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EVA LOGIK WF31T 3 Way WiFi Toggle Dimmer Switch Installation Guide

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Installation Guide


Contents [hide]

Part 1. Installation

A Few Quick Reminders

A quick note before we give out the wiring schematics. Please do not try installing this device if you are unsure of how electrical circuits operate within your home. As exciting as it is to have a smart switch installed, it can be dangerous and even life-threatening if you do not install this correctly. Please consult a qualified electrician if necessary. With that said, here are a few other warnings we'd like to point out for your safety:

Air-Gap Switch:

Stay at right for normal use Shift to left for Bulb replacement
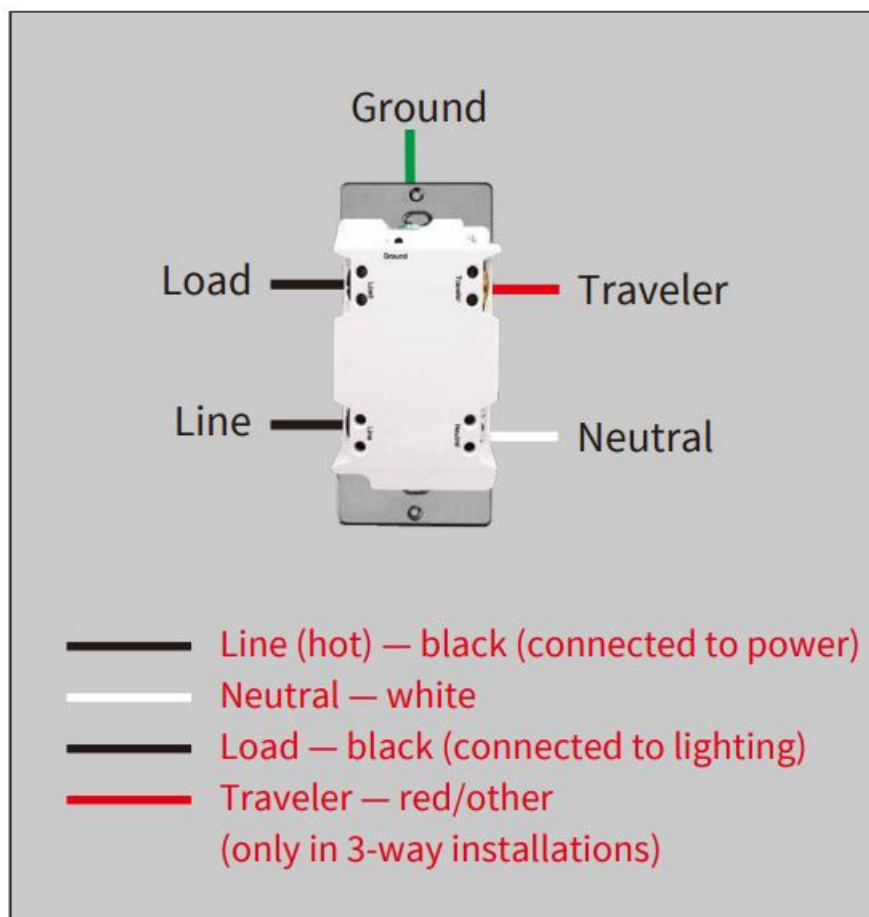
HOW TO INSTALL THE WIRES

1. **Unscrew:** carefully turn the screw counter clockwise to leave enough space for the wire to be inserted. Do not unscrew the screws completely.
2. **Press down:** Once loosened, use your finger so it catches the thread.
3. **Insert the wire:** make sure the wire is completely straight, then insert it into the terminal while holding down the screw. Do not wrap the wire around the screw!
4. **Tighten:** Turn the screw clockwise to tighten the wire. Make sure the wires are locked!
   Note: There are 2 holes for each terminal can be used in the connection. You can use a jump wire or the second hole at the terminal to connect.
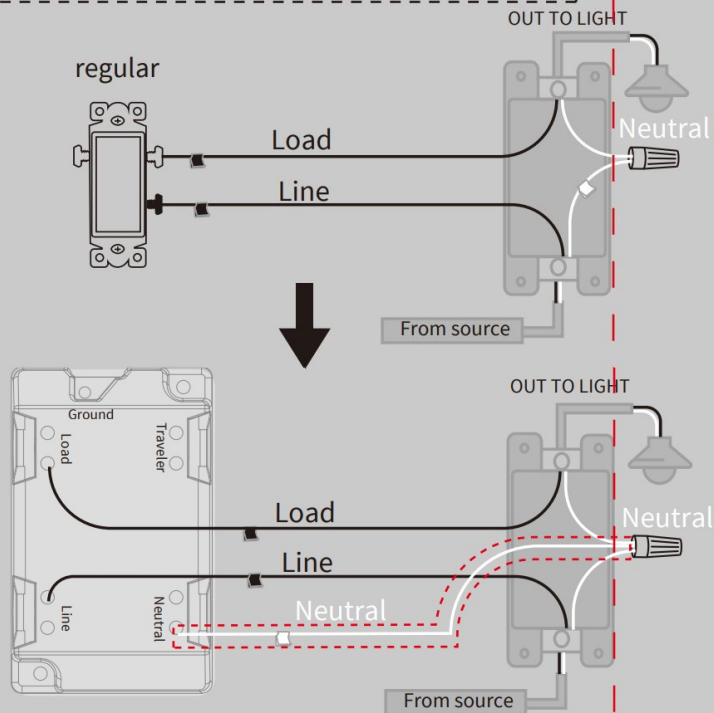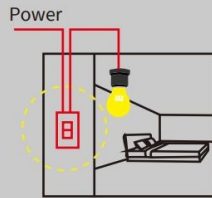

Note before installation

1. The Wi-Fi In-wall Smart Switch must not exceed 150W LED, 500W incandescent.
2. The switch box required: 1-gang U.S. wall box. 3½ in deep recommended, 2¼ in deep minimum. The switch is designed only for use with permanently installed fixtures.
3. Work with regular 3-way on/off for 2 locations control. It can only be connected with regular 3-way on/off switch, don't use a smart switch or a dimmer switch! Couldn't work with an add-on switch!
4. The colors of your wires may not match the ones in our diagrams so please make sure you've identified all wires correctly based on their source, not color only.
5. Please check your original 3-way wiring circuit in your home before installation, and then follow the wiring diagram option 1 or 2 in the manual.
6. Install the smart switch in the switch box which directly connects to the power Line and Neutral.
7. This switch requires a Neutral for installation, or the installation will not succeed.
8. Not recommended for fan.
   If you have any questions, please contact us at **ask@nie-tech.com**

Part 2. Wiring Diagram
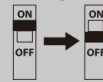
Single-pole wiring

Power

OUT TO LIGHT

Neutral

regular

Load

Line

From source

OUT TO LIGHT

Ground

Traveler

Load

Load

Line

Line

Neutral

Neutral

Neutral

From source

1. **Tool:** Please prepare a flat head screwdriver.
2. **Turn power OFF at circuit breaker or fuse box.**

   ON → ON
   OFF → OFF

3. **Remove wallplate.**
4. **Remove the switch mounting screws.**
5. **Disconnect the wires and label them after remove the old switch.**(Please use our sticker)

   | Line | Load | Neutral | Ground | Traveler |(Just for 3-way switch)

6. **Carefully remove the switch from the switch box.** (DO NOT disconnect the wires.)
7. **There are up to five screw terminals on the smart switch, these are marked** (Please check **<HOW TO INSTALL THE WIRES>**)
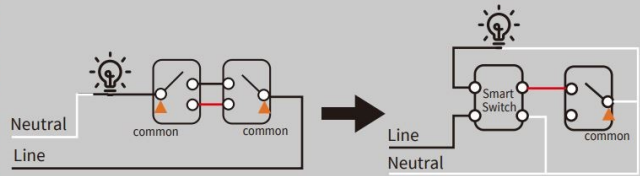8. **Fix the wallplate with screws after wiring succeed.** (Please use our screws.)
9. **The Ground was excluded from the diagram to simplify the illustration.** Please Make sure all ground wires are connected to all switches respectively.

Line

Neutral

Line

Neutral

Smart Switch
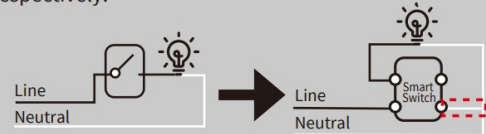
⚠ **IMPORTANT**

1) **Neutral required**. If the box do not have a Neutral, please stop! Connect the **white wire to neutral terminal**(use a white jump wire form the package or the second hole at the terminal to connect.)

2) Insert the Line wire to Line terminal and Load wire to Load terminal. **LOAD and LINE Can't be swapped**, please make sure to identify them correctly!

3-Way switch option 1

Power

Neutral
Line
common   common

Line
Neutral
Smart Switch
common

regular 1

OUT TO LIGHT

Traveler
common   Load
Neutral

Line

From source

regular 2

(3-way switch)

common

Box 1
(Line/Hot Neutral and Light/Load)

Load

Ground
Load   Traveler
Traveler
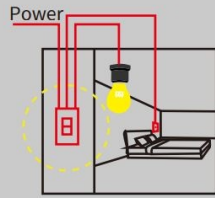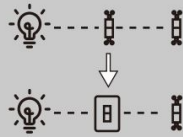
OUT TO LIGHT

Line   Neutral   Neutral

Line

From source

Box 2
Don't change this
regular 3-way on/off switch
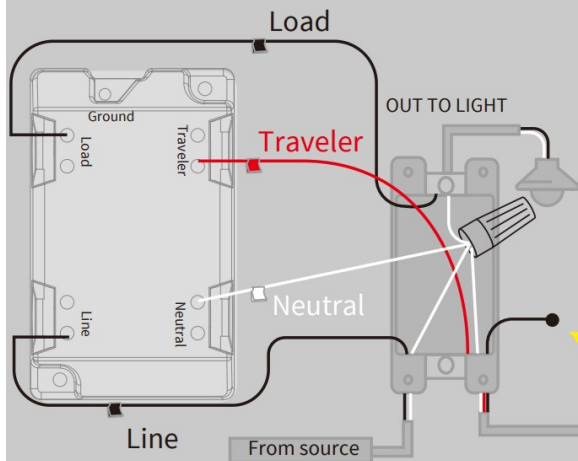
regular

(3-way switch)
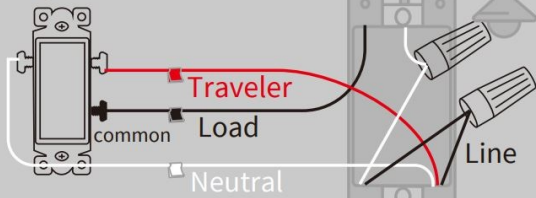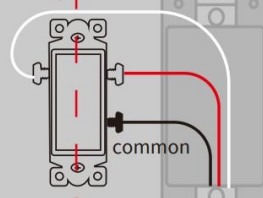
common

None-connection

⚠ IMPORTANT

1) **Neutral required**. If the switch box do not have a Neutral, please stop! Connect the **white wire to neutral terminal** (use a white jump wire form the package or the second hole at the terminal to connect.)

2) Insert the Line wire to Line terminal and Load wire to Load terminal. **LOAD and LINE Can't be swapped**, please make sure to identify them correctly!

3) Install the smart switch in the switch box which directly connects to the power **Line, Load and Neutral.**

4) Only work with **regular 3-way on/off** for 2 locations control. It can only be connected with regular 3-way on/off switch, **don't use a smart switch or a dimmer switch! Couldn't work with an add-on switch!**
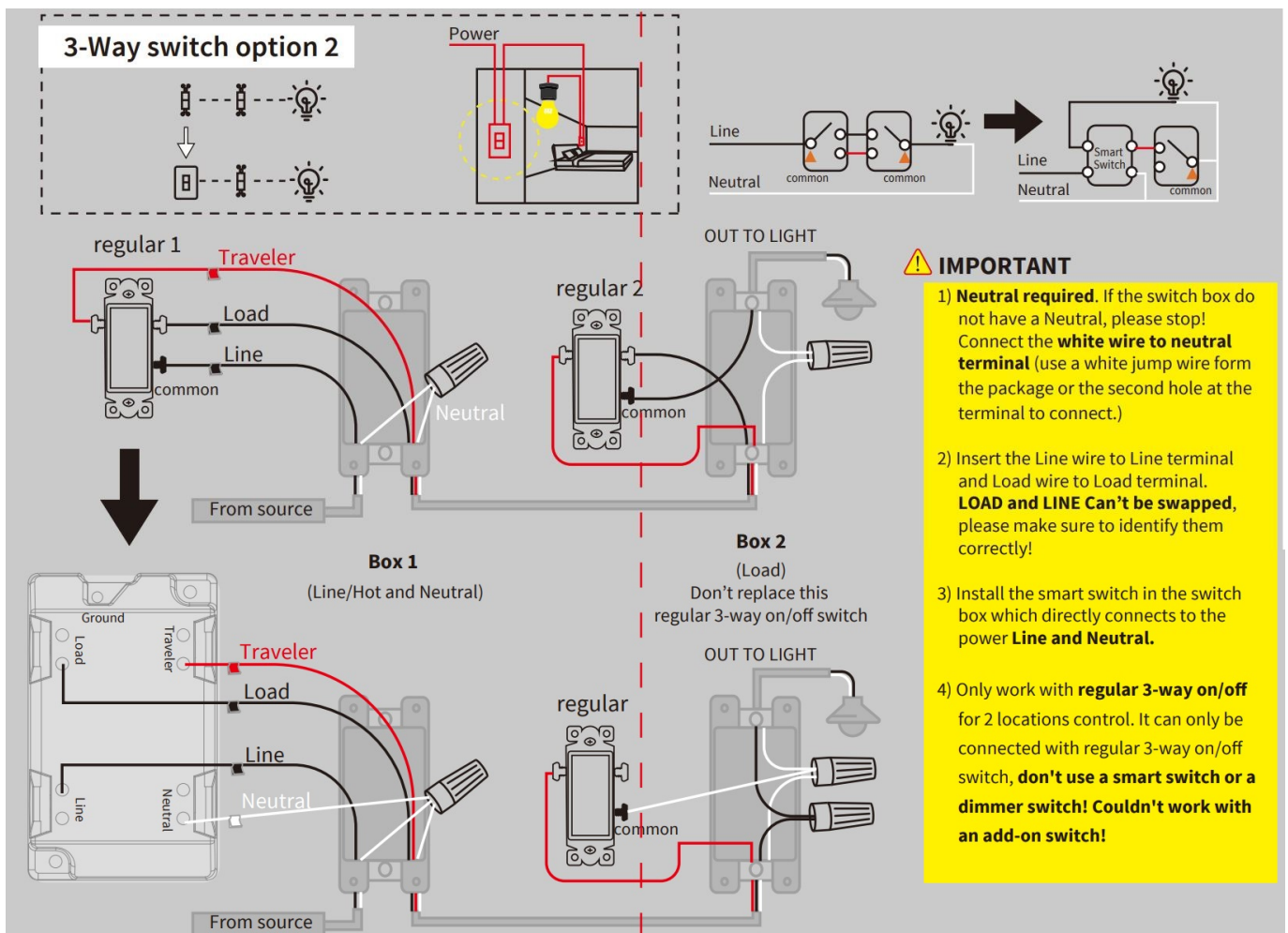
Part 3. Manual Control

LED Indicator:
Red: Network failure
Blue: Network configuration mode
Orange: Light status indicator
Purple: AP Network configuration mode

1. Tap 1(Up button): turn on the light (the last brightness level) Press and hold (Up button): add brightness
2. Tap 1(Down button) : turn off the light Press and hold ("down" button) : reduce brightness.
3. Adding your device to Wi-Fi network: Please make sure the switch is on the "OFF" position. Hold the "down" button more than 10s until the bulb flashes and the "blue" LED blinks rapidly to initiate App-configured Mode.
4. If you need to reset the device (Factory setting) Network reset 1.Turn off the light(when the light is on) 2.Hold the "down" button until the light bulb flashes (the blue LED blinks rapidly)

Part 4. APP Connection

1. Please scan the QR code to download the application "Smart Life".
2. If you cannot download Smart Life app, please search "Smart Life" on **Google Play** (for Android phone) or **Apple Store** (for iOS phone) to download. After you download the Smart Life App and register a new account, please follow the instructions below to set up your smart switch.
3. The smart switch can be also used with Amazon Echo and Google Home. Please scan the QR code below and follow the instructions if you have any trouble pairing with them.

QR code

https://e.tuya.com/smartlife

Smart Life

Amazon-Echo

https://nie-tech.com/wp-content/uploads/2018/12/Quick-Guide-of-Using-Amazon-Echo-To-Control-Smart-Devices-V1.02.pdf


Google-Home

https://nie-tech.com/wp-content/uploads/2018/12/Quick-Guide-of-Using-Google-Home-to-Control-Smart-Devices.pdf

Please Note:

- Our products only support 2.4GHz Wi-Fi network.
- 3 connection network modes: Bluetooth quick-fit Mode, Easy Mode, AP Mode. Choose the most suitable mode to configure the network.
- Please operate quickly when "BLUE" LED indicator blinks rapidly.
- When indicator flash enters the network, complete standard operation within 30s
- "PURPLE" LED Flashing slowly enters AP Mode (select "AP Mode" follow the below instructions.)
- Make sure the switch works properly by manual control before network configuration.
- Device Reset / Network reset step 1: turn off the light (when the light is on) step 2: hold the "Down" button until the light bulb flashes (" BLUE"LED blinks rapidly)

Bluetooth quick-fit Mode:

(1) Turn on your Phone bluetooth.
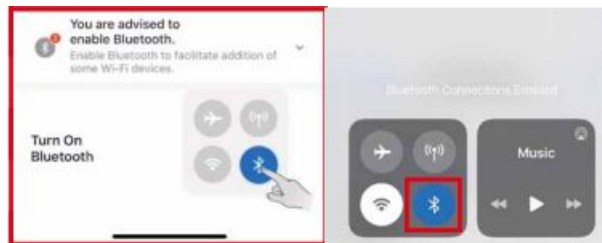
(2)
The auto-connection comes with "BLUE"LED indicator blinks for 3 minutes to wait for configuration. If it stopped, please Hold the "down" button more than 10s until the bulb flashes and the blue LED blinks again.

③ Tap '+' to add this switch in the "Smart Life" APP.
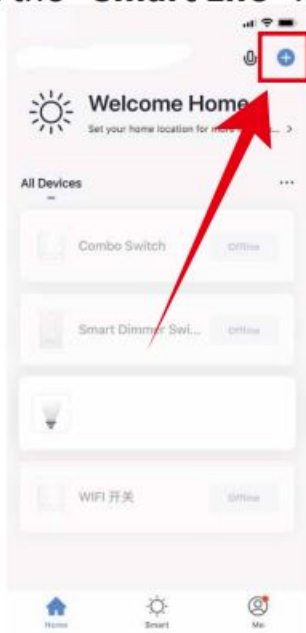
④ You'll see "Devices to be added"---"Go to add".
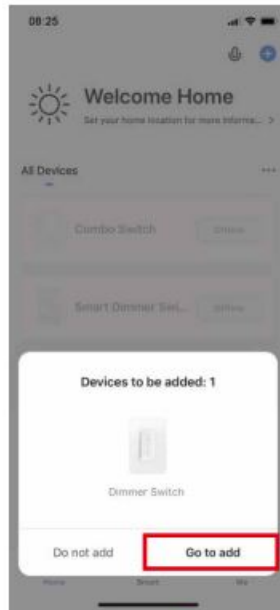
⑤ Click to "Add"

⑥ Enter the Wi-Fi Password

⑦ Wait for 100%. LED stays in "green" 3 seconds.

⑧ Click and edit the name of switch!

Easy Mode:

1 Tap '+' to add a device in your app

Welcome Home
Set your home location for more informa... >

All Devices ...

No devices, please add
Add Device

Home   Smart   Me

2 Select "Electrician "- "Dimmer Switch"

< Add Manually   Auto Scan

Switch

Electrician
Lighting
Large Home Ap...
Small Home Ap...   Switch (Wi-Fi)   Switch (ZigBee)   Switch (GPRS)
Kitchen Appliances   Switch (BLE)   Switch (other)
Security & Sensors   Dimmer Switch
Exercise & Health   Dimmer Switch
Video Surveillan...   Curtain Switch
Gateway and others   Curtain Switch (other)   Curtain Switch (Wi-Fi)   Curtain Switch (ZigBee)

3 Enter the Wi-Fi Password (Your phone should have connected to the same Wi-Fi first).

Cancel

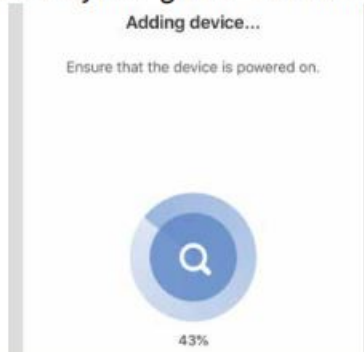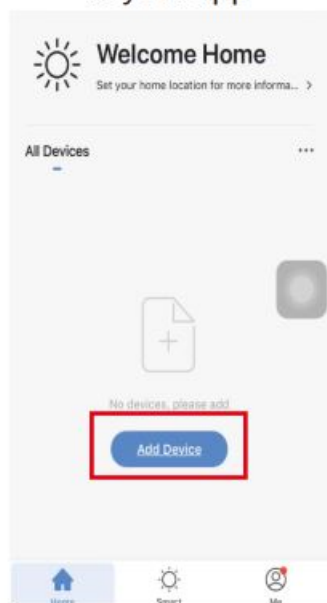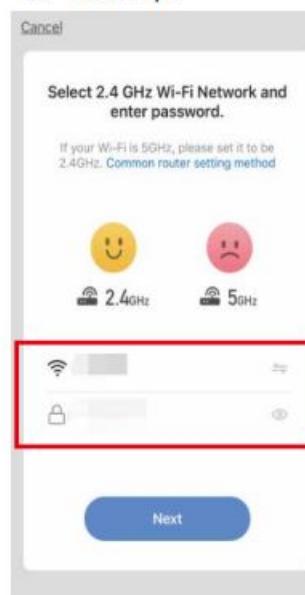Select 2.4 GHz Wi-Fi Network and enter password.

If your Wi-Fi is 5GHz, please set it to be 2.4GHz. Common router setting method

2.4GHz   5GHz

Next

4 Hold the "down" button more than 10s until the bulb flashes and "BLUE" LED blinks rapidly. **Please make sure the switch is on the "OFF" position.**

5 Click to "continue "

Cancel

Select 2.4 GHz Wi-Fi Network and enter password.

If your Wi-Fi is 5GHz, please set it to be 2.4GHz. Common router setting method

Only 2.4 GHz Wi-Fi networks are supported. Please select a 2.4 GHz network.

Continue   Go to Change

Next

6 Select "is fast blinking (0.5s/time)"

Cancel

Select 2.4 GHz Wi-Fi Network and enter password.

If your Wi-Fi is 5GHz, please set it to be 2.4GHz. Common router setting method

2.4GHz   5GHz

NIE_5G

Which of the following states is your device indicator?

is fast blinking (0.5s/time)

is slowly blinking (2s/time)

The indicator is not flashing?
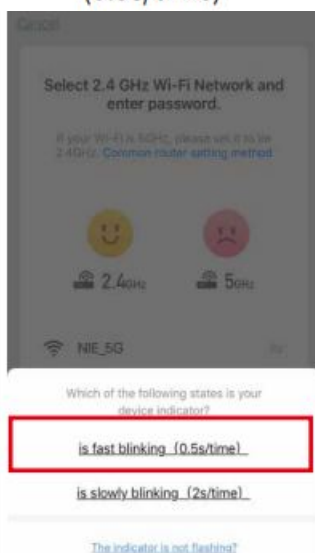
7 Wait for the app to connect to your Wi-Fi until it's 100%

Cancel

Adding device...
Ensure that the device is powered on.

43%

Scan devices.   Register on Cloud   Initialize the device.

8 Click and edit the name of switch!

Added.

Smart Dimmer Switch
Device added successfully

Done
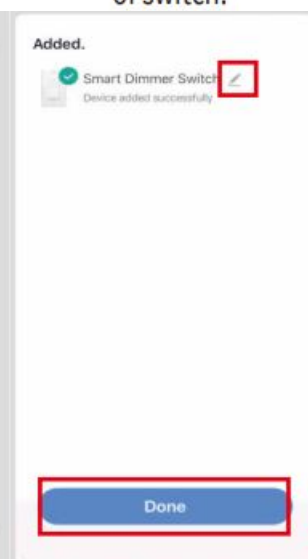
AP mode:

⚠️ If you cannot configure it by the default mode successfully, try to connect by AP mode.

1. When the blue LED indicator flashes quickly, press and hold the down button for more than 5s until the bulb flashes twice to enter the AP mode, and the purple LED indicator flashes quickly.
2. Click on "is slowly blinking(2s/time)" in the upper right corner.
3. Click "Confirm light flashes."
4. Enter Wi-Fi network password.
5. Open wireless LAN settings with "Smart Life-xxxx/ SL-xxxx".
6. Back in the application, continue adding devices and wait for the connection to complete. — AP Network Configuration Mode to Easy Mode: When the purple LED indicator flashes quickly, press and hold the "down" button for more than 5s until the bulb flashes 1 time to enter easy mode, and the blue LED indicator flashes quickly.

SETTING

For better performance of the LED, please set a minimum brightness value. When the bulb is at this minimum brightness value, the bulb does not flicker. The minimum brightness of different bulbs may be different.

Locks for the minimum value

Set a timer to the switch.

Adjust the brightness of the light.

Part 5. Network Configuration

OPERATION GUIDE

- Adding your device to Wi-Fi network: Please make sure the switch is on the "OFF" position.
  Hold the "down" button more than 10s until the bulb flashes and "blue" LED indicator blinks rapidly to initiate
  App-configured Mode.
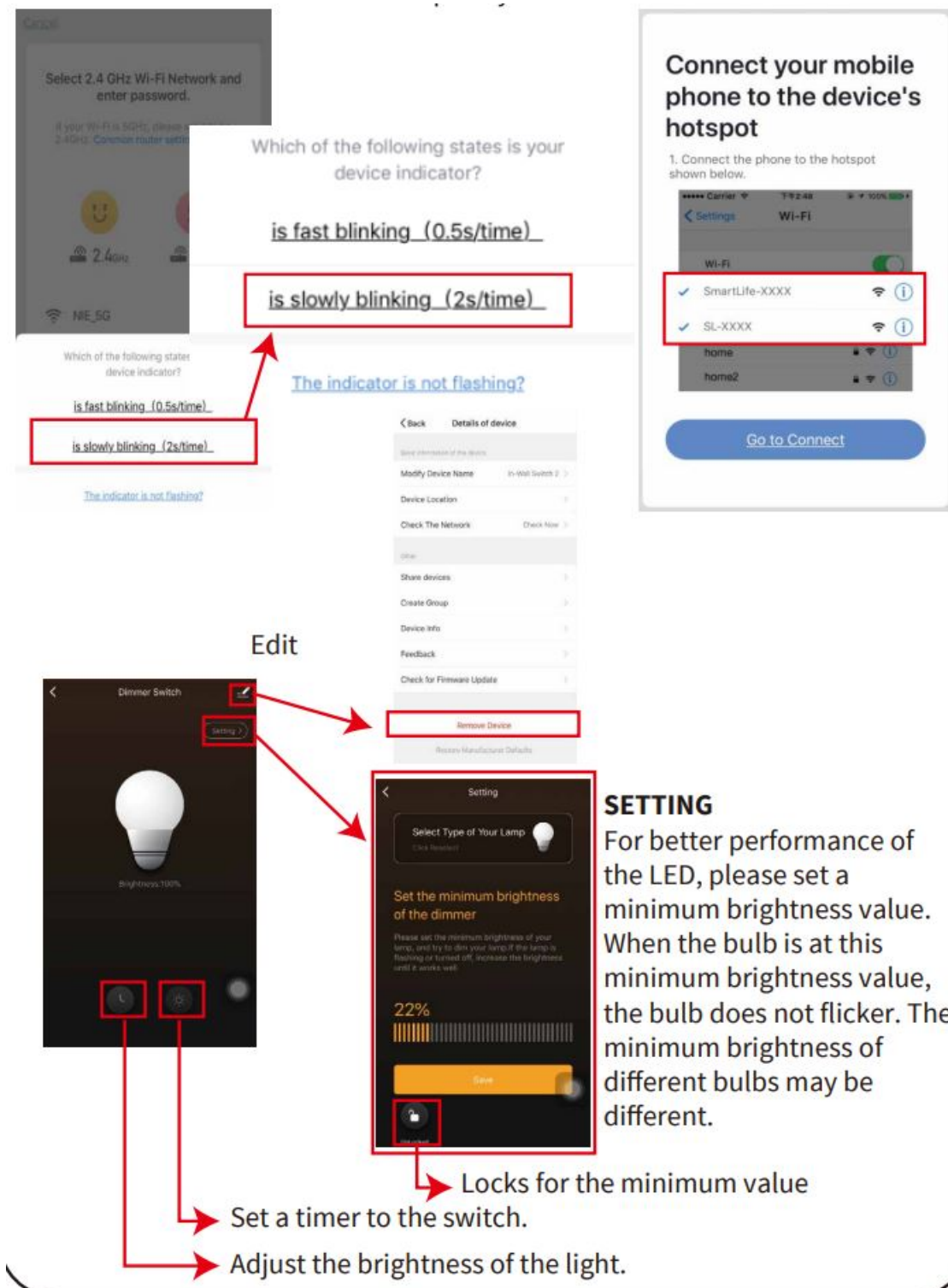- If you need to reset the device (Factory setting) Network reset
  1.Turn off the light(when the light is on)
  2.Hold the "down" button more than 10s until the bulb flashes ("blue" LED indicator blinks rapidly)

Part 6. Parameter Settings

The LED indicator flashes 3 times after each parameter setting successfully.)

· **LED Indicator Status Setting** (This parameter can access you to choose the led indicator to be on when the
switch (light) is on/off, or LED indicator remains on/off all times.)
Value=1 (default) LED is On when the switch (light) Off and LED is Off when the switch (light) On.
Value=2 LED is On when switch (light) On and LED is Off when the switch (light) Off.
Value=3 LED is always Off.
Value=4 LED is always On.

Operation: Quickly press "down" button 5 times.
Please note: the switching of each value is in order, a quick press ""down" button 5 times will switch once. eg:
Switching from value1 to value 4 needs 3 switching's.

· **Restores State after Power Failure** (This parameter can access you to set the switch to be on/off after power
failure.)
Value=1 The switch is off regardless of the state prior to power failure.
Value=2 The switch is on regardless of the state prior to power failure
Value=3(default) Memory state before power failure This switch will be return to state prior to the power failure
after power is restored.
Operation: Quickly press "up" button 5 times. Please note: the switching of each value is in order, a quick press
"up" button 5 times will switch once. eg: Switching from value1 to value 3 needs 2 switching's.
· **Light off State Setting** (This parameter can access you to set the light fade out or off immediately.)
Value=1 (default) Fade out
Value=2 Instantaneous off
Operation: Quickly press "up" button 8 times
Please note: the switching of each value is in order, a quick press "up" button 8 times will switch once. eg:
Switching from value1 to value 2 needs 1 switching.

· **Button Function Setting** (This parameter can access you to set the "up" button to turn the light on/off.)
Value=1 (default) The "up" button turn the light on and "down" button turn lights off.
Value=2 The "up" button turn the light off and "down" button turn lights on.
Operation: Quickly press "down" button 8 times
Please note: the switching of each value is in order, a quick press "down" button 8 times will switch once. eg:
Switching from value1 to value 2 needs 1 switching.

FCC
This device complies with part 15 of the FCC and Industry Canada license-exempt RSS standard(s). Operation is
subjected 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.
FCC NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized

modifications to this equip- mint. Such modifications could void the user's authority to operate the equipment.-TV operate the equipment.
— 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

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:

Important note: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

⚠️**CAUTION – PLEASE READ!**
This device (WF31T) is intended for installation in accordance with the National Electric Code and local regulations in the United States, or the Canadian Electrical Code and local regulations in Canada. If you are unsure or uncomfortable about performing this installation consult a qualified electrician.

⚠️ **WARNING – SHOCK HAZARD**
TURN OFF THE POWER to the circuit for the switch and lighting fixture at the service panel (circuit breaker) prior to installation.
ALL WIRING CONNECTIONS MUST BE MADE WITH THE POWER OFF to avoid personal injury and/or damage to the switch.
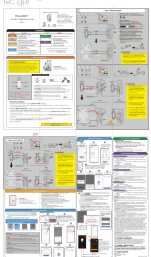
⚠️ **OTHER WARNINGS**
Risk of Fire
Risk of Electrical Shock
Risk of Burns V4.0

www.nie-tech.com

Documents / Resources

EVA LOGIK WF31T 3 Way WiFi Toggle Dimmer Switch [pdf] Installation Guide
WF31T, 3 Way WiFi Toggle Dimmer Switch