.
- Position the sensor approximately 3-4 feet (0.9-1.2 meters) above the ground. This height helps in detecting vehicles and people while reducing triggers from small animals.
- Aim the sensor to detect cross-traffic rather than direct approach. Motion across the sensor's field of view is more reliably detected than motion directly towards it.
- Ensure the solar panel on top of the sensor receives adequate sunlight throughout the day for continuous charging.

Image: Proper sensor placement for detecting vehicles in a driveway.

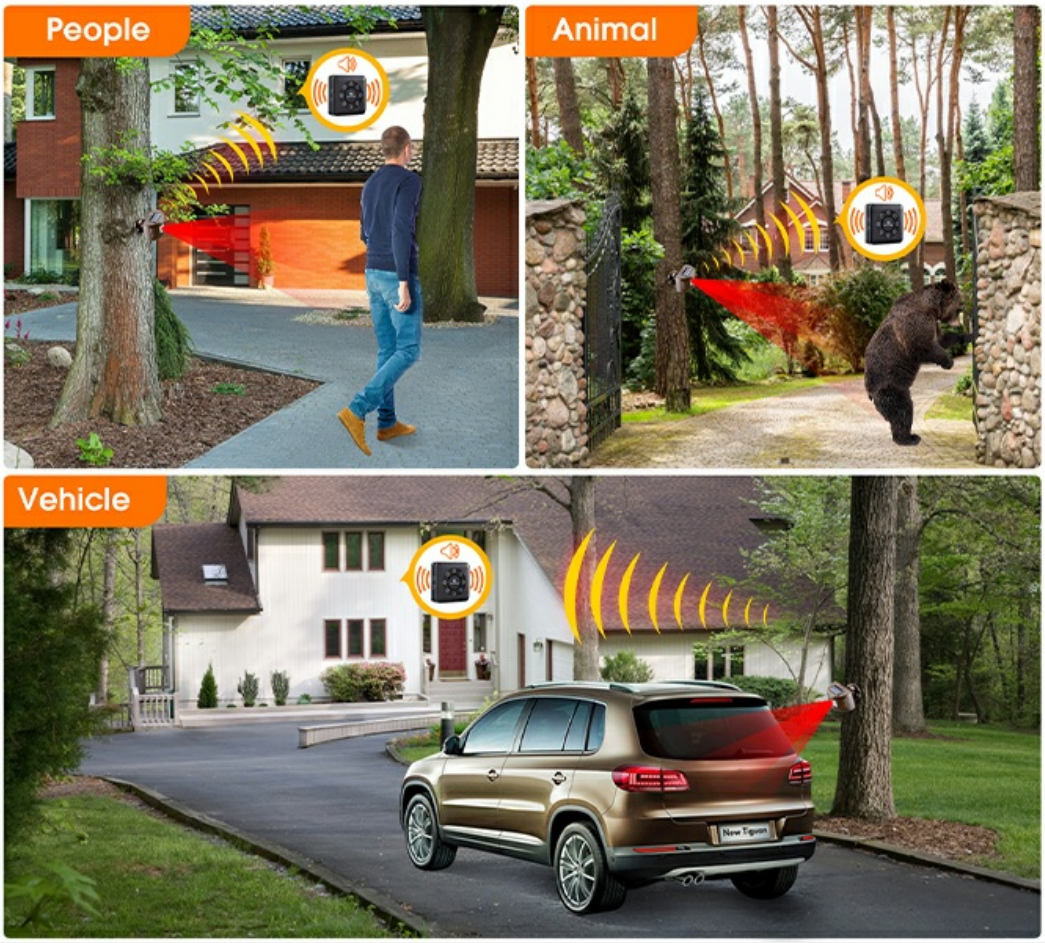


Image: The sensor offers 360 degrees of adjustment for precise aiming.

2.3 Pairing Sensors with Receiver

The system allows pairing multiple sensors to one receiver, each with a distinct chime.

1. Plug in the receiver to a power outlet.
2. On the receiver, select the desired channel (1-7) for the sensor you are pairing.
3. Trigger the motion sensor by waving your hand in front of it or walking past it. The receiver should sound the selected chime, indicating successful pairing.
4. Repeat for additional sensors, assigning each to a different channel for easy identification of the detection zone.

Image: An illustration of how multiple sensors can be strategically placed around a property for comprehensive coverage.

3. Operating Instructions

Once installed and paired, the eMACROS Driveway Alarm operates automatically.

3.1 Motion Detection

The passive infrared (PIR) sensor detects heat signatures and movement within its detection zone. When motion is detected, the sensor sends a wireless signal to the receiver.

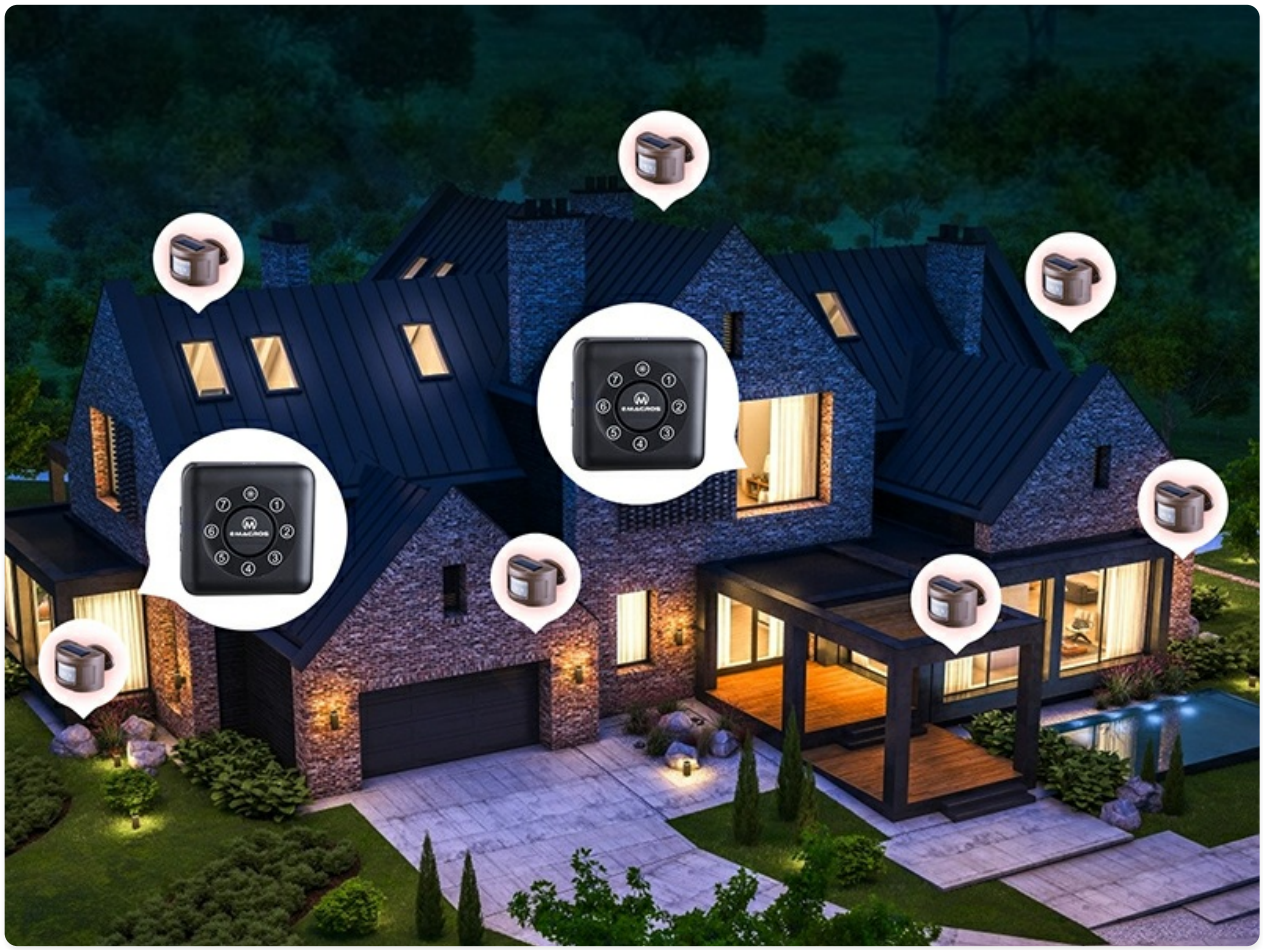


Image: The sensor is capable of detecting various types of motion, including people, animals, and vehicles.

3.2 Receiver Alerts

Upon receiving a signal, the receiver will:

- Sound the pre-selected chime for the corresponding sensor channel.
- Illuminate the indicator light for the activated channel.

This allows you to quickly identify which sensor has been triggered and from which area of your property the motion originated.

3.3 Adjusting Chimes and Volume

Refer to your receiver's specific controls to:

- Cycle through the 7 available chimes.
- Adjust the volume level of the alerts.

4. Maintenance

The eMACROS Driveway Alarm System is designed for low maintenance.

4.1 Solar Panel Care

- Periodically clean the solar panel on top of the sensor with a soft, damp cloth to ensure maximum sunlight absorption.
- Ensure no debris, leaves, or snow obstructs the solar panel.

4.2 Weather Resistance

The sensor is rated IP66 weatherproof, meaning it is protected against dust and powerful water jets. While designed to withstand various weather conditions, extreme prolonged exposure to heavy rain or snow may temporarily affect performance. Ensure the sensor is securely mounted to prevent dislodgement during strong winds.

Image: The sensor's robust, weatherproof construction ensures durability in outdoor environments.

4.3 Battery

The sensor uses a solar-rechargeable Lithium-Ion battery. Under normal conditions with adequate sunlight, the battery should maintain its charge without manual intervention. If the sensor is placed in a consistently shaded area, its performance may be affected over time.

5. Troubleshooting

If you encounter issues with your eMACROS Driveway Alarm, try the following solutions:

5.1 No Detection or False Alarms

- **Check Sensor Placement:** Ensure the sensor is aimed correctly to detect motion across its field of view, not directly towards it. Adjust the angle using its 360-degree adjustment feature.
- **Clear Obstructions:** Verify that there are no trees, bushes, or other objects that might block the sensor's view or cause false triggers (e.g., swaying branches in strong wind).
- **Sunlight Exposure:** Confirm the solar panel receives sufficient direct sunlight. A low battery can affect detection reliability.
- **Interference:** While designed to minimize interference, strong radio signals or other wireless devices nearby could potentially affect performance. Try relocating the receiver or sensor.

5.2 Limited Wireless Range

- The advertised range of 1/2 mile is under ideal conditions (line of sight, no interference). Real-world range can be significantly reduced by obstacles such as thick forestry, walls, and other structures.
- The reliable detection range is typically up to 30 feet, especially in environments with obstructions.
- **Relocate Receiver/Sensor:** Try moving the receiver closer to the sensor, or repositioning the sensor to have a clearer path to the receiver.
- **Check Battery:** Ensure the sensor's battery is adequately charged.

5.3 Pairing Issues

- **Reset Pairing:** Consult your receiver's manual for specific instructions on how to clear existing pairings or reset the receiver.

- **Re-attempt Pairing:** Follow the pairing steps in Section 2.3 carefully, ensuring the sensor is triggered while the receiver is in pairing mode for the desired channel.
- **Proximity:** Perform the pairing process with the sensor and receiver in close proximity (within a few feet) to ensure a strong signal during pairing.

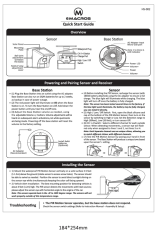
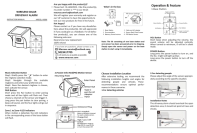
6. Specifications

Feature	Detail
Brand	eMACROS
Model Number	BT274
Power Source	Solar Powered
Battery Type	Lithium-Ion (1 included)
Maximum Wireless Range	1/2 Mile (under ideal conditions)
Reliable Detection Range	Up to 30 Feet
Mounting Type	Wall Mount
Weather Resistance	IP66 (Waterproof)
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Item Weight	5.6 ounces
Package Dimensions	4.49 x 4.06 x 2.44 inches
UPC	791107957594

7. Warranty and Support

eMACROS products are designed for durability and reliability. For any questions, technical assistance, or warranty inquiries, please contact eMACROS customer support through their official channels or the retailer where the product was purchased.
Please retain your proof of purchase for warranty purposes.

Related Documents - BT274

	[eMACROS Driveway Alarm System: Setup and Installation Guide] A comprehensive guide to setting up and installing the eMACROS Long Range Solar Wireless Driveway Alarm system, including powering and pairing the sensor and receiver, and troubleshooting common issues.
	[eMACROS HS-003 Wireless Motion Sensor and Driveway Alarm User's Guide] Comprehensive user guide for the eMACROS HS-003 wireless motion sensor and driveway alarm system. Learn about installation, operation, features, and troubleshooting for enhanced home security.
	[eMACROS Wireless Solar Driveway Alarm HS006 Instruction Manual] Detailed instruction manual for the eMACROS Wireless Solar Driveway Alarm, Model HS006. Covers setup, operation, features, installation, troubleshooting, and FCC compliance for this solar-powered motion detection system.
	[eMACROS MC-007 Indoor/Outdoor Smart Security Camera Video Driveway Alarm User's Guide] User's guide for the eMACROS MC-007 Smart Security Camera Video Driveway Alarm. This guide covers setup, connection, app operation, features, and troubleshooting for the indoor/outdoor security camera.
	[eMACROS MC-919 Wireless Portable Speakerphone User Guide] User guide for the eMACROS MC-919 Wireless Portable Speakerphone, covering Bluetooth connectivity, True Wireless Stereo (TWS) pairing, call handling, charging, battery status, voice guidance, factory reset, troubleshooting, specifications, and FCC statement.