FEIT ELECTRIC

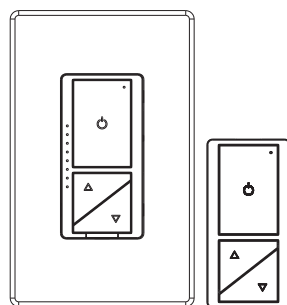## Wi-Fi Smart Dimmer Installation Guide

Works with DIMMABLE LED, CFL, Incandescent and halogen lights

Model No.	DIM/BUTTON/WIFI
Working Voltage	120V~
Working Frequency	60HZ
Rate Power	600W
Load Range	Incandescent:15W-600W
	LED/CFL:3W-200W
Dimming Mode	Phase-Cut
Work Environment	Temperature:32°F~104°F
	Humidity:10% R.H.~ 90% R.H.
Size	4.72in x 2.91in x 1.22in (LXWXH)

⚠ WARNINGS AND CAUTIONS

- To avoid risk of fire and electrical shock, the dimmer should be installed in accordance with appropriate electrical codes and regulations.
- Turn off power at circuit breaker or fuse and ensure power is off before installing.
- After Dimmer is installed, it is recommended to set the minimum brightness level to make lights turn on immediately.
- If you are unsure about any part of these instructions, consult a licensed electrician.
- To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle, a moot-operated appliance or a transformer-supplied appliance.
- Use with compatible dimmable LED, CFL, Incandescent or halogen lights only.
- When multiple lights are used with one dimmer DO NOT mix light types. All lights shall be either LED, CFL or incandescent. Using the same type of light will enhance dimmer performance.

Adjusting Minimum Brightness:
- If the light blinks at the lowest setting, increase the minimum brightness. While the light is on, increase the brightness and press the power button quickly 6 times. Alternatively, use the minimum brightness setting button (see step 7 for details).

Adjusting for Delays:
- If the dimmer is slow to respond at the lowest setting, increase the minimum brightness. While the light is on, increase the brightness and press the power button 6 times briefly. You can also use the minimum brightness setting button (see step 7 for details).

⚠ WARNING

The statement:
a. Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
b. Even used batteries may cause severe injury or death.
c. Call a local poison control center for treatment information.
d. Compatible battery types: CR2032.
e. Battery voltage: 3V ⎓ 10mA.
f. Non-rechargeable batteries are not to be recharged.
g. Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting,leakage or explosion resulting in chemical burns.
h. Ensure the batteries are installed correctly according to polarity + and -).
i. Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries
j. Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations
k. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours.**
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN.**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.

RF EXPOSURE STATEMENT

This equipment complies with the FCC RF radiation limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body
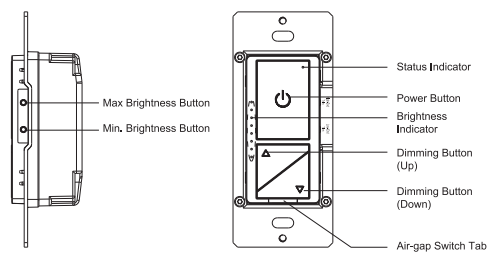
FCC Information

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, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with 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. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment. CAN ICES-003 (B).

FCC CAUTION

Any changes or modifications to this unit not expressly approved by the manufacture could void the user's authority to operate the equipment.

Functional parts instructions

Dimmer

- Max Brightness Button
- Min. Brightness Button
- Status Indicator
- Power Button
- Brightness Indicator
- Dimming Button (Up)
- Dimming Button (Down)
- Air-gap Switch Tab

Status Indicator

- Constant red light: when the light is off and the APP is not connected
- Constant white light: when the light is on or/and the APP is connected
- Wine indicator blinks quickly: EZ paring mode
- White indicator blinks slowly: AP pairing mode
- Red indicator blinking: enters remote control pairing mode
- Red and white indicators blink alternately: Firmware upgrade

Button Press definition

- Short Press : within 0.5 seconds;
- Long Press : over 0.5 seconds;
- Continuous short press: Each interval of short press should within 0.5 seconds.

Max. Brightness Button

- Setting the max. brightness: There are 6 max brightness levels. Short press the max brightness button to cycle through your preferred setting.

Min. Brightness Button

- Setting the min. brightness: There are 6 min. brightness levels. Short press the min brightness button can change a min. brightness level, cycle through the 6 mins brightness levels.

Power Button

- Turn on Short press power button or any button once when in Off.
- Turn off: Short press power button once when in On.
- Pairing to remote: Press the power button (dimmer) 7 times continuously when in ON. After the status indicator blinks red, press any button of the remote control once within 15s, the dimmer will pair with the remote control. (①) One dimmer can pair up to 3 remote controls. If there is a fourth remote control pairing, then the first paired remote control will be cleared. ② If the dimmer needs to be paired with multiple remote controls, repeat the pairing operation.)
- Unpair remote control: Press the power button (dimmer) 7 times continuously when in On. After the status indicator blinks red, press any button of the paired remote control once within 15s, the dimmer will upair the remote control.
- Pairing network:
  ① Long press the power button for 5 seconds, the indicator white light blinks quickly (on for 0.5 seconds, off for 0.5 second), the dimmer enters EZ pairing mode, and the mobile phone can connect the dimmer (if not connected, exit the pairing mode after 3 minutes.)
  ② After the dimmer enters EZ pairing mode. Press and hold the power button again for 5 seconds, and the indicator white light blinks slowly (on for 1 second, off for 1 second), the dimmer enters AP pairing mode, and the mobile phone can connect the dimmer (if not connected, exit the pairing mode after 3 minutes).

  Note:
  - Ensure both your phone's Wi-Fi and Bluetooth are enabled to ensure a quick connection.
  - Direct Bluetooth control with the Feit Electric App will be enabled if the dimmer goes offline for 2 minutes.

- Min. brightness and Max. brightness setting: When the light is on, adjust the brightness to the ideal minimum brightness below 50%, press the power button for 6 times continuously, and the indicator white light blinks for 3 times to set the minimum brightness. After the brightness is adjusted to the ideal maximum brightness above 50%, press the power button for 6 times continuously, and the indicator white light blinks for 3 times to set the maximum brightness.
- Clear the min. and max. Brightness Setting: Continuous short press the power button 9 times when in ON.
- Restore factory setting: Short press the power button 12 times, the luminance indicators blink 3 times to restore factory setting. (1. The light is at its brightest when it is on. 2. Clear all remote control pairing. 3. The dimmer is in pair network mode.).

Dimming Button (UP)

- Short press the dimming button once to increase a level of brightness when in on status.
- Long press the dimming button to continuously increase the brightness until release or reached max. brightness.
- Continuous short press 2 times when in ON/OFF status to turn quickly to the max. brightness.
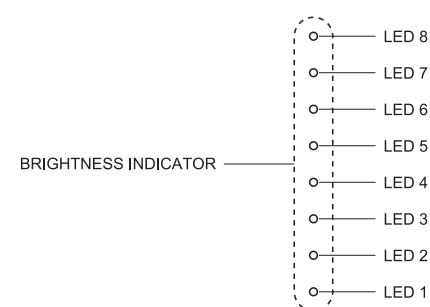
Dimming Button (Down)

- Short press the dimming button once to decrease a level of brightness when in on status.
- Long press the dimming button to continuously decrease the brightness until release or reached min. brightness.
- Continuous short press 2 times when in ON/OFF status to turn quickly to the min. brightness.

Air-Gap Switch Tab

- The Feit Electric Wall Dimmer has an air-gap switch tab that will remove all power from the load for sate switch installation and light bulb replacement. To Activate the air-gap tab, using your fingernail or flat screwdriver to pry the tab open at the groove.
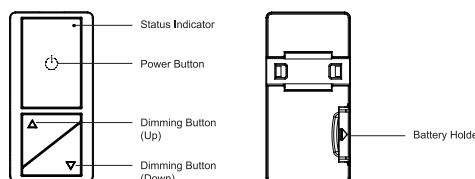
Brightness Indicator

- LED 8
- LED 7
- LED 6
- LED 5
- LED 4
- LED 3
- LED 2
- LED 1

BRIGHTNESS INDICATOR

Brightness Indicator Table

Item	Brightness Level	Luminance Indicator
1	Brightness Level 1-2	LED 1 normally on
2	Brightness Level 3-4	LED 1~LED 2 normally on
3	Brightness Level 5-6	LED 1~LED 3 normally on
4	Brightness Level 7-8	LED 1~LED 4 normally on
5	Brightness Level 9-10	LED 1~LED 5 normally on
6	Brightness Level 11-12	LED 1~LED 6 normally on
7	Brightness Level 13-14	LED 1~LED 7 normally on
8	Brightness Level 15-16	LED 1~LED 8 normally on

Remote Control

Note:
1. The battery of the remote control can be replaced.
2. Battery model: CR2032

- Status Indicator
- Power Button
- Dimming Button (Up)
- Dimming Button (Down)
- Battery Holder

Status Indicator

Indicator lights white: Press any button once

Power Button

- Turn on: Short press any button once when in OFF.
- Turn off: Short press power button once when in ON.
- Remote control pairing mode: When the dimmer enters the pairing mode, press any button of the remote control once within 15s. The dimmer will pair with the remote control. After the pairing is successful, the status indicator will stop blinking. One remote can be paired with multiple dimmers at the same time.
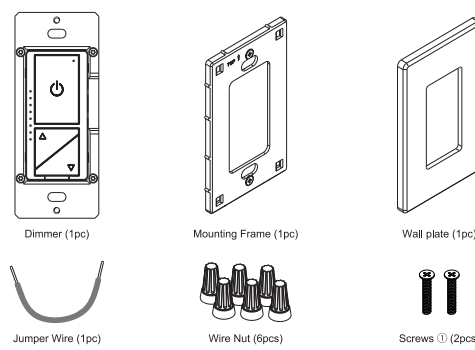
Dimming Button (Up)

- Short press the dimming button once to increase a level of brightness when in ON status.
- Long press the dimming button to continuously increase the brightness until release or reached max. brightness.
- Short press the dimming button 2 times quickly to set the max. brightness when in on/off status.

Dimming Button (Down)

- Short press the dimming button once to decrease a level of brightness when in ON status.
- Long press the dimming button to continuously decrease the brightness until release or reached min. brightness.
- Short press the dimming button 2 times quickly to set the min. brightness when in on/off status.
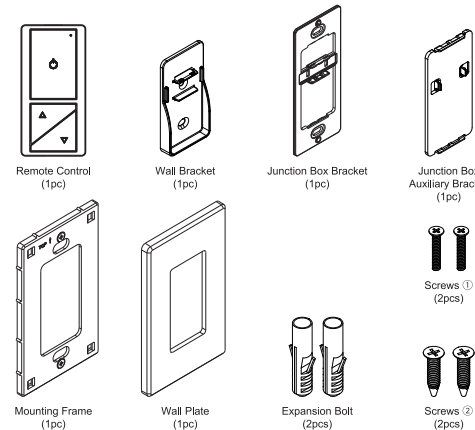
Accessory Information

Dimmer accessories

Dimmer (1pc)   Mounting Frame (1pc)   Wall plate (1pc)

Jumper Wire (1pc)   Wire Nut (6pcs)   Screws ① (2pcs)

Line/Load	Ligne/Charger Line/Load	Ligne/Load
Traveler 1	Voyageur 1 Traveler 1	Voyageur 1
Traveler 2	Voyageur 2 Traveler 2	Voyageur 2

Sticker (1pc) Note: Tag the wires in the wall box

Remote Control Accessories

Remote Control (1pc)   Wall Bracket (1pc)   Junction Box Bracket (1pc)   Junction Box Auxiliary Bracket (1pc)

Mounting Frame (1pc)   Wall Plate (1pc)   Screws ① (2pcs)   Expansion Bolt (2pcs)   Screws ② (2pcs)

Tools Needed To Install

Ø 5 mm Philips Screwdriver	Test Pencil
Electrical Tape	Plier
Cutter	Ruler

Installation

Step 1
WARNING: To avoid fire and electrical shock, turn off power at circuit breaker or fuse and test that power is off before wiring.
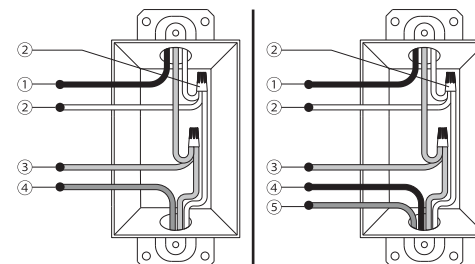
Step 2
Remove existing switch: Remove the screws installed on the existing panel and switch. Carefully pull out the switch from the wall box, identify and remove the wires attached to the switch, and remove the switch, do not remove the wires detached from the switch.(This step is not required for new configuration installation.)

Step 3
Identify the circuit type.

Note: If the wiring in the wall box is different from the following layouts, please consult an electrician.

Single-Pole
① Line (Hot)
② Neutral
③ Ground
④ Load

3-way
① Line or Load (See note below)
② Neutral
③ Ground
④ Traveler 1
⑤ Traveler 2

Please note that for 3-way application, wire from the original switch may be a different color (Black) or marked Common. Finding this wire from both the dimmer's junction box and 3-way junction box and marking as common (live or load).
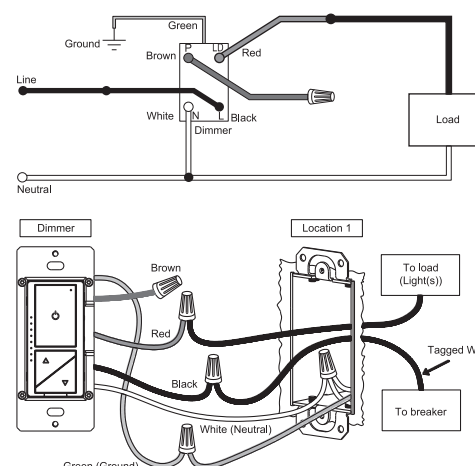
Step 4
Typical wire connection.

Step 4a
Single-Pole.
Connection Way 1

Location 1 connection:
- Connect the green wire on the dimmer to the green or bare copper ground wire on the wall box, and tighten it with the wiring nut.
- Connect the black wire on the dimmer to the live wire of the circuit breaker, and tighten it with the wiring nut.
- Connect the white wire on the dimmer to the neutral wire, and tighten it with the wiring nut.
- Connect the red wire on the dimmer to the load wire, and tighten it with the wiring nut.
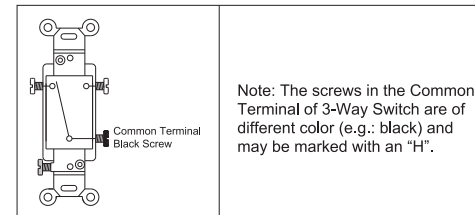- Use wiring nut to tighten the brown wire on the dimmer to protect it.
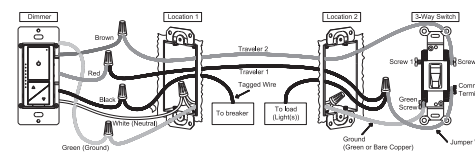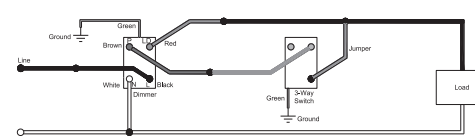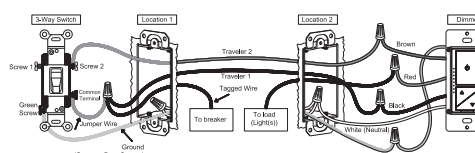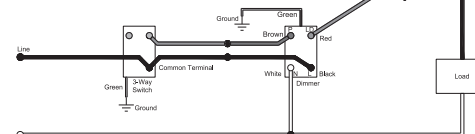
Step 4b

3-Way

Step 4b -1

3-Way(3-way Switch)

Note: When in 3-Way connection, mark the two ends of Traveler 1 and Traveler 2 cables clearly at Location 1 and Location 2 to prevent connection errors.

Note: The screws in the Common Terminal of 3-Way Switch are of different color (e.g.: black) and may be marked with an "H".

Dimmer Line Side

Connection Way 2

Location 1 connection:
- Connect the green wire on the dimmer to the green or bare copper ground wire on the wall box, and tighten it with the wiring nut.
- Connect the black wire on the dimmer to the tagged wire (the live wire of circuit breaker), and tighten it with the wire nut.
- Connect the white wire on the dimmer to the neutral wire, and tighten it with the wiring nut.
- Connect the brown wire on the dimmer to Traveler 2, and tighten it with the wiring nut.
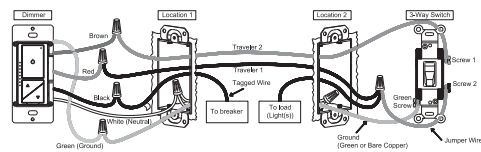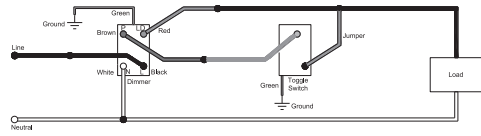- Connect the red wire on the dimmer to Traveler 1, and tighten it with the wiring nut.

Location 2 connection:
- Connect the Traveler 2 to Screw 1 or Screw 2 of the 3-way Switch.
- Connect the 3-way Switch's Common Terminal to the Jumper wire. Traveler 1 is connected to the Jumper wire and load wire and tighten it with the wiring nut.

Dimmer Load Side

Connection Way 3

Location 1 connection:
- Traveler 2 is connected to Screw 1 or Screw 2 of the 3-way Switch.
- The Common Terminal of the 3-way Switch is connected to the Jumper wire; Traveler 1 is connected to the Jumper wire, as well as the live wire of circuit breaker, and tighten it with the wiring nut.
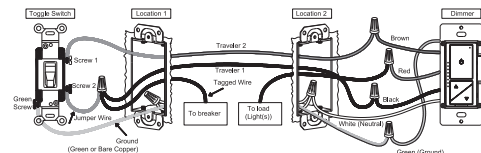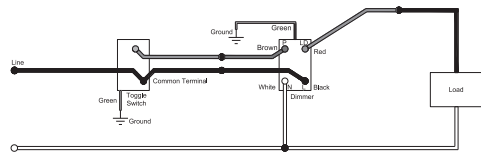
Location 2 connection:

- Connect the green wire on the dimmer to the green or bare copper ground wire on the wall box, and tighten it with the wiring nut.
- Connect the black wire on the dimmer to Traveler 1, and tighten it with the wiring nut.
- Connect the white wire on the dimmer to the neutral wire, and tighten it with the wiring nut.
- Connect the brown wire on the dimmer to Traveler 2, and tighten it with the wiring nut.
- Connect the red wire on the dimmer to the tagged wire (the load wire), and tighten it with the wiring nut.

Step 4b -2

3-Way (Toggle Switch)

Note: When wiring a 3-Way connection, mark the Traveler 1 and Traveler 2 wires clearly at location 1 and location 2 to prevent wiring errors.

Dimmer Line Side

Connection Way 4

Location 1 connection:

- Connect the green wire on the dimmer to the green or bare copper ground wire on the wall box, and tighten it with the wiring nut.
- Connect the black wire on the dimmer to the tagged wire (the live wire of circuit breaker), and tighten it with the wire nut.
- Connect the white wire on the dimmer to the neutral wire, and tighten it with the wiring nut.
- Connect the brown wire on the dimmer to Traveler 2, and tighten it with the wiring nut.
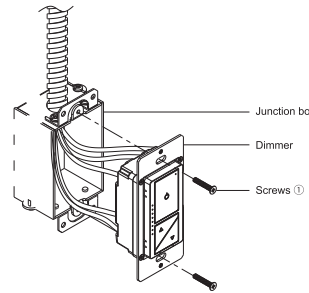- Connect the red wire on the dimmer to Traveler 1, and tighten it with the wiring nut.

Location 2 connection:

- Connect the Traveler 2 to the screw 1 of Toggle Switch.
- Connect the screw 2 of Toggle Switch to the Jumper wire. Traveler 1 is connected to the Jumper wire as well as the load wire, and tighten it with the wiring nut.

Dimmer Load Side

Connection Way 5

Location 1 connection:

- Connect the Traveler 2 to the screw 1 of Toggle Switch.
- Connect the screw 2 of Toggle Switch to the Jumper wire. Traveler 1 is connected to the Jumper wire as well as the live wire of the circuit breaker, and tighten it with the wiring nut.

Location 2 connection:

- Connect the green wire on the dimmer to the green or bare copper ground wire on the wall box, and tighten it with the wiring nut.
- Connect the black wire on the dimmer to Traveler 1, and tighten it with the wiring nut.
- Connect the white wire on the dimmer to the neutral wire, and tighten it with the wiring nut.
- Connect the brown wire on the dimmer to Traveler 2, and tighten it with the wiring nut.
- Connect the red wire on the dimmer to the tagged wire (the load wire), and tighten it with the wiring nut.

Step 5

Install the dimmer

- Carefully position all wires inside the wall -box, leaving enough space to insert the dimmer. Secure the dimmer with the provided mounting screws ①.

Step 6

Turn on the power

- Turn the power on at the breaker or fuse and try your dimmer.
- If satisfied with the dimmer's effective adjustment stroke and the brightness of the light, continue to step 8.

Note: Dimmable LED lights cannot be dimmed as low as incandescent and halogen lights, the dimming range of dimmable LED lights from different manufacturers will vary. If you are not satisfied with the dimming effect of the light, especially the effective adjustment stroke of the dimmer and the minimum brightness of the light, please debug it after installation to get a better result. See Step7 for commissioning details.
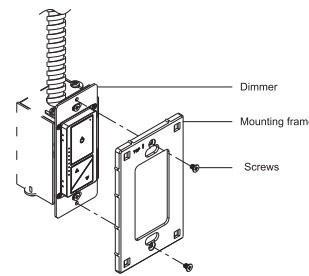
Step 7

Debug

1. Short press the power button 1 time to make the light come on and work stably.
2. Adjust the light to the lowest brightness through the dimming button (Up/Down), if the light flickers, you can set the minimum brightness of the light by short pressing the minimum brightness setting button once, if it is not ideal, you can short press the minimum brightness setting button again until the light does not flicker; or you can adjust the light to the ideal minimum brightness through the dimming button (Up/Down). After the light stops flickering, press the power button 6 times to set the current brightness as the minimum.
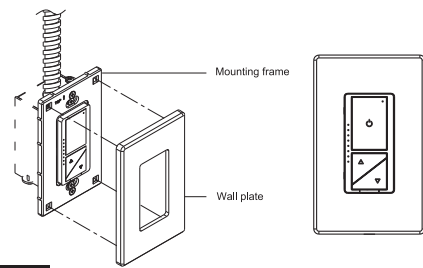
Step 8

Install the wall plate

- Install the mounting frame on the dimmer and tighten it with the screws.

- Put the wall plate and mounting frame together, press gently to make sure it's installed firmly.
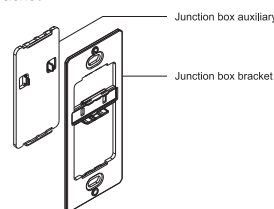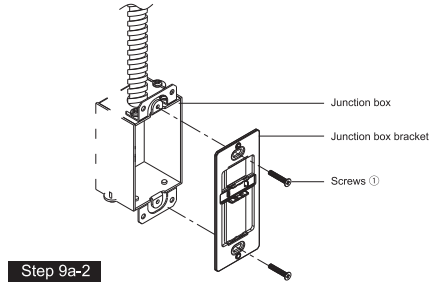

Step 9

Installing the base to fixed remote control

Step 9a-1

Installation of the junction box with wall plate

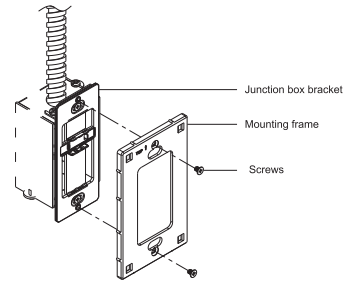- Install the Junction box auxiliary bracket on the Junction box bracket.

- Secure the junction box bracket with the mounting screws ① provided.
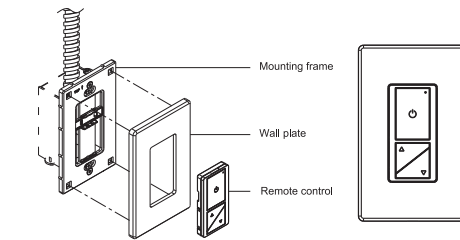

Step 9a-2

Installing the wall plate

- Install the mounting frame on the Junction box bracket and tighten with the matched screws.
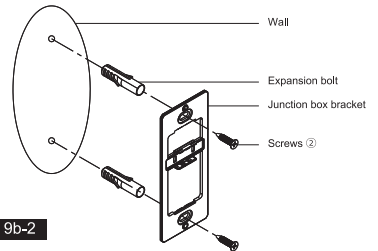

- Put the wall plate on the mounting frame, press gently to make sure it is installed firmly.
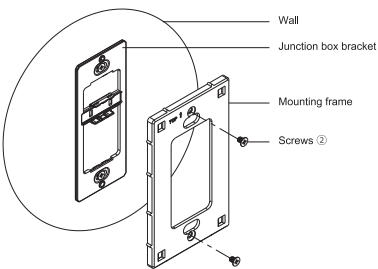

Step 9b-1

Wall installation with wall plate

- According to the junction box bracket holes, drill two 5 mm holes on the wall, drive the expansion bolts, secure the junction box bracket with the screws ②.
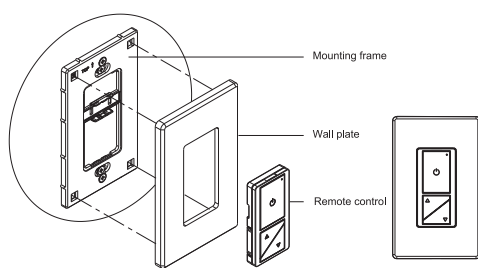

Step 9b-2

Installing the wall plate

- Install the mounting frame on the Junction box bracket and tighten with the matched screws.
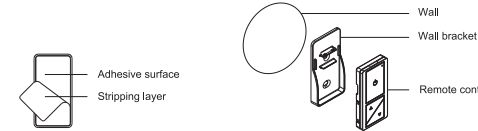

- Put the wall plate on the mounting frame, press gently to make sure it is installed firmly.
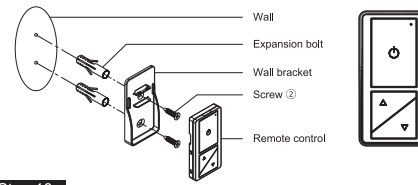

Step 9c

Wall installation without wall plate

- Peel off the wall bracket's stripping layer of back adhesive and attach the wall bracket to the wall.
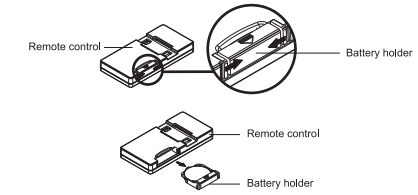

- According to the wall bracket holes, drill two 5 mm holes on the wall, and drive into the expansion bolts, secure the wall bracket with mounting screws ②.
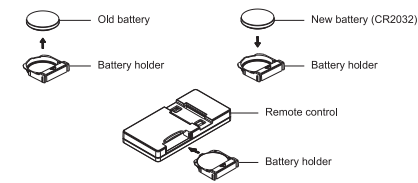

Step 10

Remote control battery replacement

- Hold the buckle on both ends of the battery holder and pull it out remove the battery holder.

- Remove the old battery from the battery holder, change new battery(CR2032). Reinstall the battery holder on the remote control.

User Instructions

Function Declaration

Short press	: Within 0.5s
Long press	: Over 0.5s
Continuous short press	: Each interval of short press should be within 0.5s

Table 1   Single-Pole Function Table

Function	Dimmer Operation Way	Dimmer Operation	Remote Control Operation	App Operation
Pair/Unpair remote control	7 Consecutive short presses of the power button	√	×	×
Pairing network	Hold the power button for 5 seconds	√	×	×
ON/OFF	Press the power once	√	√	√
Timing switch	N/A	×	×	√
Dimming	Press the dimming button (Up or Down)	√	√	√
Quickly turn to the Max. brightest	2 quick short presses of the dimming button (UP) twice	√	√	√
Quickly turn to the Min. brightest	2 quick short presses of the dimming button (DOWN) twice	√	√	√
Setting the Max. brightness	Short press max brightness button / 6 consecutive short presses of the power button	√	×	×
Setting the Min. brightness	Short press min brightness button / 6 consecutive short presses of the power button	√	×	√
Clear the Min and Max Brightness setting	9 consecutive short presses of the power button	√	×	×
Restore factory settings	12 consecutive short presses of the power button	√	×	×
Shared device	N/A	×	×	√
Group control	N/A	×	×	√

Table 2   3-way Function table

Function	Dimmer Operation	Dimmer Operation	3-way Switch or Toggle Switch Operation	Remote Control Operation	App Operation
Pair/Unpair remote control	7 Consecutive short presses of the power button	√	×	×	×
Pairing network	Hold the power button for 5 seconds	√	×	×	×
ON/OFF	Press the power once	√	√	√	√
Timing switch	N/A	×	×	×	√
Dimming	Press or hold the dimming button (Up or Down)	√	×	√	√
Quickly turn to the Max. brightest	2 quick short presses of the dimming button (UP) twice	√	×	√	√
Quickly turn to the Min. brightest	2 quick short presses of the dimming button (DOWN) twice	√	×	√	√
Setting the Max. brightness	Short press max. brightness button / Continuous short press the power button 6 times	√	×	×	×
Setting the Min. brightness	Short press min. brightness button / 6 Consecutive short press the power button	√	×	×	√
Clear the Min and Max brightness setting	9 consecutive short presses of the power button	√	×	×	×
Restore to factory settings	12 consecutive short presses of the power button	√	×	×	×
Shared device	N/A	×	×	×	√
Group control	N/A	×	×	×	√

Note: Operation Priority

- When the dimmer is being physically operated it suspends mobile app operation. You cannot physically operate the dimmer simultaneously with the app.

Troubleshooting

Problems	Possible Cause	Solution
Lights flickering	The light wires are not well connected.	Reconnect and fix the wires.
	One dimmer is connected to multiple types lights, incur interference and cause flicker.	Change the lights to the same type.
	Abnormal	Pull out the switch tab to cut off power, then push the tab back in to restore power.
	Firmware upgrading	Wait for the firmware upgrade to complete
Light flickers on long stroke at low end of dimmer.	The minimum brightness of the light is set too low.	Turn up the minimum brightness value, see Step 7 for details.
Light does not work.	Circuit breaker has tripped.	Turn on the power again.
	Fuse burn out	Replace fuse
	Light broken	Change the light
	Wiring is not properly connected.	Checking wire connections
Lights out of control or unable to connect to the network.	Abnormal	Pull out the air-gap switch tab to cut on power, then push the tab back in to restore power.
The dimmer cannot be operated in 3-way connection.	Wiring connections error or disconnected.	Check the wiring
	The 3-way switch is abnormal.	Replace the 3-way switch.
The remote control cannot control the dimmer.	The battery may be dead.	Replace battery
	Have metal objects around	Move location
	No pairing with dimmer	Make pairing