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SONOFF J17G1311ZDAVV0S

SONOFF PIR2 Wireless Dual Infrared Human Sensor User Manual

Model: J17G1311ZDAVV0S

1. PRODUCT OVERVIEW

The SONOFF PIR2 is a 433MHz RF PIR (Passive Infrared) motion sensor designed for human body detection in smart home security and automation systems. It utilizes dual infrared and double temperature compensation technology to enhance detection accuracy and reduce false alarms. This sensor is intended to work in conjunction with the SONOFF RF Bridge 433 to send alert notifications to your eWeLink application.



Front view of the SONOFF PIR2 Wireless Dual Infrared Human Sensor.

Key Features:

- **433MHz RF Connectivity:** For wireless communication with the SONOFF RF Bridge 433.
- **Dual Infrared Detection:** Enhances accuracy by using two infrared sensors.
- **Double Temperature Compensation:** Minimizes false alarms caused by temperature fluctuations.
- **Pet Immunity:** Designed to ignore pets weighing up to 20kg when installed at the recommended height (2.2-2.4m).
- **Wide Detection Angle:** 110 degrees horizontally.
- **Extensive Coverage Area:** Up to 12m x 12m.



Sonoff Sensor-PIR2



The SONOFF PIR2 sensor in an indoor setting, illustrating its human body infrared detection capability and pet immunity feature for animals under 20kg.

Components:

- **LED Indicator:** Provides visual feedback on sensor status.
- **Front Infrared Detecting Window:** Main detection area.
- **Bottom Infrared Detecting Window:** Secondary detection area for enhanced coverage.



Diagram showing the LED indicator, front infrared detecting window, and bottom infrared detecting window of the SONOFF PIR2 sensor.

2. SPECIFICATIONS

Parameter	Value
Brand Name	SONOFF
Product Name	Sonoff Sensor-PIR2
Model Number	J17G1311ZDAVV0S
Voltage	3V (2*AA Batteries)
Product Weight	80g
Product Dimensions	15.4 x 6.4 x 5 cm (114mm x 57mm)
Alarm Indicator Light	On for 3 seconds
Alarm Current	≤10mA
Wireless Frequency	433.92MHz
Wireless Transmit Code	1527MHz (default)
Detection Distance	12m @ 25°C
Detection Angle	110 degrees
Maximum Coverage Area	12m x 12m
Mounting Type	Wall Mount

PRODUCT SPECIFICATIONS

Brand name :	SonoFF	Product name :	Sonoff Sensor-PIR2
Voltage :	3V (2*AA)	Product weight :	76g
Alarm indicator light :	on for 3 seconds	Product size :	114*57mm
Alarm current :	≤10mA	Detection distance :	12m@ 25°C
Wireless frequency:	433.92MHz	Wireless Transmit Code :	1527Mhz (default)
Detection angle :	110 degrees	Maximum coverage area :	12m*12m
Battery :	2*AA (Note: this model doesn't come with battery)		



Detailed product specifications and physical dimensions of the SONOFF PIR2 sensor.

3. SETUP

3.1 Battery Installation

The SONOFF PIR2 sensor requires **two (2) AA batteries** for operation. To install the batteries:

1. Gently open the back cover of the PIR2 sensor.
2. Insert two AA batteries into the battery compartment, ensuring correct polarity (+/-).
3. Close the back cover securely.

3.2 Mounting the Sensor

For optimal performance and pet immunity, follow these mounting guidelines:

- **Mounting Height:** Install the sensor on a wall at a height of **2.2 to 2.4 meters** (approximately 7.2 to 7.9 feet) from the floor. This height is crucial for the pet immunity feature to function correctly.

- **Location:** Choose a location that provides a clear line of sight to the area you wish to monitor. Avoid pointing the sensor directly at heat sources (e.g., radiators, direct sunlight, air conditioning vents) or areas with significant air currents, as these can cause false alarms.
- **Installation:** Use the provided mounting hardware (screws or adhesive) to securely attach the sensor to the wall. Ensure it is firmly fixed and does not wobble.



Diagram illustrating the 110-degree detection angle and optimal mounting height (2.2-2.4m) for the SONOFF PIR2 sensor, showing a maximum coverage area of 12m x 12m.

3.3 Pairing with SONOFF RF Bridge 433

The PIR2 sensor requires a SONOFF RF Bridge 433 (sold separately) to connect to your Wi-Fi network and the eWeLink app. Follow the instructions provided with your RF Bridge to add it to the eWeLink app first. Once the RF Bridge is set up:

1. Open the eWeLink app and navigate to your RF Bridge device.
2. Enter the pairing mode for the RF Bridge (refer to the RF Bridge manual for specific steps, usually by pressing a pairing button or selecting 'Add' in the app).
3. Trigger the PIR2 sensor by moving in front of it. The sensor's LED indicator will light up for 3 seconds, sending a signal to the RF Bridge.
4. The RF Bridge should detect the signal, and you will be prompted in the eWeLink app to name and save the new PIR2 sensor.

The infrared sensor can be used with the Sonoff RF Bridge 433.

The PIR2 infrared sensor detects an intrusion and immediately sends an alert notification message to the application.



(*This product does not include Sonoff RF Bridge 433)

The SONOFF PIR2 sensor shown alongside the SONOFF RF Bridge 433, illustrating their necessary pairing for smart home integration. Note: RF Bridge is sold separately.

4. OPERATING THE SENSOR

Once successfully paired with the SONOFF RF Bridge 433, the PIR2 sensor will operate automatically. It continuously monitors its detection area for human motion.

4.1 Motion Detection

- When a human body enters the sensor's detection range (up to 12m x 12m) and angle (110 degrees), the dual infrared sensors will detect the change in infrared radiation.
- The sensor's LED indicator will light up for approximately 3 seconds, signifying a detection event.
- A 433MHz RF signal is immediately transmitted to the paired SONOFF RF Bridge 433.

Control 433MHz RF devices over Wi-Fi or mobile network

PIR2 is a 433.92MHz RF PIR motion sensor that for human detection. The motion detector can work with the Sonoff RF Bridge 433, providing human detected alarm message push to your phone.

High Decibel

Mobile phone syncs to accept messages, faster and more timely alarms



The SONOFF PIR2 sensor detecting a person, illustrating how it triggers an immediate alarm when someone steps into its infrared detection area.

4.2 Notifications and Automation

- Upon receiving the signal from the PIR2 sensor, the RF Bridge will send an alert notification to your eWeLink app on your mobile device.
- You can configure scenes and smart automations within the eWeLink app. For example, you can set the sensor to trigger an alarm, turn on lights, or activate other smart devices when motion is detected.



A mobile phone screen displaying an alarm notification, demonstrating how the SONOFF PIR2 sensor can control 433MHz RF devices over Wi-Fi or mobile networks via the eWeLink app.

4.3 Pet Immunity

The PIR2 sensor is designed with pet immunity for animals weighing up to 20kg. When installed at the recommended height of 2.2-2.4m, the sensor's detection pattern is optimized to ignore the movement of small pets, reducing false alarms while still detecting human intruders.

5. MAINTENANCE

5.1 Battery Replacement

When the batteries are low, the sensor's performance may degrade, or it may stop transmitting signals. Replace the batteries promptly when this occurs. Follow the battery installation steps in Section 3.1.

5.2 Cleaning

To ensure optimal detection, keep the sensor's infrared windows clean. Dust or smudges can interfere with its performance.

- Use a soft, dry, lint-free cloth to gently wipe the sensor's surface.

- Do not use abrasive cleaners, solvents, or excessive moisture, as these can damage the device.

5.3 Environmental Considerations

Avoid placing the sensor in environments with extreme temperatures, high humidity, or direct exposure to water. These conditions can affect the sensor's lifespan and performance.

6. TROUBLESHOOTING

6.1 Sensor Not Detecting Motion

- **Check Batteries:** Ensure batteries are correctly installed and have sufficient charge. Replace if necessary.
- **Clear Line of Sight:** Verify that there are no obstructions blocking the sensor's detection area.
- **Mounting Height:** Confirm the sensor is mounted at the recommended height (2.2-2.4m).
- **Test Detection:** Walk directly in front of the sensor to trigger it and observe if the LED indicator lights up.

6.2 No Alerts Received in eWeLink App

- **PIR2 Paired with RF Bridge:** Ensure the PIR2 sensor is successfully paired with your SONOFF RF Bridge 433. Re-pair if needed (refer to Section 3.3).
- **RF Bridge Online:** Verify that your SONOFF RF Bridge 433 is connected to your Wi-Fi network and is online in the eWeLink app.
- **App Notifications:** Check your phone's notification settings to ensure eWeLink app notifications are enabled.
- **RF Signal Interference:** Minimize potential sources of 433MHz interference (e.g., other wireless devices) near the sensor or RF Bridge.

6.3 False Alarms

- **Pet Immunity:** Ensure the sensor is mounted at the correct height (2.2-2.4m) for effective pet immunity.
- **Heat Sources:** Relocate the sensor if it is pointing directly at heat sources (e.g., radiators, vents, direct sunlight) or areas with significant temperature fluctuations.
- **Air Currents:** Avoid placing the sensor in areas with strong air currents (e.g., near open windows or fans).
- **Vibrations:** Ensure the sensor is mounted securely and not subject to vibrations.

7. WARRANTY AND SUPPORT

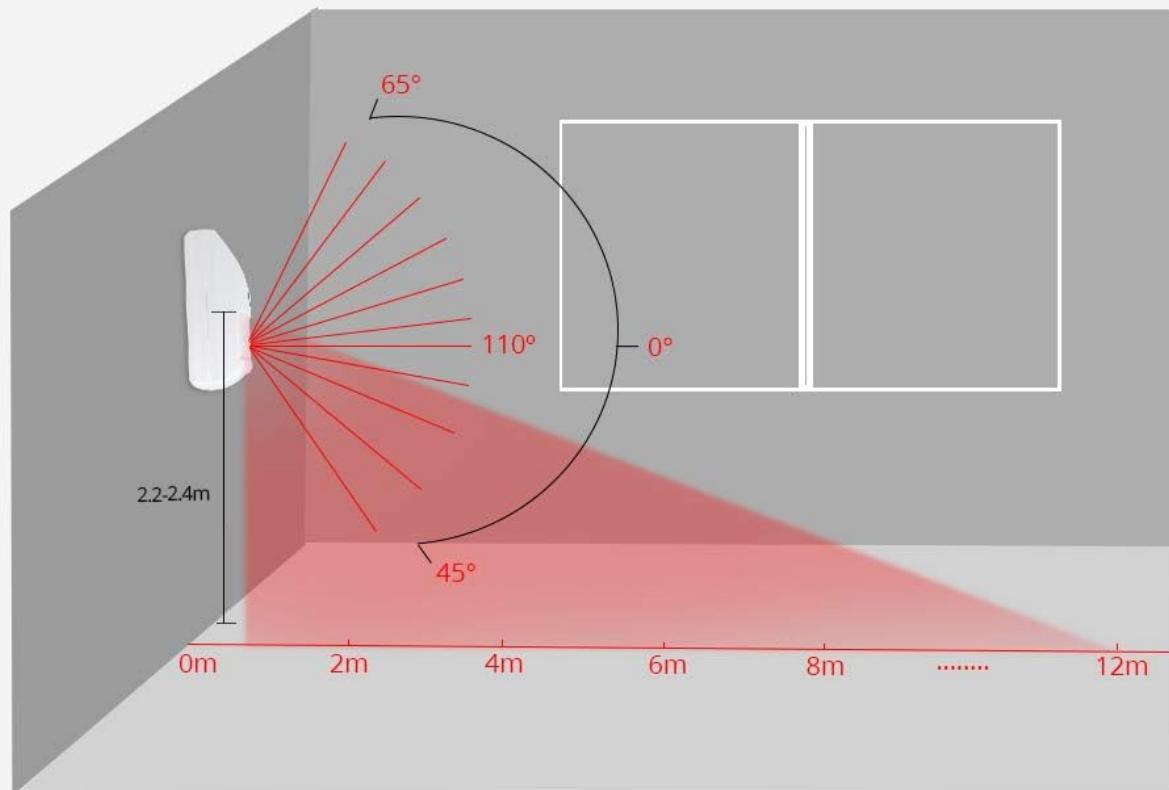
7.1 Warranty Information

SONOFF products typically come with a limited warranty against defects in materials and workmanship. Please refer to the warranty card included with your product or visit the official SONOFF website for detailed warranty terms and conditions specific to your region.

7.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact SONOFF customer support through their official website or the contact information provided in your product packaging. When contacting support, please have your product model number (J17G1311ZDAVV0S) and purchase details ready.

The maximum angle of detection is 110°
The largest coverage area is 12m*12m



The SONOFF PIR2 sensor contributes to protecting your family and property 24 hours a day as part of a comprehensive smart home security system.

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This manual is subject to change without notice.

Related Documents - J17G1311ZDAVV0S

	<p><u>Sonoff Basic/RF User Guide: Setup and Operation</u></p> <p>Comprehensive user guide for Sonoff Basic and Sonoff RF devices, covering app download, wiring, device pairing, remote control, and troubleshooting.</p>
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	<p>Sonoff RF Bridge 433 User Manual and Setup Guide</p> <p>Comprehensive user manual for the Sonoff RF Bridge 433, covering setup, device pairing, RF remote and sensor addition, smart scenes, and troubleshooting. Learn to integrate your RF devices with the eWeLink app.</p>
	<p>Sonoff Slampher E27: Manual de Usuario para Portalámparas Inteligente Wi-Fi y RF</p> <p>Guía completa del usuario para el Sonoff Slampher E27, un portalámparas inteligente Wi-Fi y RF. Aprenda a instalar, configurar y usar la aplicación eWeLink para controlar sus luces.</p>
	<p>Manual de Utilizare Sonoff Modul Releu Automatizare - Basic</p> <p>Ghid complet pentru instalarea, configurarea și utilizarea modulului Sonoff Basic de automatizare releu cu aplicația eWeLink, inclusiv conectivitate Wi-Fi și funcții avansate pentru casa inteligentă.</p>
	<p>SONOFF ZB Bridge-P User Manual V1.1 - Smart Home Zigbee Hub</p> <p>Comprehensive user manual for the SONOFF ZB Bridge-P, detailing setup, features, specifications, troubleshooting, and compliance information for this Zigbee to Wi-Fi smart home bridge.</p>
	<p>Slampher User Guide: Smart Wi-Fi Light Socket</p> <p>Comprehensive user guide for the Slampher smart Wi-Fi light socket, covering installation, app setup, RF remote control, and troubleshooting. Learn how to control your lights remotely using the eWeLink app.</p>