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› Aqara Touchscreen Switch S100 US User Manual

Aqara WS-K06E

Aqara Touchscreen Switch S100 US User Manual

Model: WS-K06E | Brand: Aqara

1. PRODUCT OVERVIEW

The Aqara Touchscreen Switch S100 US is an LCD smart light switch designed for modern smart homes. It features a vibrant color LCD screen for displaying scenes and devices, complemented by two physical buttons for traditional control. The switch supports native Matter over Wi-Fi and includes a built-in Thread Border Router, enabling broad compatibility with major smart home ecosystems such as Apple Home, Amazon Alexa, Google Home, SmartThings, and Home Assistant.

Key features include:

- **LCD Screen with Custom Display:** Personalize device layout and standby wallpaper.
- **Physical Buttons:** Two physical buttons offer reliable control, with three programmable modes (Dual, Standard, Wireless).
- **Native Matter Support:** Connects directly to Matter ecosystems over Wi-Fi.
- **Built-in Thread Border Router:** Enhances network stability for Thread devices.
- **8 Wireless Buttons:** Includes 2 wired switches (also wireless triggers) and 6 on-screen wireless buttons for scene activation.
- **Device & Scene Control:** Manage Matter and Aqara Zigbee devices, lights, plugs, and automations from the screen.
- **Energy Use Tracking:** Monitor real-time and historical power consumption.

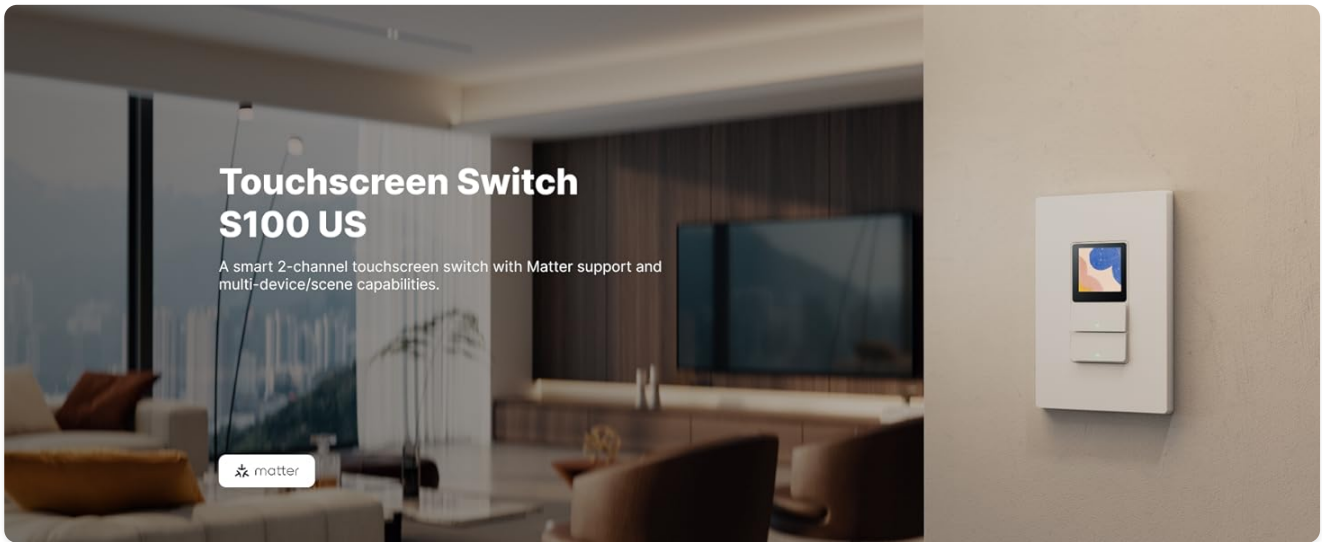


Image: The Aqara Touchscreen Switch S100 US, showcasing its sleek design and integrated screen.

2. WHAT'S IN THE BOX

The product package contains the following items:

- Aqara Touchscreen Switch S100 US × 1
- User Manual × 1
- Screw Kit × 1
- Wire Nuts Kit × 1

Matter over Wi-Fi Out of the Box

Ensures seamless setup and operation within the new Matter standard over 2.4 GHz or 5 GHz Wi-Fi. Scan the code and you are done.



* To use the device with a particular Matter ecosystem, a Matter hub of this ecosystem is required.

** In Apple Home using iOS 18+, Matter devices can be added and controlled locally with iPhone only, but automations / sharing / remote need a home hub.

Image: All components included in the Aqara Touchscreen Switch S100 US package.

3. SAFETY INFORMATION

Warning: Please ensure the main circuit breaker is turned off before installation. Always verify power is off by testing devices powered by the switch. This instruction is intended for users familiar with electrical installation. It is advised to contact a professional electrician for assistance and use these instructions as a reference only.

The Touchscreen Switch S100 US supports neutral wiring only. Ensure a neutral wire is present in your wall box. Do not touch any exposed wires or terminals with bare hands during installation. Use insulating gloves for protection.

Your browser does not support the video tag.

Video: An instructional video demonstrating the safety precautions and initial steps for installing the Aqara Touchscreen Switch S100 US, including turning off the circuit breaker.

4. INSTALLATION

4.1 Pre-installation Steps

1. **Turn off Power:** Locate your circuit breaker panel and turn off the main circuit breaker controlling the switch you intend to replace. Verify the power is off by attempting to turn on devices connected to the switch.
2. **Check for Neutral Wire:** The S100 US requires a neutral wire. Confirm its presence in your wall box before proceeding.

4.2 Removing the Old Switch

Carefully remove the two screws on the outer switch plate. Unscrew the mounting screws on the switch. Gently pull out the switch from the box to identify wires first. Take a photo of the original wiring configuration for reference before disconnecting any wires.

4.3 Identifying Wires

Use a non-contact voltage tester to identify wires. With the switch in the "off" status:

1. The wire that causes the tester to beep is the **hot (line/live) wire**.
2. To double-check, turn the switch on and test again. All wires should now cause the tester to beep. The wire that was not beeping previously is the **load wire** (it's now receiving power because the switch is on).
3. Mark the live/line wire with the provided label. Label other wires if necessary.

4.4 Disconnecting Circuit Wires

Turn off the main circuit breaker again to ensure safety before disconnecting any wires from the old switch.

4.5 Connecting the New Switch

Before installation, disassemble the plate and frame from the new switch. Attach wires on the Touchscreen Switch to the wires extending from the electrical box using wire nuts/connectors if necessary. Wire colors in this guide are for reference only and may not match local standards or actual terminals. Always confirm connections against the product manual. If in doubt, consult a qualified electrician.

- Connect the **G wire** to the ground wire (usually bare copper and in bundle).
- Connect the **N wire** to the neutral wire (usually white and in bundle).
- Connect the **L1 wire** to the first load/light wire.
- Connect the **L2 wire** to the second load/light wire.
- Connect the **L wire** to the line-in/live wire (usually black).

4.6 Complete the Installation

Give all wires a final tug to ensure a secure connection. Carefully fold the wires and tuck them into the box. Screw the switch onto the electrical box by threading the mounting screws. Lastly, attach the plate and its screws accordingly to finish.

4.7 Turn Power Back On

Turn the main circuit breaker back on. If the light can be controlled normally, the switch is working properly.

5. PAIRING AND CONNECTIVITY

5.1 Adding the Device to the Aqara Home App

Once the device displays the Matter code, it means it is in pairing mode. If not, double-press the on/off button, then press and hold it again for more than 5 seconds until the indicator light flashes green slowly, indicating a successful reset.

Open the Aqara Home App. The device should be automatically discovered. Follow the on-screen instructions to complete the pairing process. Alternatively, you can complete pairing by tapping the "+" icon at the top right corner of the app's homepage, selecting "Add Accessory," and then scanning the QR code, or by finding the product in the product list.

**The device features native Matter over Wi-Fi support. To use the device with a particular Matter ecosystem, a Matter hub of that ecosystem is required.*

5.2 Adding to Matter-Enabled Apps

The S100 US supports native Matter, allowing integration with various smart home platforms. To use the device with a particular Matter ecosystem (e.g., Apple Home, Amazon Alexa, Google Home, SmartThings, Home Assistant), a Matter hub of that ecosystem is required.

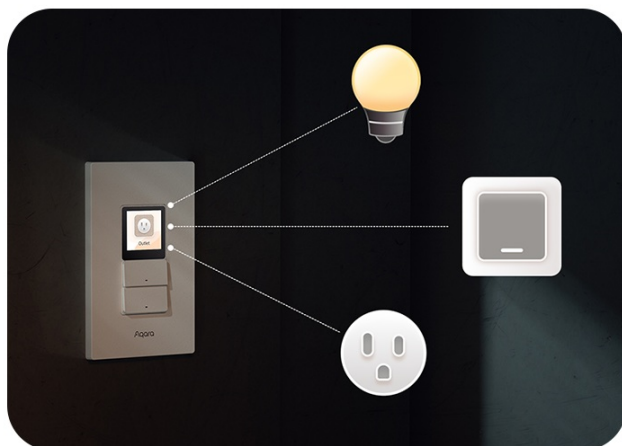
***In Apple Home using iOS 18+, Matter devices can be added and controlled locally with iPhone only, but automations/sharing/remote access require a home hub.*



Image: Diagram illustrating Matter over Wi-Fi compatibility with Apple Home, Alexa, Google Home, SmartThings, Home Assistant, and Aqara Home.

5.3 Thread Border Router

The built-in Thread Border Router enables a robust mesh network, allowing low-power Thread devices to be placed further away from each other. Thread Border Router functionality is supported only in Aqara Home and Samsung SmartThings.



Command Matter Devices at One Tap

One-tap control for your Matter switches, plugs, and lights, right on the screen.

* Actual compatibility may differ by device model and platform.

Image: Illustration of the Thread network, with the Aqara switch acting as a border router to connect various smart devices.

6. OPERATING INSTRUCTIONS

6.1 Independent Screen and Button Control

The S100 US offers both physical button control and touchscreen operations. Each physical button directly controls the wired light, regardless of any actions on the touchscreen. On-screen operations include scene, automation, device, and wireless button controls.

Solid Thread Border Router

Thread border router built-in enables a more robust mesh network, allowing low-power Thread devices to be placed further away from each other.

* Thread Border Router functionality is supported only in Aqara Home and Samsung SmartThings.

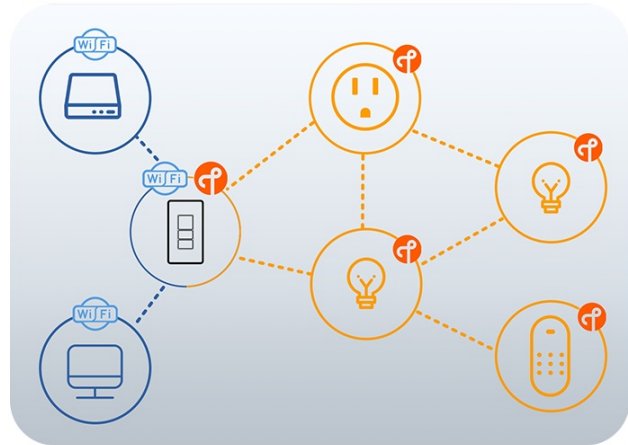


Image: A bedroom setting demonstrating how physical buttons on the Aqara switch independently control wired lights.

6.2 Button Modes

You can configure the physical button mode locally via the screen:

- **Dual Mode:** Both controls the wired light and allows for press-enabled automations.
- **Standard Mode:** Disables the button's wireless function, hence no automation trigger-able.
- **Wireless Mode:** Isolates the wired light from manual pressing, ensuring the light remains consistently on or off. Press for automation only.

Ecosystem	What You Need At Home to Add S100	Can it be Added via Phone Only, No Hub?	Compatibility
Aqara Home	An Matter-enabled Aqara hub with (Hub M3 / M100 / M200, etc.)	NO	Matter over Wi-Fi + Thread Border Router
Apple Home	For full experience: a Home hub (HomePod / HomePod mini / Apple TV HD, etc) as Matter controller	Limited. On iOS 18+, some Matter devices can be added and controlled locally with iPhone only, but automations / sharing / remote need a home hub	Matter over Wi-Fi
Google Home	A Google Matter hub (Nest Hub / Nest Mini / Nest Audio / Nest Wifi Pro, etc) acting as Matter controller	NO	Matter over Wi-Fi
Amazon Alexa	A Matter-enabled Echo or eero as Matter controller (Echo, Echo Dot, Echo Pop, ect.)	NO	Matter over Wi-Fi
Homey	Homey Pro (Early 2023) or Homey Pro mini is the Matter controller	NO	Matter over Wi-Fi
Home Assistant	A Home Assistant instance (HA OS or supervised) with the Matter Server add-on is the Matter controller	NO	Matter over Wi-Fi
Samsung SmartThings	A Matter-capable SmartThings hub (for example SmartThings Station)	NO	Matter over Wi-Fi + Thread Border Router

Image: Visual representation of the three remappable button control modes: Dual Mode, Standard Mode, and Wireless Mode.

6.3 8 Wireless Buttons for Scenes & Routines

The S100 US functions as both a switch and a powerful scene controller. It includes 2 wired switches (which can also act as wireless triggers) plus 6 additional on-screen wireless buttons, providing up to 8 programmable scene triggers.

Feature/Integration Method	On/off Light + Wireless Buttons	Power Metering	Screen Configuration (card layout; card sequence)	Device Linking	Scene Linking	Edit Device Card	Power-Off Memory	Device Diagnostics	Search for Device
Added via Aqara Home <small>*An Aqara's Matter hub is required, with firmware version above 4.5.30 (only Hub M3, M100, M200, W200 is supported by the time of launch).</small>	✓	✓	✓	✓	✓	✓ (Name/icon/location)	✓	✓	✓
Added via 3rd Party Matter Ecosystems (Apple, Google, etc.) <small>* To use the device with a particular Matter ecosystem, a Matter hub of this ecosystem is required.</small>	✓ (Wireless button availability varies by ecosystem)	(Wireless button availability varies by ecosystem)	—	—	—	✓ (Only icon)	—	—	—

Image: Depiction of the touchscreen displaying up to 8 smart home shortcuts or wireless buttons.

6.4 Master Control of Devices & Scenes

Control your Matter devices, Aqara Zigbee devices, lights, plugs, and automations directly from the screen. Create custom scenes like “Good Morning,” “Movie Night,” or “All Off” and activate them instantly. This consolidates smart home controls into one visual interface on the wall.

**Device/scene control and relevant card layout configuration are only available via the Aqara Home app. Ensure the Aqara Matter hub firmware is above 4.5.30 (Hub M3, M100, M200, W200 supported at launch).*



Matter over Wi-Fi Out of the Box

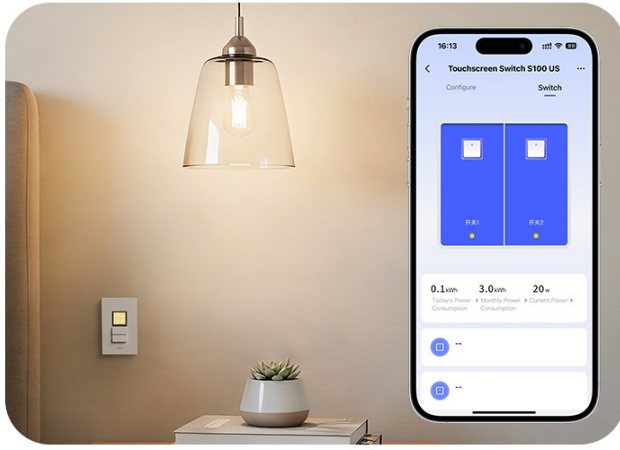
Ensures seamless setup and operation within the new Matter standard over 2.4 GHz or 5 GHz Wi-Fi. Scan the code and you are done.

* To use the device with a particular Matter ecosystem, a Matter hub of this ecosystem is required.
 ** In Apple Home using iOS 18+, Matter devices can be added and controlled locally with iPhone only, but automations / sharing / remote need a home hub.

Image: A hand interacting with the touchscreen to control various smart home devices and scenes.

6.5 Customizable Screen Layout

For devices or scenes linked to the screen, the card can be configured to show 1-2 segments for flexibility, with a maximum card number of 12. Easily swap places and sequence of selected items, and adjust their size.



Energy Use at a Glance

See exactly how much energy your lights use in real time and over time, with clear data by day, week, month, or year so you can spot patterns, cut waste, and save on bills.

* Power monitoring availability varies by Matter platform.

Image: Two examples of screen layouts on the Aqara switch, demonstrating customization options for card size and arrangement.

7. ECOSYSTEM COMPATIBILITY

The Aqara Touchscreen Switch S100 US offers broad compatibility with various smart home ecosystems through Matter over Wi-Fi and its built-in Thread Border Router.

7.1 Required Hubs for S100 Integration

Aqara Scene Setter and Zigbee Devices Controller

Can link and control existing scenes and compatible Zigbee devices on screen.

*Supported device type: wall switches, plugs and outlets, and lights.

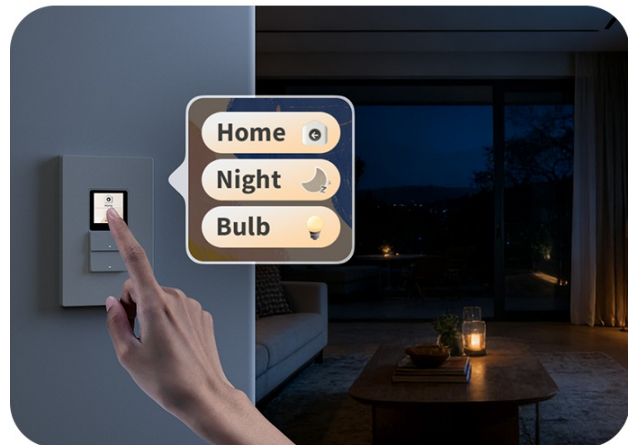


Image: A table detailing the Matter ecosystems compatible with the S100 US, including required hubs and whether phone-only addition is possible.

7.2 Feature Integration Comparison



Independent Screen and Button Control

2 physical button directly controls the wired lights respectively, regardless of any actions on the touchscreen.

*Wired lights (button-control devices) are not displayed on the screen by default, unless the user configures them explicitly.

Image: Part 1 of a table comparing features available when the S100 US is added to Aqara Home versus third-party Matter ecosystems.

Screen Layout As You Wish

For device/scene linked to the screen, the card can be configured to show 1-2 segments for more flexibility, with the maximum card number of 12. Easily swap places and sequence of the selected items, which one comes first, which one can be smaller, etc.

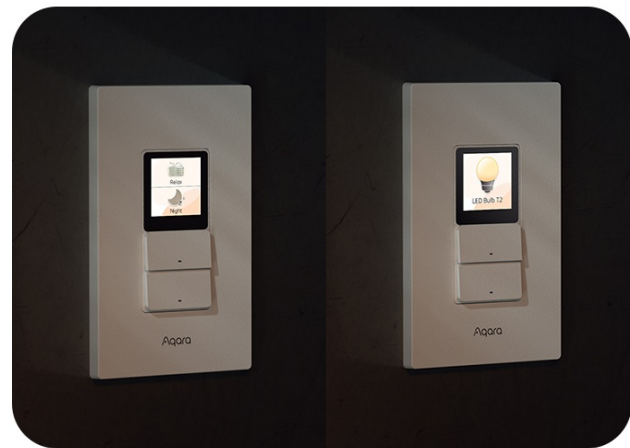


Image: Part 2 of a table comparing features available when the S100 US is added to Aqara Home versus third-party Matter ecosystems.

8. ENERGY MONITORING

The S100 US allows you to track and record energy usage. View real-time power consumption and monitor daily or monthly use trends directly in the app. This feature helps identify energy waste and optimize schedules for a more energy-efficient home.

*Power monitoring availability varies by Matter platform.



Feature/Integration Method	Brightness Adjustment	Proximity Activation	Sound Settings	Language Settings	Screen Rotation	Button Mode	Reset Network	Standby Wallpaper	Icon Settings (Card)	Restart
Added via Aqara Home  <small>*An Aqara's Matter hub is required, with firmware version above 4.5.30 (only Hub M3, M100, M200, W200 is supported by the time of launch).</small>	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
Added via 3rd Party Matter Ecosystems (Apple, Google, etc.)  <small>* To use the device with a particular Matter ecosystem, a Matter hub of this ecosystem is required.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Image: A smartphone screen showing the energy usage interface for the Aqara Touchscreen Switch S100 US, displaying daily and monthly consumption.

9. SPECIFICATIONS

Feature	Specification
Model	WS-K06E
Brand	Aqara
Operation Mode	ON-OFF
Current Rating	10 Amps
Operating Voltage	110 Volts
Contact Type	Normally Closed
Connector Type	Clamp
Switch Type	Push Button
Terminal	Pigtail Wire
Material	Polycarbonate, Brass (Contact Material)
Item Dimensions (L x W x H)	4.68 x 2.91 x 1.65 inches
Circuit Type	1-way
Mounting Type	Wall Mount
Number of Positions	2
Upper Temperature Rating	40 Degrees Fahrenheit
Controller Type	Amazon Alexa, Apple HomeKit, Google Assistant
Control Method	Push Button, Touch, Voice

Feature	Specification
Connectivity Protocol	Bluetooth, Matter, Thread, Wi-Fi
Wattage	400 watts
Color	White
International Protection Rating	IP00
Specification Met	ETL, FCC, IC
UPC	192784001684



Image: Detailed dimensions of the Aqara Touchscreen Switch S100 US, including front and side views.

10. TROUBLESHOOTING

If you encounter issues with your Aqara Touchscreen Switch S100 US, consider the following:

- **No Power:** Ensure the circuit breaker is on and all wires are securely connected. Verify the presence of a neutral wire.
- **Pairing Issues:** Double-check that the device is in pairing mode (Matter code displayed or green indicator light flashing slowly after reset). Ensure your Matter hub is powered on and within range.
- **Unresponsive Screen/Buttons:** Try resetting the device by double-pressing and holding the on/off button for more than 5 seconds.
- **App Connectivity:** Ensure your smartphone is connected to the same Wi-Fi network as your Matter hub during setup. Check for firmware updates for both the switch and your Matter hub.
- **Matter Ecosystem Limitations:** Refer to the 'Feature Integration Comparison' table in Section 7.2 to understand potential feature differences across various Matter platforms.

11. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please refer to the official Aqara website or contact Aqara customer service directly. Keep your purchase receipt for warranty claims.
