

Aqara Home

智能家居体验馆

Smart Lock U50

Product Introduction

Consent

1. **Product Introduction**
2. **Product Features**
3. **Software Function**
4. **Product Installation**
5. **Recommended Automation**
6. **Product Specification**
7. **Summary of Selling Points**



Part 1

Product Introduction

Product Introduction

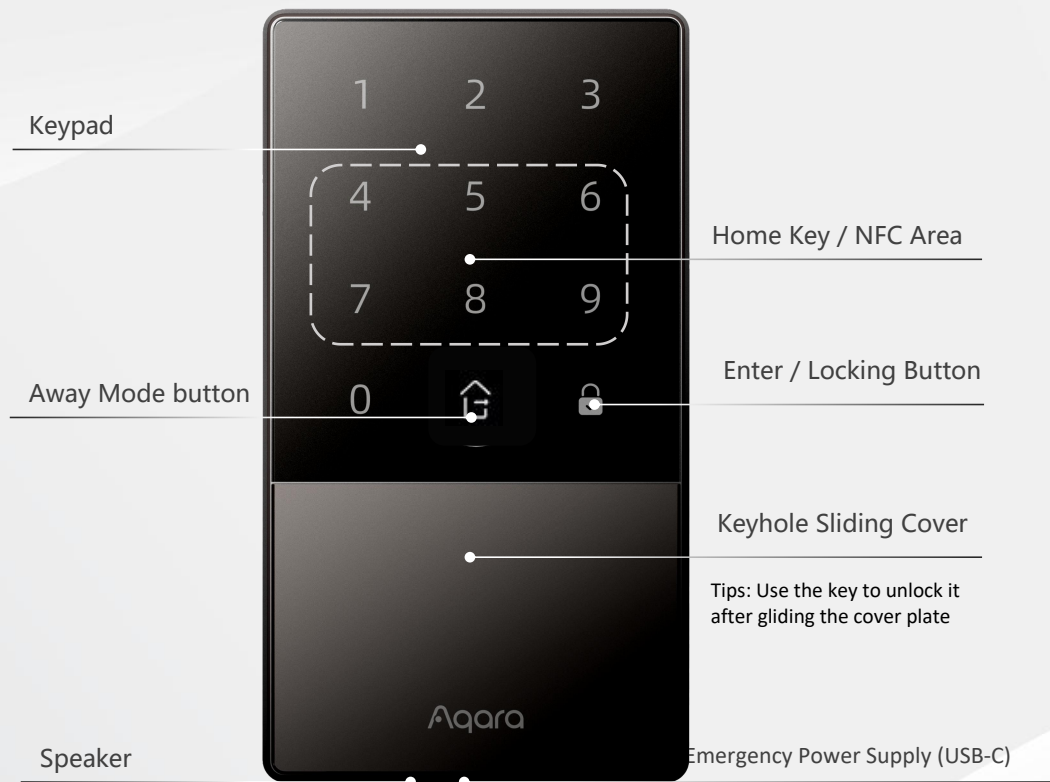


- You don't need to take out a key or phone, just touch your iPhone to unlock it. U50 can be used on both Aqara Home and Apple Home, and when used with a gateway, it supports remote door lock control by Matter, Amazon Alexa, and Google Assistant.
- U50 supports multiple unlocking methods such as Apple Home Key, NFC, and temporary password. Combined with various Aqara smart devices such as camera doorbells, it can achieve various scene linkage, providing you with a convenient and safe living experience.

Core selling points

- Apple Ecosystem U.S. Standard Deadbolt Door Lock - Supports HomeKit and Home Key.
- Red Dot Design Award - Simple and Fashionable, Attention to Detail Experience, Keyboard Use Matte Treatment without Fingerprints.
- Supporting multiple mainstream platforms - after binding to the Aqara gateway, it supports multiple ecosystems such as Matter, Alexa, and Google and etc..
- Support Do Not Disturb mode, which can mute door lock digital sound effects at specified times and avoid affecting family' s sleep when returning late.
- Linkage with Aqara G4 doorbell, it can be connected to cameras under the same account, providing a convenient user experience for camera door locks.

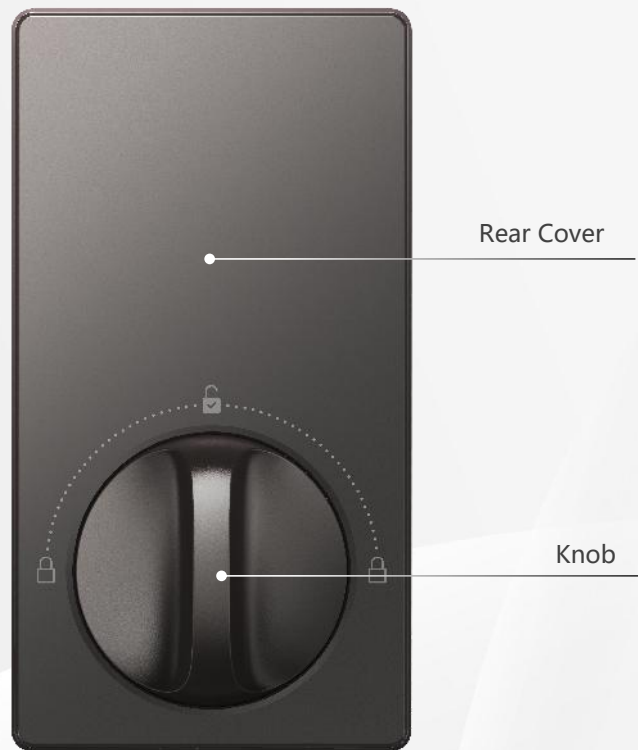
continuous connection



Tips: Use the key to unlock it after gliding the cover plate

Emergency Power Supply (USB-C)

Emergency power supply is available in case that the lock battery runs out



Battery Compartment

8 months battery life
unlock the door

Reset Button

Long press it for 5 seconds to
reset the door lock



Set / HomeKit Button



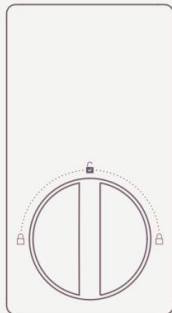
US Deadbolt: fit for 60mm and 70mm backset

What's in the box

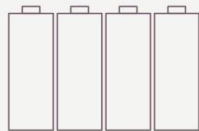
Aqara



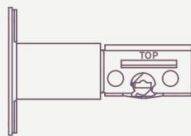
Outer Panel × 1



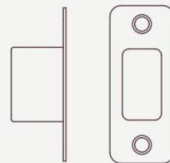
Inner Panel × 1



AA Battery × 4



Deadbolt × 1



Strike Plate Kit × 1

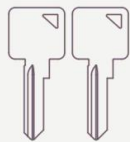


Mounting Plate × 1



User Manual × 1

线上版为深灰色



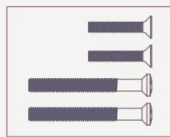
Mechanical
Key × 2



Knob Removal
Tool × 1



Installation
Diagram × 1



Opposite-Pull
Screw Kit × 1



Bolt & Strike Plate
Screw Kit × 1



Mounting Plate
Screw Kit × 1

connection

Part 2

Product Features



A complete Apple ecosystem: HomeKey+visitor password

The Aqara U50 supports direct connection to the Home app and also has * Apple home key and * visitor password functions.

With the addition of the HomeKey function, it can be unlocked with just one tap using an Apple phone or watch.

By utilizing Apple's password function, you can generate passwords for your family and friends in the Home app at any time, and also set periodic passwords for your cleaners

Supporting Matter to integrate the advantages of hundreds

You can access Matter via the Aqara gateway and enjoy the fun of the different ecosystem. We will continue to protect thousands of households on Aqara and different platforms.

Support Alexa, Google, Smartthings ecosystem

Through the Aqara gateway, Connect to the Alexa and Google ecosystem, supporting voice and phone control, Linkage with different smart devices to jointly unlock and lock

Well designed details

Anti fingerprint frosted panel, hidden keyhole, low-key matte metallic luster, elegant style born from restraint. The design team has won multiple international design awards and has spared no effort in satisfying users' pursuit of beauty.

Easy to install

Using standard Deadbolt lock specifications, if the door opening meets the requirements, installation can be completed in 5 minutes

Stable and durable

The outdoor part is IPX5 dust-proof and waterproof, and can be used normally in a low temperature environment of -18 degrees Celsius to avoid weather affecting performance. The door lock has passed 200,000 unlocking and automatic locking tests, and has passed the BHMA Level 3 specification test in the United States, making it stable and durable



Part 3

Software Function



9:41

< Add Periodic Password

Please enter 6-10 digit password

512866 [Generate randomly](#)

Password Name Password 01 >

Effective Date Customize >

Start Time 2022/01/21 >

End Time 2022/06/25 >

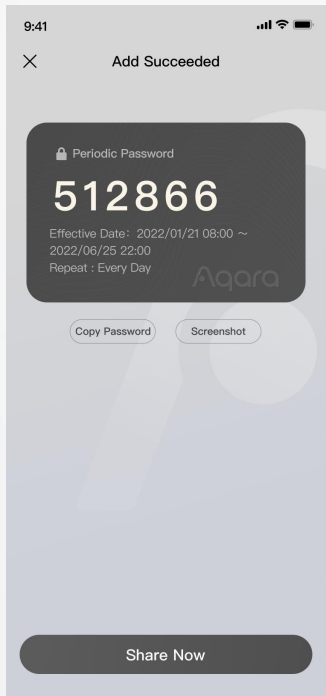
Effective period Customize >

Start Time 08:00 >

End Time 22:00 >

Repeat Every Day >

Next



9:41

× Add Succeeded

Periodic Password

512866

Effective Date: 2022/01/21 08:00 ~
2022/06/25 22:00
Repeat: Every Day

Aqara

Copy Password Screenshot

Share Now

App installation guide

For the first time binding door locks, the Aqara App can guide users step by step to install, and the installation process is simple and easy to understand

Temporary password

One time password: No need for internet connection, can be generated at any time (up to 8 groups per hour, generated using encryption algorithm when the owner's phone connects to the door lock)

Periodic password: can generate a valid password for a period of time, and after binding to the gateway, can remotely generate passwords for your AirB&B residents

*Aqara Home 周期性密码生成页面

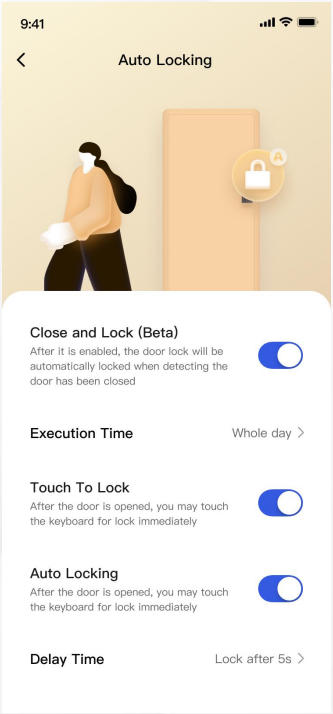
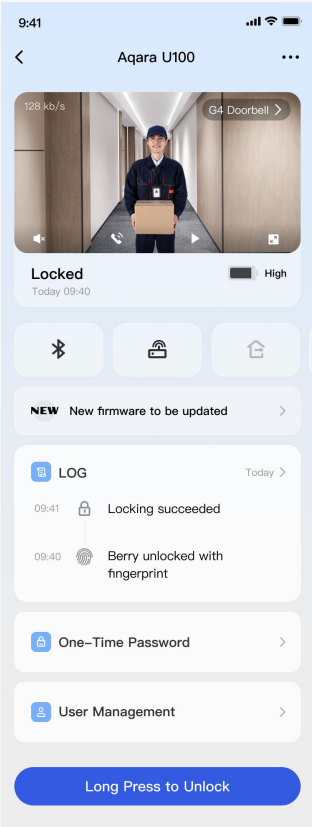
Aqara G4 doorbell linkage

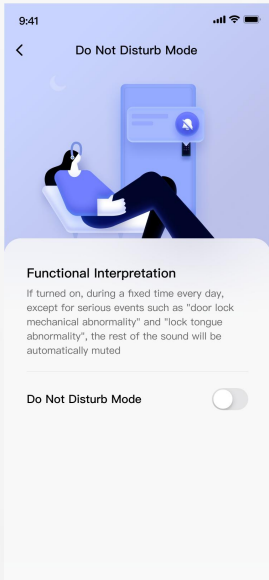
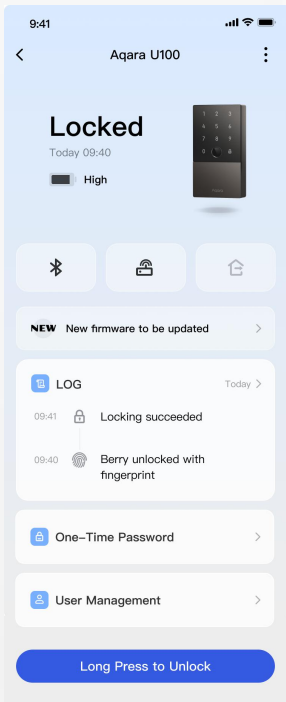
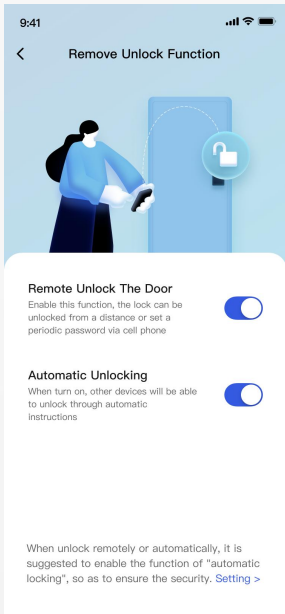
Can be connected to G4 cameras under the same account, providing a convenient user experience for camera door locks

Close the door and lock it

The U100 has a built-in gyroscope of the same level as a smartphone, which can record your door closing angle. After activating the function, when you close the door, the door lock will automatically lock for you. The closing and locking scheme of the gyroscope is more convenient to use than the traditional door magnetic scheme, as it eliminates the distance limit and trouble of installing the door magnetic, and can ensure a beautiful appearance

* Future OTA upgrade, gyroscope can support door status detection function





Remote unlocking and locking

After binding the gateway, the door lock can be remotely unlocked and locked, and you can also set periodic passwords for your AirB&B residents remotely. Always open doors for your visitors, relatives, and friends, and rent out property management services for homeowners

Door status detection function

Using a gyroscope to detect the door status and determine if the door is properly closed

Do Not Disturb Mode

Finally, I waited for my baby to fall asleep and didn't want him to be woken up by the special sound of the door opening? The app has a Do Not Disturb mode, which can specify the time to mute the door lock sound effect and avoid affecting sleep

Aqara Homepage Card

After opening the remote function, the app homepage card can be directly unlocked/locked

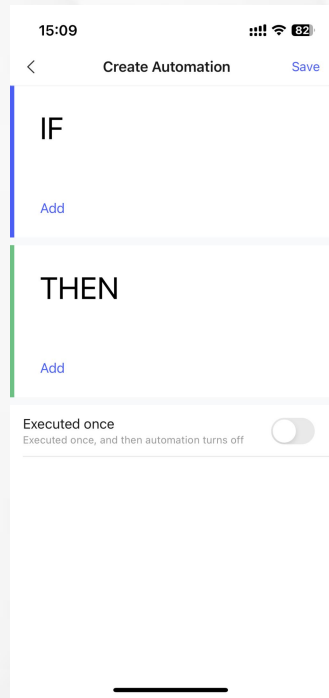
View log

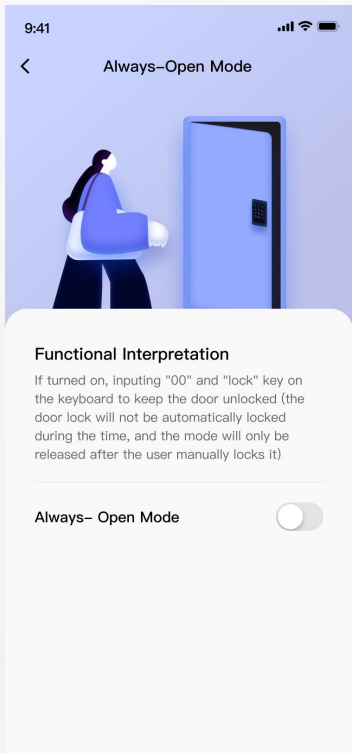
You can view the unlocking log in the app to know when did your child return home

Automation settings

Want a more fun and cool way to unlock? After binding the gateway and Aqara Zigbee 3.0 wireless switch and Rubik's cube, establish automation for unlocking and locking operations.

After binding HomePod to the Home app, users can set it to unlock when the first person returns home, combined with locking the door, allowing you to enter and exit freely





Normally open mode

After enabling the normally open function of the app, press the "00+confirm" button on the keyboard to enter the long open mode, to avoid door locking and unlocking warnings. If installed at the entrance of the studio, this feature can facilitate your colleagues and customers to freely enter and exit during business hours. The study and master bedroom installed at home can facilitate the entry and exit of family members, and can be locked when guests visit. Users only need to close the door and manually lock it to release the normally open mode.

Re-calibrate door lock

When there is a deviation in the locking angle, the app can be used to re-calibrate the closing angle of the door, solving the problem of inaccurate locking. The entire process only takes 1 minute, with the aim of re-calibrating the gyroscope angle.

Electronic manuals and installation videos

You can check the installation and usage instructions at any time in the app

Bluetooth OTA update

Mobile Bluetooth direct door lock for updates

Unlocking Methods



Password unlock



BLE unlock



Periodic/one-time
password



Alexa/Google
Voice unlock



NFC card unlock



Key unlock



Homekit unlock



Apple home key
unlock



Automation
unlock

Apple Home Key requires iPhone or Apple Watch support

* Matter Google Alexa automation unlocking requires binding gateway

Product Function Summary

- | | | | |
|----------------------------|---|----------------------------------|--|
| ✓ Password unlock | ✓ App settings for door locks | ✓ Convenient local setting | ✓ >8 months of battery life |
| ✓ Password unlock | ✓ Abnormal alarm function | function | ✓ AES encryption algorithm |
| ✓ Virtual password unlock | ✓ Rich linkage control conditions | ✓ Bluetooth, Zigbee connection | secure unlocking |
| ✓ One time password unlock | ✓ Remote viewing of door lock logs | ✓ OTA upgrade | ✓ Emergency Charging (Type C) |
| ✓ Periodic password unlock | ✓ Remote setting of periodic passwords | ✓ Main control rear | ✓ IPX5, 200000 opening and closing tests |
| ✓ Mechanical key unlock | ✓ Gyroscope automatically locks when opening the door | ✓ Bind G4 doorbell for unlocking | |
| ✓ NFC card unlock | | | |
| ✓ Mobile Bluetooth unlock | | | |
| ✓ Remote unlock | ✓ Silent unlocking and locking function | | |
| ✓ HomeKit Bluetooth | | | |
| ✓ Apple Home Key | ✓ Door lock calibration | | |
| ✓ Google Alexa unlock | | | |

Part 4

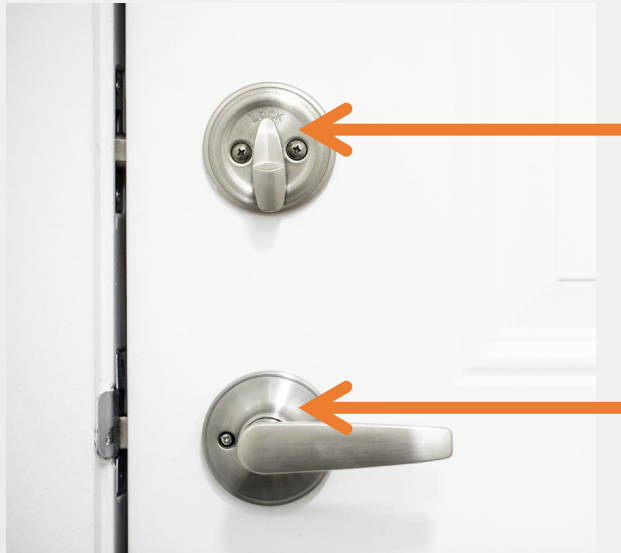
Product Installation

American standard door lock

Most entry doors in North America are made of wood, with over 60% of people using the Deadbolt specification

The lock bodies of American standard Deadbolt doors are all non integral, with the upper Dead bolt and the lower Latch bolt

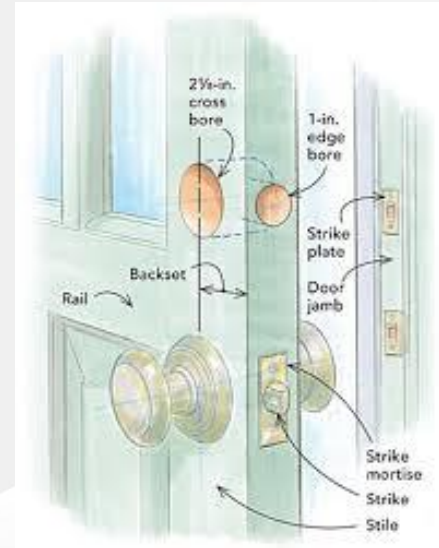
This product requires users to confirm whether their doors are suitable for installing Deadbolt locks



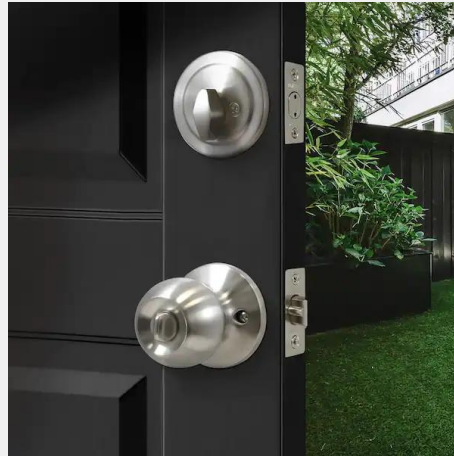
The Dead bolt section above will be changed to Aqara Deadbolt lock body and U100 door lock



The Latch bolt below will remain unchanged and primarily serves as a fixing function



Installation requirements

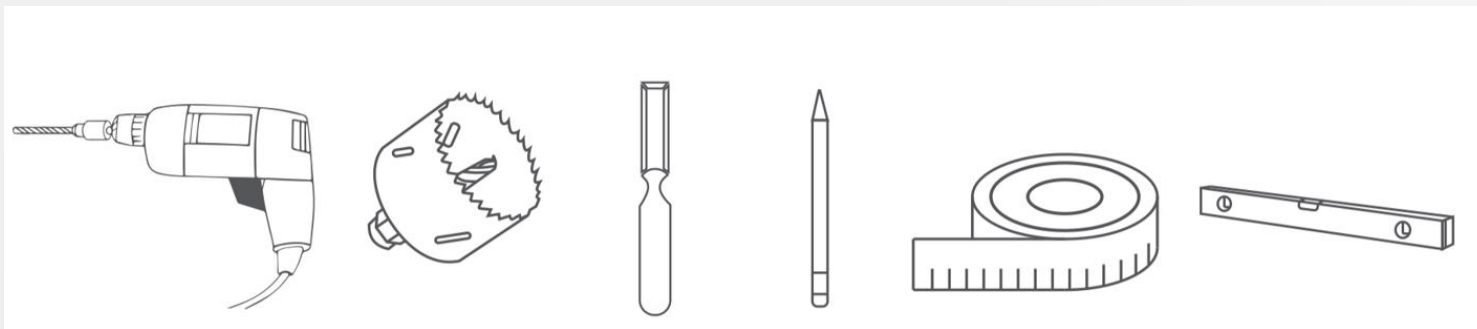


Requirements for wooden doors: 35mm-55mm Deadbolt wooden doors (common styles shown in the above picture)

Installation tool: PH1 standard cross screwdriver

Modification of gate tools (if required): electric drill, 54mm hole opener, carpenter's chisel, pencil, tape measure, level

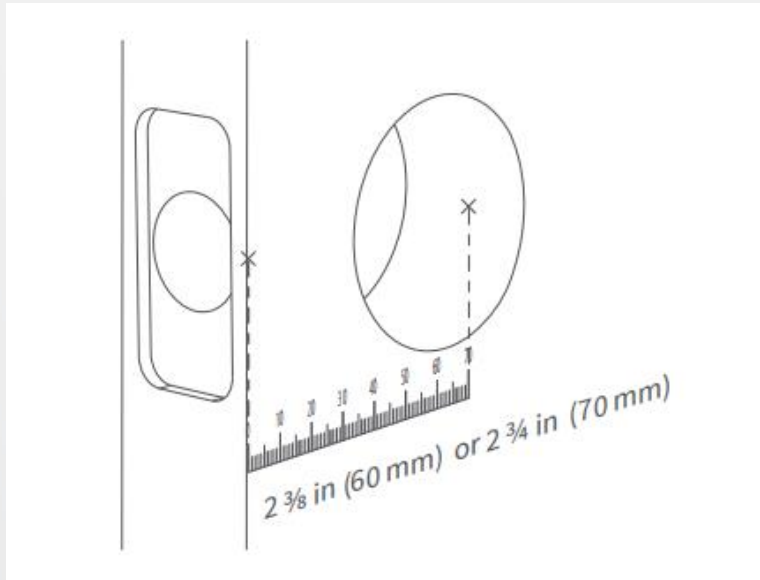
Installation tools



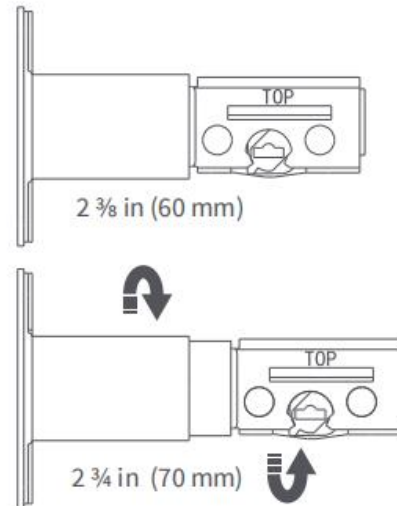
Electric drill, hole opener, wood mortise chisel, pencil, tape measure, spirit level

Installation method

1. Measure the backset: the distance from the edge of the door to the center of the deadbolt hole. It should be $2\frac{3}{8}$ in (60 mm) or $2\frac{3}{4}$ in (70 mm).

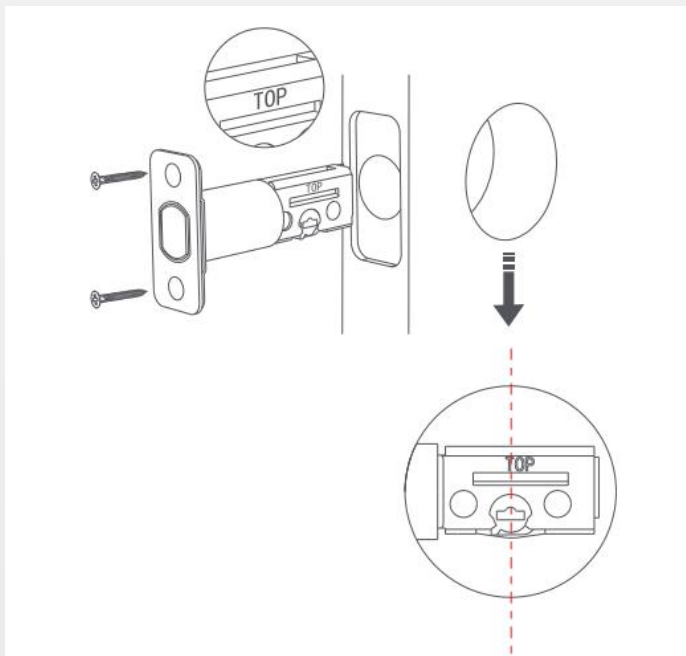


2. Adjust the latch according to the measurements.

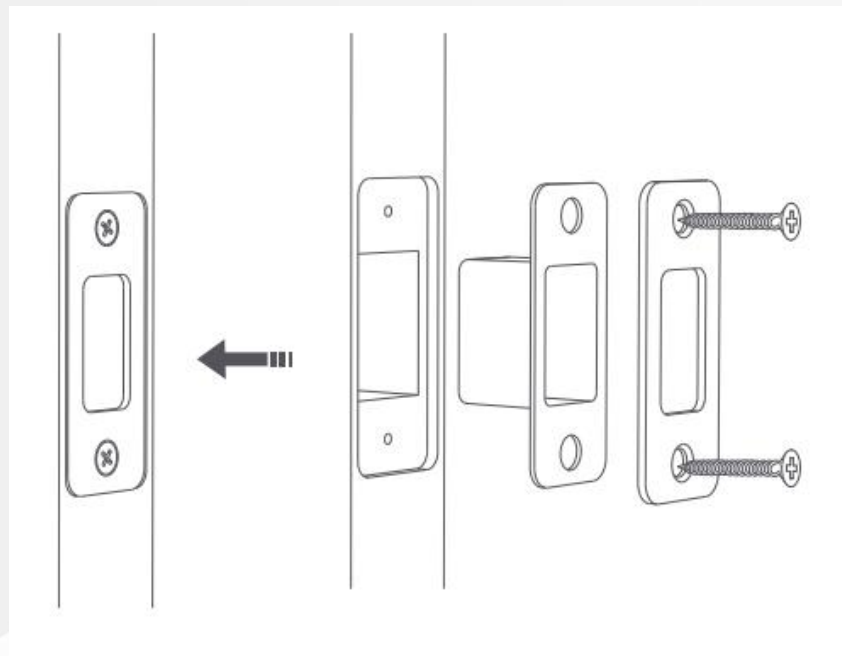


Installation method

3. Fix the latch. Make sure that the "TOP" is facing up.

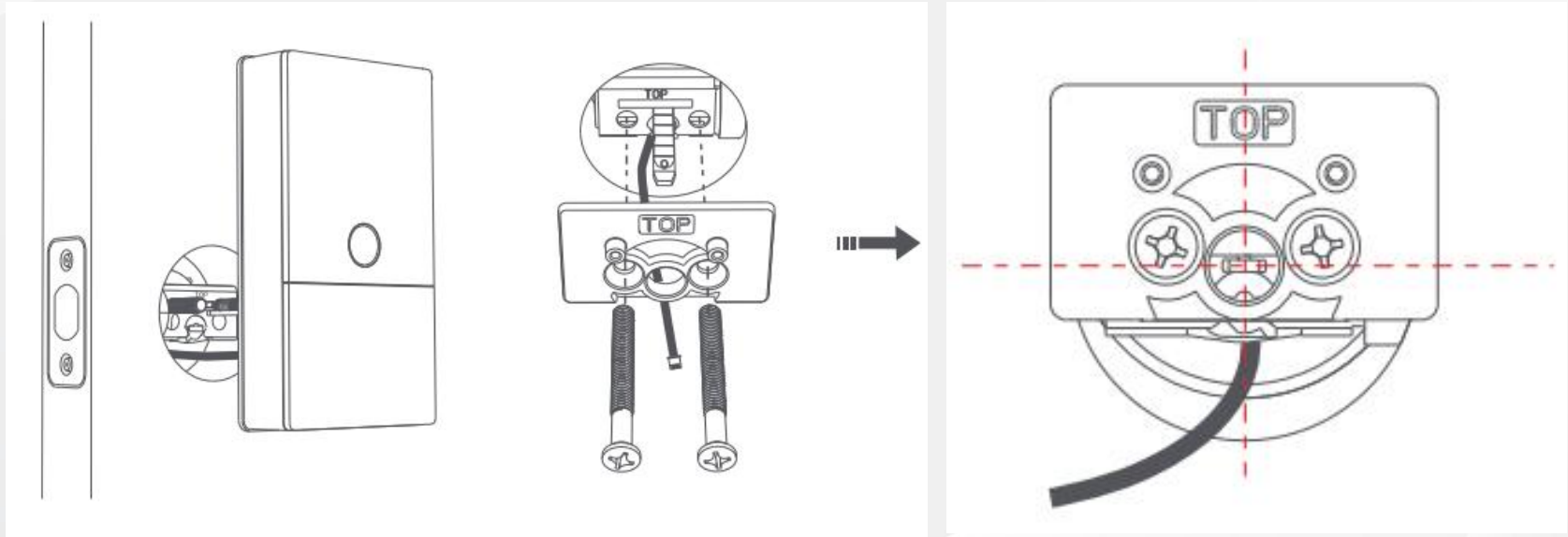


4. Install the strike plate to the door frame.



Installation method

5. Pass the outer panel connector cable through the deadbolt inside the door and strengthen the outer panel with the mounting plate and opposite-pull screw.

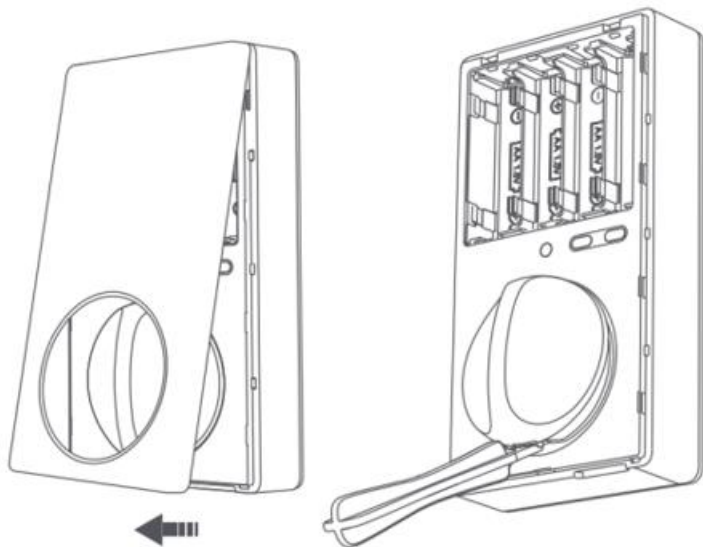


* After installation, please rotate the tailpiece to check if it is smooth when locking or unlocking. If there is a jam, please check if the tailpiece is placed in the center of the mounting plate opening and if there is no interference with other parts.

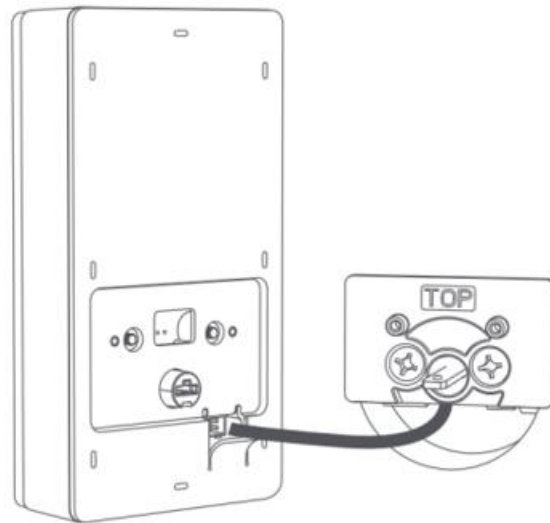
安装方式

Aqara

6. Remove the battery cover, then take off the knob cover with the removal tool.



7. Fix the connector cable of the outer panel to the inner panel.



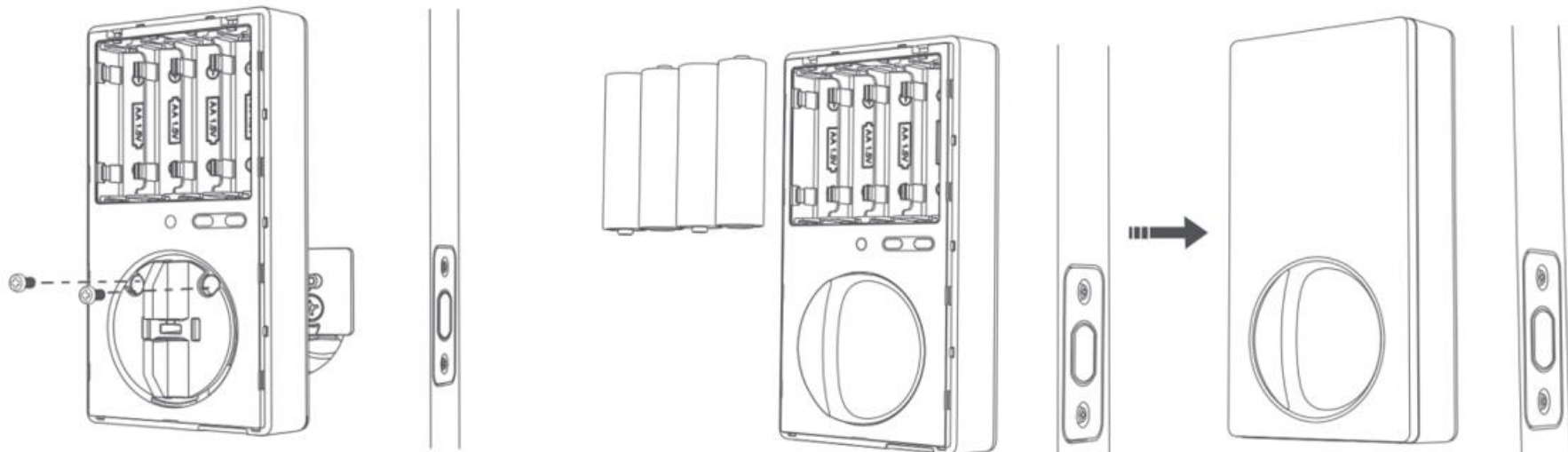
continuous connection

安装方式

Aqara

8. Fix the inner panel to the mounting plate indoors and cover the knob.

9. Once the battery installed successfully, a voice prompt will be played to indicate the installation is completed.



Installation Complete

Aqara

Aqara
U50



Part 5

Recommended Automation

Go home at the designated time, and turn on the lights indoors without turning them on

Welcome home: With the help of a illuminate sensor and a wall switch, when you return home at the designated time (indicated/locked/card unlocked), the indoor environment will dim and the lights will automatically turn on

Unlock with Wireless mini switch or Cube T1 Pro

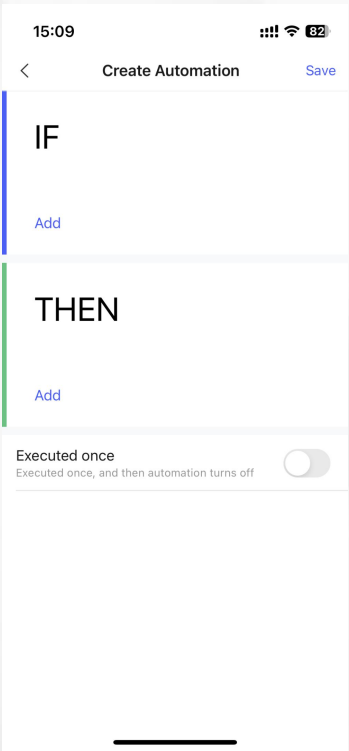
A more interesting and cool way to unlock? Aqara zigbee 3.0 wireless switch and Cube T1 Pro, can automatically unlock and lock in any way.

Strangers attempting to unlock

Someone entered any credentials incorrectly 5 times on U50, triggering G4 doorbell alarm sound and recording

Unlock the Home App as soon as you get home

After binding HomePod to the Home app, users can set U50 to automatically unlock when the first person returns home, combined with U100's original door locking function, allowing you to enter and exit freely.



Part 6

Product Specification

Item	Product Specification
Product Name	Smart Lock U50
Product model	DLD05E
Product size	Rear lock: 140.2mm * 76.2mm * 29mm (46.2mm including knob) Front lock: 134.8mmx74.8mmx26mm (including tail rod 88.4mm)
Unlock method	Multiple outdoor unlocking methods include password, temporary password, mechanical key, mobile Bluetooth, NFC, HomeKit, Apple home key, remote unlocking, remote setting of periodic password, Alexa Google voice unlocking, and more
Language	Chinese, English, French, and Spanish phonetics (default: English)
Battery	4 AA batteries (open and automatically lock 8 times a day for 8 months)
Battery life	Calculated based on opening the door 8 times a day, automatically locking 8 times, with a battery life of 8 months;
Emergency power supply	Type-C external power supply, 5V DC
Anti static electricity	Contact 8KV, non-contact 15KV
Working temperature	-18 °C~55 °C
Working humidity	0-93% RH, non condensing
Dust and waterproof	IPX5 (keyboard)
Lock body type	American standard Deadbolt supports 60-70mm Backset
Adapt to door thickness	35-55mm
Adapt to door seams	2-10mm

Unlock method	Item	Specification
Normal password Temporary password	Password digits	6-10 valid passwords
	code capacity	A total of 75 sets, including 50 sets of regular passwords and 25 sets of periodic passwords; * One time password, 8 sets per hour Apple visitor ID 16 groups
	Virtual password	Supports 20 virtual passwords (including real passwords)
	Key type	Mechanical lock cylinder, mechanical key, 2 keys are included
Mechanical key unlocking	Grip handle	No distortion or deformation can occur within the range of unlocking force
	capacity	Maximum limit of 2 single user credentials, total limit of 25
NFC	frequency	Frequency: 13.56MHz, distance: ≤ 2cm
	Bluetooth	Encryption chip
HomeKit	Pairing form	Scan the Apple pairing code to bind the door lock to HomeKit, achieving intelligent linkage with other HomeKit devices
	Home Key	Supported, distance: ≤ 3cm

Item	Lock body Specification	
Lock body	American standard Deadbolt supports 60-70mm Backset	
Lock body characteristics	SC1 5 marbles	
Lock tongue type	90 degree adjustable dead bolt	
Wireless type	Project	Specification
BLE	Standard	Bluetooth 5.0
	Communication distance	More than 20 meters in an open environment
Zigbee	Standard	Zigbee3.0
	Communication distance	Indoor height greater than 20 meters



Part 7

Summary of Selling Points

Main differences from U100

Reduce	Plus
Fingerprint sensor U100 can still unlock for 1 second even for Android users	Add right angle guide plates and buckle plates to the lock body Users can choose to install right angle guide vanes, which is more user-friendly for modifying doors.
Single coat spray painting Compared to U100 double-layer paint, the texture is slightly inferior	Physical Leave home mode button One click linkage with other IoT devices in the user's home, no need to turn them off one by one when leaving home.
IP65 changed to IPX5 U50 reduces the requirement for air tightness, reducing assembly and component costs	

U100 KANO model: product elements that touch users

- ✓ Try it out - Supports Apple Home Key HomeKey, no need to take off gloves in winter
- Try it out - Supporting Matter ecosystem through the Aqara gateway: multiple ecosystems can use U50

- ✓ Support for Apple ecosystem: access HOME app, visitor password for daily use
- Support mainstream platforms: Alexa Google Ecological Voice and APP unlocking
- ✓ Fun and practical linkage: Collaborate with other smart devices, especially purchased Aqara products
- ✓ Beautiful and durable: The exterior design and production process are exquisite, and design team has won numerous design awards
- Advanced functions: gyroscopic door locking, remote unlocking, periodic password setting, normally open mode, do not disturb mode

- ✓ Reliable and less maintenance: front lock IPX5 dust-proof and waterproof,>8 months of battery life, 200000 tests for opening and closing
- Convenient for both the elderly and children: simple interaction, available HomeKey/NFC
- Security: Only logged in family members can unlock, others cannot unlock, and BHMA authentication is required
- ✓ Low learning cost: easy to install, use, and understand
- ✓ Reasonable price

EXCITERS

WANT

MUST

Thank you