

Aqara Home

智能家居体验馆

Smart Lock U200

Product Introduction V0.3

Contend

1. Product Introduction
2. Product Features
3. Software Function
4. Installation Method
5. Product Specification



Part 1

Product Introduction

Product Overview

U200 is a sticker lock mainly sold in the European market. The principle is to install a motor indoors and rotate the unlocking knob or key of the original door lock to unlock or lock the user.

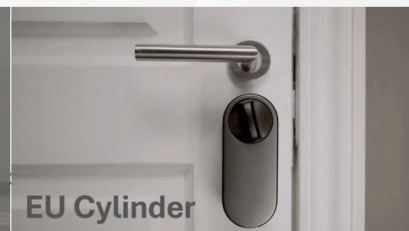
The outdoor fingerprint password keyboard communicates with the indoor door lock through Bluetooth, therefore no need to perform any perforation work on the door. Users only need ten minutes to install the lock on the indoor door for use.

- Main sales: Europe
- Other regions: North America
- Supported Aqara Hub: M3
- Third party hub (thread):

<https://www.theverge.com/23568091/matter-compatible-devices-accessories-apple-amazon-google-samsung>



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Knod

Rear Cover

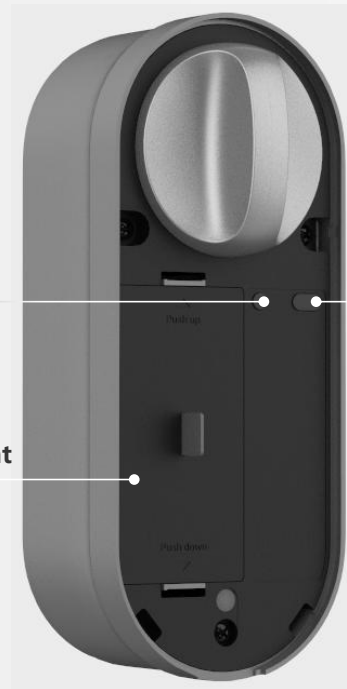
Reset Button

Long press to reset the lock

Battery Compartment

4AA LR6 3 months
Li-Battery 6 months

*unlock the door with
fingerprint 8 times each day



Set / Matter Button

Single click to allow Aqara app
/ Matter binding



Keypad

LED

Home Key / NFC Area

Return / Lock Button

Enter Button

Fingerprint Area

Speaker



What is in the Box:

Smart Lock U200 × 1

User Manual × 1

Aqara Rechargeable Battery × 1

Cylinder Adaptor Kit × 1

Hexagon Screwdriver × 1

USB-C Cable × 1

AAA Battery × 4

3M Sticker × 1

EVA Pad Kit × 1

Screw Kit × 1

Power Bank Pouch × 1

Smart Lock U200 European and American door locks

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Aqara U200

Smarter. Keyless. Effortless.



Core requirements	Details
Thread Lock	A hub is required to support linkage with multiple platforms; Easy to install, suitable for Europe and America
Wireless Technology	BLE + Thread (Matter)
Wireless Keyboard	Wireless independent fingerprint keyboard, can be used as a separate accessory
Open/Close Detection	Gyroscope detection gate status
Unlocking Method	Fingerprint, password, Bluetooth, Home key, Unlock your phone
Battery Specifications	Door lock: Lithium battery capacity 2000mAh Keyboard: 4-section AAA
Battery life	Door lock for 6 months; Keyboard 6 months
Dust and waterproof	Door lock IPXX; Keyboard IPX5
Working Temperature	-18°C ~ +65°C
Access platform	Aqara Home、 Matter
Optional accessories	Host lithium battery, wood grain surface cover, adjustable lock core

Online and offline door locks



Lithium Battery



Keyboard



Smart Lock U200 / 300	Bluetooth BLE Local Direct Connection	THREAD Connected to Gateway
Locally Supported Features Bluetooth local direct connection to door locks	• Unlocking and locking, • Local user management, • Creating periodic passwords locally, • Creating one-time passwords remotely, • Viewing logs and battery status, • Volume and language settings, • Bluetooth updates, • Door lock function settings, • Door lock calibration.	
Features Supported After Binding the Gateway Examples of Ecosystems : Apple Home Amazon Alexa Google Home Smarthings Homey	NA	• Remote unlocking and locking, • Remote creation of periodic passwords, • Remote viewing of logs and battery status, • Integration with third-party apps for automatic updates via Thread(OTA), • Remote mobile notifications (for someone entering the house, alarm events, etc.), • Setting up automation, • Integration with Aqara camera products (Aqara Home app) for linkage.
Key Differences	• Exclusive compatibility with Aqara Home app, • Requires proximity to the door lock for direct Bluetooth connection.	• Integration with third-party gateways for compatibility with other ecosystems, • Support for remote functionality, • Support for automation features, • Support for mobile push notifications.

Third Party Ecosystem Support Thread Border Router

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Apple TV 4K (3rd gen, 128GB)
Apple TV 4K (2nd gen)
HomePod (2nd gen)
HomePod mini



Smartthings Hub v3
Smartthings Station



Echo (4th gen)
Echo show 8 (3rd gen)



Nest Hub (2nd gen)
Nest Hub Max
Nest Wifi Pro

continuous connection

Part 2

Product Features



Open your door lock like unlocking your phone

Using a fingerprint module with a resolution of 160 * 160, the sensor area is 75% larger than popular solutions on the market,

Avoid insensitive issues and insist on providing a stable unlocking experience

Matter integrates the advantages of hundreds of companies

Adopting the Thread protocol is faster and more stable, while enjoying the fun of the complex ecosystem. We will collaborate deeply with different platforms in Aqara to enhance the experience of accessing third-party platforms

The most complete Apple ecosystem: Home Key+visitor password+OTA

The Aqara U200 is the first Retrofit door lock to have both an Apple home key and a visitor password function when connected to the Home app through Matter. With the addition of the Home Key function, even if wearing gloves is inconvenient for fingerprint unlocking in winter, 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 set periodic passwords for your cleaners. Users can add fingerprints and NFC cards locally to the door lock for a complete unlocking experience. Additionally, U200 supports OTA updates on the Home app.

Gently press the button to automatically turn to the point

No longer need to rotate 2-3 circles, rotate the indoor host 45 degrees, and the motor will automatically turn to the point according to the direction you rotate, Unlocking or unlocking for you

Silent locking function

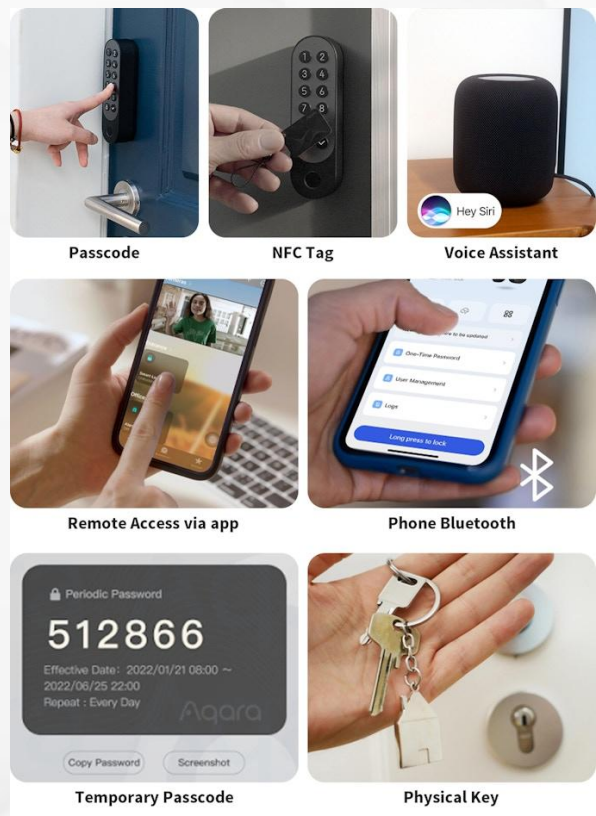
In the Aqara App, silent unlocking and locking periods can be set, and the door lock will slow down the unlocking speed and reduce the noise during operation

Support Pull Spring feature

The door lock can be retracted with latch bolt, meeting the scene of opening the door as soon as you push it open

Lithium batteries and DC power supply are more environmentally friendly and durable

The product uses the Aqara lithium battery pack, which is more durable and environmentally friendly. In addition, the keyboard supports 12-24V AC and DC power supply, avoiding the hassle of battery swapping and insensitivity in low temperature weather



Aqara ecology cooperates with G4 doorbell to confirm identity and unlock at once

When used with M3 hub and G4 doorbells, users can first check the user's identity outside the door and then click unlock on the app page. Achieve smooth and natural unlocking function

Interchangeable veneer to adapt to different home decor

The anti fingerprint frosted panel, low-key matte metallic luster, and freely adjustable decorative cover are designed to fit your high-end home environment. The responsible design team has won global design awards and is fully committed to satisfying users' pursuit of beauty

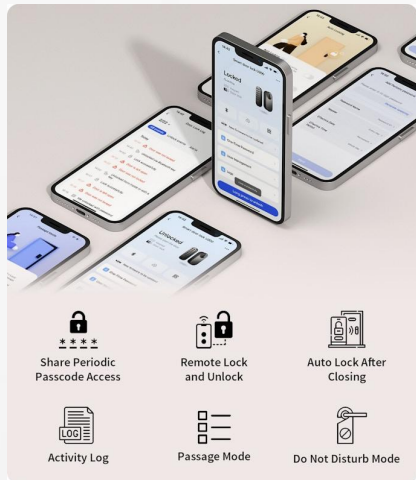
Stable and durable

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 70000 unlocking and automatic locking tests, making it stable and durable

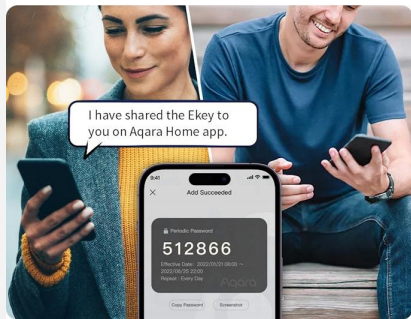


Part 3

Software Function



Share Access



*Aqara Home 周期性密码生成页面

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

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

Periodic password

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

Support Pull Spring feature

The door lock can be retracted with latch bolt, meeting the scene of opening the door as soon as you push it open

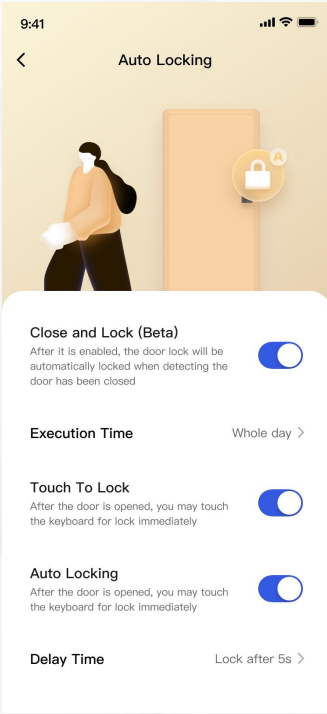
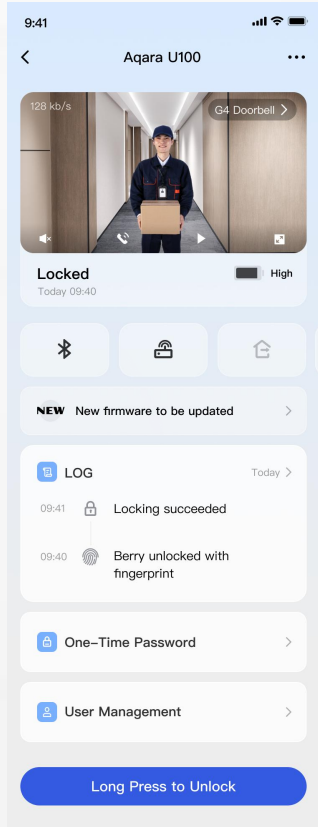
Aqara G4 doorbell linkage

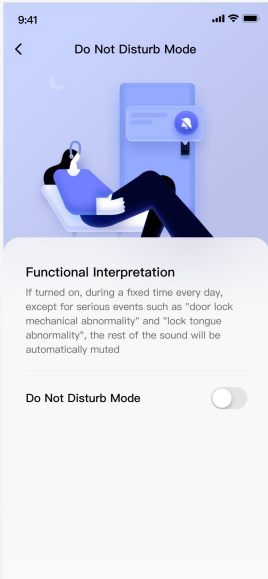
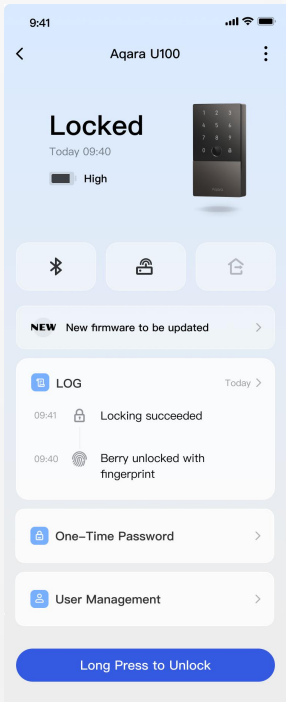
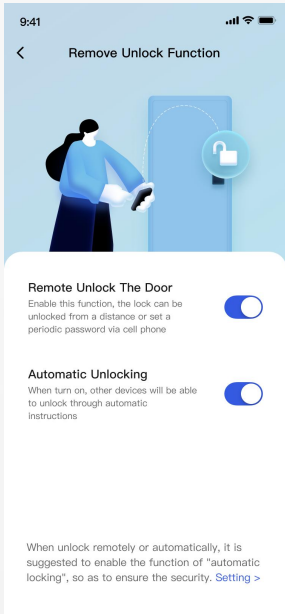
With M3, it can be connected to cameras under the same account, providing a convenient user experience for camera door locks

Close the door and lock it

The U200 has a built-in gyroscope that 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.

- *Gyroscope can support door state detection function, but opening it in Aqara will consume more power
- *Default open in Matter mode





Remote unlocking and locking

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

Do Not Disturb Mode

Finally, I waited for my baby to fall asleep and didn't want anyone to be woken up by the digital 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 enable the remote function, the app homepage card can be directly unlocked/locked

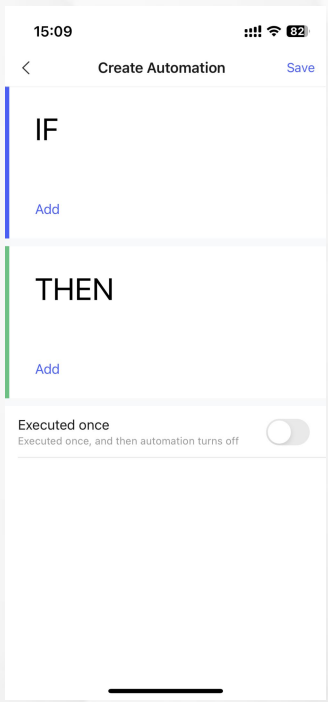
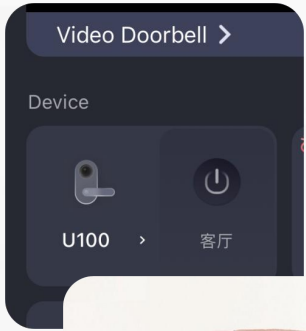
View log

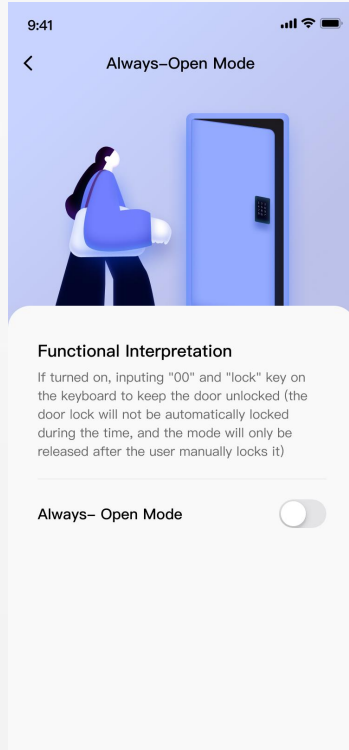
You can view the unlocking log in the app to know when your child return home

Automation settings

Want a more fun and cool way to unlock? After binding M3 hub, Aqara wireless switch, and Cube T1 Pro, 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





Always-Open mode

After enabling the Always-open mode 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 of U200, 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 app.

Unlocking Methods



Fingerprint
unlock



Password unlock



BLE unlock



Periodic/one-time
password



Matter unlock



NFC card unlock



Key unlock



Apple Home Key
Unlocking



Voice unlock



Automation
unlock

Product Function Summary

✓ Fingerprint unlock	✓ App settings for door locks	✓ Convenient local setting function	✓ >6 months of battery life
✓ Password unlock	✓ Abnormal alarm function	✓ Bluetooth, Thread connection	✓ 3D large area array fingerprint recognition
✓ Password unlock	✓ Rich linkage control conditions	✓ OTA upgrade	✓ Customized PB fingerprint recognition algorithm
✓ Virtual password unlocking	✓ Remote viewing of door lock logs	✓ Bind G4 doorbell for unlocking	✓ AES encryption algorithm for secure unlocking
✓ Periodic password unlocking	✓ Remote setting of periodic passwords	✓ Local encryption of fingerprint module	✓ IPX5, 70000 opening and closing tests
✓ Mechanical key unlock	✓ Gyroscope automatically locks when opening the door	✓ User data is stored locally	✓ Supporting the Matter ecosystem
✓ NFC unlocking	✓ Pull Spring feature		
✓ Mobile Bluetooth unlock	✓ Silent unlocking and locking function		
✓ Remote unlock	✓ Door lock calibration		
✓ Matter unlock			
✓ Apple Home Key			

Part 4

Product installation

European standard door lock

Mortise lock bodies of different specifications are normally used in Europe, with majority of people use EU Cylinder lock cores.

The most common type of door lock in Europe is the UK/EU Mortise Lock, especially in the UK where most people choose to use a handle lock. However, the installation of this type of lock is complex and requires a dedicated person to install it.

Most regions in Europe are willing to use Retrofit Locks, which can be installed by users themselves. The installation process only takes less than 10 minutes, making it suitable for online sales.

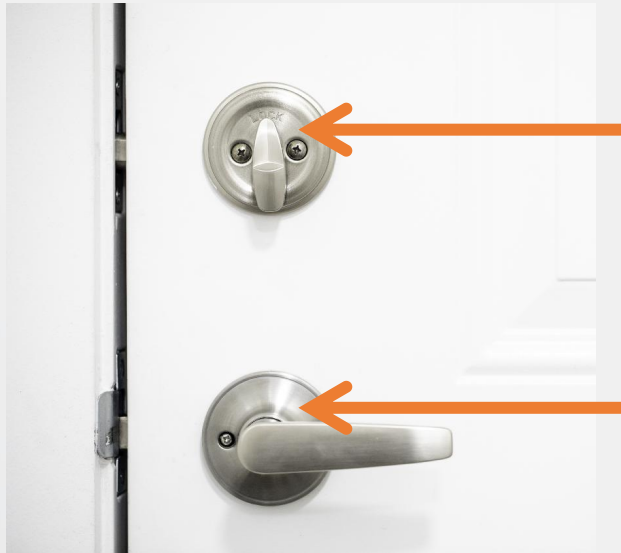


American standard door lock

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

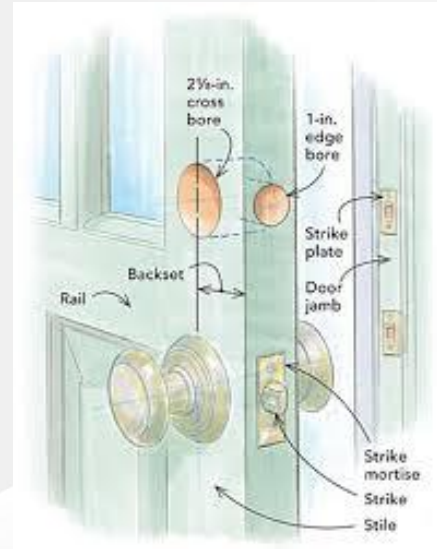
This product requires users to confirm whether their doors are suitable for installing Deadbolt locks



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



European door installation reference



Door requirements: 35mm-70mm thick

There are mainly three types of square lock methods

Key: Rotate the key to unlock and secure the door lock to the lock center. The key must meet the size requirements in the above picture

Knob: Remove the original knob, use the Aqara adapter, and secure the door lock to the lock core

Purchase adjustable lock core: Purchase Aqara Yale Nuki's adjustable dedicated lock core for installation

Installation tool: PH1 standard cross screwdriver

* It is estimated that the installation can be completed within 10mins

American standard door installation reference



Door requirements: 35mm-55mm thick

Installation tool: PH1 standard cross screwdriver

Installation method: Remove the original knob, use the Aqara adapter, and fix the door lock to the door

* It is estimated that the installation can be completed within 10mins

Installation diagram completed

*The indoor of the American standard will reverse 180 degrees

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continuous connection

Part 5

Product Specification

Product Name	Smart Lock U200
Product model	EL-D02E (online) EL-D02D (offline)
Product size	Door lock 62 * 61 * 153mm (2.4 * 2.4 * 6 in.) Keyboard 43 * 33 * 146mm (1.7 * 1.3 * 5.7 in.)
Product color	Black Silvery White (crowdfunding limited)
Product material	PC, zinc alloy
battery	Door lock: Lithium battery capacity 2000mAh Keyboard: 4-section AAA, can choose AC DC 12-24V long power supply
Product battery life	Door lock for 6 months; Keyboard 6 months
Wireless protocol	BLE 5.1, Thread
Wireless frequency	2.4GHz
Communication distance	10 meters
working temperature	-18 °C~+55 °C (can be tested for over temperature rise)
Storage temperature	-35 °C~+70 °C (can be tested for over temperature rise)
Working humidity	0-93% RH, no condensation

Item		Product Specification		Unlock method	Item	Specification
Name	Smart Lock U200			Fingerprint	Response time	Less than 0.5s (excluding the connection time of front and rear locks)
Model	EL-D02E (online) EL-D02D (offline)				Fingerprint capacity	>20 pieces
Dimension	Door lock 62 * 61 * 153mm (2.4 * 2.4 * 6 in.)				Fake acceptance rate	<one millionth
	Keyboard 43 * 33 * 146mm (1.7 * 1.3 * 5.7 in.)					
Unlock method	Multiple outdoor unlocking methods, including fingerprint, password, temporary password, mobile Bluetooth, NFC, Matter, Apple home key, remote unlocking, remote setting of periodic password, etc				Rejection rate	<one hundred thousandth
				Other features	Semiconductor live detection and fingerprint recognition algorithms	
Language	(Default: English) German			Normal password Temporary password	Password digits	6-10 valid passwords
Battery	4 AA batteries/lithium batteries				code capacity	A total of 75 sets, including 50 sets of regular passwords and 25 sets of periodic passwords;
Host battery life	Automatically lock 8 times per day based on opening the door 8 times; Lithium battery for 6 months				Virtual password	Supports 20 virtual passwords (including real passwords)
Long term power supply	Keyboard DC V12-v24			Optional mechanical lock core	Key type	Adjustable length, comes with 2 keys
Anti static electricity	Contact 8KV, non-contact 15KV				Grip handle	No distortion or deformation can occur within the range of unlocking force
Working temperature	-18 ℃~55 ℃			NFC	capacity	Maximum limit of 2 single user credentials, total limit of 25
Working humidity	0-93% RH, non condensing				frequency	Frequency: 13.56MHz, distance: ≤ 2cm
Dust and waterproof	IPX5 (keyboard), IPXX (door lock)				Bluetooth	Encryption chip
Lock body type	American Standard Deadbolt/European Standard Lock			Matter	Pairing	Scan the MATTER pairing code, the door lock can be bound to a third-party platform t to achieve smart linkage with other platform devices
Adapt to door thickness	NA				Home Key	Supported, recognition distance: 3cm
Adapt to door seams	2-10mm					

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Item	Lock body Specification	
Door lock type	USA standard Deadbolt supports 60/70mm Backset EU standard cylinder	
Lock body characteristics	Users can replace it themselves, and Aqara provide accessories	

Wireless type	Project	Specification
BLE	Standard	Bluetooth 5.1
	Communication distance	More than 20 meters in an open environment
Thread	Standard	V1.2
	Communication distance	Indoor height greater than 20 meters

continuous connection

U200 KANO model: product elements that touch users

- **Home Key**
- **Matter over Thread supports multiple ecological uses**
- **Bind Hub M3 linkage with 100 Aqara devices**

EXCITERS

- Silent unlocking and locking settings
- Automatic locking of door closing
- Remote periodic password setting for guests
- Interchangeable decorative cover
- Excellent fingerprint unlock user experience
- Providing lithium batteries only requires charging once every six months

WANT

- Doors in Europe and America can be installed
- Pull Spring function allows the door to open as soon as it is pushed
- Keyboard IPX5 waterproof
- Matter users use local settings to support fingerprint password NFC card unlocking
- Easy to install, can be installed in 10 minutes
- Provide a power bank hanging bag for users to hang on the door for charging
- Equipped with door lock logs, push notifications, and low battery reminders
- Reasonable price

MUST

Thank you