MOES PIR Motion Sensor

MOES PIR Motion Sensor User Manual

Model: PIR Motion Sensor
Brand: MOES

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your MOES PIR Motion Sensor. This device is designed to enhance your smart home security and automation by detecting motion within its detection range and triggering predefined actions.



Image: The MOES PIR Motion Sensor, a compact white device, shown alongside its product packaging, highlighting its ZigBee 3.0 and Tuya compatibility.

Important Note: A Tuya ZigBee Hub is required for the operation of this motion sensor and is sold separately. This sensor is not compatible with HomeKit, SmartThings, or Google Assistant, and does not support 5GHz WiFi networks.

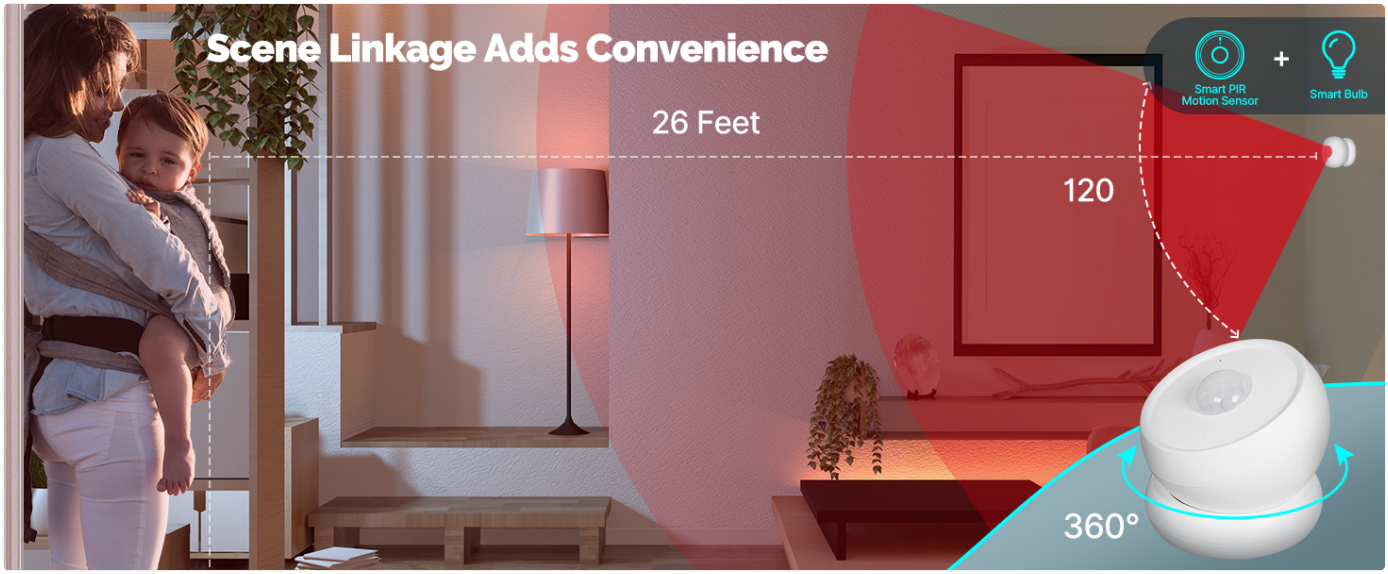


Image: A diagram illustrating the connection flow: the MOES PIR Motion Sensor communicates with a ZigBee Gateway (Hub), which then connects to a WiFi 2.4GHz Router, enabling APP control. A clear note emphasizes that a ZigBee gateway is required.

Setup and Installation

1. Package Contents

- MOES PIR Motion Sensor
- User Manual (this document)
- Mounting accessories (if included, typically adhesive or screws)

Please note that batteries are not included and must be purchased separately. The sensor requires a CR2450 battery.

2. Battery Installation

1. Locate the battery compartment on the sensor.
2. Open the compartment cover.
3. Insert one CR2450 battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

3. Pairing with Tuya ZigBee Hub

Before proceeding, ensure your Tuya ZigBee Hub is powered on and connected to your 2.4GHz WiFi network.

1. Open the Smart Life or MOES App on your smartphone.
2. Add the ZigBee Hub to your app if you haven't already.
3. In the app, select your ZigBee Hub and choose to add a sub-device.
4. Follow the on-screen instructions in the app to put the motion sensor into pairing mode (usually by pressing a reset button on the sensor for a few seconds until an indicator light flashes).
5. Once the sensor is detected and added, you can rename it and assign it to a specific room.

4. Mounting the Sensor

The MOES PIR Motion Sensor features a magnetic design for flexible placement. It can be wall-mounted or placed on a flat surface.



Image: Illustration of the sensor's magnetic base allowing for easy attachment to metallic surfaces and its 360-degree rotatable design for optimal positioning. Examples show it mounted on a refrigerator and a filing cabinet.

- **Wall Mount:** Use the provided adhesive or screws to attach the base to a clean, dry wall surface. Ensure the sensor is positioned to cover the desired detection area.
- **Surface Placement:** The sensor can be placed on a shelf, table, or any flat surface. Its magnetic base allows for easy adjustment of the detection angle.

For optimal performance, position the sensor in a location where it can detect motion across the primary area you wish to monitor, avoiding direct sunlight or heat sources that might cause false triggers.

Operation

Motion Detection

The MOES PIR Motion Sensor utilizes Passive Infrared (PIR) technology to detect changes in infrared radiation caused by the movement of warm bodies. It has a detection distance of up to 26 feet (8 meters) and a detection angle of 120 degrees.

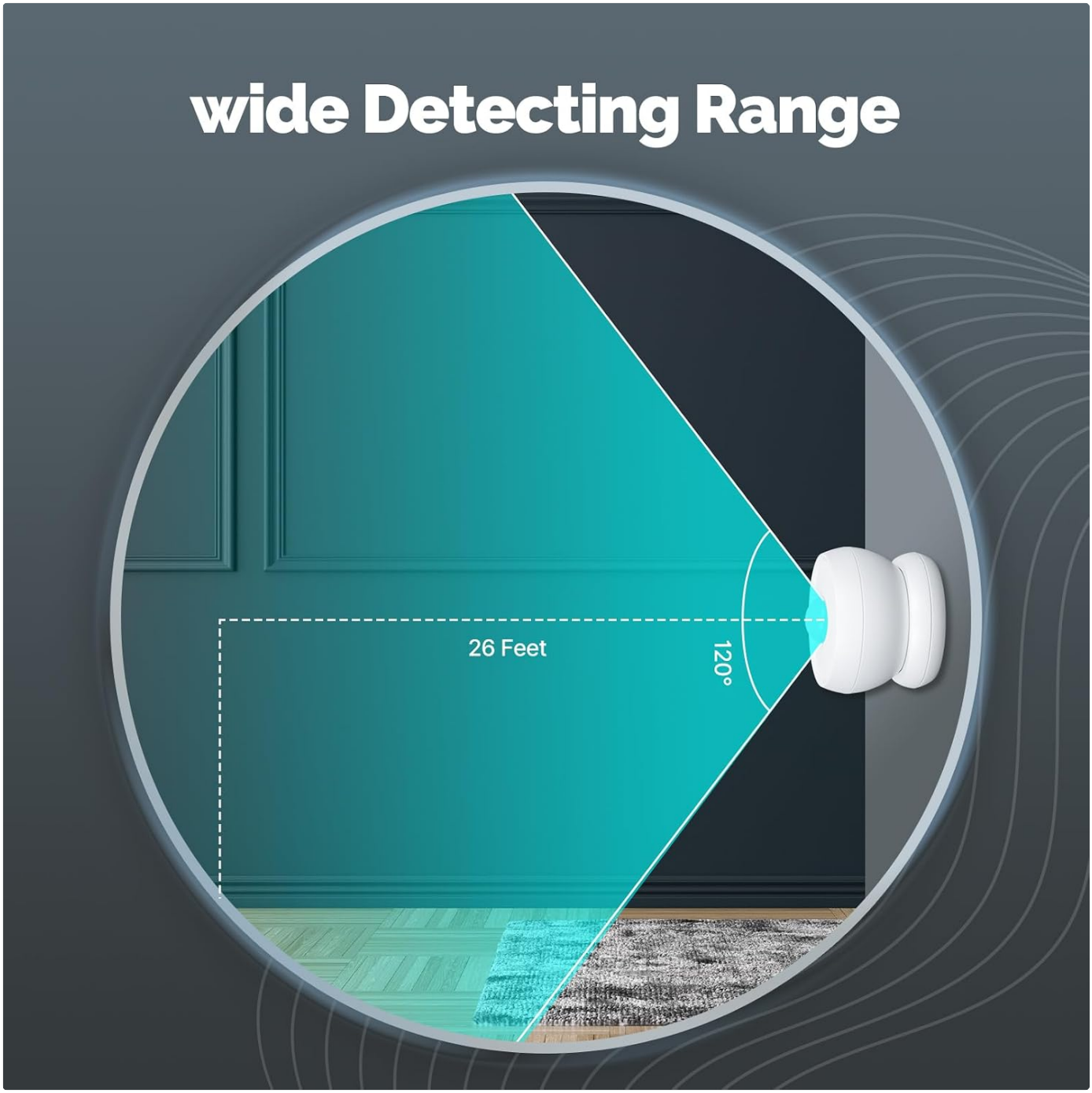


Image: A visual representation of the sensor's wide detection range, illustrating a 120-degree angle and a 26-foot detection distance within a room setting.

Real-time Alerts

When motion is detected, the sensor will send an instant alert notification to your linked Smart Life or MOES App on your smartphone, allowing you to monitor activity in real-time.



Image: A smartphone screen displaying a "Motion Alarm" notification from the MOES app, indicating that motion has been detected by the sensor.

Intelligent Linkage and Smart Scenarios

Leverage the full potential of your MOES PIR Motion Sensor by creating intelligent linkages with other smart devices within the MOES App or Smart Life App. This allows for automated actions based on motion detection.

- **Example:** Configure a scenario where lights automatically turn on when motion is detected in a dark room at night.
- **Example:** Link with a smart alarm system to trigger an alarm upon unauthorized entry.



Image: An infographic demonstrating how the Smart PIR Motion Sensor can be combined with a ZigBee Gateway (Hub), Smart Curtains, Smart Alarm, Smart Camera, and Smart Bulb to customize various smart home scenarios.

Activity History Records

The app allows you to track and review the history of sensor activities, providing a log of detected motions with timestamps.

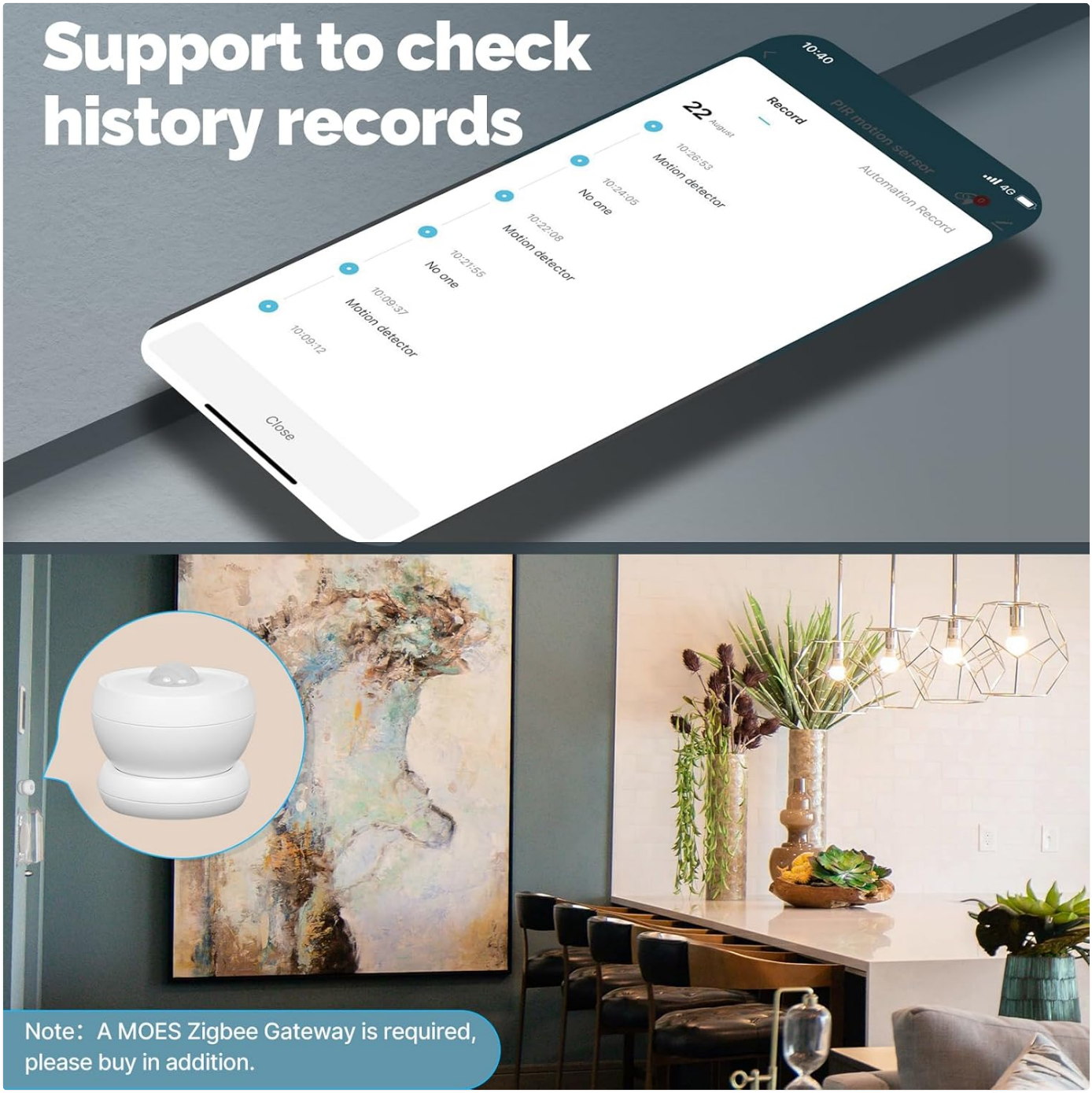


Image: A smartphone screen showing the "Record" section of the app, listing historical motion detection events with dates and times.

Voice Control

The MOES PIR Motion Sensor is compatible with Alexa through the Smart Life/Tuya App, enabling hands-free control and integration into your voice-controlled smart home ecosystem.



Image: A circular graphic showcasing various common indoor applications for the motion sensor, including doorways, bedside areas, corridors, stairs, and beside windows.

Maintenance

Cleaning

To ensure optimal performance, periodically clean the sensor lens and body. Use a soft, dry cloth. Do not use abrasive cleaners or solvents, as these can damage the device.

Battery Replacement

The sensor will indicate a low battery status in the app. When this occurs, replace the CR2450 battery following the battery installation steps outlined in the Setup section.
Note: Dispose of used batteries responsibly according to local regulations.

Environmental Considerations

This sensor is designed for indoor use only. Avoid exposing it to direct sunlight, high humidity, extreme temperatures, or

strong vibrations, as these conditions can affect its performance and lifespan.

Troubleshooting

Problem	Possible Cause	Solution
Sensor not detecting motion.	• Low battery. • Incorrect placement/blocked view. • Not properly paired with ZigBee Hub.	• Replace battery (CR2450). • Adjust sensor position to ensure clear line of sight within the detection area. • Re-pair the sensor with the ZigBee Hub following the setup instructions.
False alarms or frequent triggers.	• Sensor exposed to direct sunlight, heat sources (HVAC vents), or strong air currents. • Pets or small objects moving within the detection zone.	• Relocate the sensor away from heat sources, direct sunlight, or drafts. • Adjust the sensor's angle or height to avoid detecting pets or irrelevant movements.
Sensor offline in app.	• ZigBee Hub is offline or disconnected. • Sensor battery is dead. • Sensor is too far from the ZigBee Hub.	• Check the ZigBee Hub's power and network connection. • Replace the sensor battery. • Move the sensor closer to the ZigBee Hub or consider adding a ZigBee repeater.
Cannot connect to 5GHz WiFi.	Sensor does not support 5GHz WiFi.	Ensure your ZigBee Hub is connected to a 2.4GHz WiFi network. Most routers support both frequencies.

Specifications

Feature	Detail
Product Name	PIR Motion Sensor
Product Size	52mm x 48mm (approx. 2.05 x 1.89 inches)
Input Voltage	3V
Battery Specifications	CR2450 (replaceable)
Communication Method	ZigBee
Module Model	ZTU Module
Max RF Power	+10dBm
Operating Frequency	2.405-2.480GHz
ZigBee Standard	IEEE 802.15.4
Data Transmission Rate	250Kbps

Feature	Detail
Antenna Type	PCB antenna, antenna gain 1.05dBi
Indicator Light Programmed	Single Lamp White
Operating Temperature	-10°C to +50°C
Low Battery Warning	Yes
Scope of The Survey (Detection Distance)	8m (26 feet)
Probing Angle (Detection Angle)	120°

Note: Specifications are subject to change without prior notice.

Warranty Information

MOES products are designed and manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official MOES website. Keep your purchase receipt as proof of purchase for any warranty claims.

Customer Support

If you encounter any issues or have questions regarding your MOES PIR Motion Sensor, please contact MOES customer support. You can typically find contact information on the product packaging, the official MOES website, or within the Smart Life/MOES App.
For the latest FAQs and troubleshooting tips, please visit the MOES official website or the support section of the Smart Life/MOES App.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question