

24G Millimeter wave Bio-sensing radar

R24DVD1-Human existence Tuya WiFi application manual

Please read the product instructions carefully before use and keep them properly V1.0

Contents

1. Steps of equipment distribution network routine:	2
2. Introduction to the APP panel interface	4
3. Introduction to application scenarios and functions of human presence radar:	错误! 未定义书签。
4. Detailed description of main functions of human presence radar	错误! 未定义书签。
Five, historical version update instructions	错误! 未定义书签。

1. Device distribution routine steps

1、Download through the app store: Tuya Smart APP

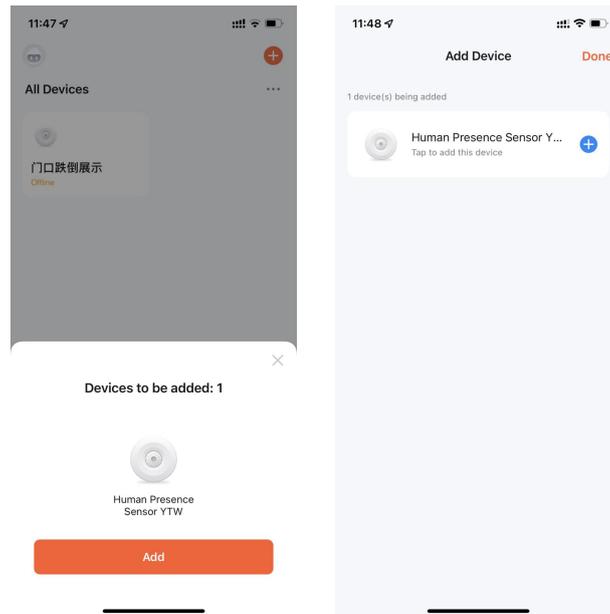


2、Press and hold the button on the product until the LED light is off and then release when it flashes. At this time, the radar resets and enters the network distribution mode. There are two ways to configure the network:

(Note: The phone needs to be connected to 2.4Gwifi, not 5Gwifi)

Method 1 (Bluetooth):

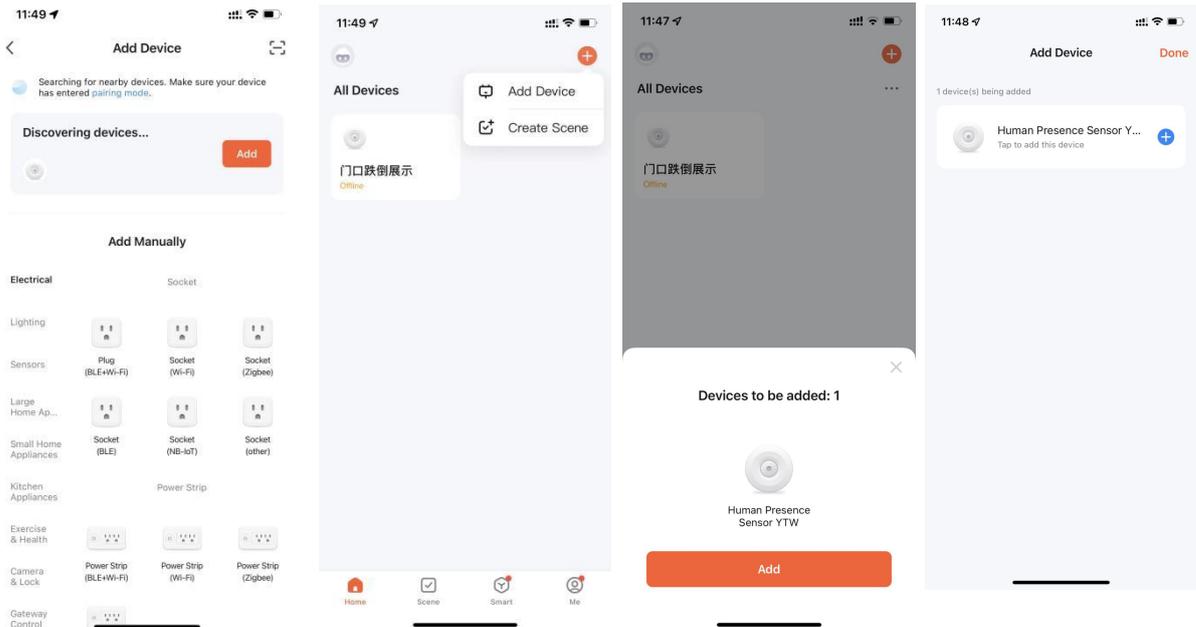
The App interface will pop up "Discover the device to be added: 1". After clicking to add, the app will automatically connect the device to the network.



Method 2 (Wi-Fi):

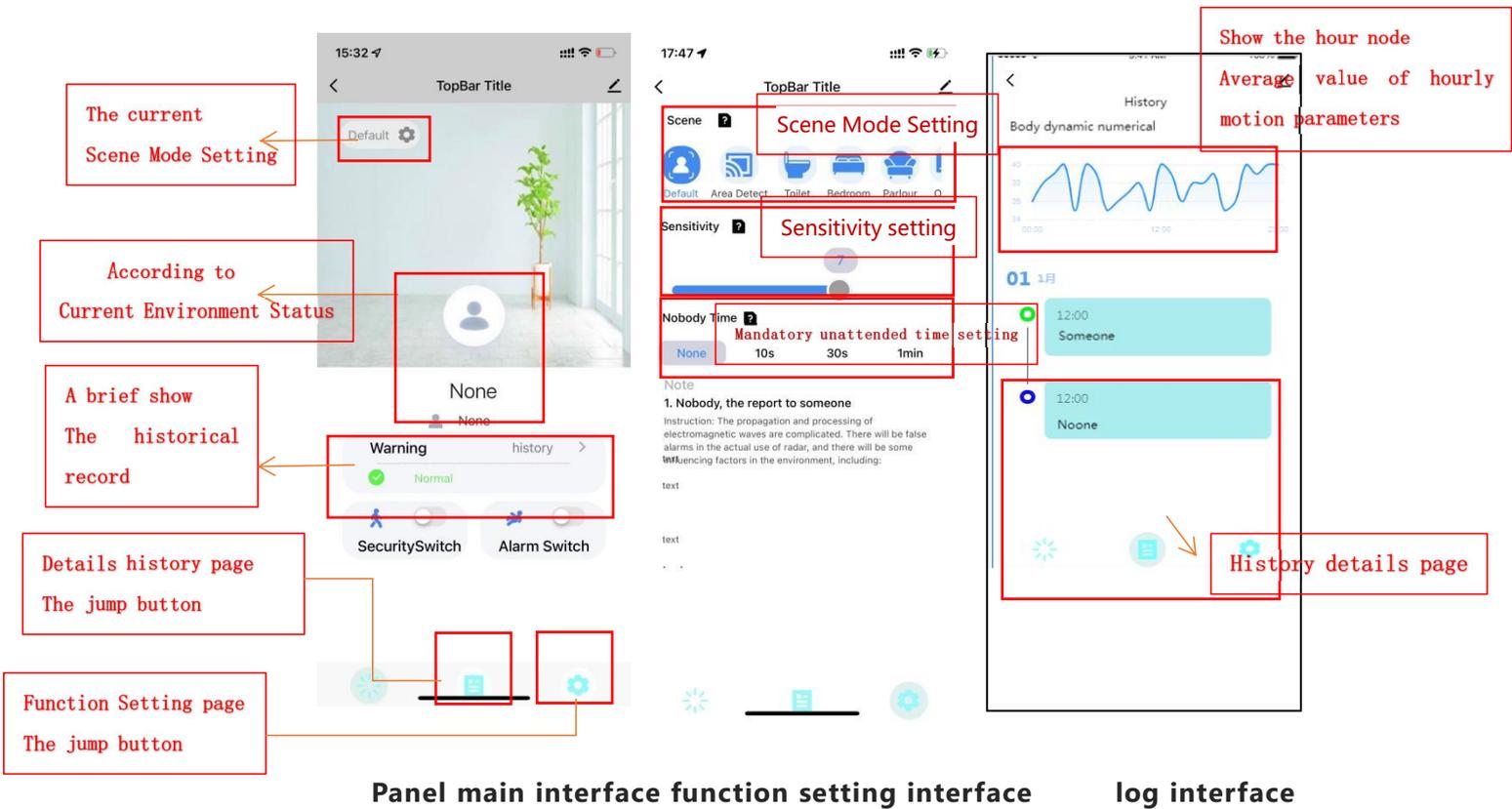
Click the "red plus sign" in the upper right corner of the APP interface to enter the product category selection page, click "Auto Discovery" in the upper right corner to search for the device, and click "Next" after discovering the device.

Fill in the relevant wifi information, and click "Next" to configure the device.



3、Wait for the APP to configure the wifi network until the network configuration is successful, then you can successfully match the Tuya wifi radar device.

2. APP panel interface introduction



3. Introduction to application scenarios and functions of human presence radar

1. Restrictions on human radar installation scenarios:

Human presence radar is only suitable for indoor scenes • It is necessary to avoid fans, etc., which will vibrate and rotate metals within the radar detection range

2. Main function points of human presence radar:

Someone/Nobody Status Judgment

一、Detailed description of main functions of human presence radar

1. Judgment of someone/nobody status:

- No Time Test:

When there is no one in the radar detection range, the radar will detect whether there is no human movement, breathing and other actions within the range for a period of time, and output the unmanned state when it is confirmed that there is no one. (It is normal to enter the unmanned state within 1min in a normal environment)

Test with default sensitivity leave the radar detection area There are no people moving around in the environment and no interference from sources of interference start the timer	When the radar status changes from someone to still - "no one stops for a moment Recording radar into dead time Less than or equal to provide data means "pass"
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Example test table format:

Testing frequency	scene mode	Sensitivity	into no man's time	pass
the first time	default scene	3	45s_	pass

- Trigger distance test:

When a person within the radar detection range enters the trigger, the radar will instantly display the presence status.

Switch between different scene	When the radar state changes from no
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<p>modes for testing</p> <p>Trigger range according to different scene modes</p> <p>Keep approaching the radar at a speed of at least 0.7m/s</p>	<p>one - "someone stops for a moment</p> <p>Record the distance to the radar</p> <p>Compare and verify with the corresponding data provided</p> <p>Greater than or equal to provide data means "pass"</p>
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Example test table format:

Testing frequency	scene mode	Test direction	document data (radius)	real data (radius)	pass
the first time	default scene	The long side	4.5 m	4.2 m	pass

● Sitting distance test:

When the person within the radar detection range remains stationary, the radar will continuously display the stationary state of the person.

<p>Test based on sensitivity "7"</p> <p>Facing the Radar Sit Test within the Radar Sit Detection Range</p> <p>5min per test</p>	<p>sit still at the corresponding distance</p> <p>Record whether the radar can keep the occupant state after sitting for 5 minutes</p> <p>If it can keep the state of people for 5 minutes, it means "pass"</p>
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Example test table format:

Testing frequency	scene mode	Sensitivity	Test direction	document data (radius)	real data (radius)	pass
the first time	default scene	3	The long side	2.5 m _	2.1 m _ _	pass

● Stateless testing:

When the detection area is unmanned, the radar will output the unmanned state after a certain period of time judgment.

<p>Leaving the detection range of the selected scene mode</p> <p>No trigger, no interference, keep for a certain period of time after entering the unmanned state</p> <p>Judging radar status</p>	<p>When the radar state</p> <p>Can hold "None" status means "Pass"</p>
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Example test table format:

Testing frequency	Whether the status is	pass
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	responsive	
the first time	Yes	pass

4. Historical version update instructions

Revision	Release Data	Summary	Author
V1.0_0606	2022/6/6	first draft	OF_Frank