eMACROS US-MC004-1 receiver and 2 sensors

eMACROS 1/2 Mile Long Range Wireless Driveway Alarm Instruction Manual

Model: US-MC004-1 receiver and 2 sensors

Introduction

Thank you for choosing the eMACROS 1/2 Mile Long Range Wireless Driveway Alarm. This system is designed to provide reliable security alerts for your property, detecting motion over long distances and in various outdoor conditions. This manual will guide you through the setup, operation, maintenance, and troubleshooting of your new security system.

Setup

Package Contents

- 1 x Receiver Unit
- 2 x Motion Sensors
- 1 x USB Power Cord (for receiver)

Battery Installation (Sensors)

The motion sensors are battery-powered. Each sensor requires 4 AA 1.5V alkaline batteries (not included). To install the batteries:

1. Locate the battery compartment on the back of the sensor unit.
2. Open the battery cover.
3. Insert 4 AA 1.5V alkaline batteries, ensuring correct polarity (+/-).
4. Securely close the battery cover.



Figure 1: Battery installation for the motion sensor. Ensure 4 AA 1.5V alkaline batteries are used.



Figure 2: Step-by-step guide for sensor setup, including battery insertion and mounting.

Receiver Power Connection

Connect the provided USB power cord to the receiver unit and plug it into a standard wall outlet. The receiver is designed for indoor use.

Sensor Placement and Mounting

The sensors are weather-resistant and can be fixed to various outdoor locations such as walls, fences, or trees. Consider the following for optimal placement:

- **Line of Sight:** For best range, ensure a clear line of sight between the sensor and the receiver.
- **Detection Area:** Position the sensor to cover the desired detection area, such as a driveway or entryway.
- **Height:** Mount the sensor at a height that allows for effective motion detection while minimizing false alarms from small animals.

The units are pre-paired before shipping, simplifying the setup process.

Operating Instructions

Wireless Range

The eMACROS driveway alarm boasts a super long receiving range of up to 1/2 mile (in ideal conditions). This range has been verified through real-world testing in various environments, including areas with trees, buildings, walls, and vehicles, ensuring reliable monitoring of your property.



Figure 3: Illustration of the 1/2 mile wireless range between the sensor and receiver.

Motion Detection

The motion sensor features a wide detection range, adjustable to minimize false alarms. You can customize the sensitivity settings:

- **High Sensitivity:** Up to 30ft detection range.
- **Low Sensitivity:** Up to 15ft detection range.

Adjusting the sensitivity helps reduce alerts caused by small animals, wind, sunlight, or other environmental factors.



Figure 4: Visual representation of the 30ft motion detection range.

Expandable System

The eMACROS wireless driveway alarm system is fully expandable. You can add up to 4 sensors and an unlimited number of receivers to achieve comprehensive coverage across your home and property. The receiver offers 4 unique chimes, allowing you to assign different chimes to different sensors for easy identification of the alert location.



Figure 5: The system can be expanded with additional sensors and receivers for wider coverage.

Applications

The eMACROS driveway alarm system is versatile and can be used in various scenarios to enhance security and awareness:

- **Driveway Monitoring:** Detects vehicles or people entering your driveway.
- **Doorway/Entryway Alerts:** Notifies you of activity near entrances.
- **Property Perimeter:** Monitors remote areas of your property for unexpected movement.
- **Wildlife Detection:** Can alert you to the presence of animals.



Figure 6: Examples of various applications for the eMACROS driveway alarm, including monitoring doorways, vehicles, animals, and potential intruders.

Maintenance

Weather Resistance

The eMACROS motion sensors are designed to be outdoor weather-resistant with an IP65 rating, capable of withstanding harsh weather conditions, including temperatures from -20°C to 60°C (-4°F to 140°F). This ensures reliable operation year-round.



Figure 7: The sensor's IP65 rating ensures durability in various weather conditions.

Battery Replacement

When the sensor batteries are low, the receiver will indicate a low battery alert. Replace the 4 AA 1.5V alkaline batteries in the affected sensor promptly to ensure continuous operation.

Troubleshooting

False Alarms

If you experience frequent false alarms, consider the following:

- **Adjust Sensitivity:** Lower the sensitivity setting of the sensor from 30ft to 15ft.
- **Reposition Sensor:** Ensure the sensor is not directly facing sunlight, heat sources, or areas with dense foliage that might sway in the wind. Mounting it higher can also help avoid small animals.

No Connection Between Units

If a sensor is not connecting to the receiver:

- **Check Batteries:** Ensure the sensor has fresh batteries and they are installed correctly.
- **Power Cycle:** Turn off and on both the receiver and the sensor.
- **Range:** Verify that the sensor is within the effective range of the receiver, considering any obstructions.
- **Compatibility:** Note that different generations or models of eMACROS systems may not be cross-compatible for pairing. Ensure all components are from the same system or explicitly stated as compatible.

Specifications

Feature	Specification
Brand	eMACROS
Model Number	US-MC004-1 receiver and 2 sensors
Power Source (Sensor)	4 AA 1.5V Alkaline Batteries (not included)
Power Source (Receiver)	5 Volts (via USB power cord)

Maximum Wireless Range	2640 Feet (1/2 Mile) in ideal conditions
Motion Detection Range	Adjustable (15ft / 30ft)
Mounting Type	Wall Mount
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Frequency	433 MHz
Product Dimensions	9.33"D x 5.39"W x 5.04"H
Item Weight	1.39 pounds

Warranty and Support

eMACROS is committed to ensuring your satisfaction. If you encounter any issues or require assistance with your product, please contact eMACROS After-Sale Support directly through your order details. Our dedicated team is ready to provide exceptional customer service and support.
For further information or to explore other eMACROS products, please visit theeMACROS Store.

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