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Aqara U100

Aqara Smart Lock U100 Instruction Manual

Model: U100 (SDL-D01)

1. Introduction

The Aqara Smart Lock U100 is an advanced keyless entry deadbolt designed to enhance home security and convenience. This manual provides comprehensive instructions for installation, setup, operation, and maintenance of your new smart lock.

The U100 integrates seamlessly with various smart home ecosystems, offering multiple unlocking methods including fingerprint, touchscreen keypad, Apple Home Key, and traditional mechanical key. Its robust design ensures durability and reliable performance in diverse environmental conditions.

2. Safety Information

- Read all instructions carefully before installation and use.
- Do not use non-alkaline batteries. Use four 1.5V AA alkaline batteries only.
- Ensure proper door preparation and alignment for optimal lock function.
- Keep mechanical keys in a safe, accessible location outside the home for emergency use.
- Protect your administrator password and fingerprints to prevent unauthorized access.

3. Package Contents

Verify that all components are present before beginning installation:

- Smart Lock U100 (Silver) x 1
- AA Battery x 4
- Mechanical Key x 2
- Installation Accessories (screws, strike plates, etc.)
- User Manual x 1

4. Product Overview

The Aqara Smart Lock U100 offers a blend of security and smart home integration.

Figure 1: Aqara Smart Lock U100 product packaging and main components.

Key Features:

- **Apple Home & Home Key Support:** Unlock your door by tapping an iPhone or Apple Watch. Manage access via Apple Home. (Requires an Apple Home Hub for Home Key sharing).
- **Fingerprint Recognition:** High-precision fingerprint reader stores up to 50 fingerprints for quick access.
- **Touchscreen Keypad:** Use remotely configurable passwords via the Aqara Home app (requires Aqara Zigbee 3.0 hub) or one-time local passwords for visitors.
- **Mechanical Key:** Provides an emergency unlocking method.
- **Smart Home Automations:** Compatible with Alexa, IFTTT, and Aqara Home app (requires Aqara Zigbee 3.0 hub) for integration into smart home setups.
- **Auto Lock & Do Not Disturb Mode:** Automatically locks the door after closing (adjustable) and mutes lock sounds during specified periods.
- **Durable & Secure:** Zinc alloy body with IP65 rating, BHMA Level 3 safety standard, and AES encrypted local data storage.
- **Long Battery Life:** Powered by four 1.5V AA alkaline batteries, offering up to 8 months of use. Includes a USB-C port for emergency charging.

5. Installation

Pre-installation Requirements:

- Replaces a single cylinder deadbolt lock.
- Backset: 2 3/8-inch or 2 3/4-inch (60 or 70mm).
- Wooden door thickness: 1 3/8-inch to 2 11/64-inch (35-55mm).

- Diameter of door hole: 2 1/8-inch (54mm).
- PH1 screwdriver required.

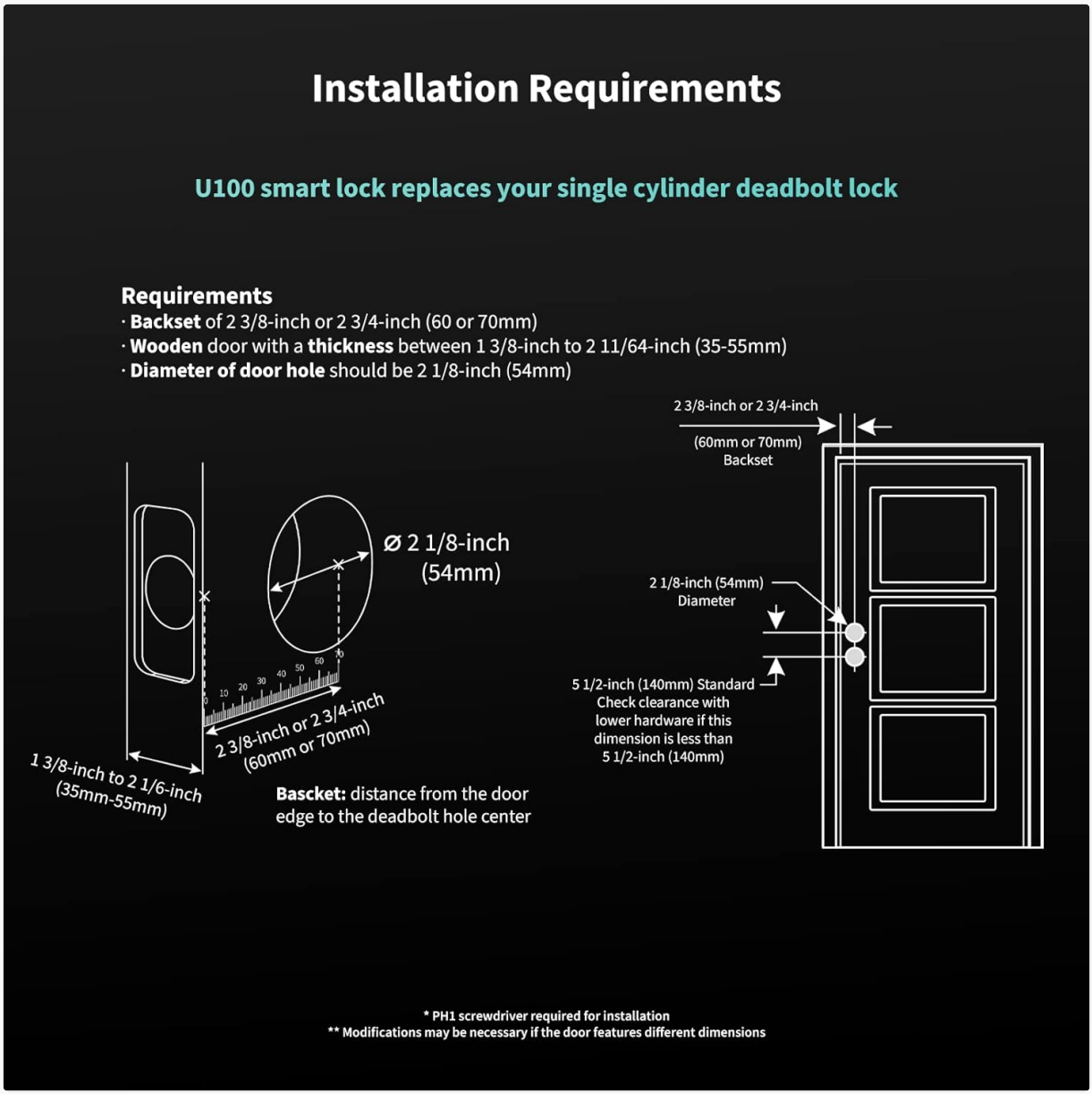

Figure 2: Door dimensions and requirements for U100 installation.

Installation Steps:

1. **Remove Existing Lock:** Use a screwdriver to remove your current deadbolt lock from the door.
2. **Install Latch:** Insert the new latch into the door edge. Ensure it is oriented correctly for your door's swing. Secure with screws.
3. **Install Exterior Assembly:** Place the exterior keypad assembly onto the door, aligning the spindle through the latch.
4. **Install Interior Mounting Plate:** Attach the interior mounting plate to the door, securing it to the exterior assembly with screws. Route the cable through the plate.
5. **Connect Cable:** Connect the cable from the exterior assembly to the interior assembly.
6. **Install Interior Assembly:** Attach the interior assembly to the mounting plate. Secure with screws.
7. **Insert Batteries:** Open the battery cover on the interior assembly and insert the four AA alkaline batteries.

8. **Test Mechanical Function:** Before closing the battery cover, test the mechanical key and the interior knob to ensure smooth operation.

Video 1: Installation guide for the Aqara Smart Lock U100, demonstrating the step-by-step process of replacing an existing deadbolt with the smart lock.

6. Setup (App Integration)

To unlock the full potential of your Aqara Smart Lock U100, integrate it with the Aqara Home app and other smart home platforms.

6.1 Aqara Home App Setup:

1. **Download App:** Download the Aqara Home app from your device's app store.
2. **Add Accessory:** Open the app, navigate to the "Accessories" page, and select "Smart Lock U100".
3. **Pair Lock:** Follow the in-app instructions. Hold your phone close to the door lock, open the battery cover, and briefly press the "Set" key. A six-digit password will appear on the app. Enter this password on the door lock's keypad.
4. **Rename & Assign:** Rename the lock and assign it to a specific room.
5. **Set Administrator Password:** Set a 6-10 digit administrator password. Remember this password as it cannot be viewed again.
6. **Add Fingerprint:** Follow the instructions to complete fingerprint registration. Fingerprints can be added or changed later via the "User Management" page.
7. **Door Lock Detection & Calibration:** Close the door from the inside and click "Start" in the app. The lock will automatically detect the locking direction. Follow subsequent prompts to calibrate the lock.

Video 2: Guide on how to add the Aqara Smart Lock U100 to the Aqara Home app, including pairing, password setup, and fingerprint registration.

6.2 Connecting with Amazon Alexa:

To control your Smart Lock U100 with Alexa, you need an Aqara Zigbee 3.0 hub.

1. **Bind E1 Hub:** Ensure your Aqara E1 hub is bound to Aqara.
2. **Launch Alexa App:** Open and log in to the Amazon Alexa app.
3. **Bind Smart Speaker:** Bind your smart speaker (e.g., Echo Show) to the Alexa app.
4. **Add Aqara Account:** In the Alexa app, search for "Aqara" and add your Aqara account.
5. **Add Smart Lock U100:** Alexa will search for and connect to the Smart Lock U100.
6. **Set 4-digit Password:** Set a 4-digit password within the Alexa app for unlocking using voice commands.

Video 3: Instructions for connecting the Aqara Smart Lock U100 with Amazon Alexa for voice control and smart home integration.

6.3 Connecting with Google Home:

To control your Smart Lock U100 with Google Home, you need an Aqara Zigbee 3.0 hub.

1. **Bind E1 Hub:** Ensure your Aqara E1 hub is bound to Aqara.
2. **Launch Google Home App:** Open and log in to the Google Home app.

3. **Add Aqara Account:** In the Google Home app, search for "Aqara" and add your Aqara account.
4. **Add Smart Lock U100:** Google Home will search for and connect to the Smart Lock U100.
5. **Set 4-digit Password:** Set a 4-digit password within the Google Home app for unlocking using voice commands.

7. Operating Instructions

7.1 Unlocking Methods:

- **Fingerprint:** Place your registered finger on the fingerprint reader.
- **Keypad:** Enter your registered password on the touchscreen keypad.
- **Apple Home Key:** Tap your iPhone or Apple Watch to the lock. (Requires Apple Home Hub).
- **Aqara Home App:** Use the app to remotely unlock the door (requires Aqara Zigbee 3.0 hub).
- **Mechanical Key:** Insert the physical key into the keyhole and turn to unlock.

Figure 3: Unlocking the U100 using Apple Home Key with an iPhone or Apple Watch.

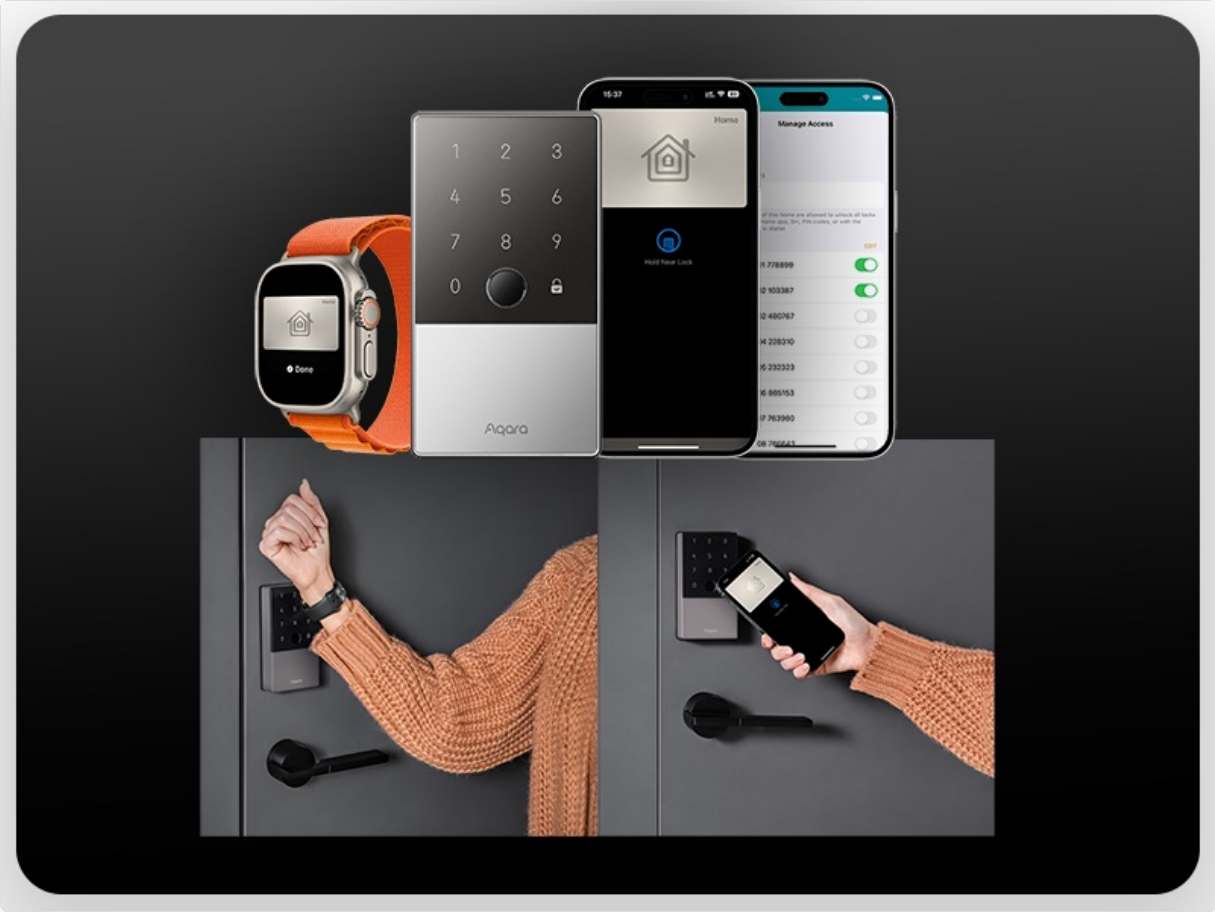

Figure 4: Keypad entry with anti-peep password feature.

7.2 Locking Methods:

- **Auto Lock:** The built-in gyroscope detects when the door is closed and automatically locks it after a set delay. This feature can be disabled in the app.
- **Manual Lock:** Press the lock button on the keypad or turn the interior knob to manually lock the door.
- **Aqara Home App:** Use the app to remotely lock the door (requires Aqara Zigbee 3.0 hub).

7.3 Do Not Disturb Mode:

This mode mutes the door lock sounds within a specified period, preventing disturbance during sleep or quiet times. Activate and configure this mode in the Aqara Home app.

Figure 5: Configuration options for Do Not Disturb Mode and Passage Mode.

7.4 Passage Mode:

When Passage Mode is enabled, the door remains unlocked for continuous access without requiring authentication. This is useful for periods of high traffic or when you want the door to remain open. This mode can be configured in the Aqara Home app.

8. Maintenance

8.1 Battery Replacement:

The U100 is powered by four 1.5V AA alkaline batteries. When the battery level is low, the lock will provide alerts. To replace batteries:

1. Open the battery cover on the interior assembly.
2. Remove the old batteries.
3. Insert four new 1.5V AA alkaline batteries, ensuring correct polarity.
4. Close the battery cover.

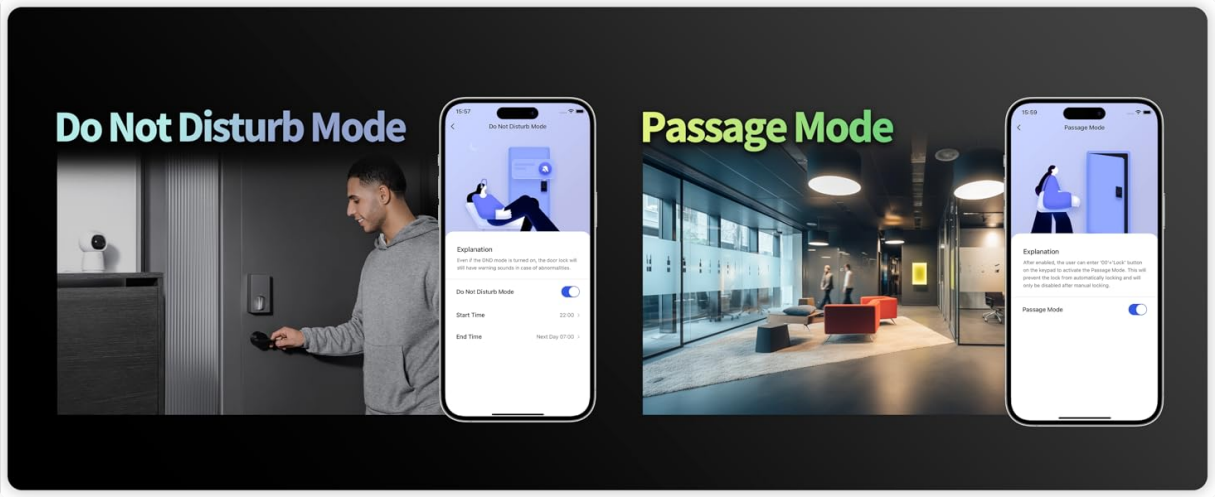

Figure 6: Battery compartment for the U100, showing the four AA batteries.

8.2 Emergency Charging:

In case of complete battery depletion, the lock features a USB-C port for emergency power. Connect a USB-C power bank to this port to temporarily power the lock and gain access.

Figure 7: Emergency unlock options including mechanical key and USB-C port.

8.3 Cleaning:

Wipe the touchscreen and lock body with a soft, dry cloth. Avoid using abrasive cleaners or solvents that may damage the finish.

9. Troubleshooting

- **Lock not responding:** Check battery levels. If batteries are depleted, use the USB-C emergency port or mechanical key.
- **Fingerprint not recognized:** Ensure your finger is clean and dry. Re-register your fingerprint if issues persist.
- **Keypad not responding:** Ensure the keypad is clean. If the lock is completely unresponsive, check battery levels.
- **Auto-lock not working:** Verify that the auto-lock feature is enabled in the Aqara Home app. Check for any obstructions preventing the deadbolt from extending fully.
- **Difficulty with app connection:** Ensure Bluetooth is enabled on your phone and the lock is within range. For remote access, confirm your Aqara Zigbee 3.0 hub is online and properly configured.
- **Lock makes excessive noise:** This can sometimes be adjusted in the app by enabling a "quiet mode" which slows down the locking mechanism.

10. Specifications

Feature	Specification
Brand	Aqara
Model Name	U100 (SDL-D01)
Lock Type	Biometric Deadbolt
Material	Zinc Alloy
Color	Silver
Dimensions (L x W x H)	5.27 x 3.46 x 2.91 inches
Item Weight	3.89 pounds (1.77 Kilograms)
Power Source	4 x 1.5V AA Alkaline Batteries
Battery Life	Up to 8 months (typical use)
Emergency Power	USB-C Port
Connectivity Protocol	Zigbee
Controller Type	Amazon Alexa, Apple HomeKit
Special Features	App Control, Fingerprint, Keyless, Apple Home Key, IP65 Weatherproof
Safety Standard	BHMA Level 3

11. Warranty and Support

The Aqara Smart Lock U100 comes with a manufacturer's warranty. For detailed warranty information, product support, or technical assistance, please refer to the official Aqara website or contact Aqara

customer service.

You can also find additional resources and FAQs on theAqara Store.

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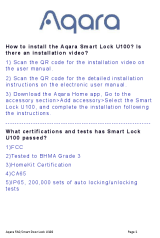
Related Documents - U100

	Aqara Smart Lock U100 FAQ - Installation, Features, and Troubleshooting Comprehensive FAQ for the Aqara Smart Lock U100. Find answers to installation questions, technical specifications, troubleshooting tips, connectivity options (HomeKit, Alexa, Google), security features, and user management.
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