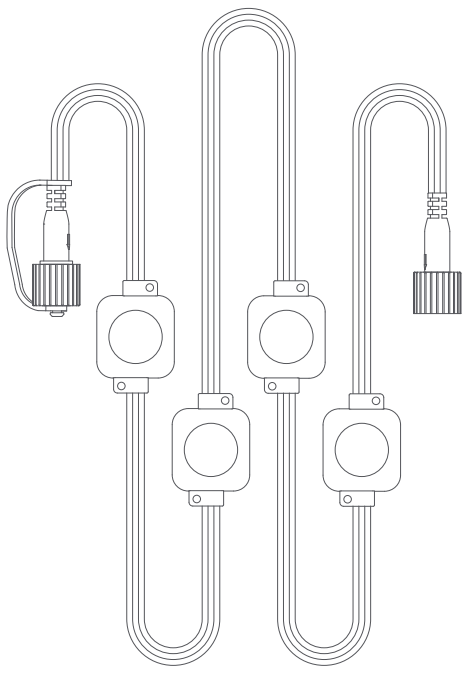


Permanent Outdoor Lights H1_EN

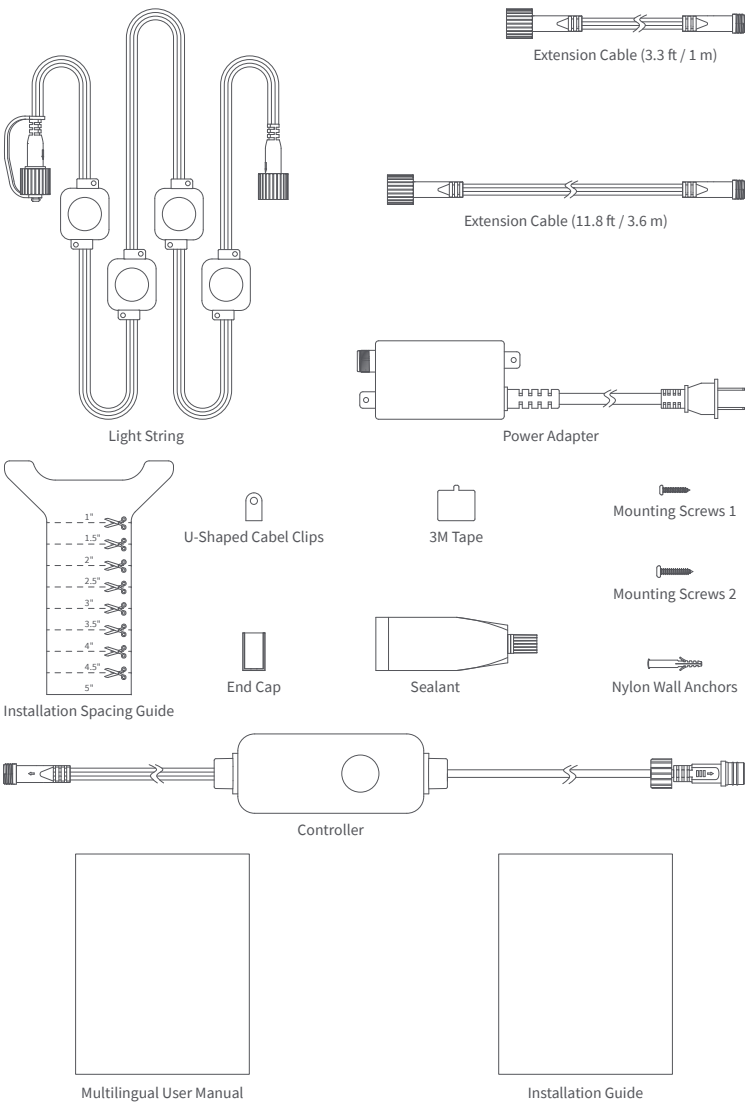
Product Introduction

Aqara Permanent Outdoor Lights H1 is a smart, weather-resistant permanent outdoor lighting product designed for eaves, rooflines, fences, and architectural outlines. Equipped with advanced RGBCWIC LED beads, it not only provides high-quality everyday white light for auxiliary illumination, but also delivers flowing, dynamic ambient colors for holidays, parties, and everyday decoration. The H1 supports fine-tuned, smooth color transitions, cool and warm color temperatures, and adjustable brightness, meeting the mood and decorative needs of yards, courtyards, facades, and outdoor entertainment spaces. Able to connect to both Zigbee and Thread dual protocols, it can be easily integrated into all major smart ecosystems when paired with a hub, enabling rich scene-based control and whole-home smart automation, and unlocking an immersive outdoor lighting experience. The product is available in three length specifications: 50 ft, 100 ft, and 150 ft, and supports an unbroken extension to 150 ft / 45 m (Max. 6 strings).



①Power Adapter
②Controller Box
③Control Button
④Microphone Hole
⑤Light String
⑥Light Pod

What's in the Box



Item	50 ft (LB-L15E / LB-L15D)	100 ft (LB-L16E / LB-L16D)	150 ft (LB-L17E / LB-L17D)
Light String	2	4	6
Power Adapter	1		
Controller	1		
Installation Spacing Guide	1		
Extension Cable (3.3 ft / 1 m)	1	1	2
Extension Cable (11.8 ft / 3.6 m)	0	1	2
U-Shaped Cable Clips	35	65	95

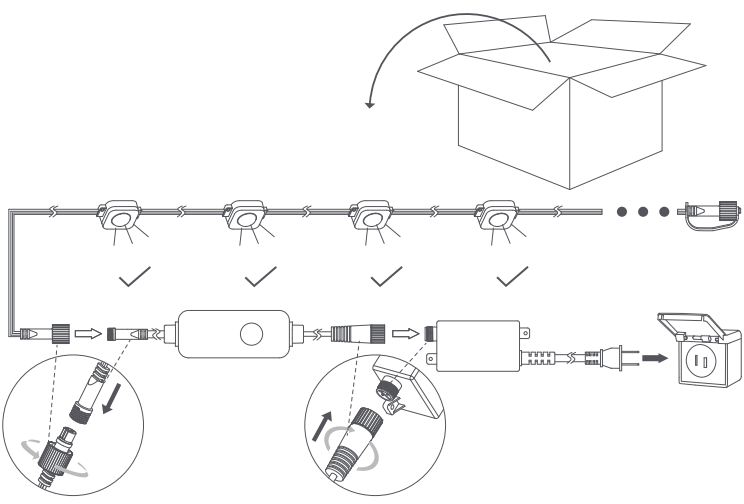
3M Tape	9	18	27
Mounting Screws 1	65	130	190
Mounting Screws 2	5		
Nylon Wall Anchors	5		
Sealant	1		
End Cap	1		
Multilingual User Manual	1		
Installation Guide	1		

Warnings

1. The device shall not be installed in water or flammable, explosive, high-temperature or high-humidity environments or in a location directly exposed to sunlight. The installation environment must be ventilated properly.
2. During installation and use, do not damage the structure of the product. Do not beat or strike it with a heavy object, nor bind the string with metal wires tightly. Otherwise, the wires may touch the live wires in the strings and cause a short-circuit fault, burning the strings.
3. When the lights are on, do not wrap or cover them with any object.
4. To prevent electric overload and risk of fire, do not exceed the maximum connection limits: Max. length 150ft / 45m (Max. 6 strings).
5. Avoid contact with any acidic, alkaline, or other chemicals.
6. This product must only be operated with the provided SELV / LVLE / Class 2 power adapter of 24 VDC. For exact power ratings, please refer to the specification label on the included adapter.
7. The external flexible cord of these lights cannot be replaced; if the cord is damaged, the lights should be disposed of.
8. The bulbs in the lights are not replaceable; when the bulbs reach the end of their life the whole product must be replaced.
9. This product is designed only for improving the convenience of household life, and for status notifications. If the user violates the product instructions and this warning, the manufacturer is not responsible for any risks and property losses caused thereby.
10. Do not connect the lights to power while they are in the packaging.
11. These lights must not be used without all gaskets being in place.
12. Do not interconnect parts of these lights with parts of another manufacturer's lighting chain.
13. Interconnection shall be made only by the use of the supplied connectors. Any open ends must be sealed-off before use.
14. In the UK, the plug is for indoor use only, connected to power in a dry location or ensure an equivalent degree of protection against harmful ingress of dust and moisture.

Before Installation

Power-On Test: Connect the light string, controller, and power adapter in sequence. Plug into a power supply and ensure all light strings illuminate properly.



Controller Function Check: Press the button on the controller to verify that functions operate normally.

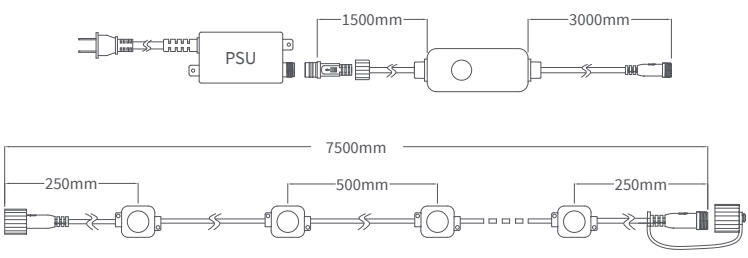


Button	Operation	Function
ON/OFF Button	Single Press	On / off control
	Double Press	Switch quick scenes (can be configured in the app)
	Triple Press	Verify communication range
	Press and hold for 5s	Reset network
	Press 10 times in quick succession	Restore factory settings

Network Connection Verification: Ensure the device can be successfully paired to the network (Note: The firmware version of the connected hub must be V4.5.7.0 or higher).
Before using this product, you need to download the Aqara Home app and register an account. This is not necessary if you directly connect this product to a third-party ecosystem. However unique features such as Dynamic Effects, Music Sync Mode, Power-Off Memory Setting, AI Effect Assistant and more will be unavailable to you.

Product Support

Installation Planning: Before installation, verify the product dimensions with your home' s actual size to plan a starting point, the placement of the control box and power supply, and the wiring route. Based on this, calculate the required number of light strings and jumper cables, and determine if any cutting is needed to ensure a neat and accessible setup.
* If you need to cut and reconnect the light strings, you must use official Aqara wiring accessories. For more information, please visit: https://store-support.aqara.com/products/permanent-outdoor-lights-wire-connector

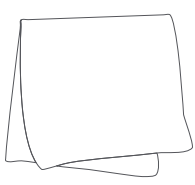


Extension Cable (3.3 ft / 1 m)

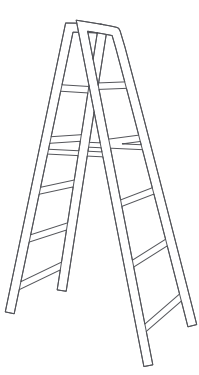
Extension Cable (11.8 ft / 3.6 m)

Item	50 ft (LB-L15E / LB-L15D)	100 ft (LB-L16E / LB-L16D)	150 ft (LB-L17E / LB-L17D)
Light String	2	4	6
Extension Cable (3.3 ft / 1 m)	1	1	2
Extension Cable (11.8 ft / 3.6 m)	0	1	2

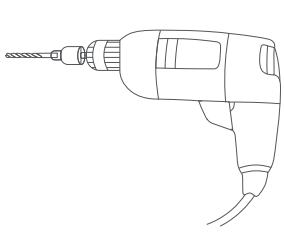
Required Tools: Please prepare the following tools prior to installation:
Cleaning Cloth



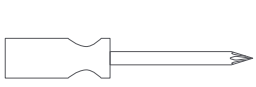
Ladder



Drill



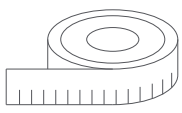
Screw Driver



Pencil

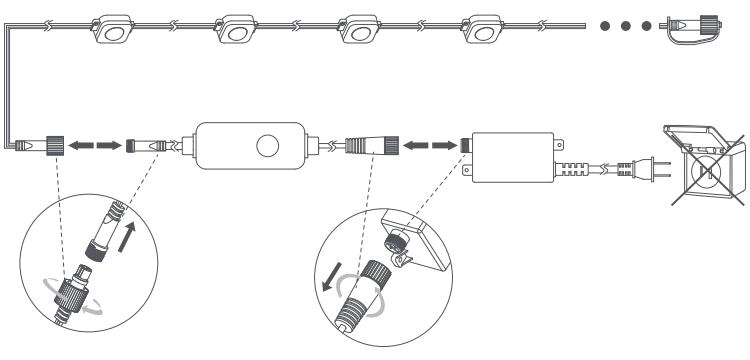


Tape Measure

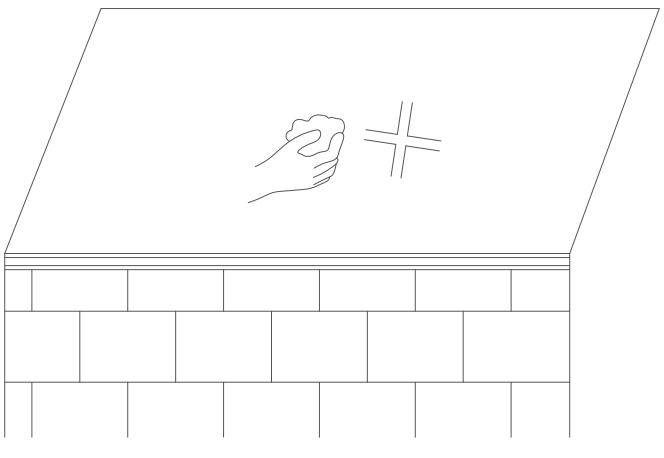


Installation Guide

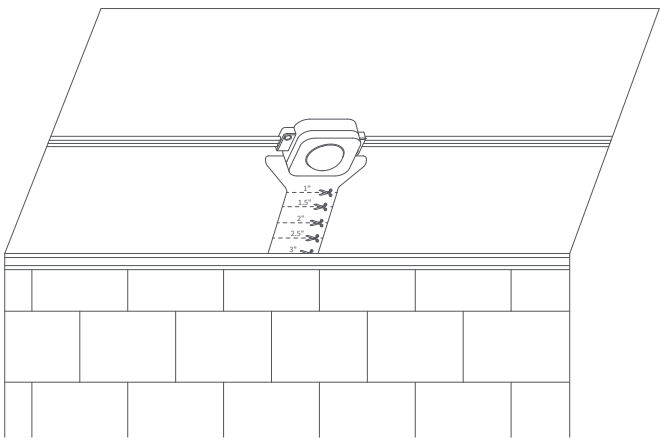
⚠ Warning: Before installing the lights, the power supply must be disconnected to prevent electric shock.



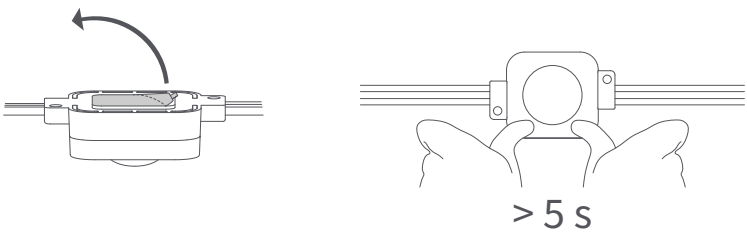
1. **Clean the installation surface:** Ensure the surface is clean and dry before installation.



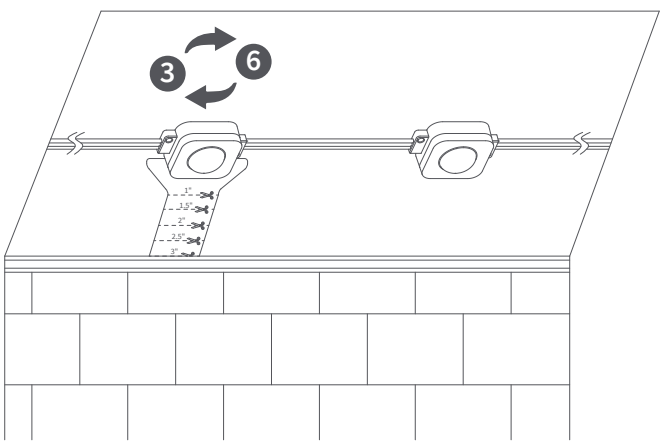
2. **Determine the position:** Use the Installation Spacing Guide to mark the installation locations. The card can be trimmed according to your actual installation needs.



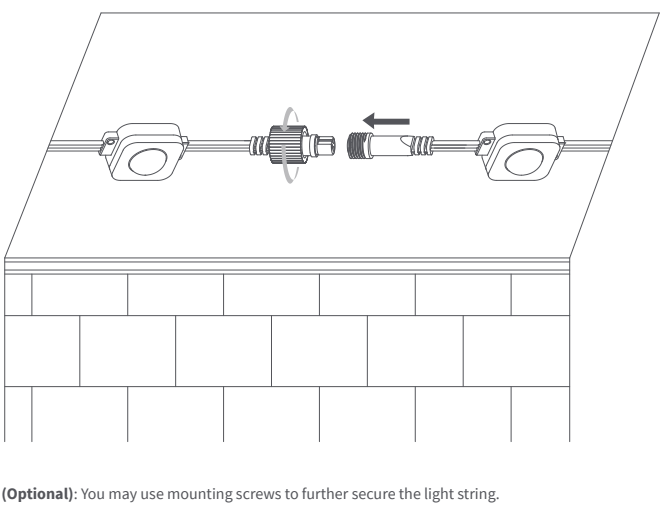
3. **Mount the lights:** Peel off the adhesive backing, then press and hold the light firmly against the surface for at least 5 seconds to secure it.



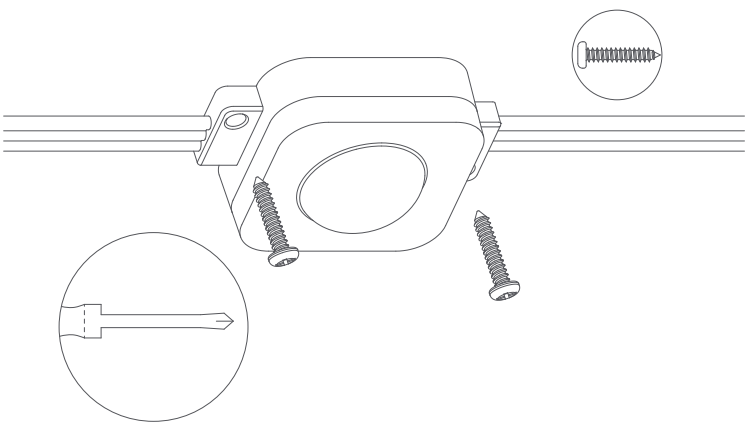
4. **Repeat:** Repeat steps 1 to 3 until the entire light string is installed.



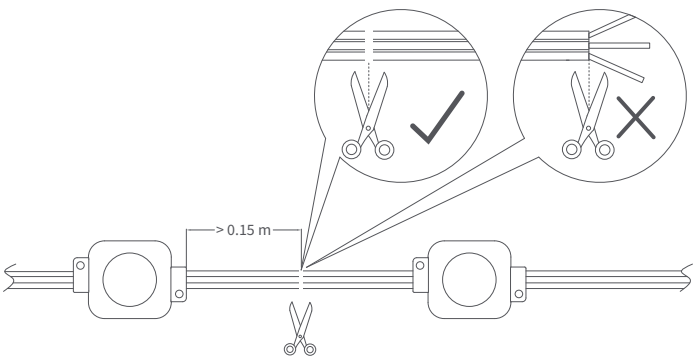
5. **Connect:** Connect the next light string or extension cable.



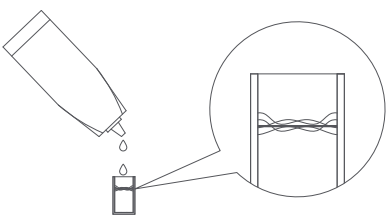
6. **Reinforce (Optional)**: You may use mounting screws to further secure the light string.



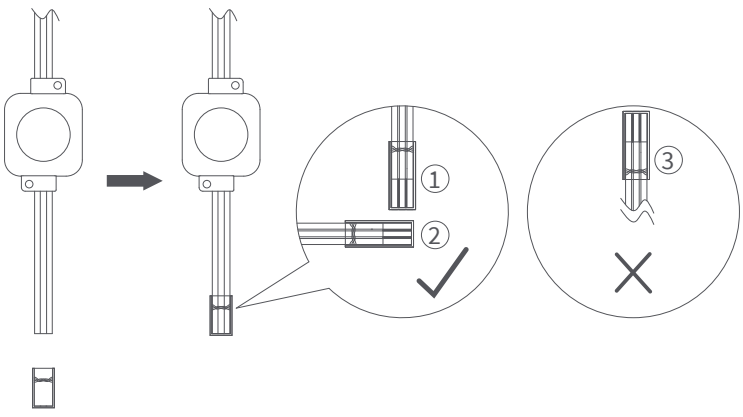
7. **Cut excess length:** Once installed, any excess lights at the end of the string can be cut off. Ensure the cut is made at least 15 cm away from the last light node, and make a clean, flush cut with no excess wires exposed.



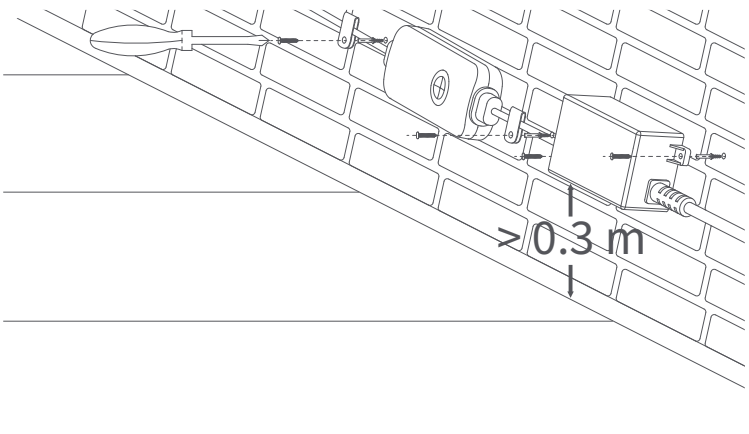
8. **Apply glue:** Fill the end cap with glue up to the indicator mark.



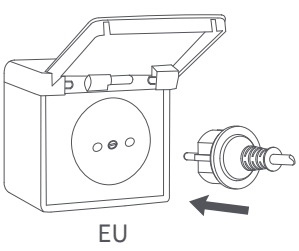
9. **Seal the end:** Seal the cut end of the light string with the end cap. Avoid leaving the opening pointing directly down towards the ground.

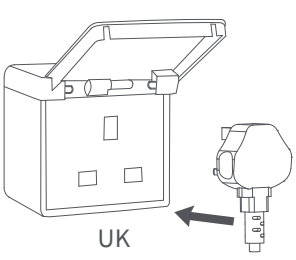


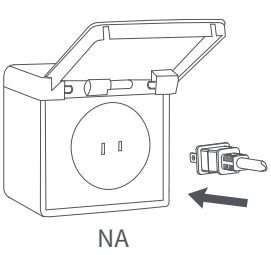
10. **Mount accessories:** Secure the controller and power adapter using cable clips and expansion screws (wall anchors).



11. **Power on:** Plug into a power supply to begin normal operation.


EU


UK


NA

Quick Setup

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

Press and hold the button for 5 seconds until the light slowly flashes twice. This indicates that the device is in pairing mode.

* When powered on for the first time, the device will automatically enter pairing mode.

Open the ecosystem's 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. Follow the app's instructions to complete the setup.

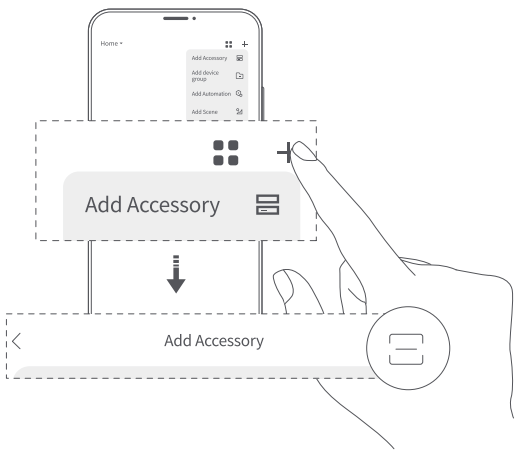
Download the Aqara Home app

Search for "Aqara Home" in the app store, or scan the QR code below to download the Aqara Home app.

Add the device

Pair with Aqara Home:

1. Add the hub to the app according to the hub's user manual;
2. Open the app and tap "+" in the upper-right corner of the home page to enter the "Add Accessory" page;



3. Find and select this device on the page, and follow the instructions.

* If adding fails, move the hub closer to this product, power it on again or reset the network, and then try again.
* During pairing, connect your phone to the same Wi-Fi network as the hub;
* Communication range verification: Triple-press the control button. A beep from the hub indicates effective communication between the device and the hub.
* You can also scan the QR code on the last page of this manual to bind the device to the Aqara Home app.

How to Switch Protocols

To switch protocols, you can either remove the device in the Aqara Home app or press and hold the button for 5 seconds to reset the network, and then repeat the pairing process. On the device pairing screen, tap "Switch Protocol" and select the desired protocol. Follow the app's instructions to complete the setup.

Note: Switching protocols is equivalent to restoring factory settings, and will erase all settings and data.

Reset the device

Actions	Results
Press the button and hold for 5s	Reset: Only clears the network pairing, without deleting other settings and records. * Saved "My Scenes" will be deleted.
Press the button 10 times in quick succession	Factory Reset: Restores the device to its original settings, clearing all configurations and data.

Product Specifications

Product Name	Permanent Outdoor Lights H1		
Product Model	LB-L15E / LB-L15D	LB-L16E / LB-L16D	LB-L17E / LB-L17D
Length	50 ft / 15 m	100 ft / 30 m	150 ft / 45 m
Number of Lights	30	60	90
Light Color	RGBCWIC (RGB + Cool White + Warm White + IC)		
Color Temperature	2000 K – 9000 K + RGB		
Luminous Flux (per light)	50 lm		
Rated Power	16W	30W	43W
Wireless Connectivity	Zigbee, Thread, Bluetooth		
IP Rating	IP65 (String), IP65 (RF-box), IP67 (Adapter)		
Operating Temperature	−20 °C to 40 °C (−4 °F to 104 °F)		
Operating Humidity	0 ~ 85% RH, non-condensing		
Color Rendering Index	80		
LED Chips Lifetime	50,000 h		

Manufacturer: Lumi United Technology Co., Ltd.
Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China.
Email: support@aqara.com
Online Customer Service: www.aqara.com/support