## Operation

**1. Do wiring according to connection diagram correctly.**

**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 platform and control through the platform:**

**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**).

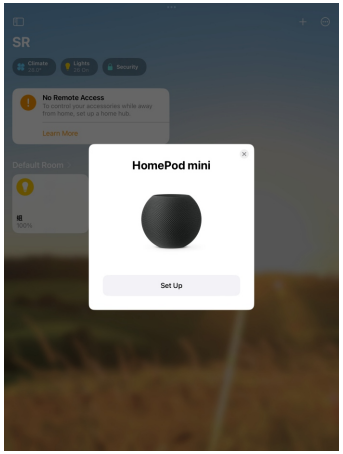



Figure 1

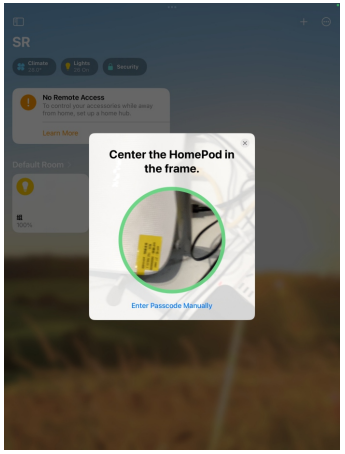



Figure 2

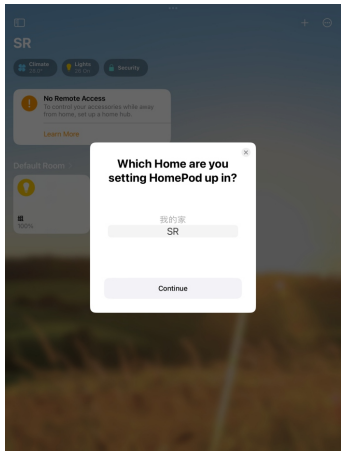



Figure 3

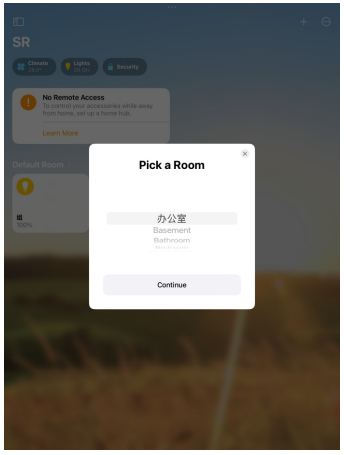



Figure 4

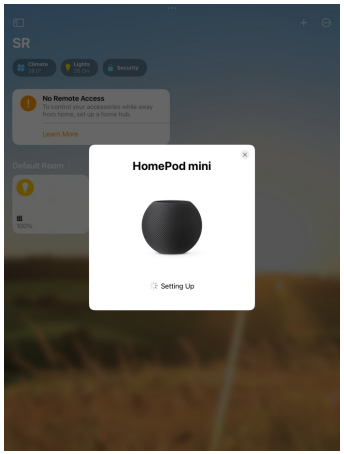



Figure 5

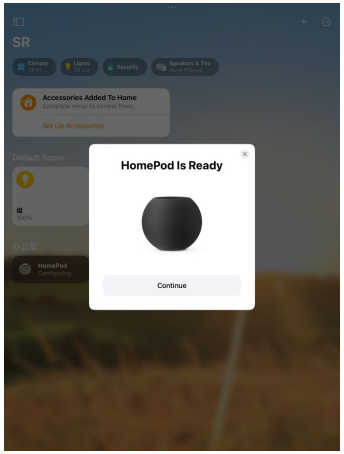



Figure 6

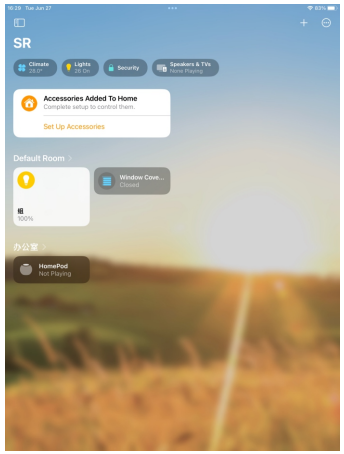


Figure 7

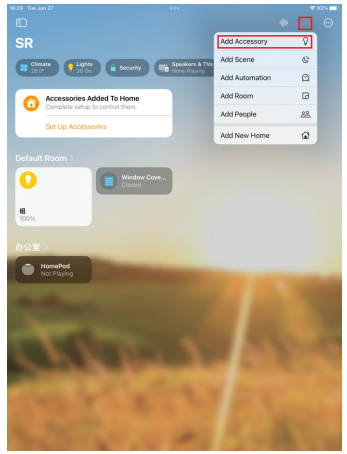



Figure 8

**Step 3:** Do wiring of the Matter thread dimmer according to the wiring diagram 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**.

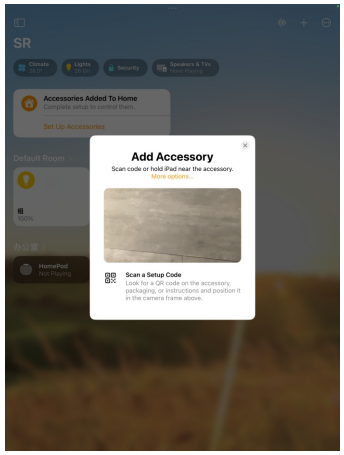



Figure 9

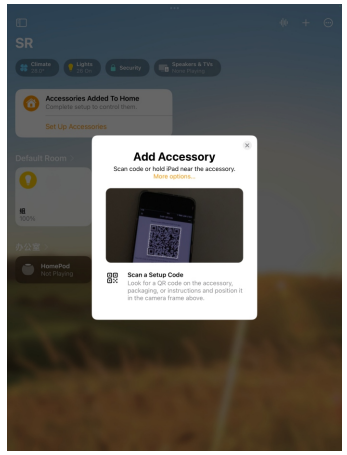



Figure 10

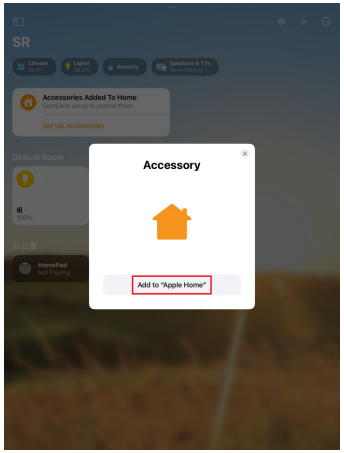



Figure 11

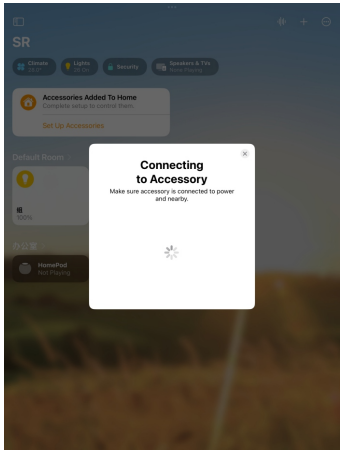



Figure 12

**Note: Before scanning the QR coder sticker on the dimmer as shown in Figure 10, short press "Push Button" 5 times continuously then within 3 seconds press and hold it for over 5 sceonds 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.**

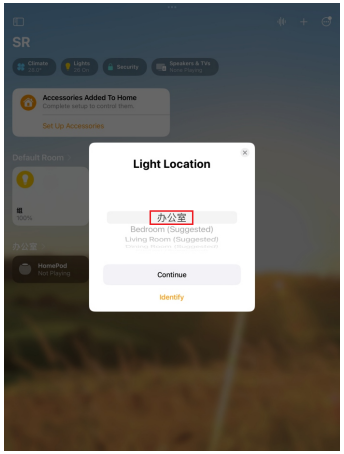



Figure 13

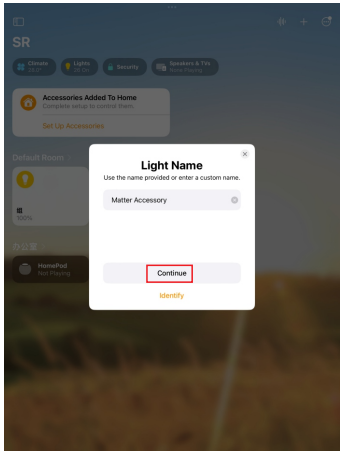



Figure 14

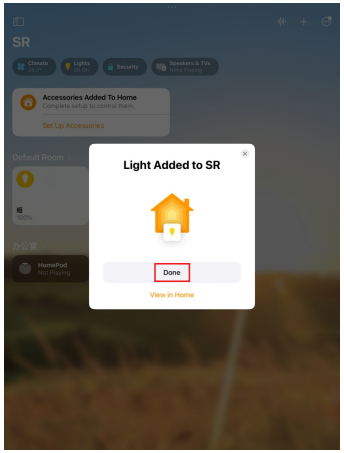



Figure 15

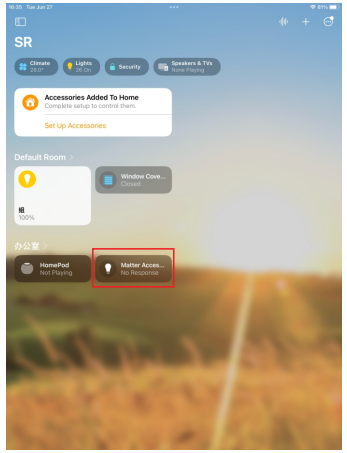



Figure 16

**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.**

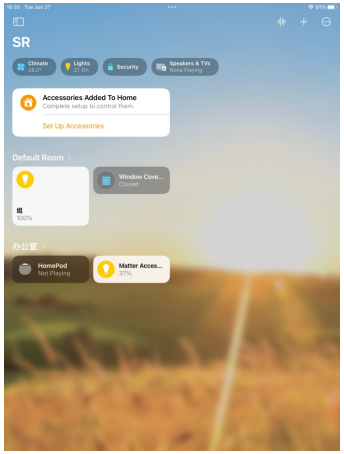



Figure 17

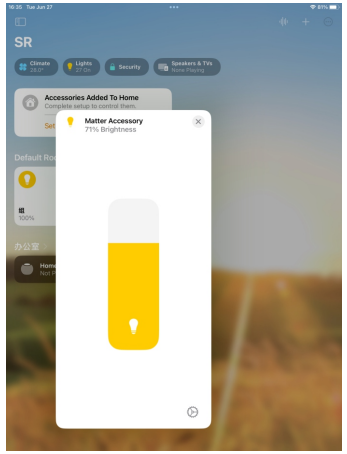
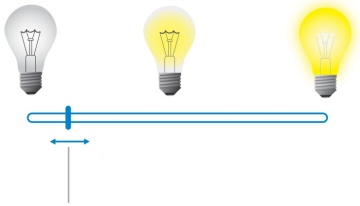



Figure 18

**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**.

### 4. Minimum Brightness Setting

**Set Minimum Brightness**



**Step 1**: adjust the brightness of connected load to a desired level between 1%-50%.

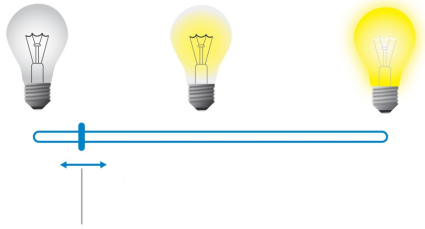


**Step 2**: short press the button 5 times continuously and rapidly, LED indicator will turn on green for 3 seconds, and within these 3 seconds short press the button once to enter setting menu.

**Step 3**: LED indicator will blink green once, which means the dimmer has entered min. brightness setting process which will last for 15 seconds.

**Step 4**: Within the 15 seconds, press and hold the button for over 5 seconds (if press and hold it less than 5 seconds, the dimmer will quit min. brightness setting process) until LED indicator blinks green rapidly for 2 seconds, the brightness adjusted in step 1 will be set as minimum brightness, then the load can not be dimmed below this level.

**Delete Minimum Brightness**



**Step 1**: adjust the brightness of connected load to 0%.



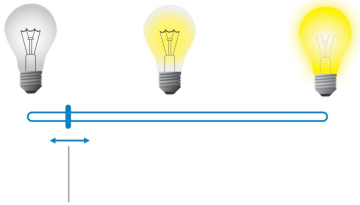
**Step 2**: short press the button 5 times continuously and rapidly, LED indicator will turn on green for 3 seconds, and within these 3 seconds short press the button once to enter setting menu.

**Step 3**: LED indicator will blink green once, which means the dimmer has entered min. brightness setting process which will last for 15 seconds.

**Step 4**: Within the 15 seconds, press and hold the button for over 5 seconds (if press and hold it less than 5 seconds, the dimmer will quit min. brightness setting process) until LED indicator blinks green rapidly for 2 seconds, previously set min. brightness will be deleted, then the load can be dimmed to 1%.

### 5. Startup Brightness Setting

**Set Startup Brightness**



**Step 1**: adjust the brightness of connected load to a desired level between 1%-50%.



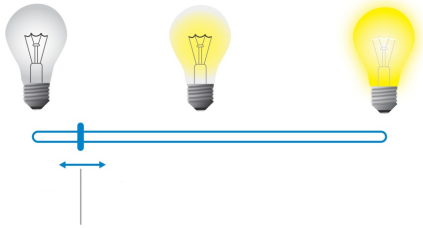
**Step 2**: short press the button 5 times continuously and rapidly, LED indicator will turn on green for 3 seconds, and within these 3 seconds short press the button twice to enter setting menu.

**Step 3**: LED indicator will blink green twice, which means the dimmer has entered startup brightness setting process which will last for 15 seconds.

**Step 4**: Within the 15 seconds, press and hold the button for over 5 seconds (if press and hold it less than 5 seconds, the dimmer will quit startup brightness setting process) until LED indicator blinks green rapidly for 2 seconds, the brightness adjusted in step 1 will be set as startup brightness.

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

**Delete Startup Brightness**



**Step 1**: adjust the brightness of connected load to 0%.



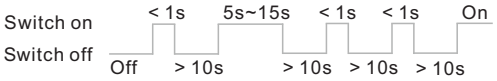
**Step 2**: short press the button 5 times continuously and rapidly, LED indicator will turn on green for 3 seconds, and within these 3 seconds short press the button twice to enter setting menu.

**Step 3**: LED indicator will blink green twice, which means the dimmer has entered startup brightness setting process which will last for 15 seconds.

**Step 4**: Within the 15 seconds, press and hold the button for over 5 seconds (if press and hold it less than 5 seconds, the dimmer will quit startup brightness setting process) until LED indicator blinks green rapidly for 2 seconds, previously set startup brightness will be deleted.

### 6. Restore factory settings

To restore the factory settings, short press “Push Button” 5 times continuously and then within 3 seconds press and hold it for over 5 seconds until LED indicator turns off or switch the device power on and off in the following sequence. If the device is successfully reset, the connected light will blink 3 times to indicate successful reset.




### 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. Touchlink to a Zigbee remote

**Step 1:** Short press “Push Button” 4 times and then within 3 seconds press and hold it for over 5 seconds 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 “Push Button” 4 times and then within 3 seconds press and hold it for over 5 seconds 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.

### 9. Learning to a Zigbee Green Power Switch

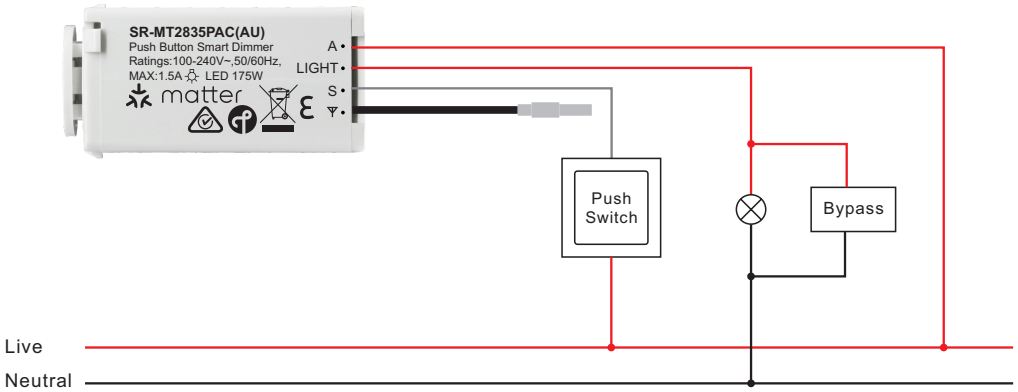
**Step 1:** Short press “Push Button” 4 times and then within 3 seconds press and hold it for over 5 seconds to start Learning mode.
**Step 2:** Set the green power switch into Learning mode, please refer to its manual.
**Step 3:** There shall be indication on the switch for successful learning.

**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 “Push Button” 4 times and then within 3 seconds press and hold it for over 5 seconds 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.

### Wiring Diagram




**NOTE:** Switch connected to the switch wire activates the basic functionality of the dimmer (short press to turn the light on/off, hold to dim up or dim down).

The Bypass is a device designed to work with the push button dimmer. It should be used in case of connecting LED bulbs or energy saving compact fluorescent lamps. The Bypass prevents flickering of the LED lights and glowing of the turned off compact fluorescent lamps. In the case of 2-wire connection, the Bypass allows to reduce minimum power of load required by the dimmer for correct operation. The Bypass provides powering of the dimmer in case of controlling the low loads of minimum power down to 3W (for cosφ>0.5).