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Mengshen MS-AK02

Mengshen Motion Sensor Alarm System User Manual

MODEL: MS-AK02

Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your Mengshen Motion Sensor Alarm System, Model MS-AK02. This system is designed to provide alerts for entryways, driveways, or other monitored areas using a motion sensor, a receiver, and a remote control.

Product Components

The package includes the following items:

- 1 x Receiver
- 1 x Motion Sensor
- 1 x Remote Control
- 1 x User Manual (this document)



Image: Overview of the Mengshen Motion Sensor Alarm System, showing the receiver unit, the separate motion sensor, and the remote control.

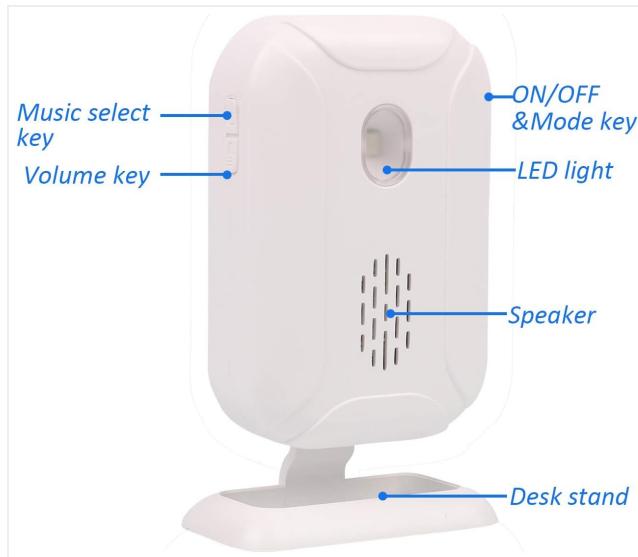


Image: Detailed view of the receiver unit, highlighting its various components such as the music select key, volume key, power mode key, LED light, speaker, and desk stand.



Image: Detailed view of the motion sensor, indicating its indicator light, infrared induction window, USB interface, and ON/OFF switch.

Setup and Battery Installation

Receiver Battery Installation

The receiver can be powered by 3 AA batteries (not included) or a micro USB cable (not included).

1. Locate the battery compartment on the back of the receiver.
2. Insert 3 AA batteries, ensuring correct polarity.
3. Alternatively, connect a micro USB cable to the receiver for power.

Motion Sensor Battery Installation

The motion sensor requires 2 AAA batteries (not included).

1. Open the battery compartment on the motion sensor.
2. Insert 2 AAA batteries, observing correct polarity.
3. Close the battery compartment securely.

Remote Control Battery

The remote control comes with a pre-installed battery. If replacement is needed, refer to the remote control's specific instructions.

Receiver Operating Modes

The receiver offers 5 distinct operating modes, selectable via the "Power/Mode key" on the receiver or the remote control.



Image: Visual representation of the receiver's five modes: Welcome, Doorbell, Alarm, Colorful light, and Night light, indicating how they are activated.

1. **Welcome Mode:** Plays a welcome chime when motion is detected.
2. **Doorbell Mode:** Functions as a doorbell with 36 selectable tunes.
3. **Alarm Mode:** Emits a loud alarm sound upon motion detection.
4. **Colorful Light Mode:** Activates a colorful light display when motion is detected.
5. **Night Light Mode:** Provides a soft night light when motion is detected.

Remote Control Functions

The remote control allows convenient operation of the receiver from a distance of up to 30 meters (98 feet).

- **Left Key (Power/Mode Switch):** Turns the receiver ON/OFF and cycles through operating modes.
- **Right Key (Turn OFF):** Turns the receiver OFF.
- **Select Songs Key:** Changes the tune in Doorbell mode.
- **Volume Key:** Adjusts the receiver's volume.

Pairing Motion Sensor or Remote Control with Receiver

Follow these steps to pair your motion sensor or remote control with the receiver:

1. Ensure batteries are loaded in both the receiver and the sensor/remote.
2. Press and hold the "Power/Mode key" of the receiver for 3 seconds to turn it OFF.

3. Press and hold the "Volume key" for 3 seconds. The receiver will enter learning mode.
4. While the receiver is in learning mode, wave your hand in front of the motion sensor or press any key on the remote control. The indicator light on the motion sensor or remote control will flash once, confirming successful pairing.

Installation Guidelines

Motion Sensor Placement

The motion sensor detects movement within a range of 2-8 meters, with a 100-degree horizontal and 15-degree vertical detection angle. For optimal performance, consider the following:

- Mount the sensor using double-sided tape or screws in a location where it can cover the desired detection area.
- Avoid placing the sensor directly facing sunlight or heat sources, which can cause false alarms.
- Ensure the sensor has a clear line of sight to the area you wish to monitor.
- Metal objects can interfere with the signal and reduce transmission range.



Image: Example of optimal placement for the motion sensor and receiver in a home environment, showing the sensor monitoring an entryway and the receiver placed indoors.



Image: Depiction of the motion sensor's detection capability as a person approaches a door, illustrating how it triggers an alert.



Image: Scenario showing an intruder being detected by the motion sensor, resulting in the receiver activating an alarm, demonstrating the system's security function.

Receiver Placement

Place the receiver in a central location within your home or office to ensure it receives signals from the motion sensor effectively. The wireless working range is up to 120 meters (400 feet) in open air.

Product Specifications

Component	Detail
Receiver Power Supply	3 x AA batteries (not included) or Micro USB (not included)
Motion Sensor Detection Range	2-8 meters

Component	Detail
Motion Sensor Detection Angle	100 degrees (horizontal), 15 degrees (vertical)
Motion Sensor Battery	2 x AAA batteries (not included)
Wireless Transmission Range	Up to 120 meters (400 feet) in open air
Remote Control Distance	Up to 30 meters (98 feet)
Model Number	MS-AK02
Product Dimensions	6.69 x 4.02 x 2.05 inches (approximate)
Item Weight	7 ounces (approximate)

Maintenance

To ensure the longevity and optimal performance of your Mengshen Motion Sensor Alarm System, consider the following maintenance tips:

- Battery Replacement:** Replace batteries in the receiver and motion sensor when performance degrades or the low battery indicator (if present) activates. Use alkaline batteries for best results.
- Cleaning:** Gently wipe the devices with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Environmental Conditions:** Protect the devices from extreme temperatures, direct sunlight, and moisture.

Troubleshooting

Device not powering on:

Ensure batteries are correctly inserted with proper polarity and are not depleted. If using USB power for the receiver, verify the cable and power source are functional.

Motion sensor not detecting:

Check battery levels in the motion sensor. Ensure there are no obstructions in the detection path. Verify the sensor is within the effective range of the receiver and that pairing is successful.

No alert from receiver:

Confirm the receiver is powered on and in the desired operating mode. Check the volume setting. Re-attempt the pairing process if necessary. Ensure the receiver is within range of the motion sensor.

False alarms:

Adjust the motion sensor's placement to avoid direct sunlight, moving foliage, or heat sources that might trigger it. Ensure the detection angle is appropriate for the monitored area.

Reduced transmission range:

Metal structures or thick walls can interfere with wireless signals. Try repositioning the receiver and sensor to minimize obstructions. Ensure batteries are fresh.

Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your

purchase documentation or visit the official Mengshen website. Keep your purchase receipt for warranty claims.