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## LeTianPai B1H54

# LeTianPai Presence Sensor Box User Manual

MODEL: B1H54



Front view of the LeTianPai Presence Sensor Box, showcasing its compact design and sensor elements.

## 1. Product Overview

The LeTianPai Presence Sensor Box, Model B1H54, is a multi-functional smart sensor designed for comprehensive environmental monitoring and human presence detection. It integrates five types of sensors into a single device, offering advanced capabilities for smart home automation and security.

Key features include:

- 5-in-1 Sensor:** Combines millimeter wave radar, infrared, light, temperature, and humidity sensing.
- Matter Compatibility:** Seamlessly integrates with smart home ecosystems such as Alexa, SmartThings, Google Home, and Apple Home.
- Dual Human Presence Detection:** Utilizes both radar and infrared for precise identification of human presence and states.
- Flexible Installation:** Features a magnetic design and supports various mounting options.

World's First Matter Human Presence Sensor

# LeTianPai Presence Sensor Box

Millimeter Wave Radar Technology

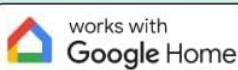


## 5-in-1 Sensor

- Millimeter Wave Radar
- Infrared
- Light sensitivity
- Device Temperature
- Device Humidity

## Full Coverage

Need not third-party gateway hub and app



## Installation Options

- Magnetic
- Adhesive
- Bracket
- Wall
- Corner
- Socket
- Downlight
- Side
- Top

An illustration detailing the 5-in-1 sensor capabilities, Matter compatibility, and various installation options for the LeTianPai Presence Sensor Box.

# ALL in ONE

## 5-in-1 Sensor

One device fulfills  
all needs in the  
whole room



## Dual

### Human Presence Detection

Extreme Precision in Identifying Human  
Body States

Millimeter Wave Radar

Biological Infrared

## Multi Platform

matter

works with alexa

Works with Apple Home

works with Google Home

Works with SmartThings

No third-party applications, gateways, or hubs outside the platform are required.  
Directly supports real-time, concurrent, and full duplex work.

A visual representation of the sensor's integrated 5-in-1 functionality, dual radar and infrared detection for human presence, and its support for multiple smart home platforms.

## 2. Key Features

The LeTianPai Presence Sensor Box is engineered with advanced technology to provide reliable and versatile smart home functionality.

- **Comprehensive Sensing:** Integrates millimeter wave radar, infrared, light, humidity, and temperature sensors for a complete environmental picture.
- **Matter Direct Connection:** Supports direct connection to Matter-enabled smart home platforms, eliminating the need for third-party gateways or apps.
- **Ultra-Wide Angle & Long Range Detection:** Offers a 130-degree detection angle with a static perception range of 4 meters and a dynamic perception range of 8 meters.
- **Configurable Detection Modes:** Allows selection between Radar only, Radar and Auxiliary Infrared, Radar and Infrared, or Infrared only for customized detection scenarios.
- **USB-C Power Supply:** Powered via USB-C, removing the need for batteries.
- **Real-time Light Detection:** Features a professional illuminance recognition chip capable of detecting light intensity from 0 to 10000 lux.
- **Over-The-Air (OTA) Updates:** Supports firmware updates for continuous improvement and new features.
- **Built-in Magnet:** Facilitates easy and flexible installation with various accessories.

# LeTianPai

## Presence Sensor Box

**The World's First Matter Human Presence Sensor**

matter

Works with SmartThings

Works with Apple Home

works with alexa

works with Google Home

Support More...

CSA Certified

matter

cover all smart home platforms

Ultra-Wide Angle  
Ultra-Long Range

130° 4M + 8M

Hidden installation  
USBC power supply

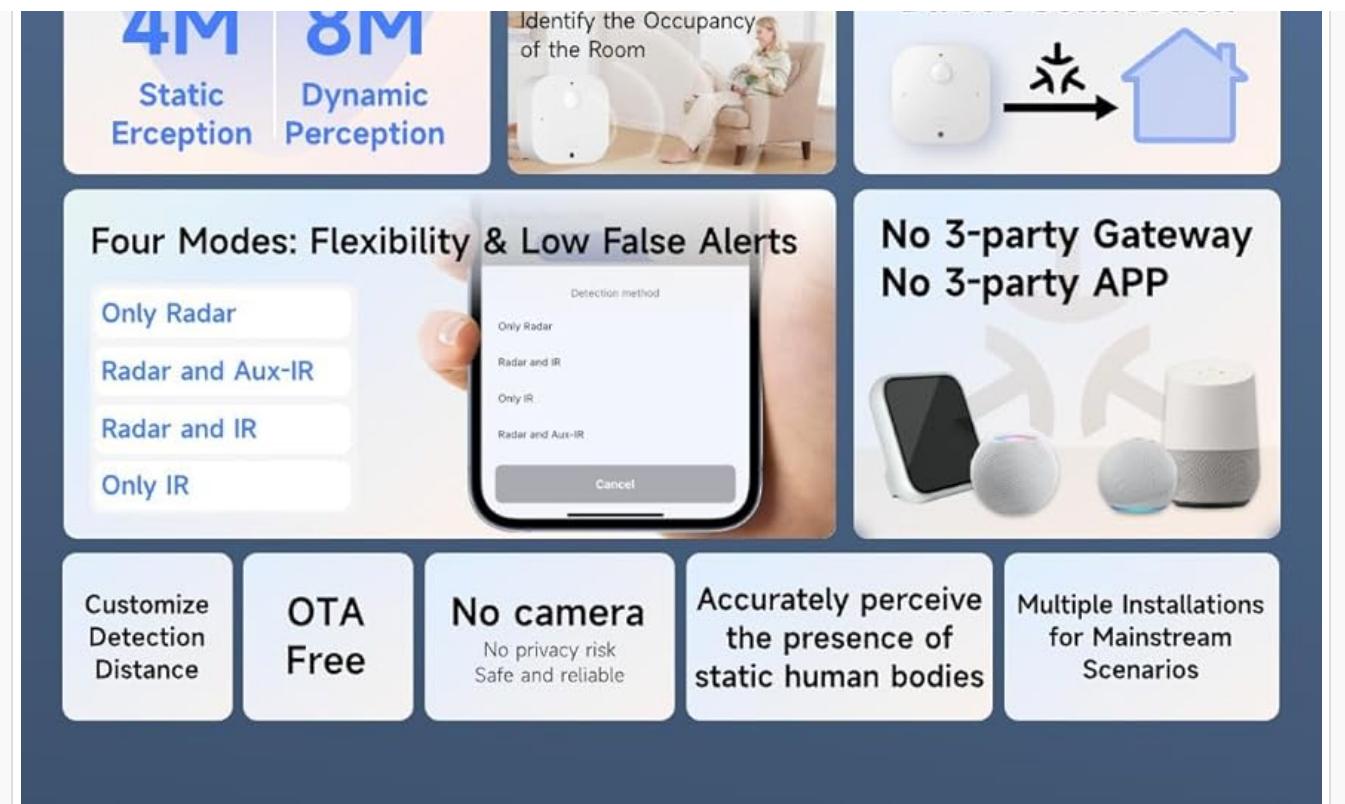
Radar

5-in-1 sensor

One sensor per space is enough  
Save money and space

Radar  
Infrared  
Light Temp HMD

Matter Direct Connection



An infographic highlighting the sensor's CSA certification, 5-in-1 capabilities, ultra-wide angle detection, hidden USB-C installation, Matter Direct Connection, and customizable detection modes.

## Box's 7 advantages

### Radar and infrared, precise recognition of human presence

People can detect small movements such as chest undulations while the light is on and not off

**8-meter detection, 130 ° ultra wide angle**



**Dual detection of radar and auxiliary infrared**

Enhanced Dual Recognition for Human Entry, Filtering Out Small Object Movements,

**4M** Static

**8M** Dynamic

Ensuring Minimum False Alarms!

## Five in one Great!

Millimeter wave radar,  
infrared, light,  
humidity,temperature

**USB-C, No Battery Anxiety**

**1-click device search**

## Built-In Magnet: Use and Attach as Needed

Official accessories support installation of tube lights, 86 boxes, brackets, etc., compatible with third-party and DIY

A summary of the seven key advantages of the sensor box, including its precise human presence recognition, wide detection range, dual detection, integrated sensors, USB-C power, easy device search, and magnetic installation.

## 3. Setup and Installation

Follow these steps to set up and install your LeTianPai Presence Sensor Box.

### 3.1 Physical Installation

The sensor box features a compact design (2.13 x 2.13 x 0.87 inches) and a built-in magnet for flexible mounting. It can be surface-mounted or embedded.

- **Magnetic Mounting:** Use the integrated magnet to attach the sensor to metallic surfaces or compatible accessories.
- **Adhesive Mounting:** For non-metallic surfaces, use suitable adhesive brackets (not included unless specified in packaging).
- **Embedded Installation:** The USB-C recess design allows for vertical wiring behind the box, enabling a clean, invisible installation in 75mm tube lamp holes or standard 86 home boxes.

## Perfectly Intelligent Design

After extensive research and testing, the Letianpai Presence Sensor Box, featuring compact dimensions of 55mm in length and width, with 18mm G2 rounded corners, enables perfect concealed installation in 75mm tube lamp holes and 86 home boxes.



## Elegant and Versatile

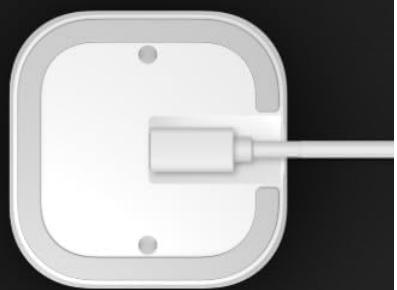


In simple white, compatible with various home decoration styles, its square rounded corners lend itself to wall decoration. It can also stand on its own on the desktop.



## Invisible

Supports Embedded Installation



The Letianpai Presence Sensor Box features a USB-C recess design that perfectly hides the wiring harness, supports vertical wiring behind the box, and achieves invisible installation for a more aesthetically pleasing appearance.

An image illustrating the compact dimensions (55mm x 55mm x 18mm) of the sensor, its elegant white design, and the recessed USB-C port for invisible wiring and embedded installation.

### 3.2 Power Connection

Connect the sensor to a power source using a USB-C cable. The device does not require batteries.

### 3.3 Pairing with Smart Home Platforms

The LeTianPai Presence Sensor Box is Matter-enabled, allowing direct integration with various smart home ecosystems.

1. Ensure your smart home hub (e.g., Amazon Alexa, Google Home, Apple Home, SmartThings) supports Matter.
2. Open your preferred smart home application.
3. Initiate the device pairing process (often labeled as "Add Device" or "Add Accessory").
4. Scan the Matter QR code located on the device or its packaging. Follow the on-screen prompts to complete the pairing.
5. Once paired, the sensor will appear in your smart home app, and you can configure its settings and automations.

# Support Multiple Application Platforms

Operate Simultaneously in Multiple Smart Home Apps



Google Home



SmartThings



Amazon Alexa



Apple Home



Screenshots demonstrating the process of scanning the Matter QR code to add the sensor to Google Home, SmartThings, Amazon Alexa, and Apple Home applications.

## 4. Operating Instructions

The sensor's multi-functional capabilities allow for diverse applications in your smart home.

## 4.1 Understanding Sensor Modes

The sensor offers configurable detection modes to suit different environments and preferences:

- **Radar Only:** Detects presence using millimeter wave radar.
- **Radar and Auxiliary Infrared:** Enhanced detection by combining radar with auxiliary infrared.
- **Radar and Infrared:** Utilizes both radar and primary infrared for comprehensive detection.
- **Infrared Only:** Detects presence using only the infrared sensor.

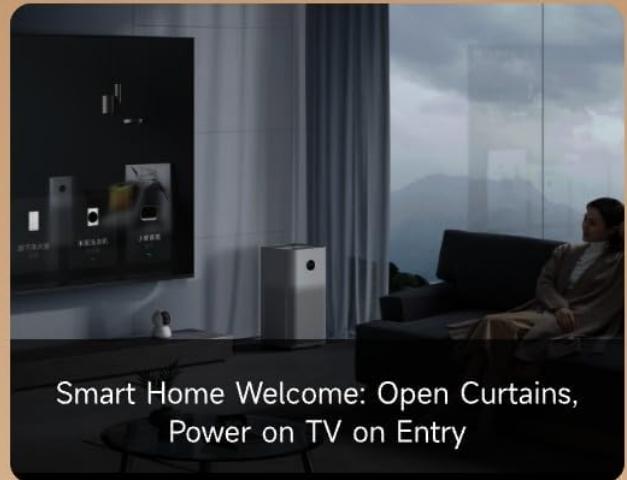
These modes can typically be adjusted within your smart home application's device settings.

## 4.2 Smart Home Integration and Scenarios

Leverage the sensor's data for various automations:

- **Lighting Control:** Automatically turn lights on when presence is detected and off when a room is vacant.  
Adjust light brightness based on ambient light levels detected by the sensor.
- **Appliance Control:** Trigger smart appliances (e.g., TV, air conditioning) upon entry or exit.
- **Home Security:** Use presence detection for security monitoring and alerts.
- **Environmental Monitoring:** Monitor temperature and humidity to adjust HVAC systems or trigger alerts.

# What is the purpose of it?



Illustrations of practical applications for the sensor, including automatic light control, smart home welcome scenes, automated cleaning triggers, and environmental adjustments based on temperature and humidity.

# Professional Chip Real-time Light Detection

The LeTianPai Presence Sensor Box incorporates

A professional illuminance recognition chip capable of detecting light intensity ranging from 0 to 10000 lux,  
Satisfying various lighting conditions throughout the day and in different locations.

0-10000 lux

Range of Illuminance Settings



A visual emphasizing the sensor's professional chip for real-time light detection, capable of measuring illuminance from 0 to 10000 lux.

## 5. Maintenance

To ensure optimal performance and longevity of your LeTianPai Presence Sensor Box, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the sensor's exterior with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or excessive moisture, as these can damage the device.
- **Firmware Updates:** Regularly check for and install firmware updates through your connected smart home application. Updates often include performance improvements, bug fixes, and new features. The device supports Over-The-Air (OTA) updates.
- **Placement:** Ensure the sensor is placed in an area free from obstructions that could interfere with its detection capabilities. Avoid direct sunlight or strong drafts that might affect temperature and humidity readings.

## 6. Troubleshooting

If you encounter issues with your LeTianPai Presence Sensor Box, refer to the following troubleshooting tips:

- **Device Not Responding:**
  - Verify the USB-C power connection. Ensure the sensor is receiving power.
  - Check your Wi-Fi network and Matter hub connectivity.
  - Attempt to restart the sensor by unplugging and re-plugging the USB-C cable.
- **Inaccurate Temperature/Humidity Readings:**
  - Ensure the sensor is not placed near heat sources (e.g., direct sunlight, vents, appliances) or in areas with significant drafts.
  - Allow some time for the sensor to stabilize after initial setup or relocation.
  - Check for available firmware updates, as these can improve sensor accuracy.
- **Slow Response in Apple Home/Other Platforms:**
  - Ensure your smart home hub and the sensor have the latest firmware.
  - Verify network stability and signal strength between the sensor and your Matter hub.
  - If issues persist, try re-pairing the device with your smart home platform.
- **Detection Issues (False Alerts or No Detection):**
  - Review the sensor's placement to ensure there are no obstructions blocking its field of view.
  - Adjust the detection mode and sensitivity settings within your smart home application.
  - Ensure the detection range is appropriate for the room size.
- **Difficulty with Manufacturer App (if applicable):**
  - Since the device is Matter-enabled, direct use of a manufacturer app may not be necessary for core functionality. Focus on integration with your primary Matter-compatible smart home platform.
  - If a specific manufacturer app is desired, ensure it is the latest version and compatible with your device.

## 7. Specifications

Specification	Detail
Brand	LeTianPai
Model Number	B1H54

Product Dimensions	2.13 x 2.13 x 0.87 inches
Item Weight	1.58 ounces
Color	White
Material	Acrylonitrile Butadiene Styrene (ABS)
Power Source	USB-type
Maximum Range	8 Meters (Dynamic Perception)
Mounting Type	Surface Mount
Compatible Devices	Alexa, SmartThings, Google Home, Apple Home (via Matter)
Operating Temperature	Up to 30 Degrees Celsius (50 Degrees Celsius Upper Rating)
Temperature Range	6E+1 Degrees Celsius (Note: User reviews indicate potential for variation)
Included Components	Light Sensor, mmWave Radar
Certification	ISO 9001, CSA Certified (Matter)

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## Related Documents - B1H54

 LeTianPai.com	<a href="#">LeTianPai Home Wireless Charging Pad - Model CAC52 User Guide</a> Official guide for the LeTianPai Home Wireless Charging Pad (Model CAC52). Learn about setup, connection, precautions, warranty, and FCC compliance.
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