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### Haozee ZG-PIR

# Haozee Zigbee Smart PIR Motion Sensor with Illuminance Value User Manual

Model: ZG-PIR

## PRODUCT OVERVIEW

The Haozee Zigbee Smart PIR Motion Sensor is a versatile 2-in-1 device designed for home security and automation. It accurately detects the presence of moving objects and measures ambient light levels, enabling intelligent scene creation and real-time alerts.





Figure 1: Haozee Zigbee Smart PIR Motion Sensor

This sensor requires a Zigbee hub for operation, acting as a central bridge for seamless integration with other Zigbee smart devices. It offers high sensitivity for real-time detection and sends immediate notifications to your mobile phone upon detecting movement.

## KEY FEATURES

- **PIR + Lux 2-in-1 Functionality:** Detects both motion and ambient illumination values.
- **Zigbee Hub Required:** Connects to a Zigbee hub for stable signal and integration with other smart devices. Supports Home Assistant and Zigbee2MQTT.
- **High Sensitivity & Real-time Detection:** Accurately detects people and animals, sending instant mobile notifications.
- **Battery Powered:** Easy to install and portable, suitable for various locations including living rooms, entrances, and damp areas.
- **Multifunctionality:** View historical detection records and create smart scenes, such as automatic light activation.

# Home Assistant Unterstützung

Es unterstützt Home Assistant zigbee2mqtt



Works With  
Zigbee 2mqtt



Works With  
Home Assistant



Figure 2: Compatibility with Home Assistant and Zigbee2MQTT

## PACKAGE CONTENTS

Please verify that all items are present in your package:

- Haozee Smart Motion Sensor (Model: ZG-PIR)
- Adhesive Pad for mounting
- Quick Start Guide (English)

**Note:** 2x AAA batteries are required for operation and are not included in the package.

# Batterie wiederholt

Batteriebetrieben, einfacher zu installieren.



**Hinweis: Batterie nicht enthalten.**

Figure 3: Battery compartment and note on battery exclusion

## SETUP

1. **Install Batteries:** Open the sensor casing (usually by sliding the top part upwards) and insert 2x AAA batteries (not included) into the battery compartment. Ensure correct polarity.
2. **Pairing Mode:** Press and hold the small button on the sensor for approximately 3 seconds until the red LED blinks, indicating it is in pairing mode.
3. **Connect to Zigbee Hub:** On your Zigbee hub's application or interface (e.g., Home Assistant, Zigbee2MQTT), initiate the device pairing process. The sensor should be discovered and connected automatically.
4. **Mounting:** Choose a suitable location for the sensor. It can be mounted using the provided adhesive pad or screws (not included). Consider the 105° wide-angle detection range. Avoid placing it near large airflow sources or areas with constant large movements to prevent false alarms.



Figure 4: Easy Installation and Mounting Options

## OPERATING INSTRUCTIONS

### Motion Detection

Once paired with your Zigbee hub, the sensor will begin detecting motion within its 105° wide-angle detection range. Upon detection, it will send a signal to your hub, triggering any configured automations or notifications.



Figure 5: 105° Wide-Angle Detection

### Illuminance Value Detection

The sensor also measures ambient light levels. This data can be used by your smart home system to create advanced automations, such as turning on lights only when motion is detected AND the room's brightness falls below a certain threshold.



Figure 6: Built-in Light Sensor for Smart Lighting

## Smart Scene Integration

Utilize your Zigbee hub's capabilities to integrate the motion sensor into various smart scenes:

- **Security Alerts:** Receive instant notifications on your mobile phone when motion is detected in a specific area.
- **Automated Lighting:** Turn lights on/off based on motion and/or ambient light.
- **Energy Saving:** Automate devices to turn off when no motion is detected for a period.
- **Historical Records:** Access detection logs through your smart home application.

## MAINTENANCE

### Battery Replacement

When the battery level is low, your Zigbee hub application may notify you. To replace the batteries:

1. Carefully remove the sensor from its mounting location.
2. Open the sensor casing to access the battery compartment.
3. Remove the old 2x AAA batteries and insert new ones, ensuring correct polarity.
4. Close the casing and re-mount the sensor.

### Cleaning

To ensure optimal performance, periodically clean the sensor's lens and body. Use a soft, dry cloth. Do not use abrasive cleaners or solvents.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Sensor not pairing with hub.	Low battery; sensor not in pairing mode; hub too far; interference.	Replace batteries; ensure sensor LED is blinking; move sensor closer to hub; check for other Zigbee devices causing interference.
False alarms.	Sensor placed near large airflow (e.g., AC vent) or moving objects (e.g., curtains).	Relocate the sensor to an area free from drafts or constant movement.
No motion detected.	Low battery; sensor obstructed; incorrect placement; detection sensitivity setting.	Replace batteries; ensure clear line of sight; adjust sensor position; check sensitivity settings in your smart home app if available.
Illuminance value inaccurate.	Sensor lens dirty; sensor placed in shadow or direct light.	Clean the sensor lens; reposition the sensor to an area with representative ambient light.

## SPECIFICATIONS





Brand	Haozee
Model Number	ZG-PIR
Dimensions (L x W x H)	3.7 x 3.4 x 7.3 cm (37 x 34 x 73 mm)
Weight	30 grams
Color	White
Power Source	Battery Powered (2x AAA, not included)
Mounting Type	Wall Mount
Detection Angle	105° Wide-angle


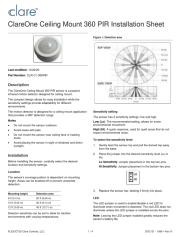
Compatible Devices	Zigbee, Home Assistant, Zigbee2MQTT
Recommended Uses	Home security, automation, energy management
UPC	640712053286

### WARRANTY AND SUPPORT


For warranty information and technical support, please refer to the documentation provided with your purchase or contact Haozee customer service directly. Information regarding spare parts availability is currently unavailable. For further assistance, you may also visit the [Haozee-UK seller page on Amazon](#).

### Related Documents - ZG-PIR

	<p><a href="#">Aqara Camera Hub G5 Pro (Wi-Fi) User Manual</a></p> <p>Comprehensive user manual for the Aqara Camera Hub G5 Pro (Wi-Fi), detailing product features, installation, setup, indicator lights, specifications, and safety warnings. Includes AI functions, Zigbee/Thread hub capabilities, and HomeKit integration.</p>
	<p><a href="#">Manual de Usuario del Sensor de Movimiento PIR Zigbee MOES ZSS-X-PIR-C para Hogar Inteligente</a></p> <p>Guía completa para el sensor de movimiento PIR Zigbee MOES ZSS-X-PIR-C, incluyendo especificaciones, instrucciones de instalación, conexión a la aplicación MOES/Tuya Smart, solución de problemas, información de reciclaje y detalles de garantía. Compatible con Alexa y Google Assistant.</p>
	<p><a href="#">Hofronic PIR Motion Sensor 360° User Information</a></p> <p>Discover the features and specifications of the Hofronic PIR Motion Sensor 360°, designed for efficient motion detection. This document provides details on input power, wattage, installation height, detection range, distance, time delay, and ambient light settings.</p>
	<p><a href="#">Tuya ZigBee PIR Multi-Sensor PIR313-Z-TY Quick Start Guide</a></p> <p>A quick start guide for the Tuya ZigBee PIR313-Z-TY multi-sensor, detailing its features for detecting motion, temperature, humidity, and illuminance. Includes setup instructions, installation guidance, technical specifications, and safety precautions.</p>

 <p><b>JULA</b> 422080, 422081</p> <p>1. Substituting by PIR detector 2. Substituting by PIR detector 3. Substituting by PIR detector 4. Substituting by PIR detector 5. Substituting by PIR detector 6. Substituting by PIR detector 7. Substituting by PIR detector 8. Substituting by PIR detector 9. Substituting by PIR detector 10. Substituting by PIR detector 11. Substituting by PIR detector 12. Substituting by PIR detector 13. Substituting by PIR detector 14. Substituting by PIR detector 15. Substituting by PIR detector 16. Substituting by PIR detector 17. Substituting by PIR detector 18. Substituting by PIR detector 19. Substituting by PIR detector 20. Substituting by PIR detector 21. Substituting by PIR detector 22. Substituting by PIR detector 23. Substituting by PIR detector 24. Substituting by PIR detector 25. Substituting by PIR detector 26. Substituting by PIR detector 27. Substituting by PIR detector 28. Substituting by PIR detector 29. Substituting by PIR detector 30. Substituting by PIR detector 31. Substituting by PIR detector 32. Substituting by PIR detector 33. Substituting by PIR detector 34. Substituting by PIR detector 35. Substituting by PIR detector 36. Substituting by PIR detector 37. Substituting by PIR detector 38. Substituting by PIR detector 39. Substituting by PIR detector 40. Substituting by PIR detector 41. Substituting by PIR detector 42. Substituting by PIR detector 43. Substituting by PIR detector 44. Substituting by PIR detector 45. Substituting by PIR detector 46. Substituting by PIR detector 47. Substituting by PIR detector 48. Substituting by PIR detector 49. Substituting by PIR detector 50. Substituting by PIR detector 51. Substituting by PIR detector 52. Substituting by PIR detector 53. Substituting by PIR detector 54. Substituting by PIR detector 55. Substituting by PIR detector 56. Substituting by PIR detector 57. Substituting by PIR detector 58. Substituting by PIR detector 59. Substituting by PIR detector 60. Substituting by PIR detector 61. Substituting by PIR detector 62. Substituting by PIR detector 63. Substituting by PIR detector 64. Substituting by PIR detector 65. Substituting by PIR detector 66. Substituting by PIR detector 67. Substituting by PIR detector 68. Substituting by PIR detector 69. Substituting by PIR detector 70. Substituting by PIR detector 71. Substituting by PIR detector 72. Substituting by PIR detector 73. Substituting by PIR detector 74. Substituting by PIR detector 75. Substituting by PIR detector 76. Substituting by PIR detector 77. Substituting by PIR detector 78. Substituting by PIR detector 79. Substituting by PIR detector 80. Substituting by PIR detector 81. Substituting by PIR detector 82. Substituting by PIR detector 83. Substituting by PIR detector 84. Substituting by PIR detector 85. Substituting by PIR detector 86. Substituting by PIR detector 87. Substituting by PIR detector 88. Substituting by PIR detector 89. Substituting by PIR detector 90. Substituting by PIR detector 91. Substituting by PIR detector 92. Substituting by PIR detector 93. Substituting by PIR detector 94. Substituting by PIR detector 95. Substituting by PIR detector 96. Substituting by PIR detector 97. Substituting by PIR detector 98. Substituting by PIR detector 99. Substituting by PIR detector 100. Substituting by PIR detector</p>	<p><a href="#">JULA PIR Detector 422080, 422081: Operating Instructions and Installation Guide</a></p> <p>Comprehensive operating instructions and installation guide for the JULA PIR Detector (models 422080, 422081). Learn about technical specifications, optimal placement, mounting procedures, and functional settings for motion detection.</p>
 <p><b>clare</b> ClareOne Ceiling Mount 360 PIR Installation Sheet</p> <p>1. Introduction 2. Features 3. Installation 4. Operation 5. Maintenance 6. Troubleshooting 7. Safety 8. Regulatory Information 9. Contact Information</p>	<p><a href="#">ClareOne Ceiling Mount 360 PIR Installation Sheet</a></p> <p>Installation sheet for the ClareOne Ceiling Mount 360 PIR sensor, a passive infrared motion detector designed for ceiling mount applications with a 360° detection range. Includes instructions on installation, sensitivity settings, LED operation, battery replacement, and regulatory information.</p>

Documents - Haozee – ZG-PIR

 <p>Page 1 of 7 Report No.: AITSZ-250328008FW2</p> <p><b>RF Exposure evaluation</b></p> <p>Product Name : Haozee Brand Name : HZ-PIR-01 Series Model : ZG-PIR FCC ID : 2BOUN-HZ-PIR-01 Applicant : SHENZHEN HAI HAO ELECTRONIC CO.,LTD Address : 507B, Building A, Zhi Hui Chuang Xin Zhong X. ... Manufacturer : SHENZHEN HAI HAO ELECTRONIC CO.,LTD Address : 507B, Building A, Zhi Hui Chuang Xin Zhong X. ... Standard(s) : FCC CFR Title 47 Part 15 Subpart C Section 15.247 Date of Receipt : Mar 28, 2025 Date of Test : Apr 14, 2025 Issued Date : Apr 14, 2025</p> <p>Issued By: Guangdong Asia Hongkai Test Technology Limited B1/F, Building 11, Jurling Industrial Park, Changping Road, Heiping Community, Futian Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86 (0)755-25067939 Fax: +86 (0)755-25067939</p> <p>Reviewed by: [Signature] Approved by: [Signature]</p> <p>Note: This device has been tested and found to comply with the standard(s) listed. This test report merely corresponds to the test sample. It is not permitted to copy or alter the content of this test report without the written permission of the test laboratory. This report shall not be reproduced or used in any way without the written approval of Guangdong Asia Hongkai Test Technology Limited. If there is a need to alter or amend the document, the right belongs to Guangdong Asia Hongkai Test Technology Limited, and it should give a prior written notice of the version document. This test report must not be used by the client to claim product endorsement.</p> <p>Guangdong Asia Hongkai Test Technology Limited B1/F, Building 11, Jurling Industrial Park, Changping Road, Heiping Community, Futian Street, Bao'an District, Shenzhen, Guangdong, China</p>	<p><a href="#">[pdf] Test Report SAR Rating</a></p> <p>FCC RF EXPOSURE SHENZHEN HAI HAO ELECTRONIC CO LTD HZ PIR 01 Smart Motion Sensor</p> <p>2BOUN 2BOUNHZPIR01 hz pir</p> <p>Page 1 of 7 Report No.: AITSZ-250328008FW2 RF Exposure evaluation Product Name : Smart Motion Sensor Brand Name : Haozee Model : HZ-PIR-01 Series Model : <b>ZG-PIR</b> FCC ID : 2BOUN-HZ-PIR-01 Applicant : SHENZHEN HAI HAO ELECTRONIC CO.,LTD Address : 507B,Building A,Zhi Hui Chuang Xin Zhong X... lang:en score:19 filesize: 311.19 K page_count: 7 document date: 2025-04-21</p>
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 <p>Page 1 of 26 Report No.: AITSZ-250328008FW1</p> <p><b>TEST REPORT</b></p> <p>Product Name : Smart Motion Sensor Brand Name : Haozee Model : HZ-PIR-01 Series Model : ZG-PIR FCC ID : 2BOUN-HZ-PIR-01 Applicant : SHENZHEN HAI HAO ELECTRONIC CO.,LTD Address : 507B, Building A, Zhi Hui Chuang Xin Zhong X. ... Manufacturer : SHENZHEN HAI HAO ELECTRONIC CO.,LTD Address : 507B, Building A, Zhi Hui Chuang Xin Zhong X. ... Standard(s) : FCC CFR Title 47 Part 15 Subpart C Section 15.247 Date of Receipt : Mar 28, 2025 Date of Test : Mar 28, 2025 - Apr 14, 2025 Issued Date : Apr 14, 2025</p> <p>Issued By: Guangdong Asia Hongkai Test Technology Limited B1/F, Building 11, Jurling Industrial Park, Changping Road, Heiping Community, Futian Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86 (0)755-25067939 Fax: +86 (0)755-25067939</p> <p>Reviewed by: [Signature] Approved by: [Signature]</p> <p>Note: This device has been tested and found to comply with the standard(s) listed. This test report merely corresponds to the test sample. It is not permitted to copy or alter the content of this test report without the written permission of the test laboratory. This report shall not be reproduced or used in any way without the written approval of Guangdong Asia Hongkai Test Technology Limited. If there is a need to alter or amend the document, the right belongs to Guangdong Asia Hongkai Test Technology Limited, and it should give a prior written notice of the version document. This test report must not be used by the client to claim product endorsement.</p> <p>Guangdong Asia Hongkai Test Technology Limited B1/F, Building 11, Jurling Industrial Park, Changping Road, Heiping Community, Futian Street, Bao'an District, Shenzhen, Guangdong, China</p>	<p><a href="#">Haozee HZ-PIR-01 Smart Motion Sensor FCC Test Report</a></p> <p>This document is an FCC test report for the Haozee HZ-PIR-01 Smart Motion Sensor, detailing compliance with FCC Part 15.247 and ANSI C63.10 standards. It includes test summaries, general information, and results for conducted and radiated emissions, power spectral density, bandwidth, and antenna requirements.</p> <p>lang:en score:14 filesize: 3.07 M page_count: 26 document date: 2025-04-25</p>
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