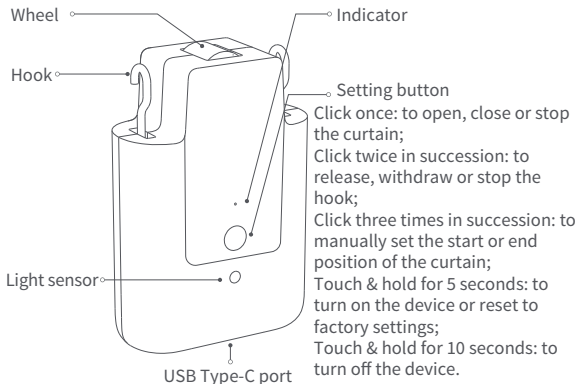Aqara

Product Introduction

Curtain Driver E1 is a motorized device that can control your existing curtains automatically, it is based on the Zigbee 3.0 wireless protocol and can achieve scheduled control of curtains, and work with other smart devices when connected to the Aqara Home app.

*An Aqara Zigbee 3.0 hub is required. Some functions require specific models of hubs. Please consult www.aqara.com/support for more details.

Wheel

Indicator

Hook

Setting button
Click once: to open, close or stop the curtain;
Click twice in succession: to release, withdraw or stop the hook;
Click three times in succession: to manually set the start or end position of the curtain;
Touch & hold for 5 seconds: to turn on the device or reset to factory settings;
Touch & hold for 10 seconds: to turn off the device.

Light sensor

USB Type-C port

Warnings

1. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
2. Children shall not play with the appliance.
3. Cleaning and user maintenance shall not be made by children without supervision.
4. WARNING: the drive shall be disconnected from its power source during cleaning, maintenance and when replacing parts.
5. It must only be supplied at Separated or Safety Extra-Low Voltage (SELV).
6. WARNING: Important safety instructions. It is important for the safety of

persons to follow these instructions. Save these instructions.
7. Do not allow children to play with fixed controls.
8. Frequently examine the installation for imbalance and signs of wear or damage to cables springs and fixings. Do not use if repair or adjustment is necessary.
9. Do not operate when maintenance, such as window cleaning, is being carried out in the vicinity.
10. WARNING: Important safety instructions. Follow all instructions since incorrect installation can lead to severe injury.
11. Before installing the drive, remove any unnecessary cords or components and disable any equipment not needed for powered operation.
12. That the characteristics of the driven part must be compatible with the rated load and rated operating time.
13. This appliance contains batteries that are non-replaceable.
14. Fixed controls have to be clearly visible aer installation.

What's in the Box

USB-A to USB-C Cable

Track Glider × 2

Tutorial Video

Please scan the QR code below to view the installation and operation guide video. If the video is unable to be reached, you can also install the product according to the method described in the manual.

Installation Requirements

Rail Types

The Smart Curtain Driver E1 (Track Version) be used on U-rails and I-rails.

U-shaped rails   I-shaped rails

If you would like to use the product on rods, please purchase the Curtain Driver E1 Rod Version.

Installation Requirements of U-Rail

The bottom surface of the U-rail should be flat and smooth.

✓   X

Both sides of the rail should be sealed tightly with closure heads.
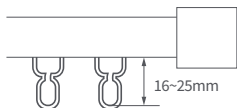
Installation Requirements of I-Rail

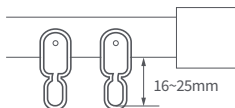The bottom surface of the I-rail should be flat and smooth, with a width greater than 10mm.

Width > 10 mm

Installation Requirements of Curtain Track Glider

The distance from the upper surface of the bottom of glider hanging ring to the bottom of the rail should be between 16 mm and 25 mm.
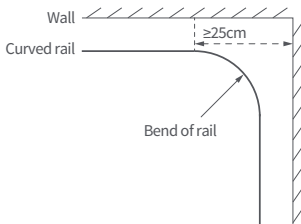
16~25mm

U-Rail Glider

16~25mm

I-Rail Glider

Straight and Special-Shaped Rails

For U-rail and I-rails, the Curtain Driver E1 supports straight and curved rails. For curved rails, the following conditions should be met around the bend:

Wall

≥25cm

Curved rail

Bend of rail

Top view

Quick Start Guide

Please read the following steps to start using the product.

Preparation before use

1. This product needs to be connected with the Aqara Home app before being installed on the curtains.
   Before activating the product, please make sure you have the Aqara

Home app and the Aqara Zigbee 3.0 hub installed (Please scan the QR code below to download the app).
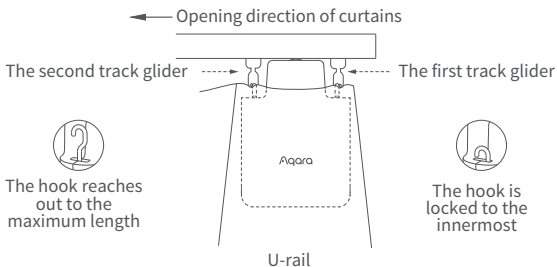

3. Please open the app, tap "Home" and then tap "+" in the top right corner to enter the"Add Device (Accessory)" page. Select "Curtain Driver E1" and the hub to be connected to, and add it according to instructions in the Aqara Home app. Press and hold the Setting button for 5 seconds, and wait for the voice prompt from the Hub.
4. If you have purchased two or more Curtain Drivers, please connect all of them to the Aqara Home app before further installation.
5. If you use double-sided curtains, it is necessary to connect two Curtain Drivers to the app and then put them in one group for simultaneous control. Enter the main page of the Curtain Driver to be grouped, click "... " in the upper right corner, select "Create a group for Curtains" and follow the instructions.
6. It is recommended to fully charge the product before installation.
7. The mass and the dimension of the curtain to be driven shall be compatible with the rated torque and rated operating time.

Installation Methods

Installation Methods for U-Rail
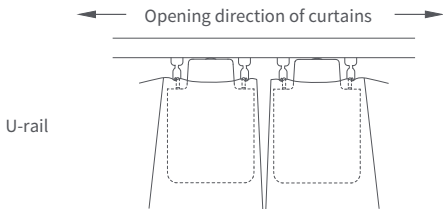**Single-Sided Curtains (only one Curtain Driver is needed)**

1. After startup, click the setting button twice in succession quickly to release the hook of the Smart Curtain Driver until it reaches out to the maximum length.
2. Hang the Smart Curtain Driver on the first and the second glider on the movable side of the curtains (as shown in the figure).
Tips: If there are extra gliders on the rail, they can be placed between the first and the second hooks of the curtain, above which the Curtain Driver can be placed.
3. Click the setting button twice in succession quickly to hold the Curtain Driver onto the rail. Right then, the green indicator light keeps blinking, and there are 3 short beeps from the buzzer after the product is held in place, indicating that the installation is complete.

Opening direction of curtains

The second track glider ------- ------- The first track glider

The hook reaches
out to the
maximum length

Aqara

The hook is
locked to the
innermost

U-rail

This product can be configured on the app to open and close the curtains according to the intensity of ambient light. To use the function, the light sensor should face the outside of the window and the Curtain Driver should be installed on the side near the window. If you need to control the opening and closing of curtains according to the light indoor, the light sensor should face the interior and the Curtain Driver should be installed on the side near the interior. To optimize the effect of the light sensor, please ensure that there is no opaque object in front of it.

Double-Sided Curtains (two Curtain Drivers are required)

According to the installation method of Curtain Driver for single opening curtains, hang the two Smart Curtain Drivers on the track gliders of curtains on left and right sides respectively (as shown in the figure below)
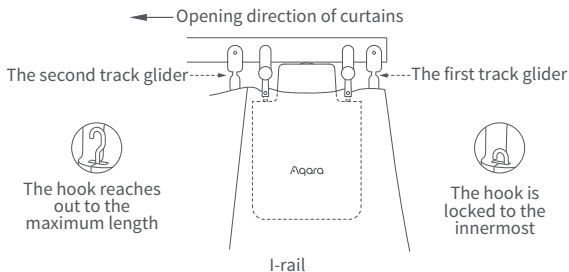

Opening direction of curtains

U-rail

Installation Methods for I-Rail
Single-Sided Curtains (only one Curtain Driver is needed)

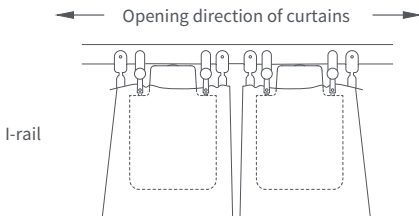1.After startup, click the setting button twice in succession quickly to

release the hook of the Smart Curtain Driver until it reaches out to the maximum length.

2. Install the two adjustable track gliders onto the rail, and put them just between the first and the second existing track gliders on the movable side of the curtains(as shown in the figure).

3. Hang the Curtain Driver on the two newly installed adjustable track gliders

4. Click the setting button twice in succession quickly to hold the Curtain Driver onto the rail. Right then, the green indicator light keeps blinking, and there are 3 short beeps from the buzzer after the product is held in place, indicating that the installation is complete.

Opening direction of curtains

The second track glider

The first track glider

The hook reaches out to the maximum length

The hook is locked to the innermost

I-rail

This product can be configured on the app to open and close the curtains according to the intensity of ambient light. To use the function, the light sensor should face the outside of the window and the Curtain Driver should be installed on the side near the window. If you need to control the opening and closing of curtains according to the light indoor, the light sensor should face the interior and the Curtain Driver should be installed on the side near the interior. To optimize the effect of the light sensor, please ensure that there is no opaque object in front of it.

Double-Sided Curtains (two Smart Curtain Drivers are required)

According to the installation method of Curtain Driver for single opening curtains, hang the two Smart Curtain Drivers on the track gliders of curtains on left and right sides respectively (as shown in the figure below).
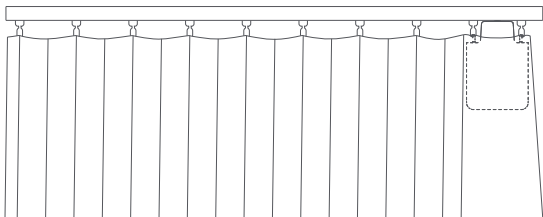
Opening direction of curtains

I-rail

Opening Distance Settings

To ensure proper use of the product, the range should be set for the product after the product is installed.
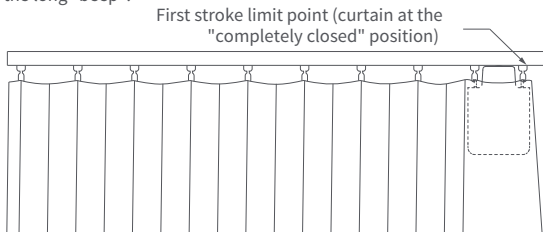
Single-Sided Curtains

1. After the device is connected to the Aqara Home app, the opening distance of the device can be configured on the app. Click the device card on the Home page of the app and set the stroke as instructed on the main page of the device.
2. Also, the opening distance of the device can be set by pressing the setting button when the device is not connected to the Aqara Home app. Detailed operations are as follows:
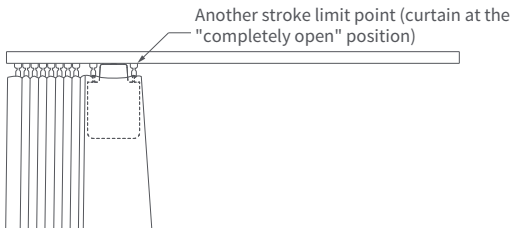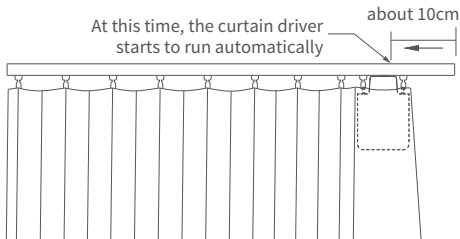
A) Pull the curtain until it is completely closed, and install the Curtain Driver on the rail according to the installation method for the "single-sided curtains".

B) Then click the setting button 3 times in succession quickly to set the first limit point of the range. The first limit point is set successfully after the long "beep".
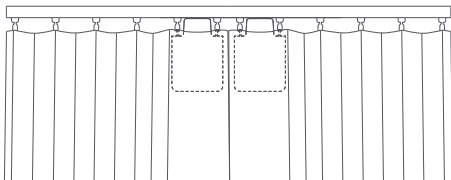
First stroke limit point (curtain at the "completely closed" position)

C) Meanwhile, the Curtain Driver will automatically run to the opening limited point and stop after being pulled in the fully opening direction for about 10cm. After the long "beep", another limit point is automatically and successfully set, which means the opening range of the device is set up.

about 10cm

At this time, the curtain driver starts to run automatically

Another stroke limit point (curtain at the "completely open" position)

Double-Sided Curtains

A) Pull the curtains on left and right sides until they are completely closed, and install the two Curtain Drivers at the position on the rail where the curtains are completely closed according to the installation method for the "single-sided curtains".

B) Set the opening distance for Curtain Drivers on left and right sides according to Step B and C for that of "single-sided curtains".

Button Operation

Button Operation	Description
Click once	Open, close or stop according to the current state of the Curtain Driver
Click twice in succession quickly	Hold, release or stop according to the holding status of the current Curtain Driver
Click three times in succession quickly	Set limit point of the range manually
Click five times in succession quickly	Delete the current range set for the Curtain Driver

| Touch & hold for 5 seconds | Restore factory settings or startup (when it is turned off) |
| Touch & hold for 10 seconds | Turn off the device |

Indicator Light Description

Indicator Light Status	Description
Quick blinking of blue light	The Curtain Driver is connecting with the hub (After the device is started for use for the first time or reset).
Slow blinking of orange light	Firmware updating is in progress.
Quick blinking of green light	Holding to the rail is in progress.
Green blinking	Releasing from the rail is in progress.
White blinking	The device is being charged.
Steady blinking of White light	Charging is complete and the adapter is not removed.

Buzzer Description

Buzzer Status	Description
1 Long beep	Device opening range deleted. Factory settings restored. Device searching reaction. Opening and closing directions switched. Range limit point was set successfully.
2 Short beeps	When the range of Curtain Driver is not deleted, set the limit point of stroke manually. When the range of Curtain Driver stroke is deleted, delete the range again.
3 Short beeps	The curtain driver is held in place. The curtain driver is released in place. Warning of low battery.

Battery Charging

When there is a warning of low battery, please charge the Curtain Driver in a timely fashion. Charging steps are as follows:

1. Quickly click the setting button twice in succession or use the app to release the Curtain Driver from the rail, and remove it from the rail;
2. Use the USB charging cable, and plug the end of the Type-C plug into the charging port on the Curtain Driver and the other end to the adapter for charging.
3. It takes about 5 hours to fully charge the battery.

Specifications

Dimensions: 140.5 × 96 × 44 mm
Rated Current: 1.5 A
Rated Torque: 0.2 N·m
Wireless Protocol: Zigbee 3.0 IEEE 802.15.4
Model: CM-M01(CM-Curtain Motor series products, M01-the first Motorized products)
Battery Type: Lithium battery (not replaceable)
Rated Power Input: 5 V ⎓
Rated Input: 7.5 W
Rated Rotor Speed：100 r/min
Moving Speed: 12 cm/s
IP Rating: IP20
Operating Humidity: 0~95% RH, no condensation
Operating Temperature: 0°C ~ 45°C

Zigbee Warnings

Zigbee Operation Frequency: 2405-2475 MHz
Zigbee Maximum Output Power: 13 dBm
Under normal use of condition, this device should be kept a separation distance of at least 20cm between the antenna and the body of the user.

EU Declaration of Conformity

Hereby, Lumi United Technology Co., Ltd. declares that the radio equipment type Curtain Driver E1, CM-M01 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://www.aqara.com/DoC/

CE

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.

UK Declaration of Conformity

Hereby, Lumi United Technology Co., Ltd. declares that the radio equipment type Curtain Driver E1, CM-M01, is in compliance with Directive 2017 (SI 2017 No. 1206, as amended by SI 2019 No. 696). The full text of the UK declaration of conformity is available at the following internet address: http://www.aqara.com/DoC/.

WEEE Disposal and Recycling Information

All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.

IC NOTICE TO CANADIAN USERS

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.

Online Customer Service: www.aqara.com/support
Customer Support Email: support@aqara.com
Website: www.aqara.com
Manufacturer: Lumi United Technology Co., Ltd.
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