

Presence Switch H2 US

User Manual_v1.0

For

Presence Switch H2 US (2 Buttons, 1 Channel)

Presence Switch H2 US (2 Buttons, 2 Channels)

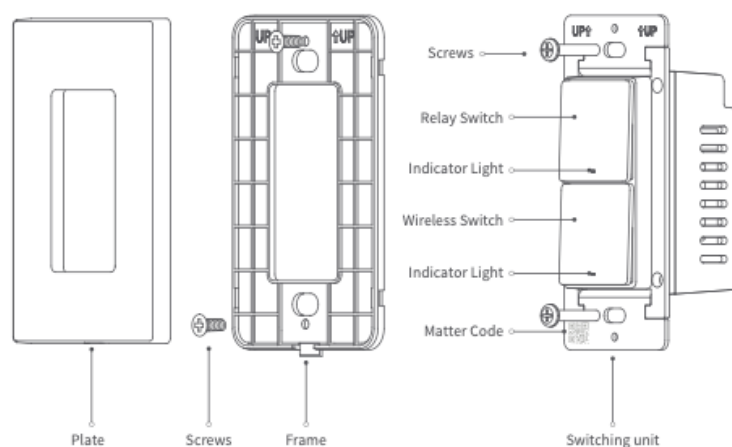
Presence Switch H2 US (4 Buttons, 3 Channels)

【EN】

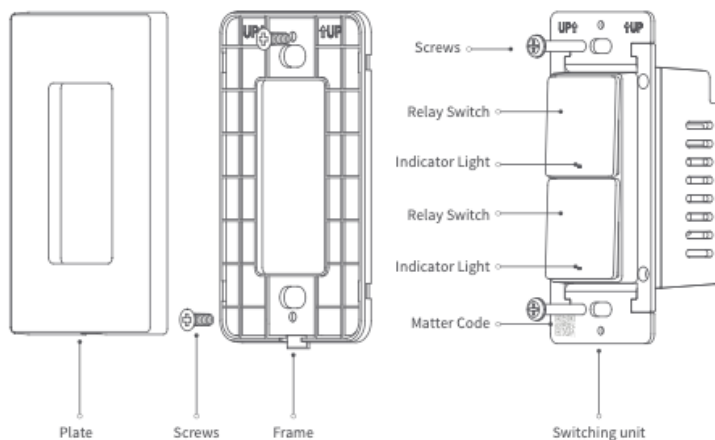
Product Introduction

Aqara Presence Switch H2 US is a smart switch based on **Thread/Zigbee** wireless communication protocols which can control lights, automations, and scenes. When used with a hub, it can be controlled via the app, and has features for scheduling, power monitoring, power statistics, and other functions. It can also be used with other smart devices to enable a variety of interconnected control functions.

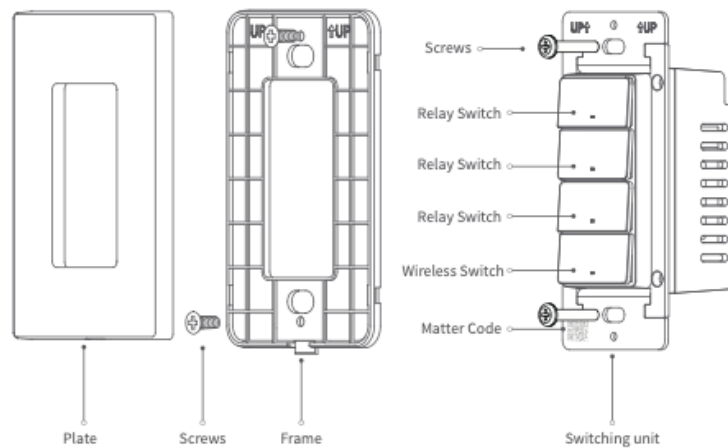
***This product needs to be used with a device that has Matter Border Router function.**



Presence Switch H2 US (2 Buttons, 1 Channel)



Presence Switch H2 US (2 Buttons, 2 Channels)



Presence Switch H2 US (4 Buttons, 3 Channels)

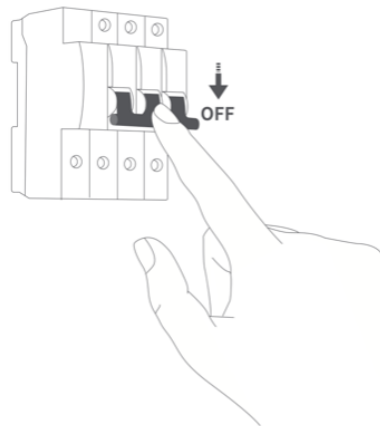
Warnings

1. This product is not a toy. Please keep it away from children.
2. This product is designed for indoor use only.
3. Do not use in humid environments or outdoors.
4. Moisture will damage the product. Do not spill water or other liquids onto the product.
5. Do not place this product near a heat source. Do not place it in an enclosed area unless there is adequate ventilation.
6. Do not attempt to repair this product by yourself. All repairs should be performed by an authorized professional.
7. This product is suitable for home monitoring and smart home integration, The manufacturer is not responsible for any risks or property losses caused by misuse or failure to follow the product instructions.

Installation Method

Presence Switch H2 US (2 Buttons, 1 Channel)

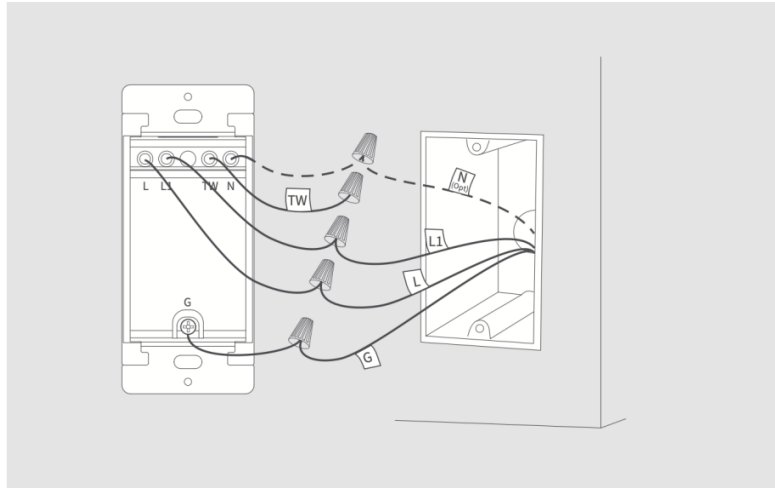
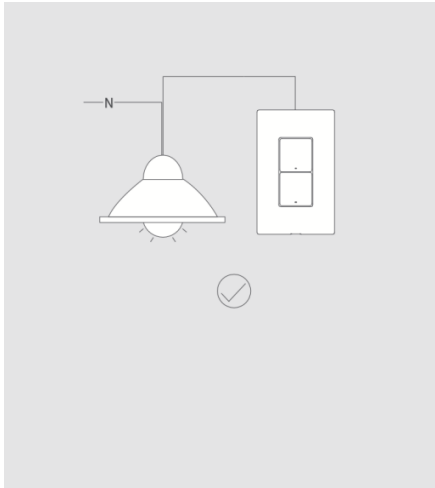
1. Please make sure that the power at circuit breaker or fuse box is turned off before wiring!



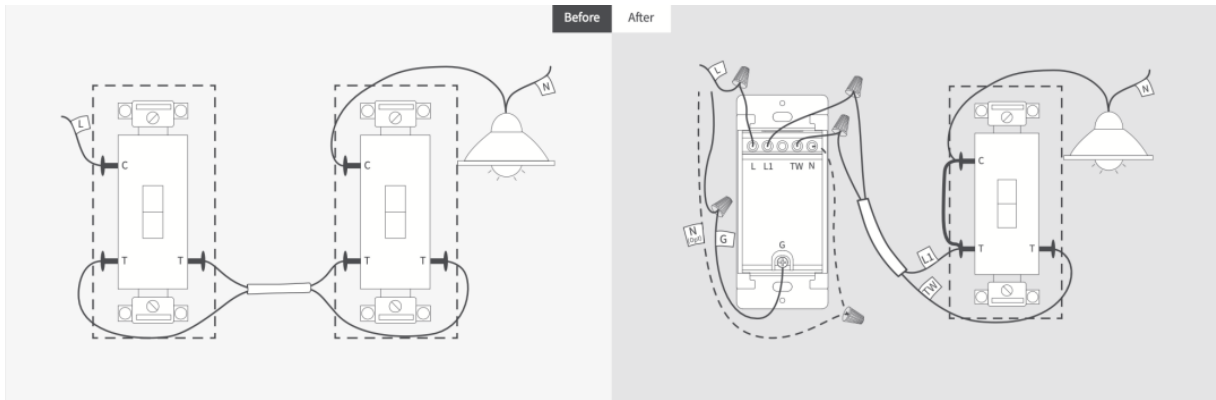
2. Identify the type of electrical circuit in your home. For the 2 button and 1 channel switch, we support three types of circuits:

- a) single pole
- b) 3-way (light outside two switches)
- c) 3-way (light between two switches)

Please follow the instructions below to determine your home's circuit type and wire it correctly. For 3-way circuit wiring, we recommend seeking assistance from a professional electrician.

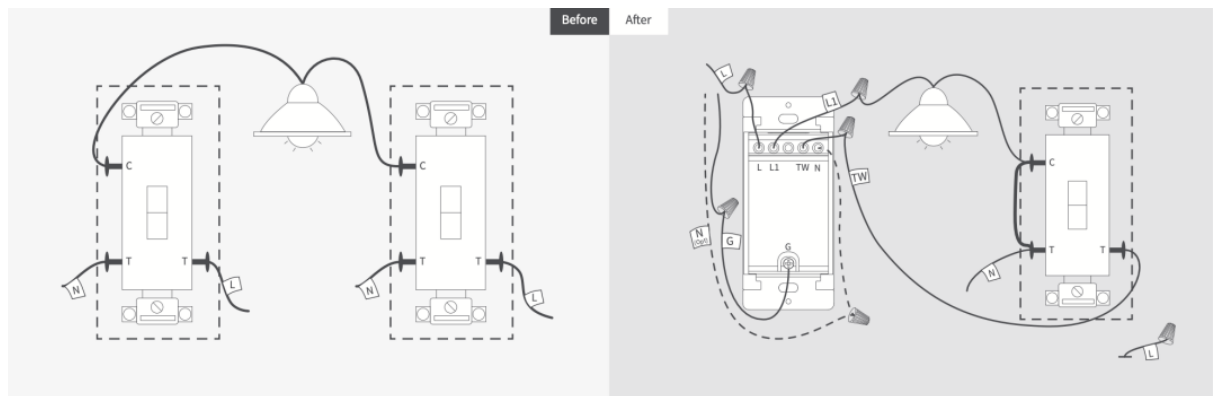


Single Pole Wiring



3-Way (Light Outside Two Switches)

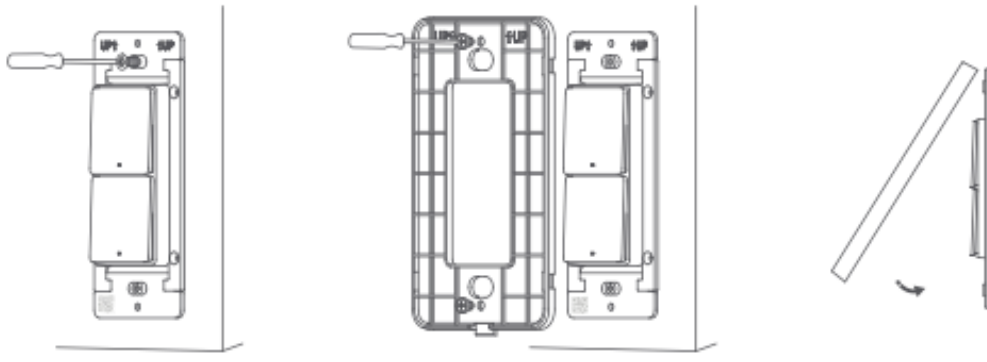
* Use only one switch in a 3-way circuit, the other end needs to be a normal standard switch. Both the old and new switch circuits need to be rewired according to the diagram.



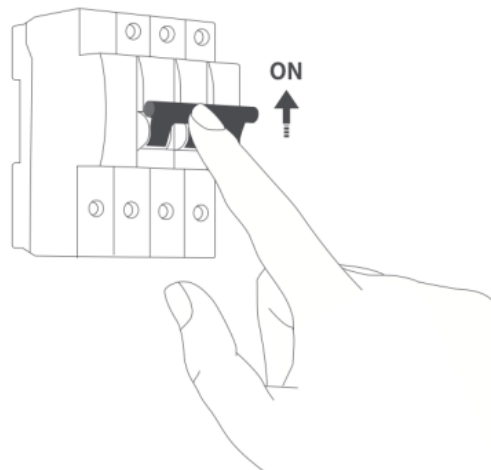
3-Way (Light Between Two Switches)

*** Use only one switch in a 3-way circuit, the other end needs to be a normal standard switch. Both the old and new switch circuits need to be rewired according to the diagram.**

3. Mount the switch unit to the electrical box with the attached screws. Then mount the frame to the switch unit with screws, and attach the faceplate cover to the frame.



4. Turn on the power at the circuit breaker and test the switch by pressing the upper button. If the wired light can be controlled by the upper button, the switch is functioning correctly.



5. In the Aqara Home app, tap Add Accessory, choose Presence Switch H2 US. Scan the Matter QR Code on the paper manual to add the device to the app. The

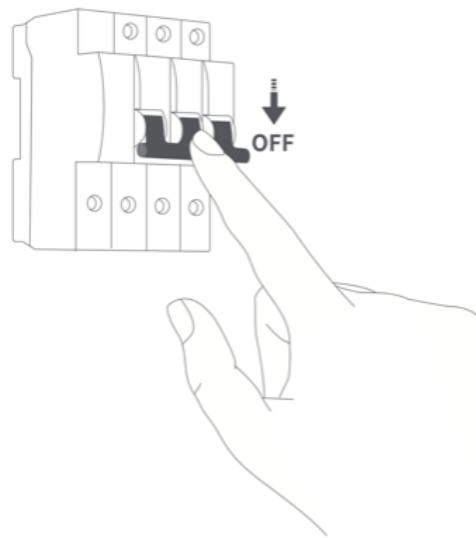
following Quick Setup section will introduce the network configuration methods for both Zigbee and Thread protocols.

***If the QR code on the paper manual is lost, you can remove the plastic cover frame and scan the QR code on the mounting bracket of the product.**

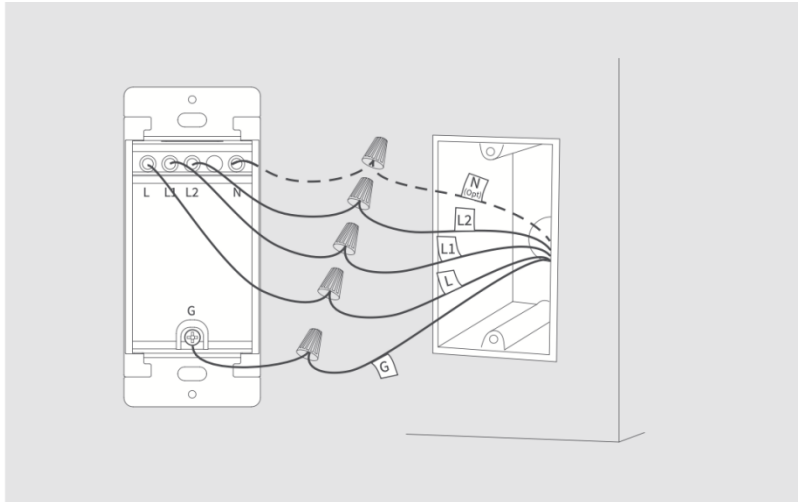
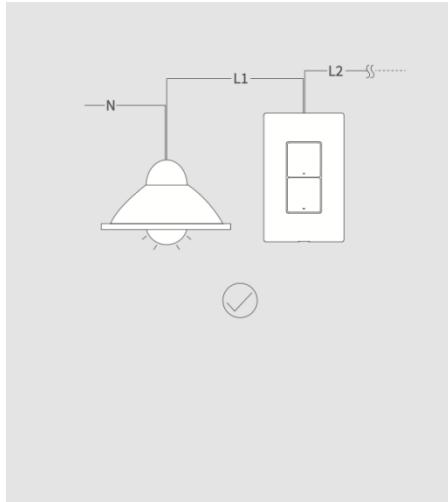
Presence Switch H2 US (2 Buttons, 2 Channels)

Presence Switch H2 US (4 Buttons, 3 Channels)

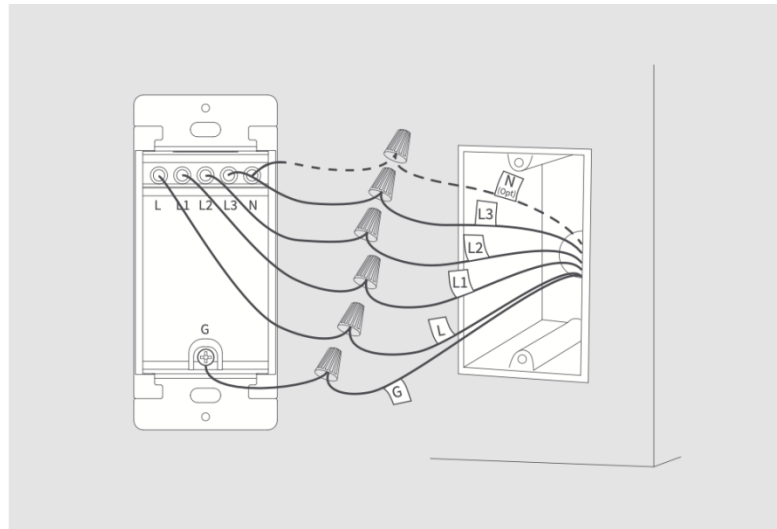
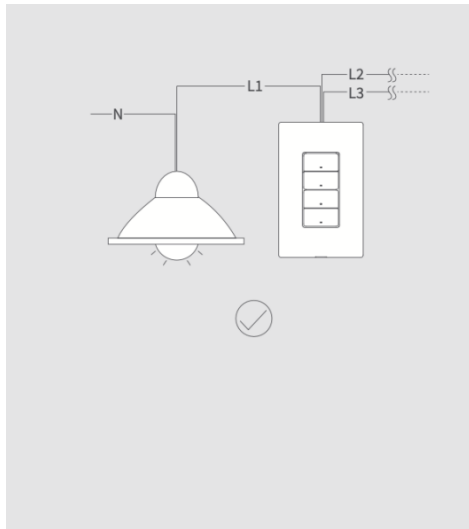
1. Please make sure that the power at circuit breaker or fuse box is turned off before wiring!



2. For users with Presence Switch H2 US (2 Buttons, 2 Channels) or (4 Buttons, 3 Channels), please follow the corresponding wiring methods according to your product model. It is recommended to seek assistance from a professional electrician to complete this step.

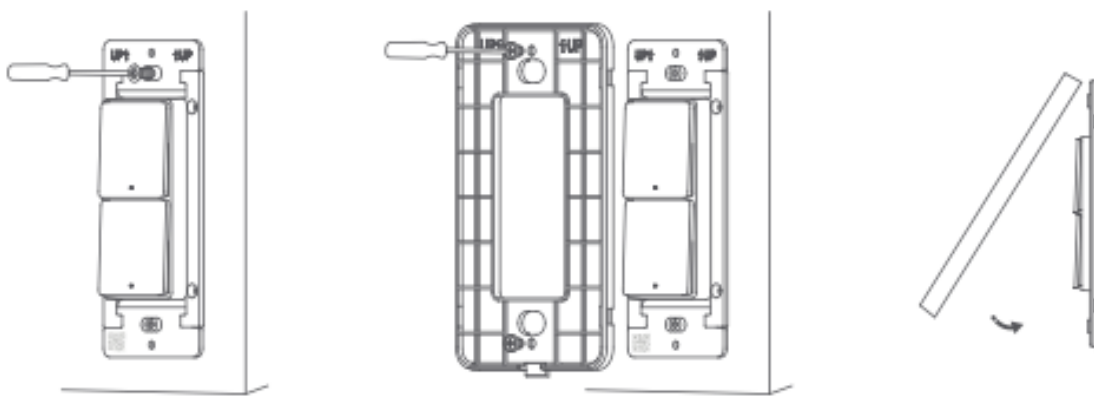


2 Buttons, 2 Channels

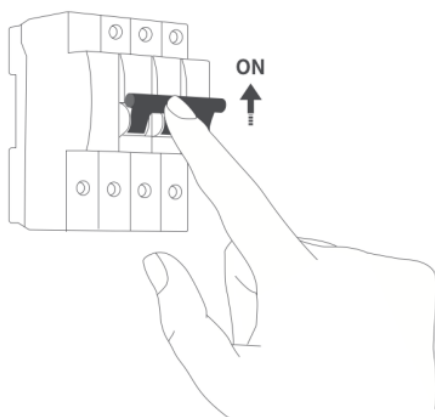


4 Buttons, 3 Channels

3. Mount the switch unit to the wall electrical box with the attached screws. Then mount the frame to the switch unit with screws, and attach the faceplate cover to the frame.



4. Turn on the power at the circuit breaker and test the switch by pressing the upper button. If the wired light can be controlled by the upper button, the switch is functioning correctly.



5. In the Aqara Home app, tap Add Accessory, choose Presence Switch H2 US. Scan the Matter QR Code on the paper manual to add the device to the app. The following Quick Setup section will introduce the network configuration methods for both Zigbee and Thread protocols.

***If the QR code on the paper manual is lost, you can open the product cover and scan the QR code on the metal frame of the product.**

Quick Setup

To use the device with a particular Matter ecosystem (Thread Mode), a Matter Controller of this ecosystem and a Thread Border Router are required.

1. Double-press any button, then press and hold it for 5 seconds until the green indicator light starts blinking. This indicates that the device is in pairing mode.
2. Open the app that supports Matter, scan the Matter code on the manual or product, or enter the setup code to add the device to the app.
3. Proceed following the app's instruction.

To use the device in Aqara Home (Thread Mode), an Aqara Hub with border router function (for example, Hub M3) is required:

1. Double-press any button, then press and hold it for 5 seconds until the green indicator light starts blinking. This indicates that the device is in pairing mode.
2. In the Aqara Home app, tap Add Accessory, choose Presence Switch H2 US. Scan the Matter code on the manual or product or enter the setup code to add the device to the app. Select Thread on the Switch Protocol page.
3. Proceed by following the app's instruction.

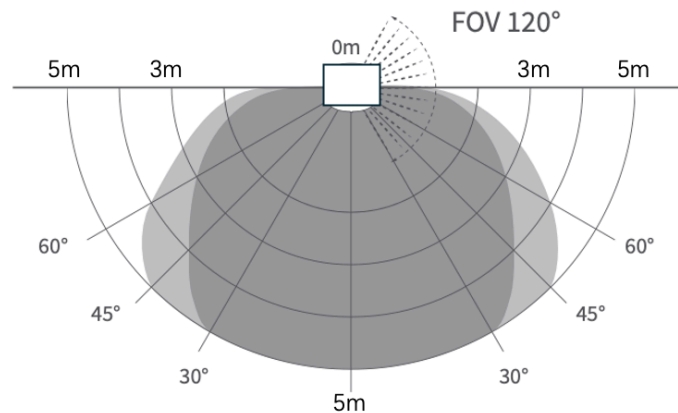
To use the device in Aqara Home (Zigbee Mode), an Aqara Zigbee Hub is required:

1. Double-press any button, then press and hold it for 5 seconds until the green indicator light starts blinking. This indicates that the device is in pairing mode.
2. In the Aqara Home app, tap Add Accessory, keep your phone close to the device, and Presence Switch H2 US will appear in the app's discovery section (at the top left). Tap the icon and select Zigbee on the Switch Protocol page.
3. Proceed by following the app's instruction.

Presence Sensor Features

Detection Range Setting

Wall Mounting: When Wall Mounting, the device has a maximum detection distance of 5m, a field of view (FOV) angle of 120°, and a close-range FOV angle of up to 180°.



The device has a default maximum detection range of 5m and supports three adjustable detection distance levels: near (approx. 1 m), medium (approx. 3 m), and far (approx. 5 m).

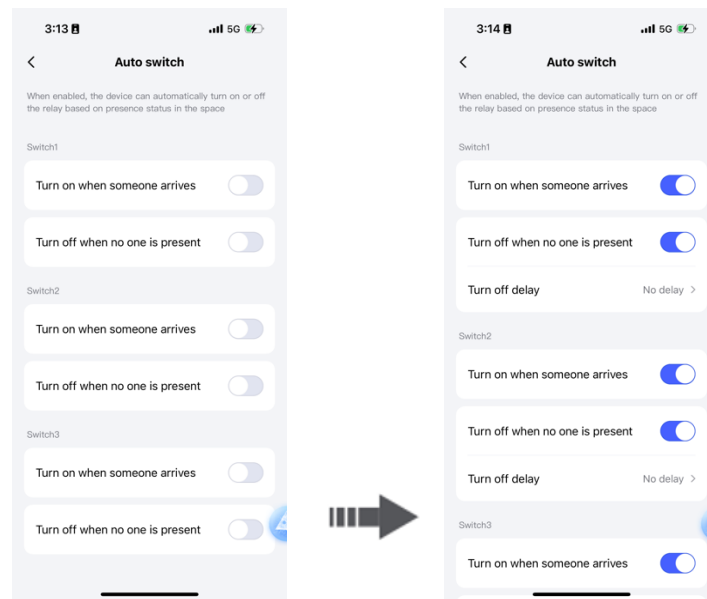
*** The above detection range is based on ideal test data. The actual detection range during use may vary depending on the specific environment and conditions. It is recommended to configure the detection range according to actual needs, exclude unnecessary detection areas, and improve detection accuracy.**

Auto Switch

This is a quick setting. When this feature is enabled, the device can automatically turn the relay on or off based on the presence status in the space. Users can specify whether each switch should automatically turn on or off and set a turn off

delay as needed.

***To optimize user experience, the device has a default unoccupied determination delay of 10 seconds. Therefore, even if no turn off delay is set, there will still be a 10-second delay.**



The same functionality can also be achieved through the following automation:
If "Presence" , then "turn on the light" ;
If "Absence for a certain period of time" , then " turn off the lights or the air conditioning" .

AI Spatial Learning

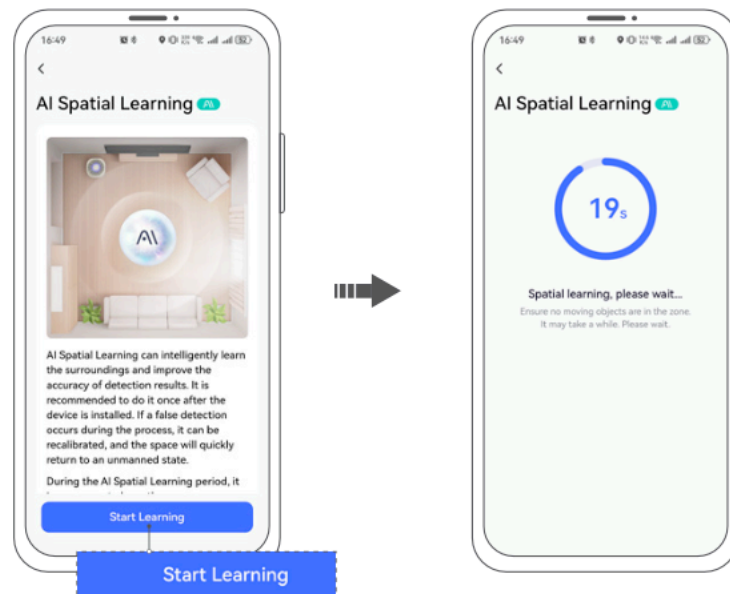
AI spatial learning can intelligently learn the environmental background, eliminate the false alarms of large areas of glass, metal, mirrors, etc. on the detection results, intelligently adapt to environmental false alarms sources, and improve the accuracy of detection results.

It is recommended that users actively conduct AI spatial learning after the device is installed. AI spatial learning requires that the space be unmanned and takes

about 30 seconds. Please wait patiently.

During use, the device will continue to learn the spatial background through AI to adapt to the real-time changing spatial environment, making the device more accurate with use.

If, under special circumstances, the user finds that the device mistakenly reports a false presence status when the space should be absence, an AI spatial learning can be performed immediately to quickly restore the space to an empty state.



*** If the device mistakenly detects presence, you can use the AI Spatial Learning to quickly correct it. With AI false-alarm identification and continuous self-learning, the device becomes more accurate over time. For best performance, avoid installing it near air conditioners, air purifiers, or fans.**

Regarding Dual Protocol (Thread/Zigbee) Switching

Q: How to switch from Thread protocol to Zigbee protocol?

A:

1. Install the Aqara Home app, and enable Wi-Fi and Bluetooth.
2. Reset the device to factory settings (press any button 10 times continuously) to enter network setup (the first time you add the device it will automatically begin pairing), with its green indicator light flashing quickly.
3. In the Aqara Home app, tap Add Accessory, scan the Matter code on the manual or product, then select Zigbee on the Switch Protocol page. Proceed by following the app's instruction.

Q: How to switch from Zigbee protocol to Thread protocol?

A:

1. Install the Aqara Home app, and enable Wi-Fi and Bluetooth.
2. Reset the device to factory settings (press any button 10 times continuously), then enter network setup (yellow indicator light flashes quickly).
3. In the Aqara Home app, tap Add Accessory, keep the phone close to the device, and the Presence Switch H2 US will show in the app's discovery section (at the top left). Tap the icon and select Thread in the Switch Protocol page. Proceed by following the app's instruction.

Indicator Light Description

Indicator light status	Description
Green indicator light quickly flashes 3 times	Device powered on
Green indicator light flashes quickly	Pairing/Seeking Device (Thread protocol)
Green indicator light stays on for 1s	Pairing successful
Red indicator light stays on	Device offline
Red indicator light flashes slowly 3 times	Device voltage is unstable, please connect to a higher power load
Yellow indicator light flashes quickly	Seeking device (Zigbee protocol)

Button Description

Single press once	Turn On/Off
Double press, then press and hold for 5 seconds within 3 seconds	Reset the Device/Enable Pairing
Press any button 10 times continuously	Reset to factory settings
Single-Press Mode: Single Press Multi-function Mode: Single Press, Double Press, Long Press	Configure and define these Wireless Switch Mode actions under Automation in Aqara Home (Zigbee Mode)

Product Specifications

Product Name	Presence Switch H2 US (2 Buttons, 1 Channel)	Presence Switch H2 US (2 Buttons, 2 Channels)	Presence Switch H2 US (4 Buttons, 3 Channels)
Model	WS-K22D	WS-K03D	WS-K04D
Wireless Protocols	Thread, Zigbee, Bluetooth		
Dimensions	119 × 74 × 42mm		
Electrical Rating	120 VAC, 60 Hz, Max 10 A (Resistive Load or Incandescent), μ		
Minimum Power	5 W (No Neutral), Unlimited (With Neutral), general purpose		
Thread Operation Frequency	2405 – 2480 MHz		
Thread Maximum Output Power	≤ 13 dBm		
Zigbee Operation Frequency	2405 – 2480 MHz		
Zigbee Maximum Output Power	≤ 13 dBm		
Bluetooth Operation Frequency	2405 – 2480 MHz		
Bluetooth Maximum Output Power	≤ 13 dBm		

Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Operating Humidity	0 ~ 95% RH, no condensation
What is in the Box	Presence Switch H2 US × 1, Compliance Statement × 1, User Manual × 1, Screw Kit × 1, Wire Nuts Kit × 1, Wiring Sticker Sheet × 1

110 mm

75 mm

⚠ Warnings

1. This product is not a toy. Please keep children away from this product.
2. This product is designed for indoor use only.
3. Do not use in humid environments or outdoors.
4. Beware of moisture. Do not spill water or other liquids onto the product.
5. Do not place this product near a heat source. Do not place it in an enclosure unless there is normal ventilation. Do not attempt to repair this product by yourself. All repairs should be performed by an authorized professional.
6. This product is suitable for improving the quality of your home life and reminding you about the device status. If a user violates the product use instructions, the manufacturer will not be liable for any risks and property losses.

FCC ID: 2AHT-WS04D
Federal Communications Commission (FCC) compliance statement:
1. 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.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.
RF Exposure statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
IC2303-WS04D

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
This Class B digital apparatus complies with Canadian ICES - 003. This device complies with RSS - 247 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference.
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

EN

Manufacturer: Lumi United Technology Co., Ltd.
Address: Room B01-B04, Building 1, Changqun Park, Nanshan Park, No. 3370, Liuxian Avenue, Fuguang Community, Tanyuan Residential District, Nanshan District, Shenzhen, China.
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Email: support@aqara.com

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⚠ Avertissements

1. Ce produit n'est pas un jouet. Veuillez désigner les enfants de ce produit.
2. Ce produit est conçu pour une utilisation en intérieur uniquement.
3. Ne pas utiliser dans des environnements humides ou en extérieur.
4. Attention à l'humidité. Ne pas renverser d'eau ou d'autres liquides sur le produit.
5. Ne placez pas ce produit près d'une source de chaleur. Ne le placez pas dans un bûcher sauf s'il y a une ventilation normale. Ne tentez pas de réparer ce produit vous-même. Toutes les réparations doivent être effectuées par un professionnel autorisé.
6. Ce produit est adapté pour améliorer la qualité de votre vie à la maison et vous rappeler l'état de l'appareil. Si un utilisateur enfreint les instructions d'utilisation du produit, le fabricant ne sera pas responsable des risques et des pertes matérielles.

FCC ID: 2AHT-WS04D
Déclaration de conformité de la Federal Communications Commission (FCC):
1. cet appareil est conforme à la partie 15 des règles de la FCC. Son utilisation est soumise aux deux conditions suivantes:
(1) Cet appareil ne doit pas causer d'interférences nuisibles, et
(2) cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable.
2. Les changements ou modifications non expressément approuvés par la partie responsable de la conformité peuvent annuler le droit de l'utilisateur à faire fonctionner l'équipement.

Remarque: Cet équipement a été testé et déclaré conforme aux limites imposées aux appareils numériques de classe B, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre des fréquences radio et, s'il n'est pas installé et utilisé conformément aux instructions, peut causer des interférences nuisibles aux communications radio. Cependant, il n'y a aucune garantie que des interférences ne se produisent pas dans une installation particulière. Si cet équipement provoque des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en allumant et en éteignant l'équipement, l'utilisateur est encouragé à essayer de corriger les interférences en prenant une ou plusieurs des mesures suivantes:
—Réorienter ou déplacer l'antenne de réception.
—Augmenter la séparation entre l'équipement et le récepteur.
—Brancher l'équipement dans une prise de courant sur un circuit différent de celui auquel le récepteur est branché.
—Consulter le revendeur ou un technicien radio/TV expérimenté pour obtenir de l'aide.

FR

Déclaration d'exposition aux radiofréquences:
Cet équipement est conforme aux limites d'exposition aux radiations fixées par la FCC pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps. Cet émetteur ne doit pas être installé ou fonctionner en même temps qu'une autre antenne ou qu'un autre émetteur.
IC2303-WS04D

Cet appareil est équipé d'un émetteur/récepteur dispensé d'autorisation, en conformité avec la Innovation, Science and Economic Development Canada's License Exempt*. L'exploitation est autorisée aux deux conditions suivantes:
(1) L'appareil ne doit pas produire d'interférences;
(2) L'appareil doit accepter toute interférence, y compris celles susceptibles d'en compromettre le fonctionnement.
Cet appareil numérique de la Classe B conforme à la norme MB0 - 003 du Canada.
Cet appareil est conforme à la norme RSS - 247 d'Industrie Canada. Le fonctionnement est soumis à la condition que cet appareil ne provoque pas d'interférences nuisibles. Lumi United Technology Co., Ltd. est sous licence. Les autres marques et noms commerciaux appartiennent à leurs propriétaires respectifs.
Cet équipement est conforme aux limites d'exposition aux rayonnements de la IC établies pour un environnement non contrôlé. Cet équipement doit être installé et fonctionner à au moins 20cm de distance d'un radiateur ou de votre corps. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

Fabricant: Lumi United Technology Co., Ltd.
Adresse: Room B01-B04, Building 1, Changqun Park, Nanshan Park, No. 3370, Liuxian Avenue, Fuguang Community, Tanyuan Residential District, Nanshan District, Shenzhen, China
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Email: support@aqara.com

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⚠ 경고

1. 본 제품은 장난감이 아닙니다. 어린이가 본 제품에서 멀리 떨어져 있도록 하십시오.
2. 본 제품은 실내용으로만 제공됩니다.
3. 습한 환경이나 야외에서는 사용하지 마십시오.
4. 습기 또는 수증기로 물이나 다른 액체를 제품에 튀기지 마십시오.
5. 본 제품을 열린 근처에 두지 마십시오. 환기가 제대로 이루어지지 않는 한 케이스에 배치하지 마십시오. 스스로 이 제품을 수리하려고 시도하지 마십시오. 수리는 승인된 전문가가 수행해야 합니다.
6. 본 제품은 어떠한 가정 생활의 질을 향상시키고 어떠한 신체 상태를 일깨우는 데 적합합니다. 사용자가 제품 사용 지침을 위반하면 제조업체는 어떠한 책임과 재산 손실도 부담하지 않습니다.

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제조사: 연미 유나이티드 테크놀로지 컴퍼니
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난산정원 송환단지 1 빌딩 B01-B04
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(이메일) support@aqara.com
400-990-7930

⚠ 警告

1. 本產品不是玩具。請讓兒童遠離本產品。
2. 本產品僅適宜室內使用。
3. 請勿在潮濕環境或戶外使用。
4. 小心潮濕。請勿將水或其他液體灑到產品上。
5. 請勿將本產品放置在潮濕附近。除非有正常通風，否則不要將其放置在封閉中。不要試圖自己修理該產品。所有維修應由授權的專業人員進行。
6. 本產品適用於提高您的家庭生活質量，提醒您放鬆狀態。如果用戶違反產品使用說明，製造商將不承擔任何風險和財產損失。

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繁