THIRD REALITY R1 Smart Motion Sensor User Manual

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THIRDREALITY

THIRD REALITY R1 Smart Motion Sensor

Product Information

Specifications

- **Model:** Smart Motion Sensor R1
- **Compatibility:** Works with Zigbee hubs and platforms like Amazon **SmartThings,** Home Assistant, Hubitat, etc.
- **Installation:** Can be placed on a table or mounted on the wall

Product Usage Instructions

Setup

1. Open the battery cover on the device and remove the insulation strip to power it on.
2. If not already in pairing mode, press and hold the + button for 10 seconds to reset the sensor.
3. Follow the platform-specific instructions to add the device.

Installation

The product features an anti-slip design for placement on a table or wall mounting using screws.

- **Buckle:**
    1. Vertically place on the table.
    2. Hang on the wall.

Troubleshooting

To optimize installation location, avoid direct metal surface contact. Use a non-metallic insulating layer between

the sensor and metal surfaces.

Product Overview

- The Smart Motion Sensor R1 is designed to detect the movement of objects with high sensitivity and accuracy.
- It can be seamlessly integrated with platforms such as Amazon Alexa, SmartThings, Hubitat, Home Assistant, and the Third Reality via the Zigbee protocol.
- This enables the creation of personalized routines triggered by motion detection, such as turning on lights or sending security notifications.
- Additionally, the sensor features an adjustable sensitivity setting to tailor its performance to your specific needs.

Button functions

	Function	**Procedure**
Reset (+)	Reset Indication	Press and hold for 10 seconds
	Enhance sensitivity	Click once
LED (-)	Enable/Disable motion detect light, Decr ease sensitivity	Press and hold for 3 seconds, Click once

LED Status

Operation	**Description**
Factory Reset	The LED is illuminated.
Pairing	The LED flashes rapidly.
Motion detected	When the device is triggered, the indicator light for the current sensitivity lev el will illuminate for 1 second.
Offline Low Battery	The LED flashes once every 3 seconds. The LED flashes twice every 5 seconds.

The sensitivity indicator light will be reused with the status indicator light.

Setup

1. Open the battery cover on the device and remove the insulation strip to power the device.
2. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory

reset the sensor.

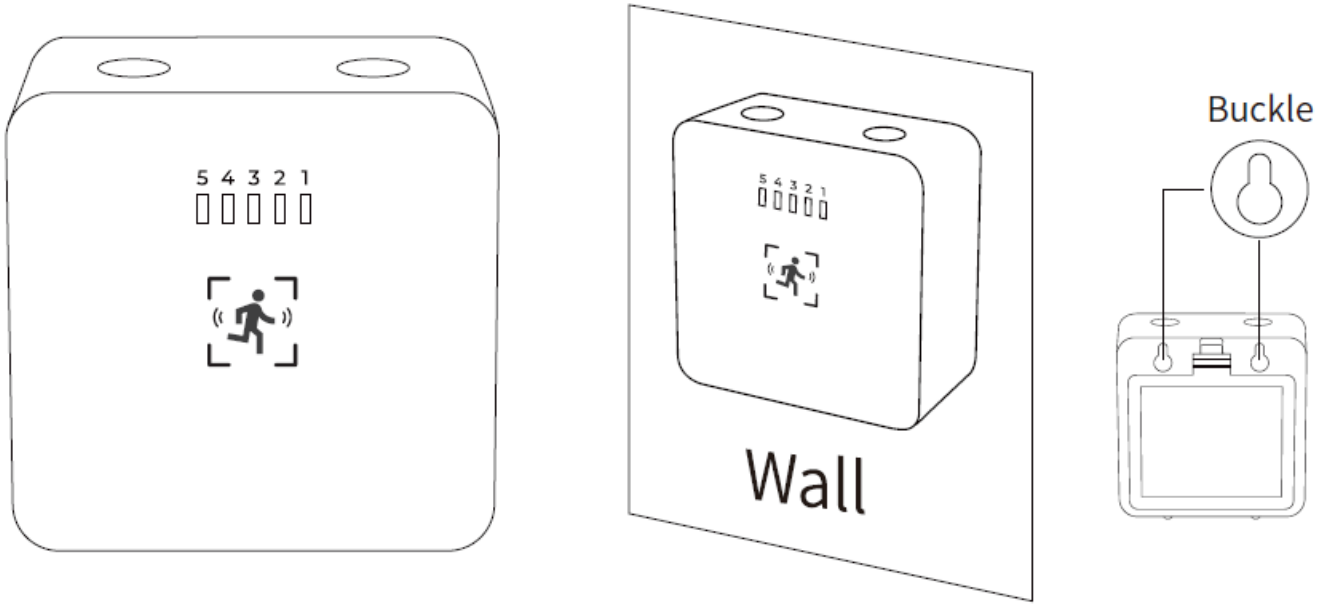
3. Follow the instructions on the platform to add the device.

Compatible Platforms

Platform	Requirement
Amazon	Echo with built-in Zigbee hub
SmartThings	2015/2018 models, Station
HomeAssitant	ZHA and Z2M with Zigbee dongle
Hubitat	With Zigbee hub
ThirdReality	Smart Hub/Bridge
Homey	Bridge/Pro
Aeotec	Aeotec Hub

Installation

The product features an anti-slip design, allowing it to be placed directly on a table or mounted on the wall using screws.



1. Vertically placed on a table
2. Hang on the wall

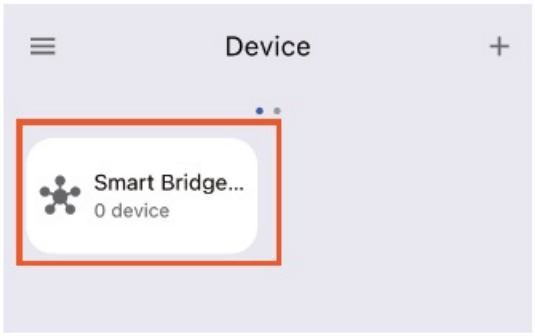
Troubleshooting

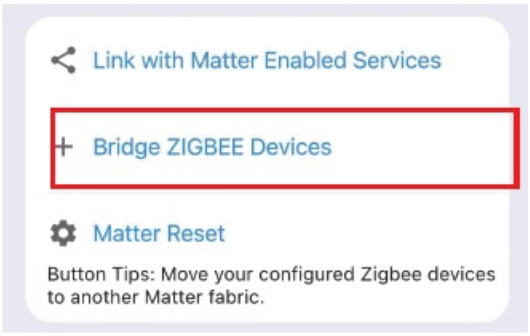
Optimize Installation Location

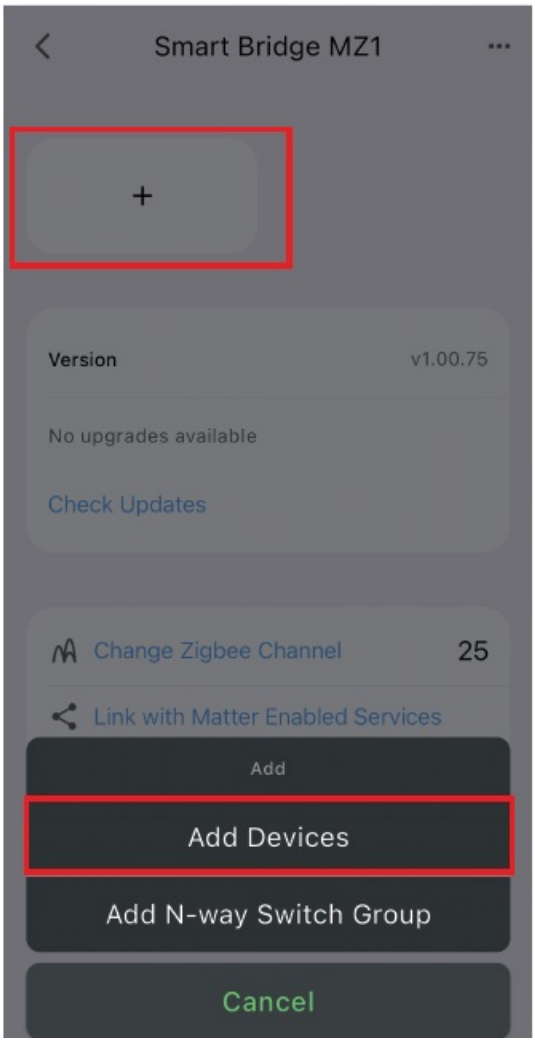
Avoid Direct Metal Surface Installation, Place a non-metallic insulating layer (e.g., plastic or rubber pad, ≥5mm thick) between the radar and the metal surface.

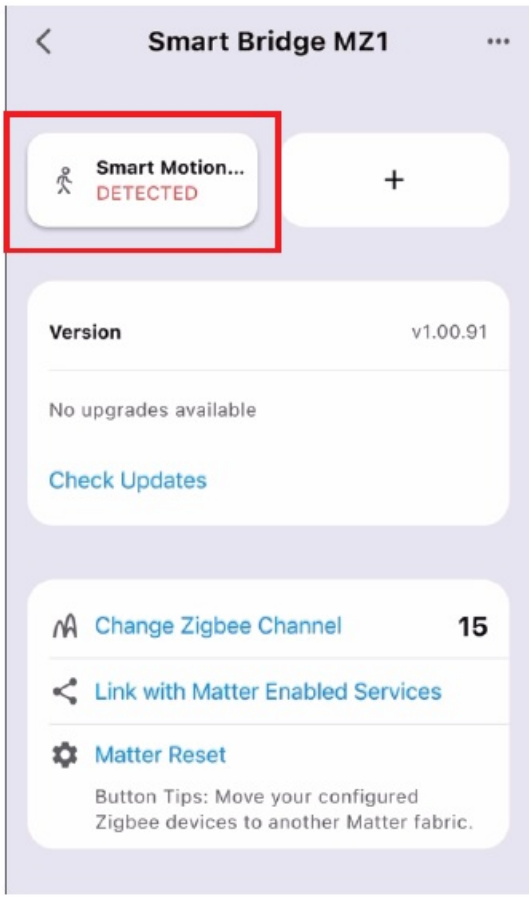
Setup with Smart Bridge MZ1

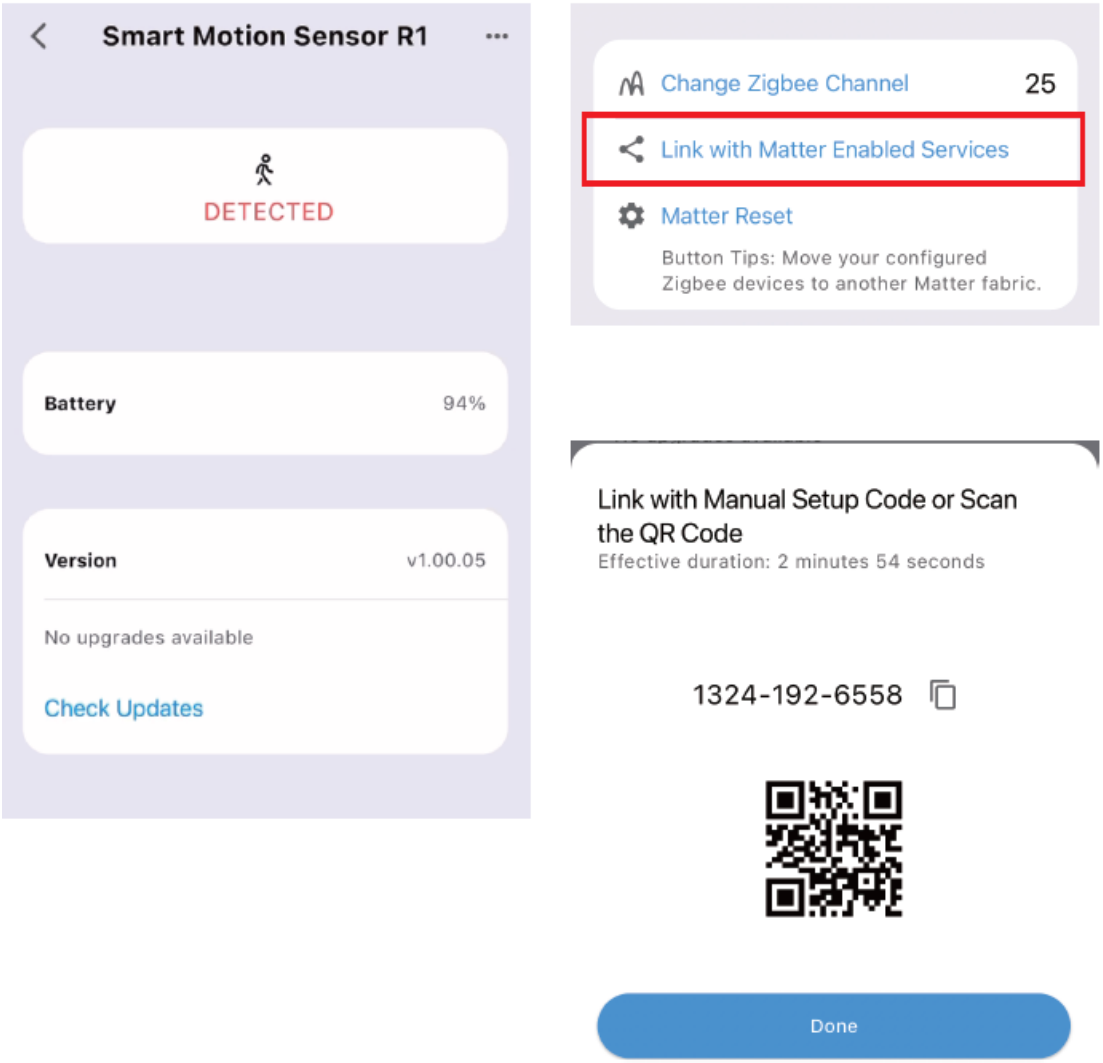
- The Smart Bridge (sold separately) enables your Zigbee device to become Matter-compatible, allowing seamless integration with major Matter ecosystems like Apple Home, Google Home, Amazon Alexa, Samsung Smart-Things, and Home Assistant.
- By setting up your motion sensor with the Smart Bridge, it transforms into a Matter compatible smart motion sensor, enabling local control through Matter.
- Third Reality also offers the 3R-Installer APP, which lets you configure Zigbee sensor attributes such as default-on behavior and perform firmware updates.
    1. Ensure your bridge is already set up within your smart home system.
    2. Open the battery cover on the device and remove the insulation strip to power the device.
    3. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
    4. Press the pinhole button on the bridge to activate Zigbee pairing mode. The Zigbee blue LED should start blinking.
    5. The sensor will pair with the bridge, and a new device will appear in your smart home app, such as Google Home or Alexa.
    6. Optionally, you can install the 3R-Installer APP and use the multi-admin feature in your smart home app to share permissions with the 3R-Installer APP.


Device
Smart Bridge...
0 device


Link with Matter Enabled Services
Bridge ZIGBEE Devices
Matter Reset
Button Tips: Move your configured Zigbee devices to another Matter fabric.

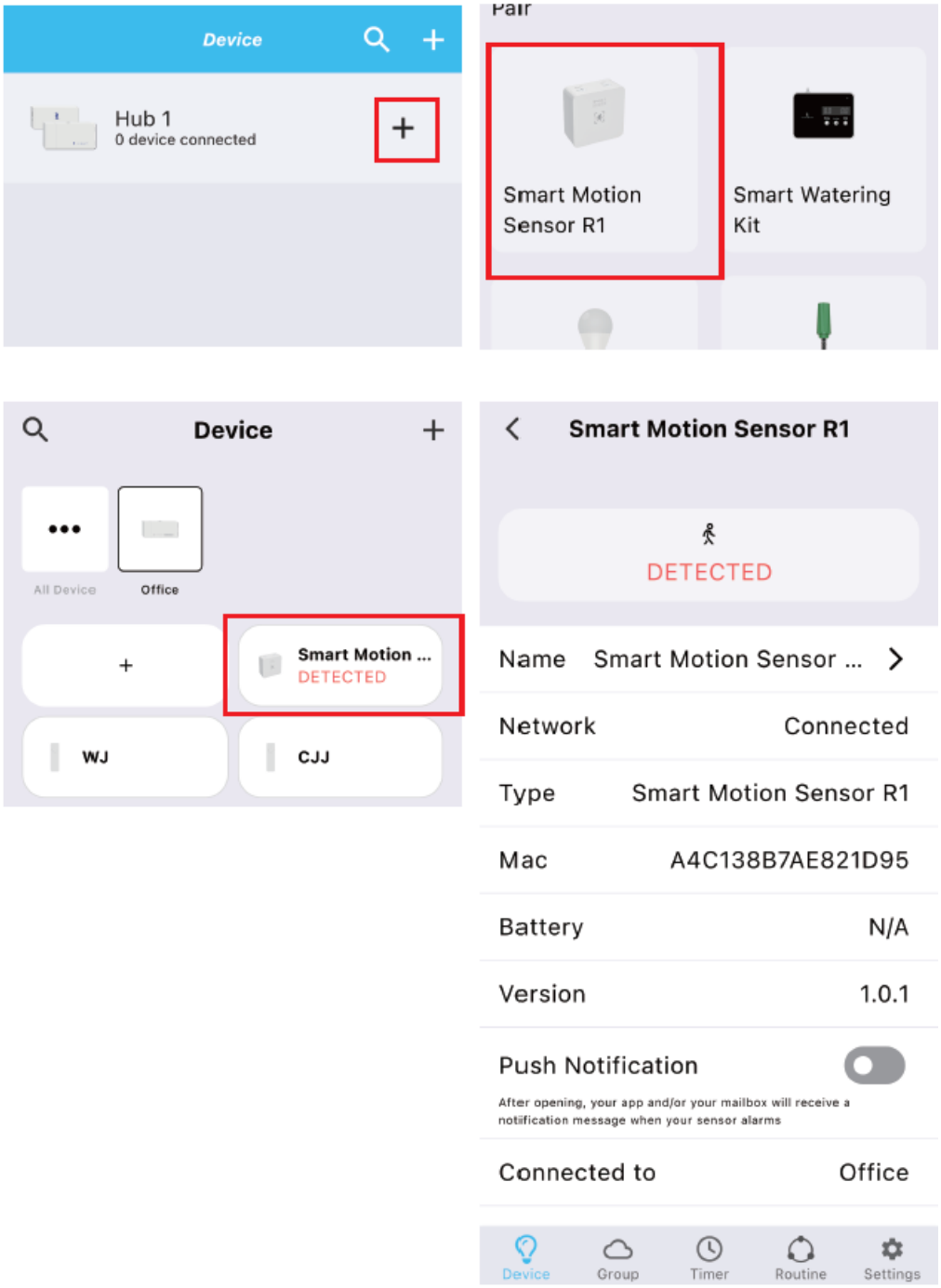

Smart Bridge MZ1
Version
v1.00.75
No upgrades available
Check Updates
Change Zigbee Channel
25
Link with Matter Enabled Services
Add
Add Devices
Add N-way Switch Group
Cancel


Smart Bridge MZ1
Smart Motion...
DETECTED
Version
v1.00.91
No upgrades available
Check Updates
Change Zigbee Channel
15
Link with Matter Enabled Services
Matter Reset
Button Tips: Move your configured Zigbee devices to another Matter fabric.



Setup with Third Reality Hub and SKILL

- The Third Reality Hub (sold separately) allows you to control your device remotely via the Third Reality APP, making it a great option for smart home beginners or those without a system from major providers.
- Additionally, the Third Reality Cloud supports SKILL integration with Google Home or Amazon Alexa, enabling you to connect your device to these platforms.
- However, due to the potential for slow and unreliable Cloud-to-Cloud connections, we recommend using the Bridge solution if Google Home or Alexa is your primary smart home platform.
    1. Ensure your hub is properly set up with Third Reality App.
    2. Open the battery cover on the device and remove the insulation strip to power the device.
    3. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
    4. Open the Third Reality APP, press the “+” icon next to the hub, and select “Quick Pair.”
    5. The sensor will pair with your hub and appear in the Third Reality APP.
    6. Optionally, you can enable the Third Reality SKILL in either the Alexa or Google Home app to enable Cloud-to-Cloud communica-tion.



Setup with Compatible Third-Party Zigbee Hubs

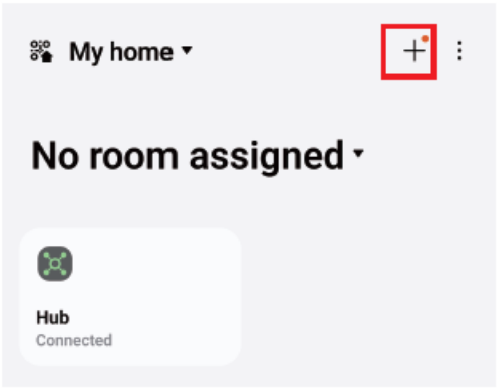
- Third Reality supports integration with various open Zigbee platforms, including Amazon Echo with built-in Zigbee, Samsung SmartThings, Home Assistant (with ZHA or Z2M), Homey and Hubitat.
- If you own any of these devices, you can pair the smart motion sensor directly without the need for an additional bridge or hub.
    1. Ensure your Zigbee Hub is already set up within your smart home system.
    2. Open the battery cover on the device and remove the insulation strip to power the device.
    3. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
    4. Open your smart home app and follow the on-screen instructions to begin the Zigbee pairing process.
    5. The motion sensor will pair with the Zigbee hub.
    6. You can now use your smart home app to create routines.

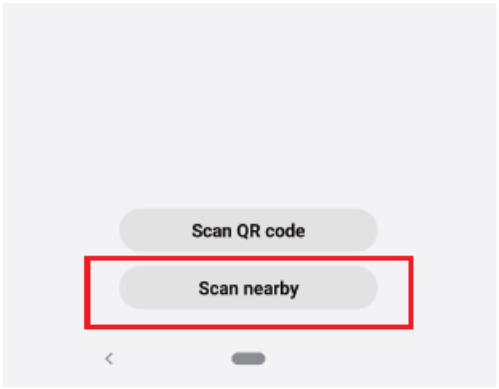
Pairing with SmartThings

- **App:** SmartThings App
- **Devices:** SmartThings Hub 2nd Gen(2015) and 3rd Gen(2018), Aeotec Smart Home Hub.

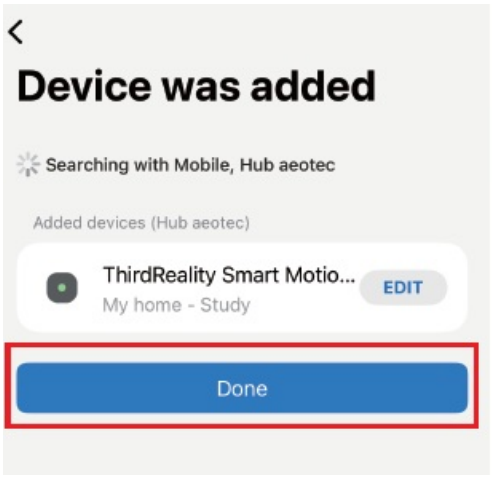
Pairing steps:

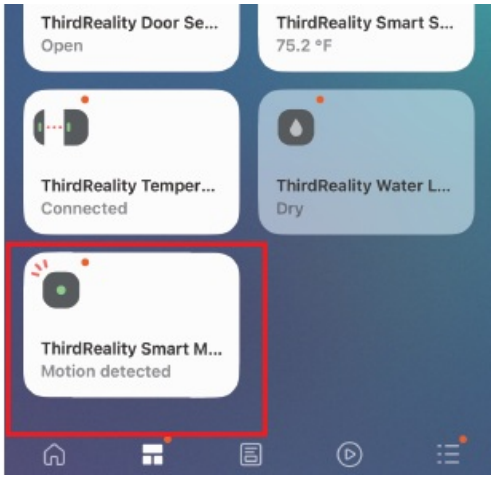
1. Before pairing, check for updates to make sure the SmartThings Hub firmware is up to date.
2. Add SmartThings drivers for ThirdReality Motion Sensor
    - Open this link in your PC browser. Log in to your SmartThings Account. **https://bestow-regional.api.smartthings.com/invite/adMKr50EXzj9**
    - Click “Enroll” –“Available Drivers” — “Install” to install the device driver.
3. Open the battery cover on the device and remove the insulation strip to power the device.
4. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
5. Open your SmartThings App, tap “+” on the upper right corner to ”Add device” and then tap “Scan nearby”.



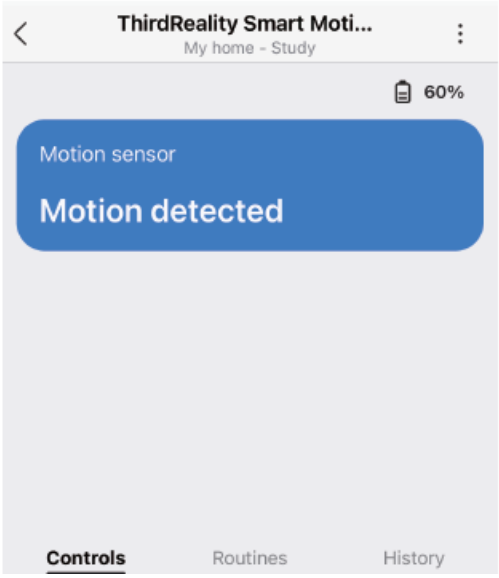


6. The motion sensor will be added to your SmartThings hub in a few seconds.





7. Create routines to control connected devices.



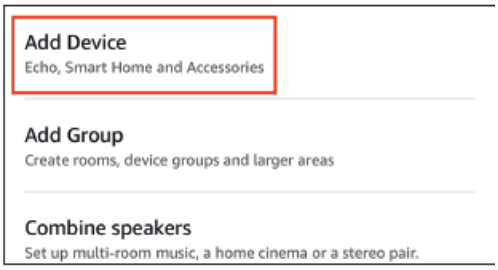
Pairing with Amazon Alexa

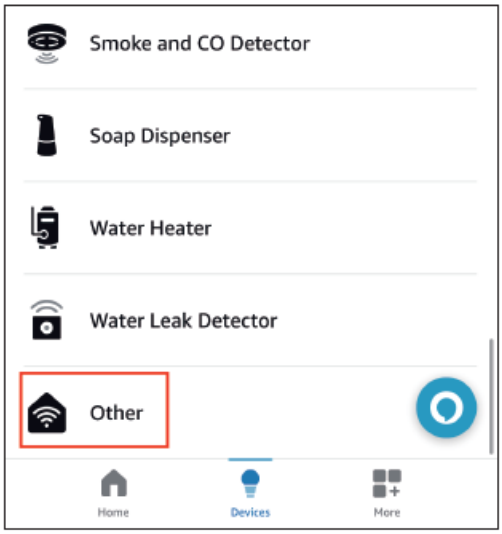
- **App:** Amazon Alexa
- **Devices:** Echo speakers with built-in Zigbee hub, Echo 4th Gen, Echo Plus 1st & 2nd Gen, Echo Studio

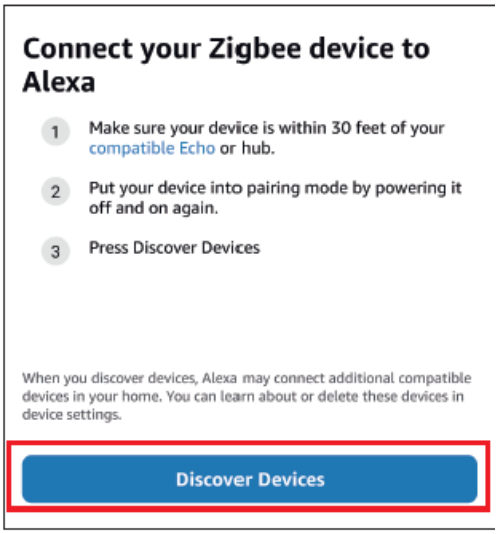
Pairing steps:

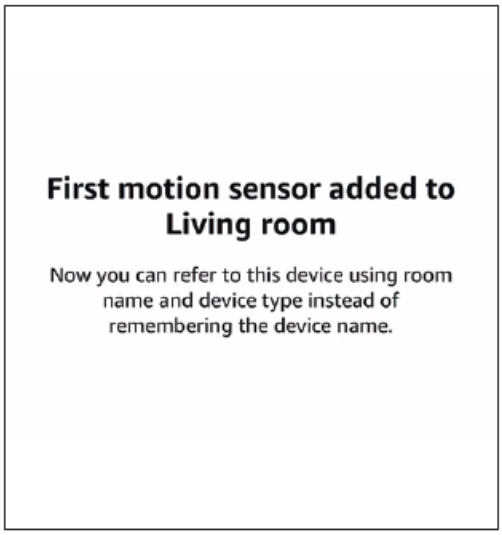
1. Ask Alexa to check for updates before pairing.
2. Open the battery cover on the device and remove the insulation strip to power the device.
3. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
4. Tap “+” in the Alexa App, choose “Other” and “Zigbee” to add device, the sensor will be added.
5. You can create routines with the device.

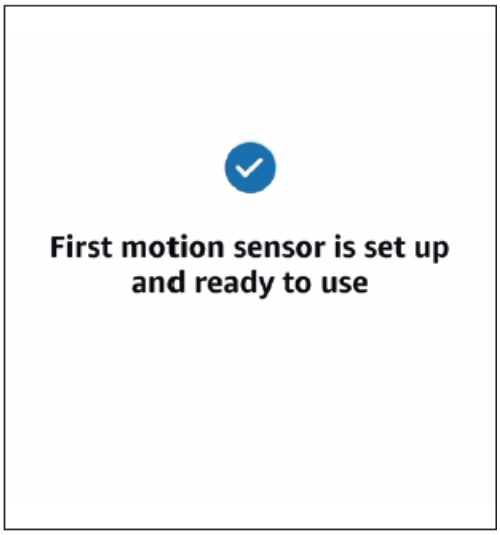
All Devices
Tina's Echo
Online
Alexa on This Phone
Online

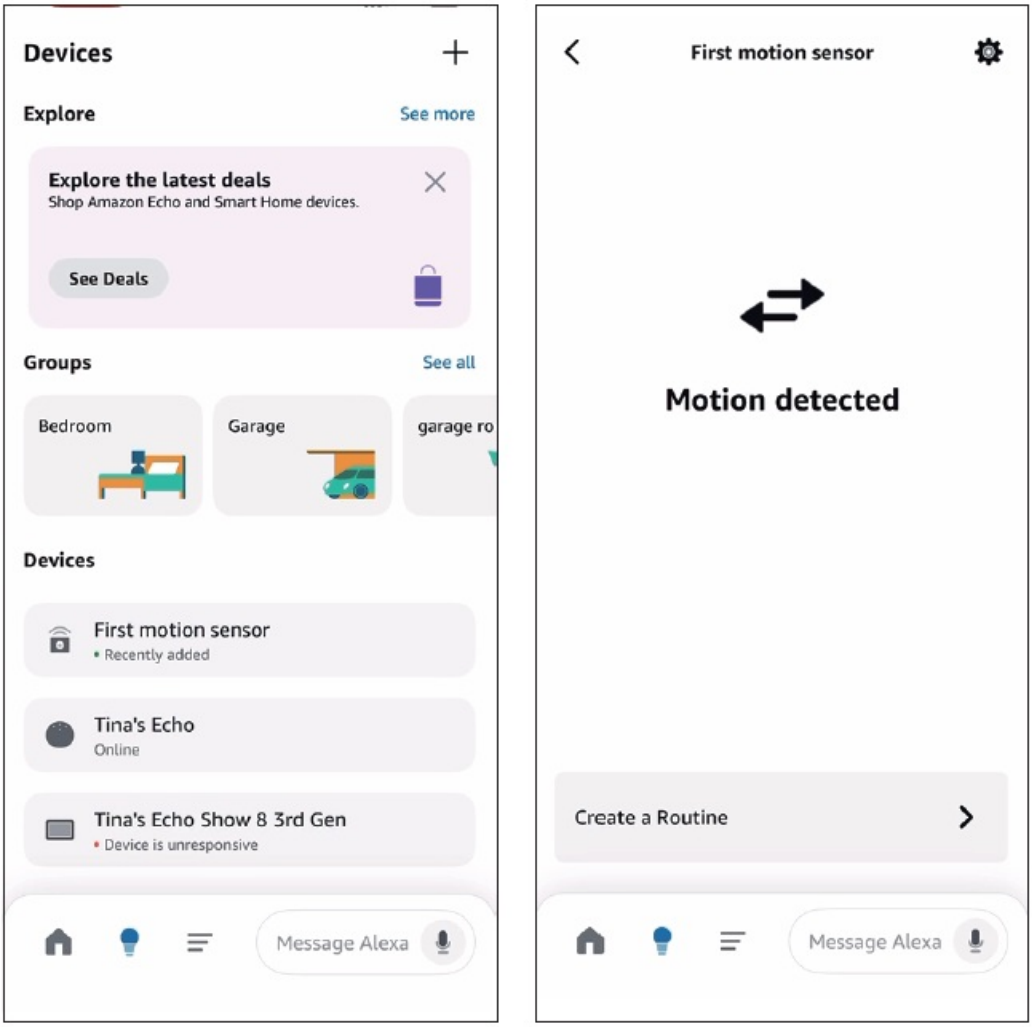

Add Device
Echo, Smart Home and Accessories
Add Group
Create rooms, device groups and larger areas
Combine speakers
Set up multi-room music, a home cinema or a stereo pair.


Smoke and CO Detector
Soap Dispenser
Water Heater
Water Leak Detector
Other
Home
Devices
More


Connect your Zigbee device to Alexa
1 Make sure your device is within 30 feet of your compatible Echo or hub.
2 Put your device into pairing mode by powering it off and on again.
3 Press Discover Devices
When you discover devices, Alexa may connect additional compatible devices in your home. You can learn about or delete these devices in device settings.
Discover Devices


First motion sensor added to Living room
Now you can refer to this device using room name and device type instead of remembering the device name.


First motion sensor is set up and ready to use

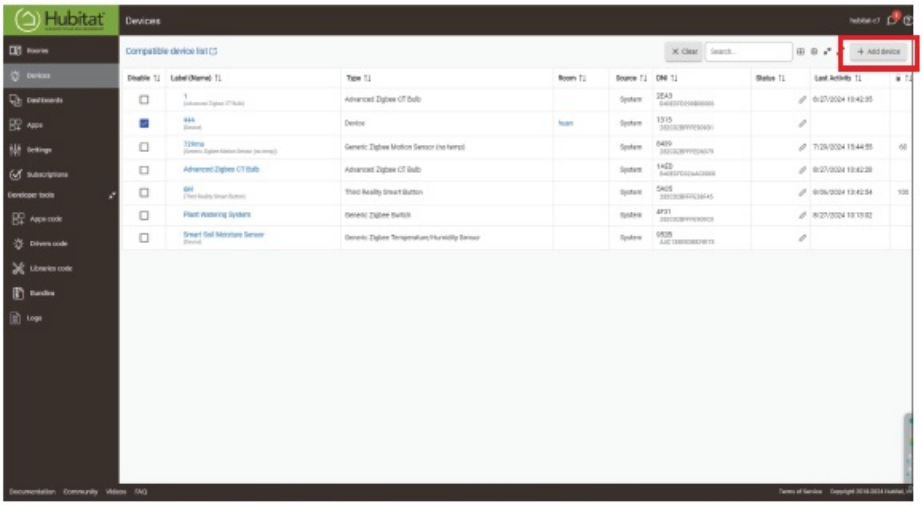


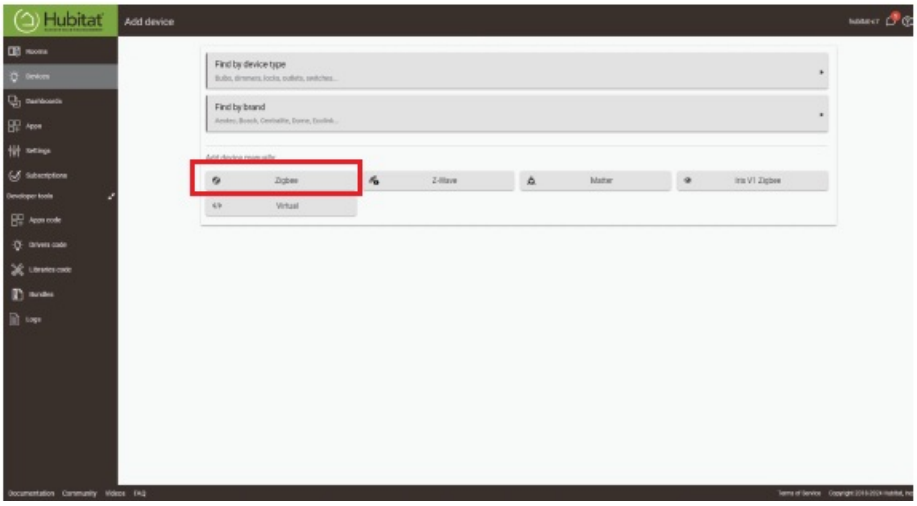
Pairing with Hubitat

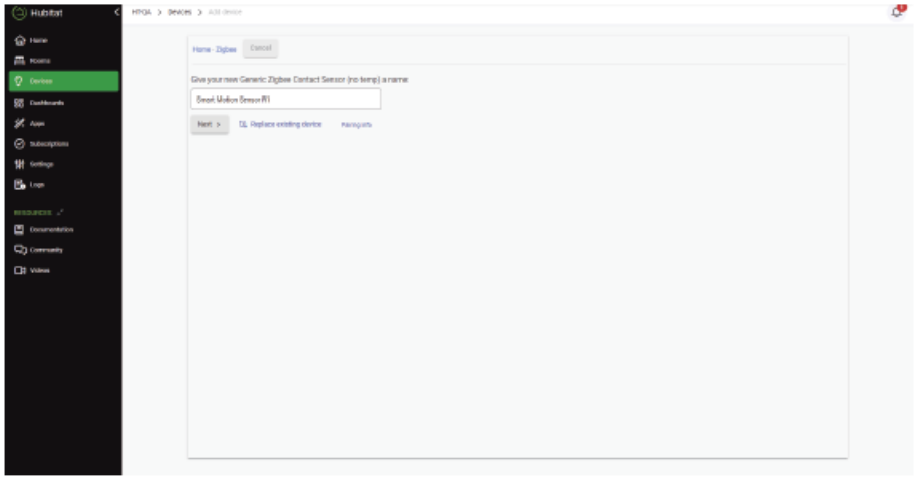
- **Website: http://find.hubitat.com/.**

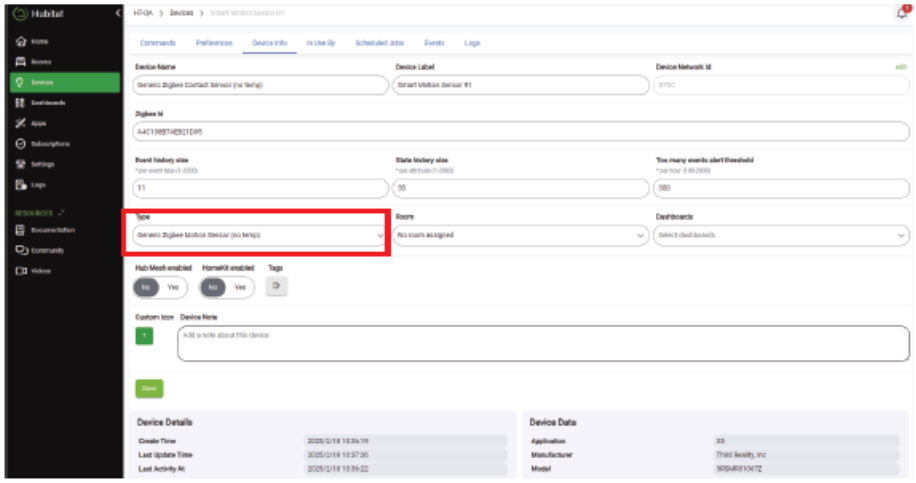
Pairing steps:

1. Open the battery cover on the device and remove the insulation strip to power the device.
2. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
3. Visit your Hubitat Elevation hub device page from your web browser, select the Devices menu item from the sidebar, then select Discover Devices in the upper right.
4. Click Start Zigbee Pairing button after you select a Zigbee device type, the Start Zigbee Pairing button will put the hub in Zigbee pairing mode for 60 seconds.
5. Pairing is completed. Change the Generic Zigbee Contact Sensor(-no temp) to Generic Zigbee Motion Sensor (no temp).
6. Tap Apps, and Create New Basic Rules.


Hubitat
Devices
Compatible device list
Add device
Rooms
Devices
Dashboards
Apps
Settings
Subscriptions
Developer tools
Apps code
Drivers code
Libraries code
Bundles
Logs
Documentation
Community
Videos
FAQ


Hubitat
Add device
Find by device type
Find by brand
Zigbee
Z-Wave
Matter
Inovelli Zigbee
Virtual
Documentation
Community
Videos
FAQ



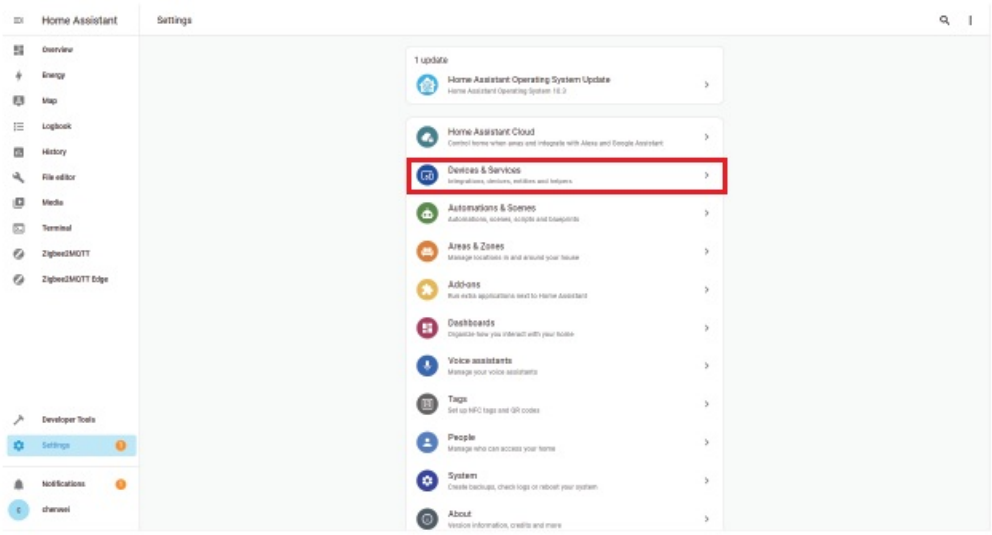


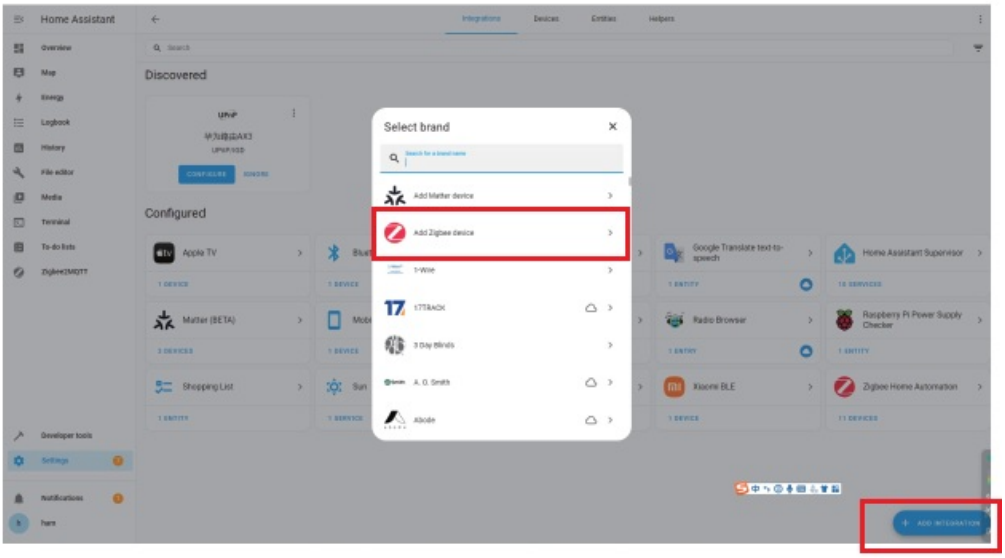
Pairing With Home Assistant

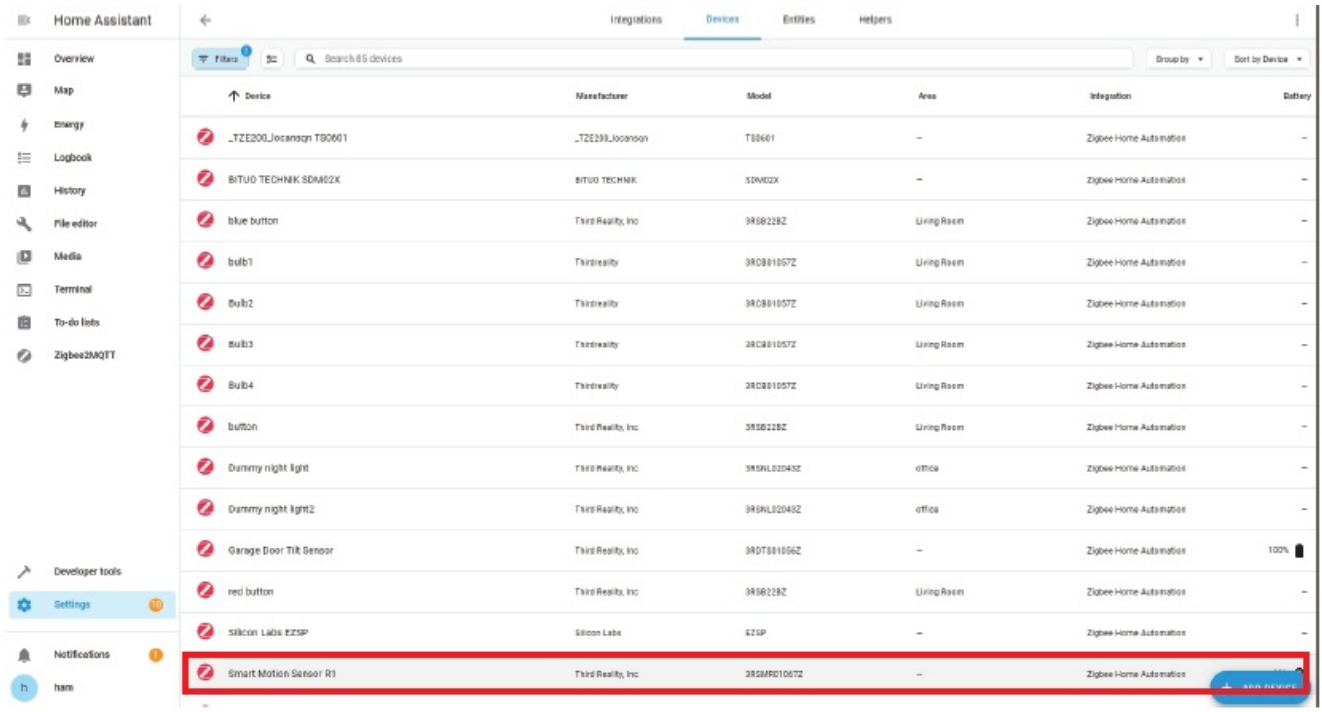
- **Device:** Zigbee dongle

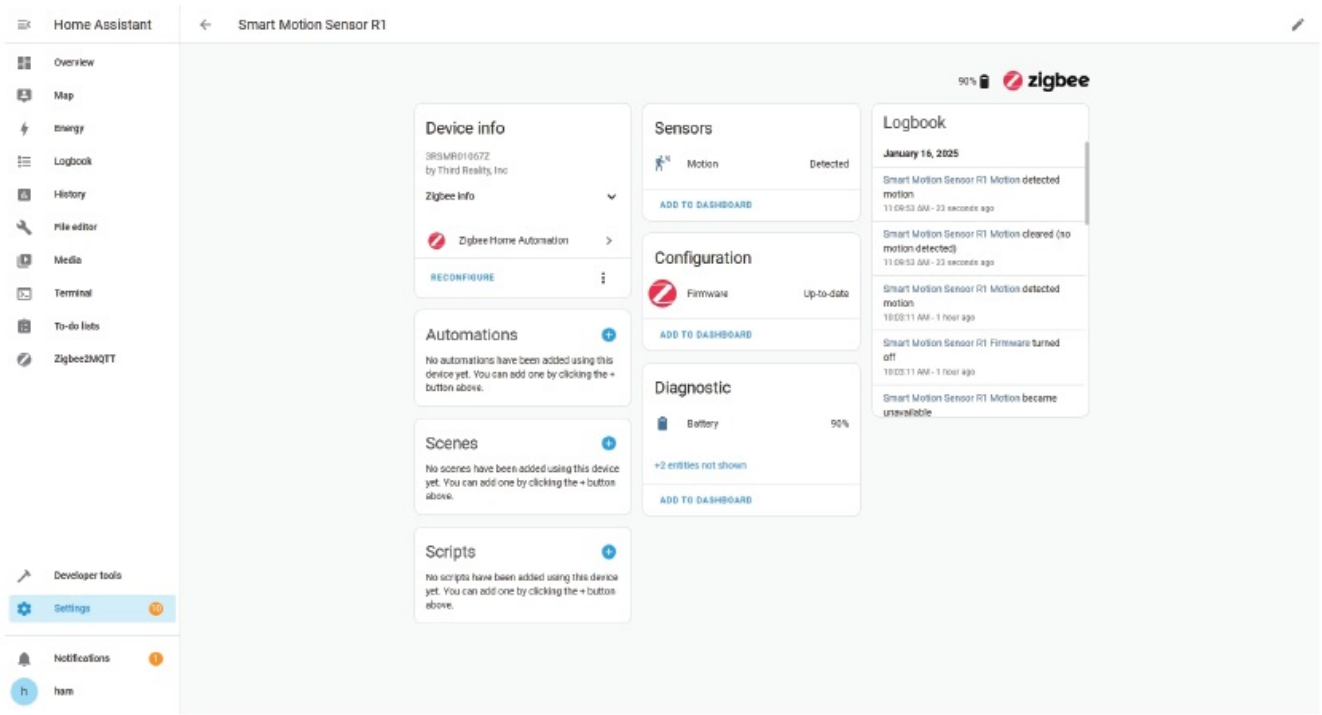
Zigbee Home Automation

1. Open the battery cover on the device and remove the insulation strip to power the device.
2. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
3. In Zigbee Home Automation, go to “Configuration” page, click “integration”.
4. Then click the “Devices” on the Zigbee item, and click “Add Devices”.
5. Pairing completed.
6. Back to “Devices” page to find the sensor added.
7. Click “+” belongs to Automation and add trigger and actions.


Home Assistant
Settings
Overview
Energy
Map
Logbook
History
File editor
Media
Terminal
Zigbee2MQTT
Zigbee2MQTT Edge
Developer Tools
Settings
Notifications
cherwei
1 update
Home Assistant Operating System Update
Home Assistant Cloud
Devices & Services
Automations & Scenes
Areas & Zones
Add-ons
Dashboards
Voice assistants
Tags
People
System
About

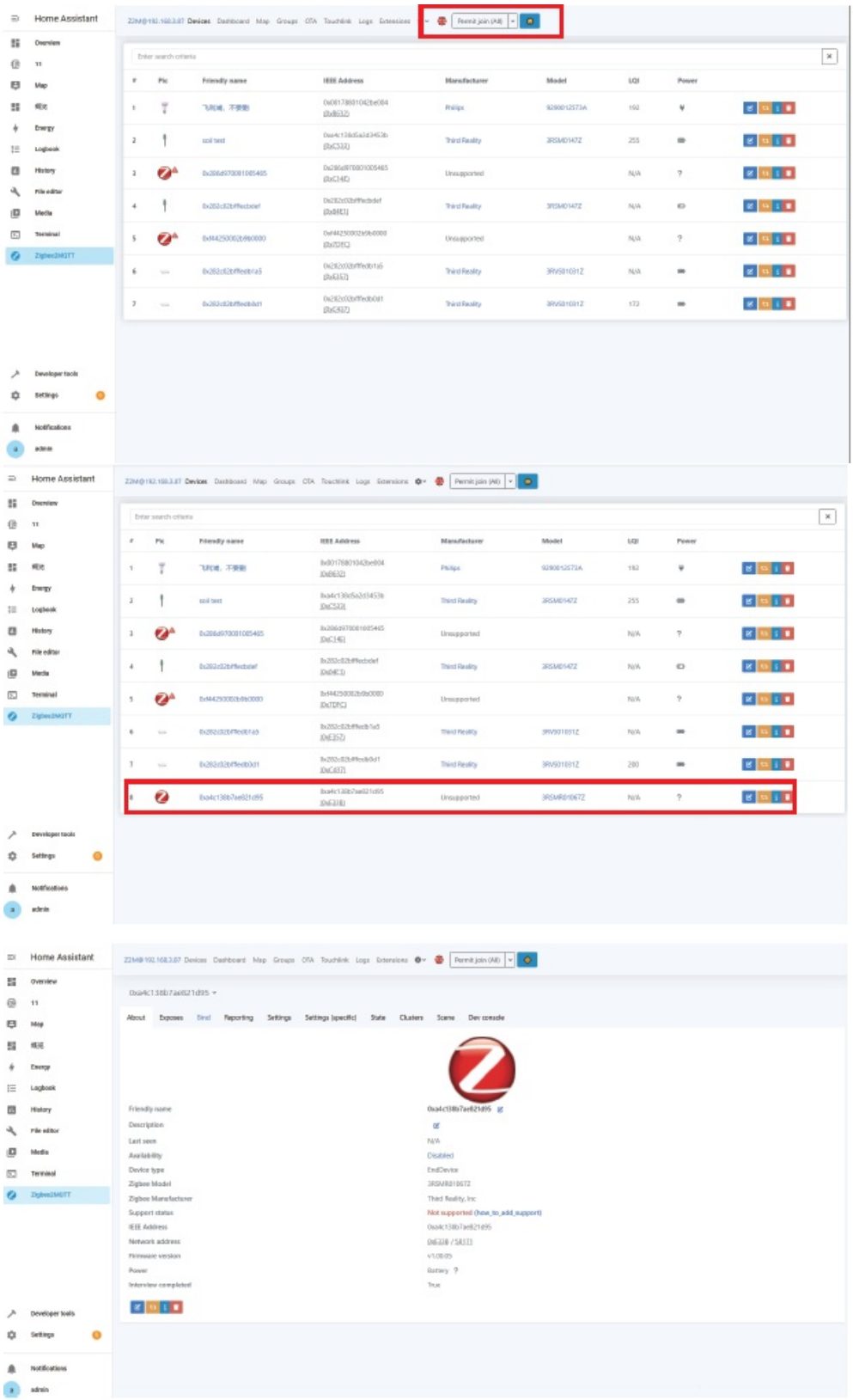

Home Assistant
Integrations
Devices
Entities
Helpers
Discovered
Configured
Select brand
Add Matter device
Add Zigbee device
Apple TV
Matter (BETA)
Shopping List
Google Translate text-to-speech
Home Assistant Supervisor
Radio Browser
Raspberry Pi Power Supply Checker
Xiaomi BLE
Zigbee Home Automation
ADD INTEGRATION





Zigbee2MQTT

1. Open the battery cover on the device and remove the insulation strip to power the device.
2. When the device is powered on, the sensitivity indicator will flash rapidly and the device will enter the Zigbee pairing mode. If the sensor is not in the pairing mode, press and hold the + button for 10 seconds to factory reset the sensor.
3. Permit join to start Zigbee pairing in Zigbee2MQTT.
4. Pairing completed, the sensor will be displayed in the device list. Go to the Settings page, create an automation.



FCC Regulatory Conformance

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference,
2. this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, under part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses and can radiate radio frequency energy, and if not installed and used under the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help with an important announcement.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

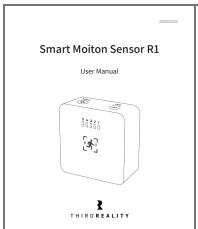
Limited Warranty

- For limited warranty, please visit **https://3reality.com/faq-help-center/.**
- For customer support, please contact us at **info@3reality.com** or visit **www.3reality.com.**
- For questions on other platforms, visit the corresponding platform's application/support platforms.

FAQ

- **How do I reset the sensor?**
  - To reset the sensor, press and hold the + button for 10 seconds.
- **What platforms is the Smart Motion Sensor R1 compatible with?**
  - The sensor is compatible with platforms such as Amazon SmartThings, Home Assistant, Hubitat, and more.

Documents / Resources

	THIRD REALITY R1 Smart Motion Sensor [pdf] User Manual R1 Smart Motion Sensor, R1, Smart Motion Sensor, Motion Sensor, Sensor

References

- Quick Start Guide

- FAQ & Help Center – ThirdReality
- SmartThings. Add a little smartness to your things.
- User Manual

Manuals+, Privacy Policy

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