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› Gaoducash WiFi Human Presence Sensor User Manual

Gaoducash Human Presence Sensor WiFi

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Model: Human Presence Sensor WiFi

1. PRODUCT OVERVIEW

The Gaoducash WiFi Human Presence Sensor is an advanced smart device designed for accurate human presence detection in various indoor environments. It combines 5.8GHz millimeter-wave (mmWave) radar technology with an infrared probe to detect both subtle movements and static presence, offering superior performance compared to traditional PIR motion sensors. This sensor is ideal for home security, automation, and energy management, providing real-time alerts and intelligent scene linkage capabilities through the Tuya Smart/Smart Life application.

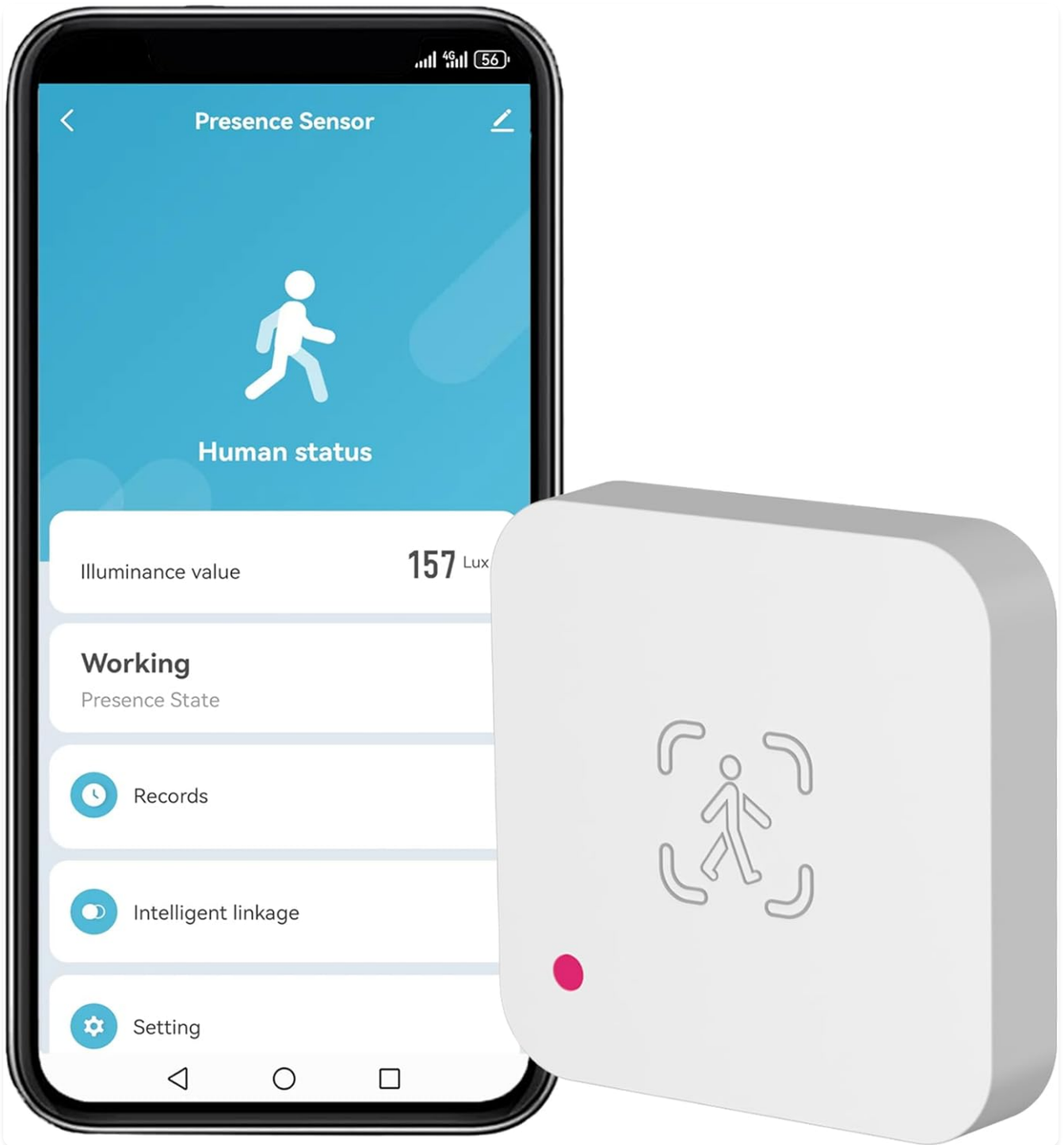


Figure 1.1: Gaoducash WiFi Human Presence Sensor and its mobile application interface.

2. KEY FEATURES

- **Presence Detection:** Dual detection system with built-in microwave radar and infrared probe for detecting subtle changes in human or animal movements, as well as static presence.
- **Instant Alert:** No hub required. Remote control via Tuya Smart/Smart Life App. Sends immediate alerts to your smartphone upon detecting unusual motion.
- **Perceived Light Intensity for Smart & Scene Linkage:** Integrated light sensor enables greater flexibility for creating lighting automations and intelligent scenes with other smart products (e.g., switches, curtains) for energy saving, environmental protection, and security.
- **Ultra-high Precision with more Privacy:** Utilizes mmWave radar and infrared technology for accurate detection

of human movement and static presence. Supports sensitivity adjustment and maximizes user privacy as it does not require a camera monitoring system.

- **USB Powered:** Designed for continuous power via USB 5V. Connects to a 2.4GHz Wi-Fi network for pairing with the Tuya Smart/Smart Life app.



Figure 2.1: Overview of the Tuya WiFi Human Presence Detector's functionalities.

3. SETUP GUIDE

3.1. Package Contents

Before you begin, please ensure all components are present:

- 1x Gaoducash WiFi Human Presence Sensor
- 1x 2M USB Type-C Cable
- 1x Double-sided tape

3.2. Powering the Device

The sensor is powered via a USB 5V connection. Connect the provided USB Type-C cable to the sensor's power port and plug the other end into a compatible USB power adapter (not included) or a USB port.



Figure 3.1: Sensor dimensions and micro USB power interface.

3.3. App Installation and Pairing

1. Download the **Tuya Smart** or **Smart Life** app from your smartphone's app store (iOS App Store or Google Play Store).
2. Register or log in to your account.
3. Ensure your smartphone is connected to a **2.4GHz Wi-Fi network**. The sensor does not support 5GHz Wi-Fi.
4. Open the app, tap the "+" icon to add a device.
5. Select the appropriate device category (e.g., "Sensor" or "Security & Video Surveillance") and then choose "Human Presence Sensor" or similar.
6. Follow the on-screen instructions in the app to put the sensor into pairing mode and complete the connection. This usually involves confirming the Wi-Fi network and entering the password.

3.4. Mounting the Sensor

The sensor comes with 3M double-sided tape for easy attachment. Choose a suitable location for optimal detection, such as a wall or ceiling. Ensure the sensor has a clear line of sight to the area you wish to monitor.



Figure 3.2: Example of sensor placement for optimal detection.

4. OPERATING INSTRUCTIONS

4.1. App Interface and Settings

Once connected, you can manage the sensor through the Tuya Smart/Smart Life app. The app provides various settings to customize the sensor's behavior.



Figure 4.1: App interface for sensor management and settings.

4.2. Detection Settings

Adjust the detection parameters to suit your environment and needs:

- **Motion Detection Distance:** Set the maximum range for detecting general motion.
- **Motion Detection Sensitivity:** Adjust the sensitivity for detecting larger movements.
- **Small Motion Detection Distance:** Define the range for detecting subtle movements (e.g., breathing, slight shifts).
- **Small Motion Detection Sensitivity:** Control the sensitivity for detecting very subtle movements.
- **Illuminance Value:** The sensor includes a built-in light sensor, allowing you to monitor ambient light levels.

Detection Distance Setting

You can set the minimum and maximum detection distance for your target alarm zone

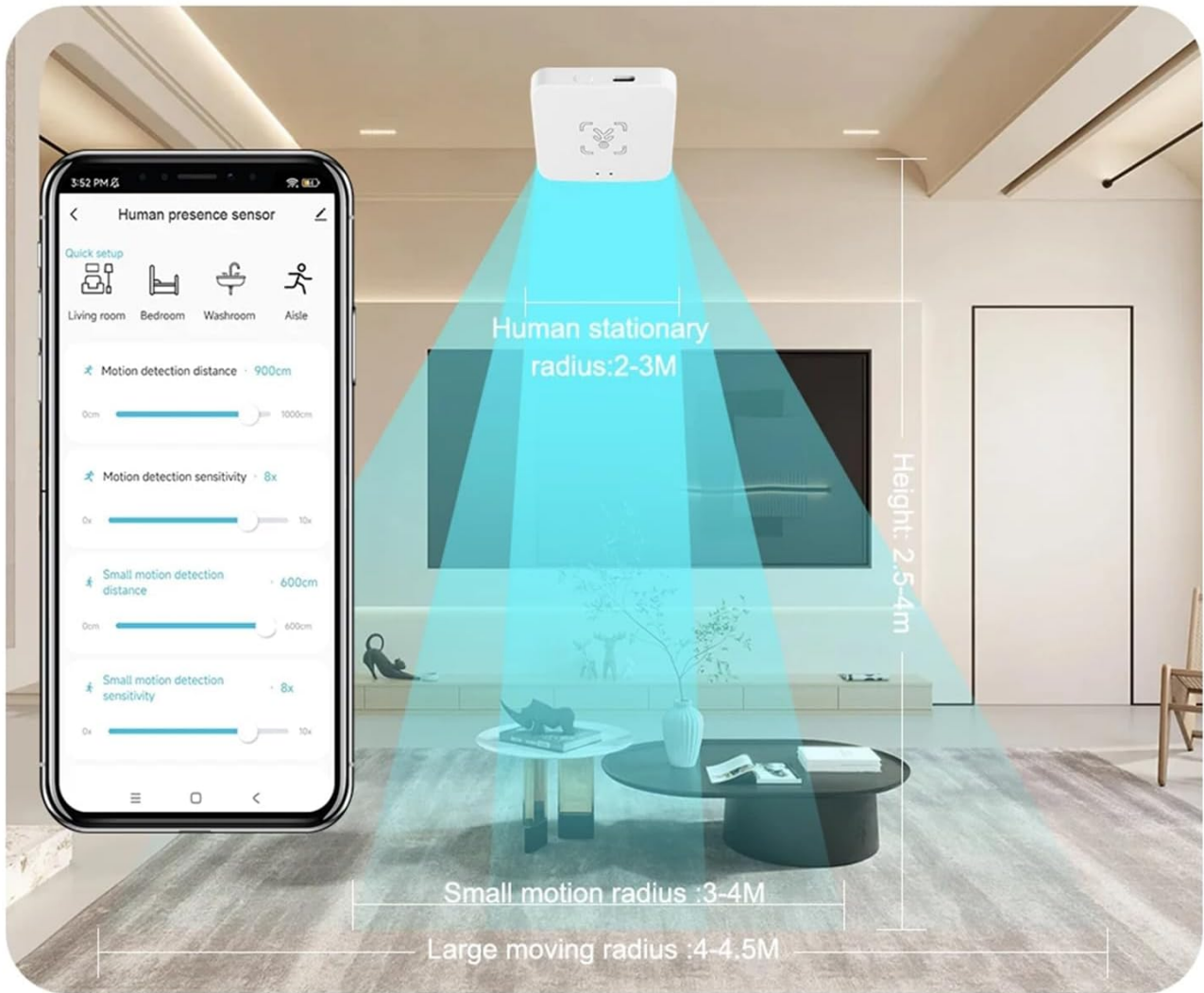


Figure 4.2: Understanding detection distance settings.

Linkage for multi scene

Intelligent linkage to smart light in the studyin APP with the variation of brightness for automatically light On to protect your eyes



Figure 4.3: MmWave radar detection for both motion and static presence.

Mmwave Radar Detection

Micro motion detection, detect the moving and non-moving person presence, beam detection

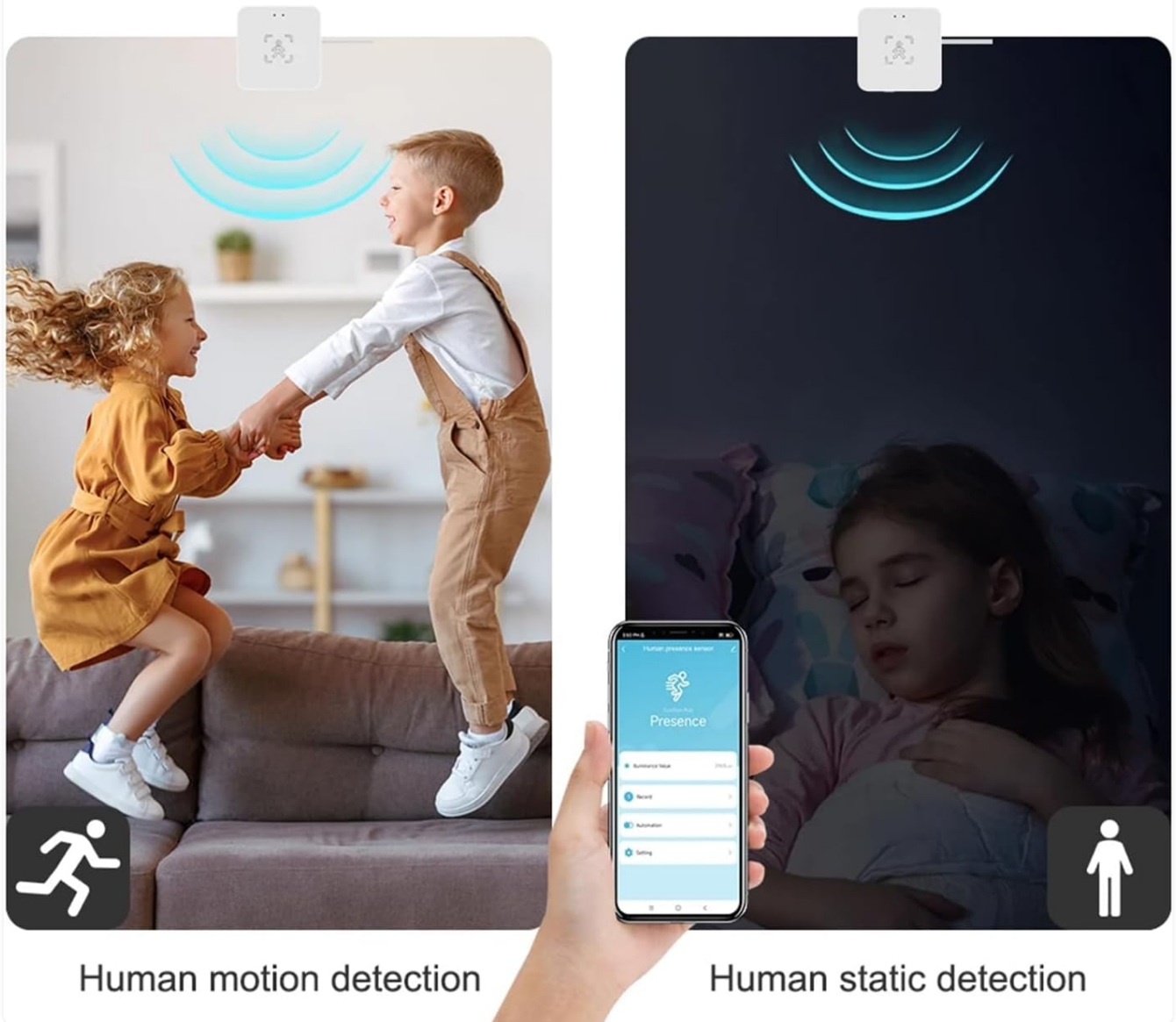


Figure 4.4: High accuracy detection for various human states.



Figure 4.5: Millimeter Wave Radar accurate detection angle.

4.3. Smart Scene Linkage

Leverage the sensor's capabilities to create automated scenes within the Tuya Smart/Smart Life app:

- **Lighting Automation:** Use the built-in light sensor to automatically turn lights on or off based on ambient light

levels and presence.

- **Energy Saving:** Link with smart switches or other devices to turn off appliances when no presence is detected, saving energy.
- **Security Alarms:** Integrate with smart alarms to trigger alerts if unexpected presence is detected during specific times.

Professional illumination chip

0–3000_{lux}
Illumination setting range

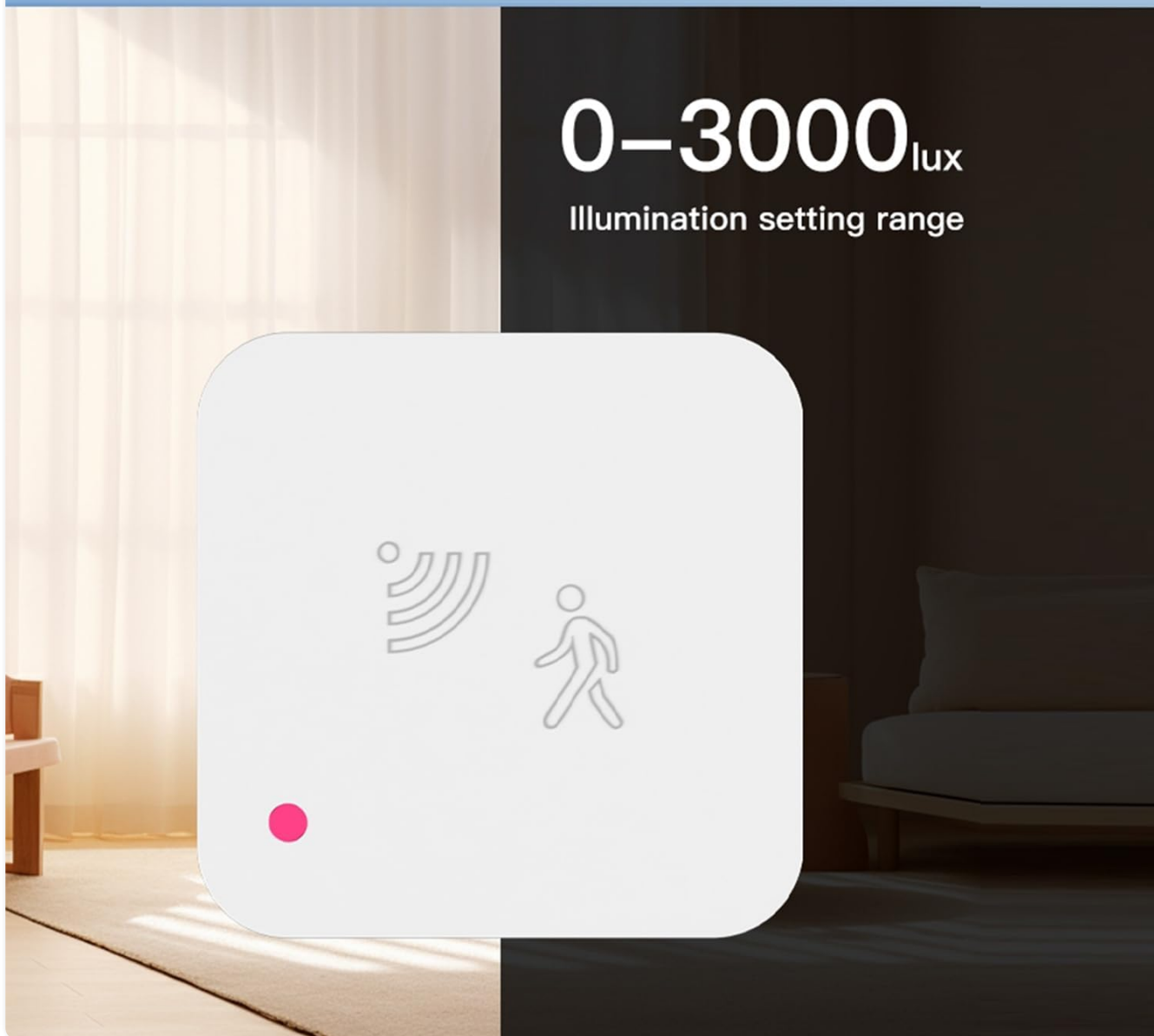


Figure 4.6: Example of smart scene linkage with a smart bulb.



Figure 4.7: Automatic light control based on presence.



Figure 4.8: Night light automation in a bathroom setting.



Figure 4.9: Air conditioning automation based on presence in a living room.

4.4. Activity Logs and Notifications

The app allows you to review a 30-day activity log of detected presence and absence. You will receive push notifications on your smartphone for detected motions, keeping you informed regardless of your location.



Figure 4.10: Viewing historical presence records in the app.

5. MAINTENANCE

5.1. Cleaning

To maintain optimal performance, periodically clean the sensor's surface with a soft, dry cloth. Avoid using abrasive cleaners or solvents, as these may damage the device.

5.2. Firmware Updates

The Tuya Smart/Smart Life app will notify you if new firmware updates are available for your sensor. It is recommended to keep the firmware updated to ensure the best performance and access to new features.

6. TROUBLESHOOTING

6.1. Common Issues

- **Sensor not connecting to Wi-Fi:** Ensure your Wi-Fi network is 2.4GHz. Check Wi-Fi signal strength at the sensor's location. Restart your router and the sensor, then try pairing again.
- **False alerts or no detection:** Adjust the detection sensitivity and distance settings in the app. Ensure there are no obstructions blocking the sensor's field of view. Avoid placing the sensor near strong electromagnetic interference sources.
- **App not receiving notifications:** Check your phone's notification settings for the Tuya Smart/Smart Life app to ensure notifications are enabled. Verify the sensor is online in the app.

6.2. Resetting the Device

If the sensor is unresponsive or you need to re-pair it, you may perform a factory reset. Refer to the app's specific instructions for resetting the device, which typically involves pressing and holding a button on the sensor until an indicator light flashes.

7. SPECIFICATIONS

Attribute	Value
Product Dimensions	0.4 x 1.96 x 1.96 inches
Item Weight	2.82 ounces

Attribute	Value
Manufacturer	Gaoducash
Item model number	Human Presence Sensor WiFi
Batteries required	No (USB Powered)
Included Components	1* WiFi presence sensor + 1*2M USB Type-C Cable + 1* Double-sided tape
Color	Red
Voltage	5 Volts
Charging Port Type	USB Type-C

8. WARRANTY INFORMATION

This product is covered by a return policy allowing for refund or replacement within 30 days of purchase. Please refer to your point of purchase for specific details regarding warranty claims and returns.

9. SUPPORT

For further assistance, technical support, or inquiries, please visit the official Gaoducash store on Amazon or contact Gaoducash customer service through the contact information provided with your purchase or on the product's listing page.

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