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## Aqara WS-K04E

# Aqara Smart Light Switch H2 (3-Channel, WS-K04E) User Manual

MODEL: WS-K04E | BRAND: AQARA

## 1. Introduction

The Aqara Smart Light Switch H2 (WS-K04E) is a versatile smart wall switch designed for modern smart homes. It supports both Thread and Zigbee protocols, ensuring broad compatibility with major third-party platforms such as Apple Home, Google Home, Alexa, SmartThings, and Home Assistant. This 3-channel switch features 4 buttons, offering flexible control over lighting and smart home automations. It supports both neutral and no-neutral wiring for simplified installation, with advanced features like power monitoring and overload protection available when a neutral wire is connected.

## 2. Product Features

- **Decoupled Switch Mode:** The top 3 buttons can function as wireless switches, allowing them to trigger scenes or automations without physically controlling the relay. This provides enhanced flexibility for smart home setups.
- **Thread/Zigbee Protocol:** Supports Matter-over-Thread and Zigbee for compatibility with Apple Home, Google Home, Alexa, SmartThings, and Home Assistant. Zigbee mode unlocks full Aqara Home features including MARS Tech and LED indicator customization.
- **2-in-1 Neutral Compatibility:** Designed to work with both neutral and no-neutral wiring configurations. Power monitoring and overload protection features are active with neutral wiring.
- **Power-Off Memory Mode:** Retains the last on/off state of connected appliances after a power outage. Behavior can be customized in Aqara Home to restore previous settings, always power on, always power off, or reverse the state.
- **Home Automation:** Enables remote control, scheduling, voice commands, and integration with other smart devices for comprehensive smart home automation.

## 3. What's in the Box

- Light Switch H2 US (WS-K04E) x 1

- Wire Nuts Kit x 1
  - Screw Kit x 1
  - Wiring Sticker Sheet x 1
  - User Manual x 1
  - Compliance Statement x 1
- 

## 4. Setup (Installation)

**WARNING: Ensure power is OFF at the circuit breaker before installation to prevent electric shock.**

### 4.1 Identifying Wires

Before beginning installation, identify the wires in your wallbox. Use a non-contact voltage tester to confirm wires are de-energized.

- **Line (Hot) Wire:** Typically black, this wire carries live current from the circuit breaker. It will beep with a voltage tester when power is on.
- **Load Wire:** Typically black, this wire connects to the light fixture.
- **Neutral Wire:** Typically white, this wire completes the circuit.
- **Ground Wire:** Typically green or bare copper, this wire provides a safety path for electricity.
- **Traveler Wires:** (For 3-way setups) These wires connect two switches controlling the same light.

### 4.2 Single-Pole Wiring

1. Turn off the power to the circuit at the circuit breaker. Verify power is off by attempting to turn on devices connected to the circuit.
2. Disassemble the plate and frame of the existing switch.
3. Disconnect wires from the traditional switch.
4. Connect the ground wire (green wire) from the Aqara switch to the ground wire in the wallbox using a wire nut.
5. If present, remove the wire nut from the neutral wire bundle in the wallbox. Take the N (white wire) from the Aqara switch, line up all ends of wires, and twist them together. Trim the ends if necessary and twist on the wire nut tightly.
6. Connect the L (black wire) from the Aqara switch to the Line wire in the wallbox. Twist on a wire nut tightly.
7. Connect the L1 (brown wire) from the Aqara switch to the Load wire in the wallbox. Twist on a wire nut tightly.
8. Cap any unused wires (e.g., TW blue wire for single-pole) with a wire nut.
9. Give all wires a final tug to ensure a secure connection.
10. Carefully push the Aqara switch into the wallbox and screw it into place.
11. Screw the frame onto the wallbox, then snap on the plate to finish.
12. Turn the power back on at the circuit breaker. Test the switch by switching it on and off via the top button.

*Official Aqara Light Switch H2 Installation Video. This video demonstrates the wiring process for single-pole installations.*

### 4.3 3-Way Wiring (Light Outside Two Switches)

*\*Note: Only the Light Switch H2 US (2 Buttons, 1 Channel) supports 3-way wiring. This manual focuses on the 3-Channel version (WS-K04E), which does not support 3-way wiring. Please refer to the specific manual for the 2-Button, 1-Channel version if 3-way wiring is required.*

#### 4.4 Adding the Device to the App (Matter over Thread)

1. After initial powering-on, the device will send a reset status, so no need for reset during first-time device adding.
2. Double-press any button on the switch, then press and hold for more than 5 seconds until the indicator light blinks green, which means the reset is successful.
3. Open your Matter-compatible app (e.g., Aqara Home, Apple Home, Alexa, Google Home).
4. Scan the Matter QR setup code on the device or user manual, or enter the numeric setup code printed on the manual or the device.
5. Follow the on-screen instructions in the app to complete the pairing process.



*Image: Aqara Smart Light Switch H2 with Matter over Thread setup on a smartphone. The device supports Matter over Thread for broad compatibility.*

#### 4.5 Thread/Zigbee Protocol Switching

The Aqara Smart Light Switch H2 supports both Thread and Zigbee protocols. You can switch between

these modes based on your preferences and ecosystem setup.

- **To Switch from Thread to Zigbee Protocol:** Reset the device to factory settings (press any button 10 times) and ensure it's in networking mode (slow-blinking LED). Open the Aqara Home app, tap "Add Accessory", keep the phone close to the device, and wait for it to show on the discovery section of the app. Tap the icon > "Switch Protocol" > select "Zigbee". Proceed following the app's instructions.
  - **To Switch from Zigbee to Thread Protocol:** If you want to switch back to Thread Mode, factory reset the device and re-add using the Aqara Home app.
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## 5. Operating

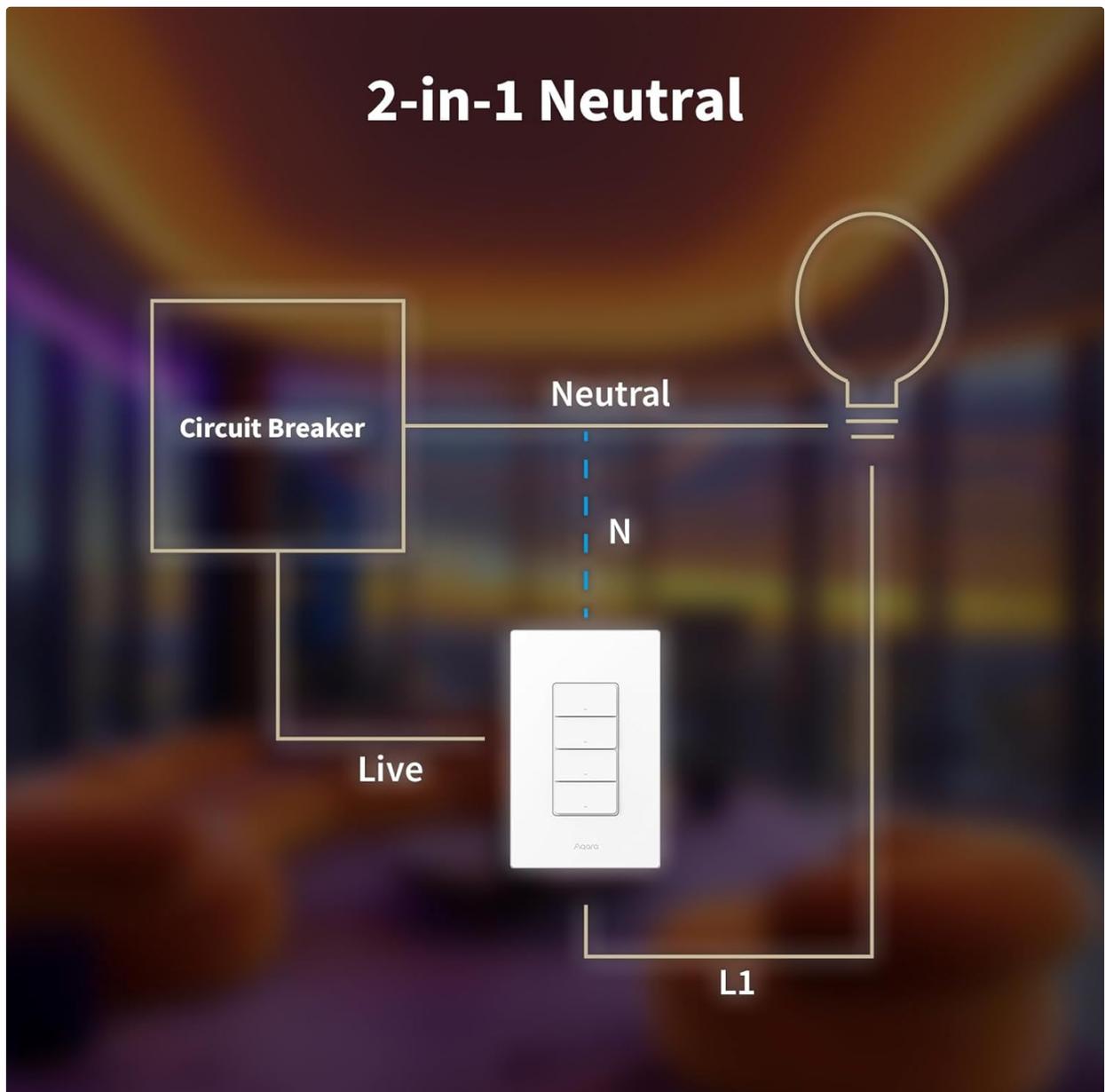
### 5.1 Basic On/Off Control

Press any of the physical buttons on the switch to toggle the connected lights on or off. The LED indicator will reflect the current status.

### 5.2 Decoupled Switch Mode

In Decoupled Switch Mode, the physical upper buttons can be configured to act as wireless triggers for scenes or automations within your smart home system, without directly controlling the electrical relay. This ensures that the light remains controllable via app/automation/voice commands, unaffected by physical button presses.

# 2-in-1 Neutral



*Image: Decoupled Switch Mode allows buttons to trigger smart home automations.*

## 5.3 Power Monitoring

When connected with a neutral wire, the switch can monitor power consumption. Access the Aqara Home app to view detailed energy data and charts by day, week, or year. This feature helps track usage and provides insights for energy-saving plans.



*Image: Power monitoring feature displayed on the Aqara Home app.*

#### **5.4 Power-Off Memory Mode**

This feature ensures that your connected appliance retains its last settings after a power outage, automatically resuming operation as it was (either on or off). You can customize its behavior in the Aqara Home app to restore previous settings, always power on, always power off, or even reverse the previous state.

#### **5.5 Custom Press Mode**

For the wireless switch buttons (lower buttons), you can configure different actions for single-press, double-press, and long-press events. This expands the automation possibilities within your smart home system.

#### **5.6 Indicator Light Reversed**

The configurable LED indicator light can be reversed. This means when the relay is turned off, the indicator light turns on, and vice versa. This feature can be useful for locating the switch in the dark.

#### **5.7 MARS Tech**

MARS Tech (Aqara Smart Load) keeps your Aqara smart lights constantly powered, ensuring the light remains online even if the switch is accidentally turned off. The LED indicator light on the smart switch stays synchronized with the on/off status of the smart light and app, ensuring consistent status across all devices.

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## 6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the switch. Avoid using harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Regularly check for and install firmware updates via the Aqara Home app to ensure optimal performance and access to new features.

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## 7. Troubleshooting

- **Switch Not Responding:** Ensure the device is properly powered and connected to your smart home hub/controller. Check the LED indicator for status. Try resetting the device if issues persist.
- **Connectivity Issues:** Verify your Wi-Fi network is stable and your smart home hub/controller is online. Ensure the switch is within range of the hub/controller or a Thread Border Router.
- **Features Unavailable:** Some advanced features like power monitoring and overload protection require neutral wiring. Ensure your installation meets these requirements. Full functionality is best achieved in Zigbee mode with an Aqara hub.
- **Lag in Automation:** If experiencing delays, ensure the switch firmware is updated. Connecting to neutral wiring can significantly reduce latency for automations.

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## 8. Specifications

Attribute	Value
Model Number	WS-K04E
Operation Mode	ON-OFF
Current Rating	10 Amps
Operating Voltage	120 Volts
Connectivity Protocol	Thread, Zigbee, Bluetooth
Control Method	App, Remote, Touch, Voice
Wattage	1200 watts
Product Dimensions	4.69 x 2.91 x 1.65 inches
Item Weight	8.1 ounces
Material	Polycarbonate
Manufacturer	Lumi United Technology Co., Ltd

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## 9. Warranty & Support

For warranty information and technical support, please contact the manufacturer:

- **Manufacturer:** Lumi United Technology Co., Ltd
- **Email:** [support@aqara.com](mailto:support@aqara.com)
- **Online Customer Service:** [www.aqara.com/support](http://www.aqara.com/support)