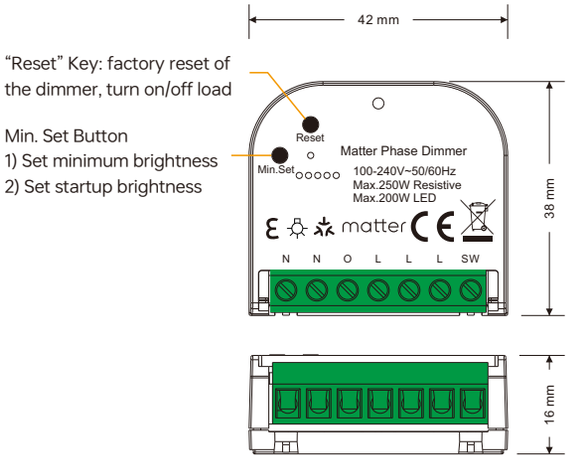
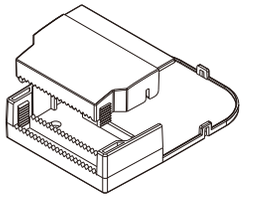
# Matter Over Thread + Zigbee Dual Tech Mini Smart Dimmer

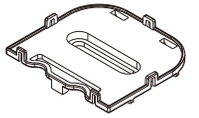
## Function Introduction

- **Important:** Read All Instructions Prior to Installation.



Accessory 1: Wire clamp cover.
Need to purchase separately.



Accessory 2: din rail bracket.
Need to purchase separately.

## Product Data

| Input | Output Voltage | Output Current | Max. Number of Parallel Connected Load | Size (LxWxH) |
|---|---|---|---|---|
| 100 | 100-240VAC | 0.1-1.1A | 6 | 42x38x16mm |

| Compatible Load Types | | | |
|---|---|---|---|
| Load Symbol | Load Type | Maximum Load | Remarks |
| | Dimmable LED lamps | 200W @ 230V<br>100W @ 110V | Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer. |
| | Dimmable LED drivers | 200W @ 230V<br>100W @ 110V | Maximum permitted number of drivers is 200W divided by driver nameplate power rating. |
| | Incandescent lighting, HV Halogen lamps | 250W @ 230V<br>125W @ 110V | |
| | Low voltage halogen lighting with electronic transformers | 200W @ 230V<br>100W @ 110V | |



## Features

- Matter over thread + Zigbee dual tech AC phase cut dimmer
- 100-240VAC wide input and output voltage
- Supports resistive loads, capacitive loads or inductive loads
- 1 channel output, up to 250W
- Input and output with screw terminals, safe and reliable
- Trailing edge dimming
- App control + touchlink remote control + green power kinetic switch control
- App control through Matter (e.g. Apple Home, Amazon Alexa, Google Home)
- Fully compatible with universal Matter ecosystems from different manufacturers
- Can be voice controlled through Apple Siri, Google Assistant, Amazon Alexa
- Mini Size, easy to be installed into a standard wall box
- Waterproof grade: IP20

**Main Features:**

- Can operate under two-wire connection with no neutral lead or three-wire connection with neutral lead
- Advanced microprocessor control
- Implemented algorithm of smart light source detection
- Active power and energy metering functionality
- Soft start function
- Innovative minimum dimming level and startup brightness setting function
- Works with various types of switches – momentary, toggle,etc.
- Active element: semiconductor electronic switch
- To be installed in wall switch boxes of dimensions allowing for installation, conforming to provisions of applicable regulations
- The Bypass is an extension unit

**As a dimmer it operates under the following loads:**

- Conventional incandescent and HV halogen light sources
- ELV halogen lamps and dimmable LED bulbs (with electronic transformers)
- MLV halogen lamps (with ferromagnetic transformers)
- Dimmable LED bulbs

## Safety & Warnings

- DO NOT install with power applied to the device.
- DO NOT expose the device to moisture.

## Operation

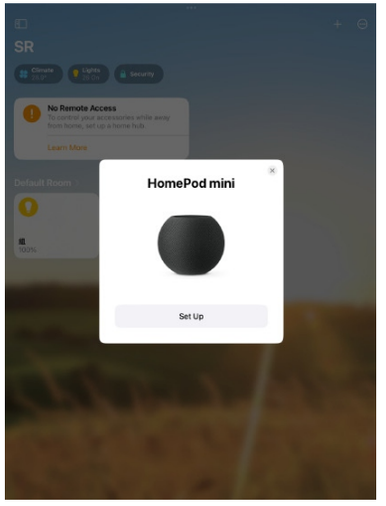
1. Do wiring according to connection diagram correctly. (See P9-10)
2. This Matter thread device is a wireless receiver that communicates with a variety of Matter compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible Matter system.

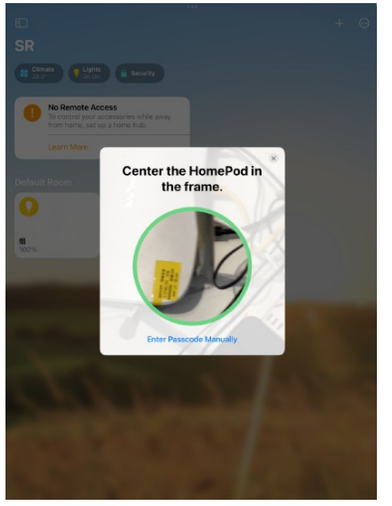
## 3 Add to a Matter gateway and control through the gateway:

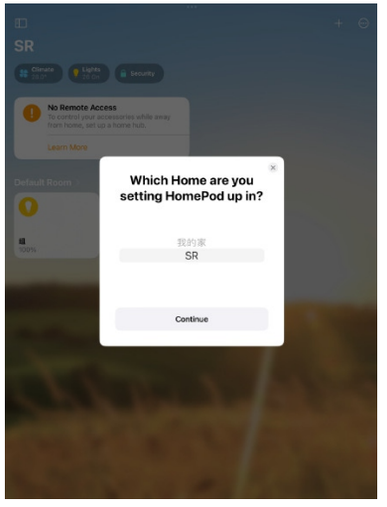
**Note:** An Apple HomePod mini is used as a Matter border router for adding and controlling the device. For other Matter border routers, please refer to their user manuals to learn how to add and control Matter devices.

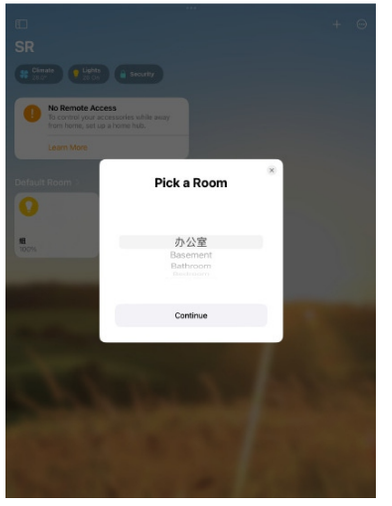
**Step 1:** Prepare an iPhone (iOS 16.2 or later) or iPad (iPadOS 16.2 or later) with the latest version firmware, and prepare an Apple HomePod mini with the latest version firmware.

**Step 2:** Connect the iPhone or iPad to your home WLAN network. Run the Apple Home app and set up the HomePod mini as instructed by Apple (as shown in Figure 1 to Figure 7).

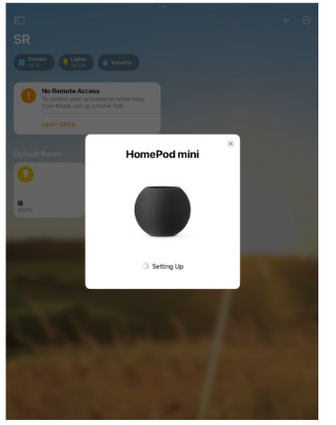
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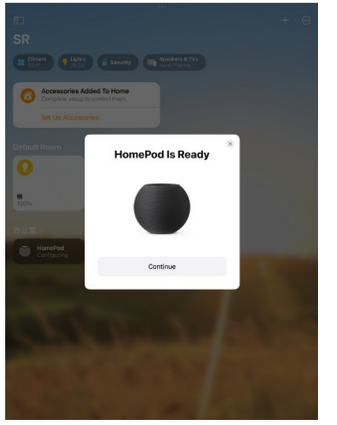

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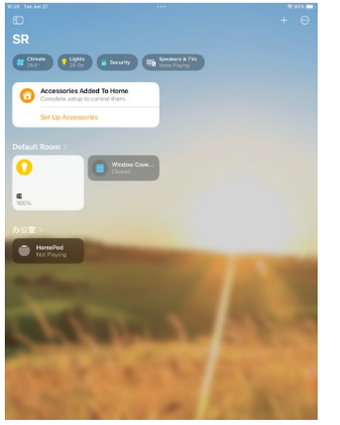

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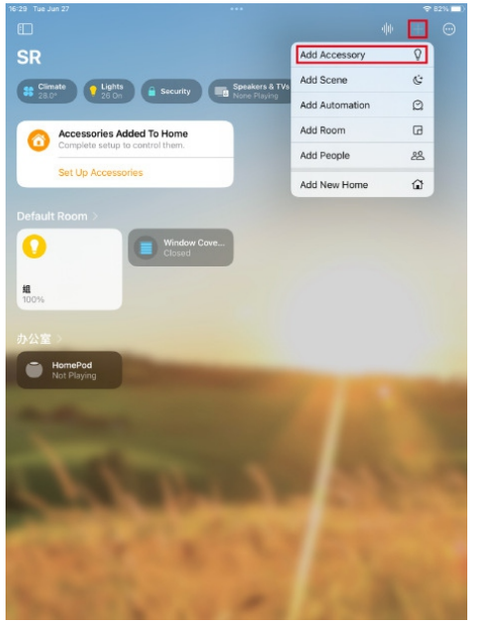

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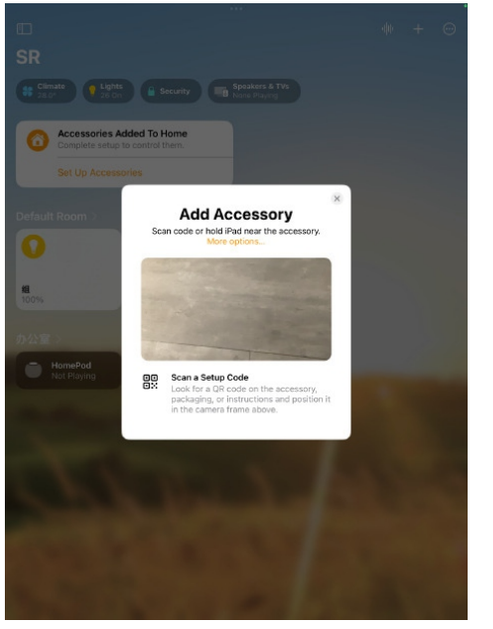

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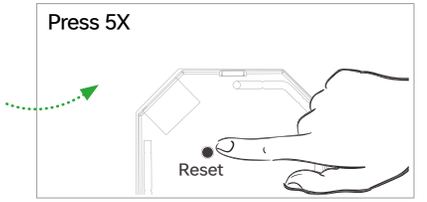

**Step 3:** Do wiring of the Matter thread dimmer according to the wiring diagram (See P9-10) and power on it.

**Step 4:** Add the Matter thread dimmer to the Apple Home app by scanning the QR code sticker on the dimmer as shown in Figure 8 to Figure 15.

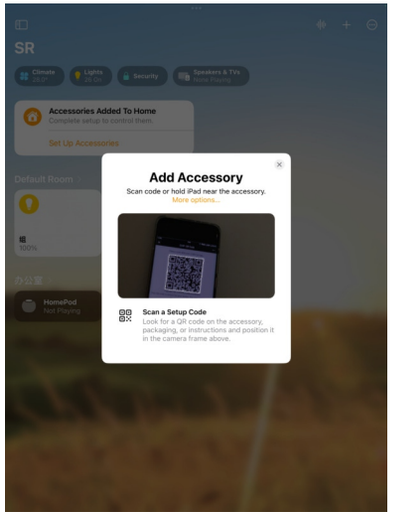
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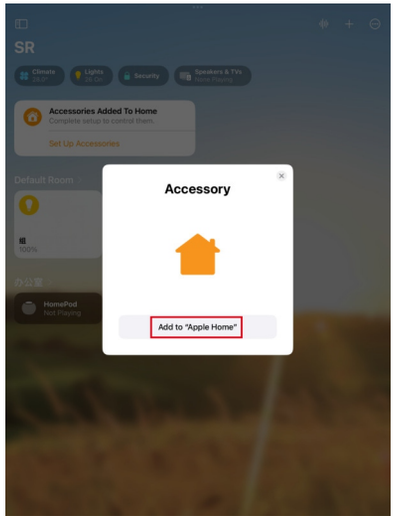
**Note:** Before scanning the QR coder sticker on the dimmer as shown in Figure 10, short press the reset button 5 times to reset the dimmer so that it can be discovered by the Apple Home app. Otherwise if it has already been added to another gateway, current gateway can not discover and add it.



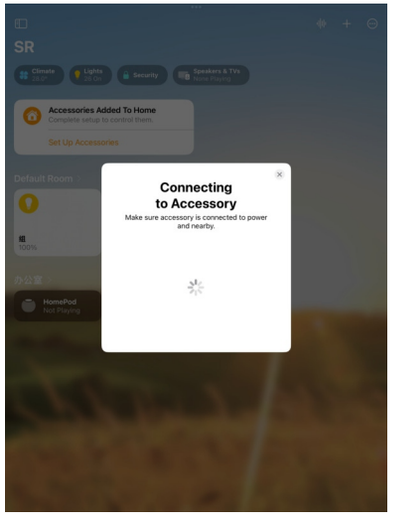

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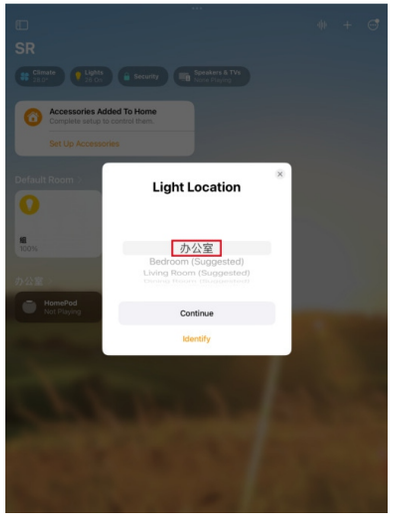

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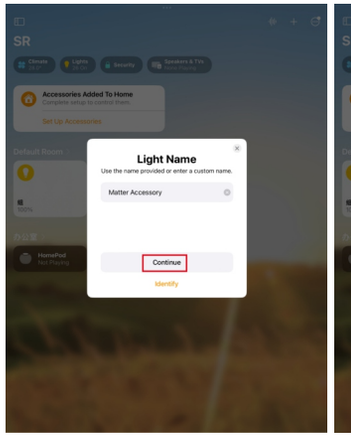



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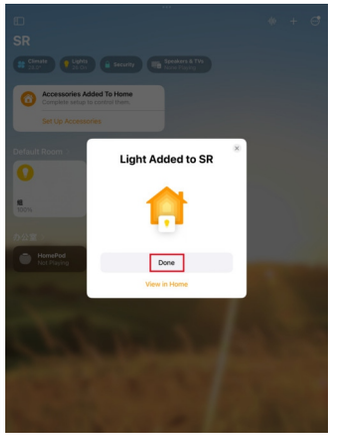





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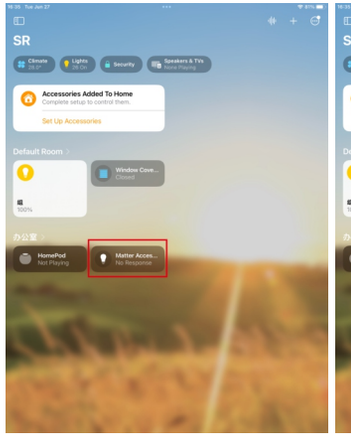

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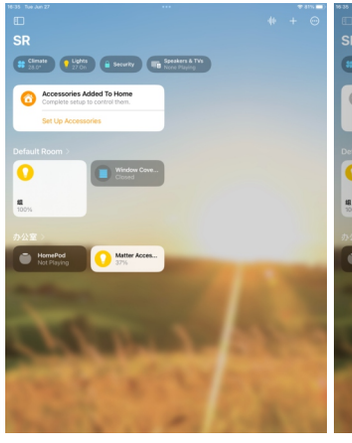

**Note:** When choose the room that you would like to add the dimmer to, please make sure to choose the same room that the HomePod mini is located as shown in Figure 13.

**Step 5:** Once the dimmer is added to the gateway successfully, tap on the device to control on/off and brightness of the dimmer as shown in Figure 16 to Figure 18.

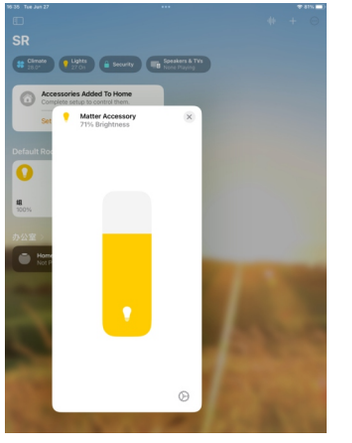
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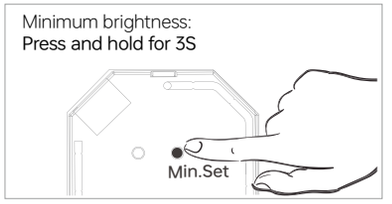

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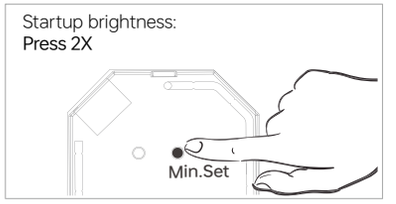

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## 4 Minimum and Startup Brightness Setting Button




Press and hold down the button for 3 seconds to set minimum brightness: when current brightness value is 1%-50%, it will be set as minimum brightness. When current brightness value is 100%, previously set minimum brightness will be deleted. Once a minimum brightness is set, the connected load can not be dimmed below this level.




Short press the button twice to set startup brightness: when current brightness value is 1%-50%, it will be set as startup brightness. When current brightness value is 0%, previously set startup brightness will be deleted.

**Note:**

startup brightness setting function is to avoid the phenomenon that some dimmable LED drivers can not be turned on after dimmed to a low level and turned off. Once setting a startup brightness, if the startup brightness is higher than dimmed level before turned off, the driver will first go to the startup brightness after turned on then drop down to the dimmed level. If the startup brightness is lower than the dimmed level before tured off, the driver will directly go to the dimmed level after turned on.

## 5 Touchlink to a Zigbee remote

**Step 1:** Short press "Reset" button 4 times to start Touchlink pairing.

**Step 2:** Bring the remote within 10cm of the receiver.

**Step 3:** Set the remote into Touchlink pairing, please refer to its manual.

**Step 4:** There shall be indication on the remote for successful link and the connected light will flash.

**Note: There are two control situations:**

**1. Only one remote, to control one or more receivers:** directly perform Touchlink pairing between the remote and the receiver.

**2. Only one receiver, to be controlled by multiple remotes, or multiple remotes and multiple receivers with cross-control:** use one receiver as the Zigbee hub, add all remotes and other receivers to the hub, and then perform Touchlink pairing between the remotes and the receivers. The steps are as follows:

**Step 1:** Use one receiver as the Zigbee hub and short press "Reset" button 4 times to start adding Zigbee devices.

**Step 2:** Reset power of another receiver once to enter Zigbee network pairing mode, it will be added by the hub, and the connected light will flash.

**Step 3:** Set a Zigbee remote to enter Zigbee network pairing mode, it will be added by the hub, and the indicator will flash to indicate.

**Step 4:** Add more receivers and remotes to the hub as you would like, refer to the corresponding remote manual.

**Step 5:** Touchlink the added receivers and the remotes.



## 6 Learning to a Zigbee Green Power Switch

**Step 1:** Short press "Reset" button 4 times to start Learning mode.

**Step 2:** Set the green power switch into Learning mode, please refer to its manual.

**Step 3:** There shall be indication on the switch for successful learning.

**Note: There are two control situations:**

**1. Only one receiver, to be controlled by multiple GP switches:** directly perform pairing between the GP switch and the receiver.

**2. Only one GP switch, to control multiple receivers, or multiple GP switches and multiple receivers with cross-control:** use one receiver as the Zigbee hub, add all other receivers to the hub, and then pair the GP switch with the receiver. The steps are as follows:

**Step 1:** Use one receiver as the Zigbee hub and short press "Reset" button 4 times to start adding Zigbee devices.

**Step 2:** Reset power of another receiver once to enter Zigbee network pairing mode, it will be added by the hub and the connected light will flash.

**Step 3:** Add more receivers to the hub as you would like.

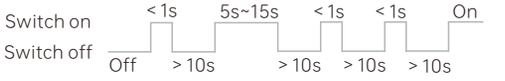
**Step 4:** Pair the added receivers with the GP switches.

## 7 Controlled by a push switch

Once connected with a push switch, click the push switch to switch ON/OFF, press and hold down it to increase/decrease light intensity.

## 8 Restore factory settings

To restore the factory settings, short press the "Reset" button 5 times or switch the device power on and off in the following sequence.



## Wiring Diagram

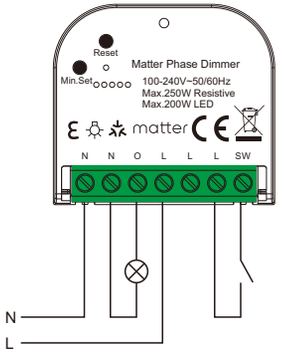
*** Notes for the diagrams:**

**L** - terminal for live lead
**N** - terminal for neutral lead
**O** - output terminal of the dimmer (controlling connected light source)
**SW** - terminal for switch

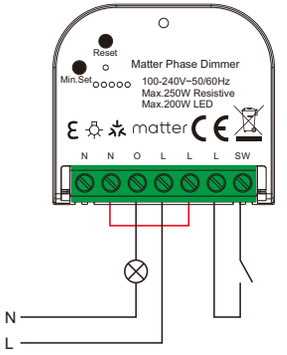
*** Supported Switch Types:**
**The switch types this device supports can be configured by factory setting:**

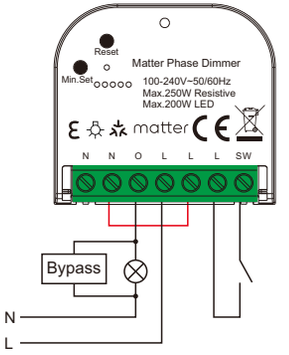
1. Push Switch (factory default setting)
2. Toggle On/Off Switch (can be configured by factory setting upon request)

Method 1: With neutral




Method 2: Without neutral




* When using the device without neutral, the smart dimmer requires at least 20W @ 240 VAC of power consumption to operate. If the connected light has a smaller power consumption, then Bypass is needed for the device to work.