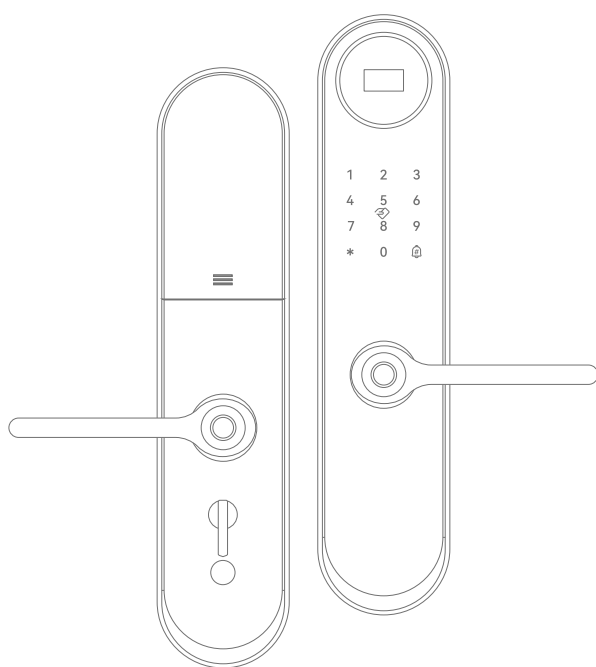


# Smart Door Lock **User Manual**

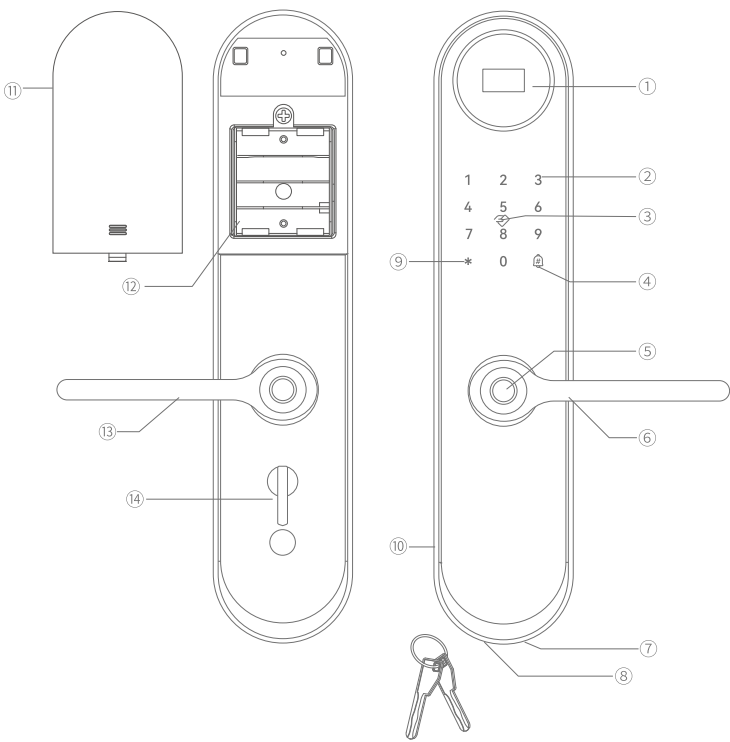
DL-6828



TuYA  
Smart Life

# 1. Product Diagram

Model: DL-6828



Mechanical keys

- |                 |                  |                     |                    |
|-----------------|------------------|---------------------|--------------------|
| ① Screen        | ② Touch keyboard | ③ Card sensing area | ④ Doorbell         |
| ⑤ Fingerprint   | ⑥ Outside handle | ⑦ USB input         | ⑧ Key hole         |
| ⑨ Return button | ⑩ Speaker        | ⑪ Battery cover     | ⑫ Built-in battery |
| ⑬ Inside handle | ⑭ Safety Knob    |                     |                    |

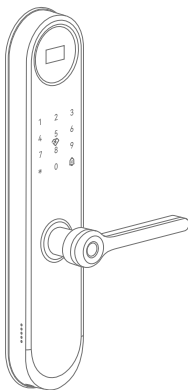
## 2. Product Parameter

| DL-6828(With screen) Product Parameters |                                                                                  |
|-----------------------------------------|----------------------------------------------------------------------------------|
| Master chip                             | STMicroelectronics (ST) G070                                                     |
| Motherboard size                        | 90X51.5(mm)                                                                      |
| Fingerprint/Password/Card capacity      | Total capacity 300 groups 9 groups of administrators, 291 groups of common users |
| Password length                         | 6-8 Digits                                                                       |
| Dummy password                          | 20 Bits                                                                          |
| Fingerprints                            | 100 Pieces                                                                       |
| Fingerprints Collector                  | Semiconductor                                                                    |
| Card type                               | M1 Card                                                                          |
| Unlock method                           | Fingerprint+Password+Swipe card+Tuya APP remote unlocking                        |
| Remote unlock                           | Tuya APP remote unlocking                                                        |
| Remote request method                   | Doorbell or 9+# key request                                                      |
| Emergency power supply                  | 5V USB emergency power supply                                                    |
| Alarm function                          | Support 5 trial and error alarms, tamper alarms, low pressure alarm function     |
| Power supply                            | 4.5V-6.0V                                                                        |
| Power type                              | 4 dry batteries                                                                  |
| Low voltage alarm voltage               | 4.8±0.2V                                                                         |
| Initialization settings                 | Long press the setting button on the back panel for 5 seconds                    |
| Normally open mode                      | After the administrator unlocks, press 5+#                                       |
| Display screen                          | 0.96 inch OLED                                                                   |
| Light board                             | Optional two-color lights, three-color lights                                    |
| Voice navigation                        | English                                                                          |

## 2. Product Parameter

| DL-6828(With screen) Product Parameters  |                                  |
|------------------------------------------|----------------------------------|
| Local unlock record query                | Support 500 records              |
| Trumpet                                  | 8Ω/1W                            |
| Keyboard                                 | 12-key capacitive touch keyboard |
| Unlock response time                     | ≤ 1 second                       |
| Operating temperature                    | -25℃-70℃                         |
| Working relative humidity                | 0%-93%RH                         |
| Motherboard fingerprint module interface | 1.25 Pitch 6P+                   |
| Fingerprint comparison time              | ≤ 1 second                       |
| Fingerprint sensing time                 | ≤ 0.5 seconds                    |
| Fingerprint recognition rate             | ≤ 0.1                            |
| Fingerprint rejection rate               | ≤0.0001%                         |
| Fingerprint recognition angle            | 360 degrees                      |
| Query version number                     | Shortcut key *#00#               |
| Quiescent Current                        | ≤60uA                            |
| Dynamic current                          | ≤180mA                           |
| Anti-static interference level           | Air discharge: ±15KV             |
|                                          | Contact discharge: ±8KV          |

# 3. Function And Management Settings



## 3.1 Terminology, function key description

- 1) Administrator information: It means administrators fingerprint, password or IC card.
- 2) Unlock information: Refers to the entered fingerprint, password or IC card information ( Including administrators and ordinary users).
- 3) "\*" key: Clear key/Back key/Exit key.
- 4) "#" key: Confirm key.
- 5) Administrator mode: Press "\*" "#" to enter administrator menu.

## 3.2 Initial state (Factory state)

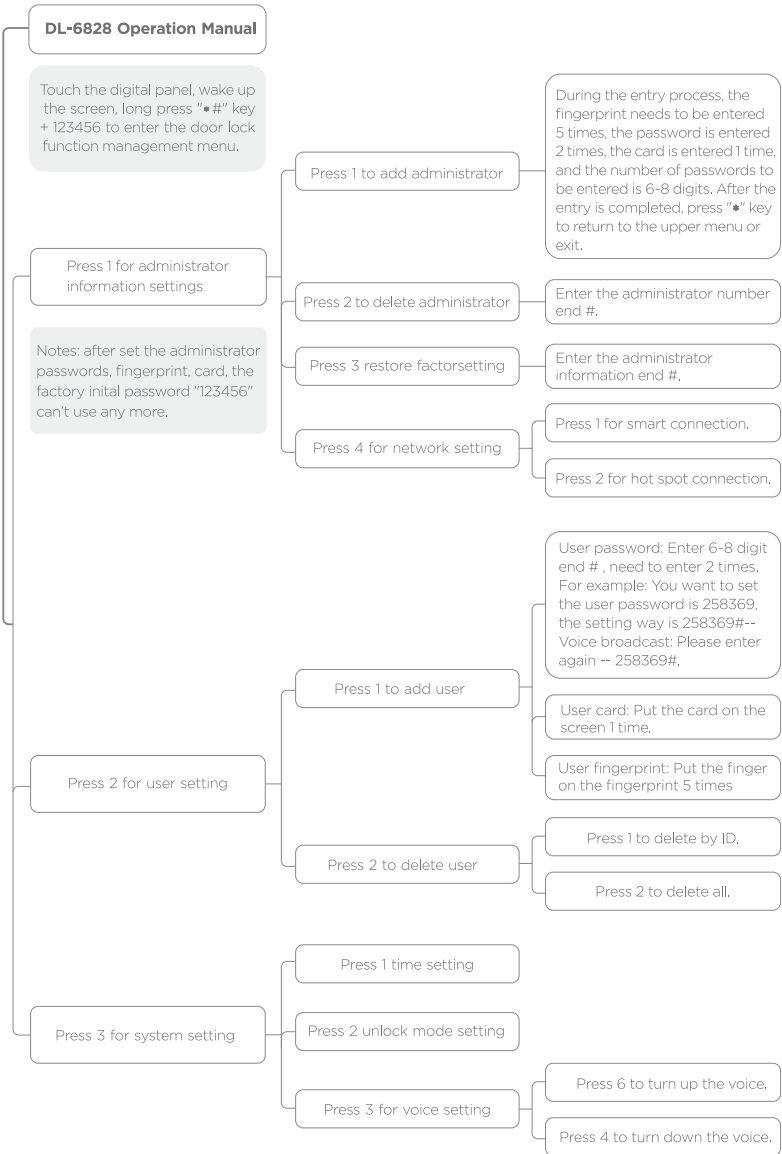
- 1) In the factory state, any fingerprint or any card or enter the factory password "123456#" to unlock the door.
- 2) After the administrator information is entered, the fingerprint, card or password that has not been entered cannot be unlocked.

## 3.3 How to enter the management setting mode

In the initial state, touch the digital panel, light the screen, long press "\*"#" key + 123456 to enter the door lock function management menu, ( Administrator management the initial password is "123456" ). Voice broadcast: 1. Administrator settings, 2. Ordinary user settings, 3. System settings.

# 3. Function And Management Settings

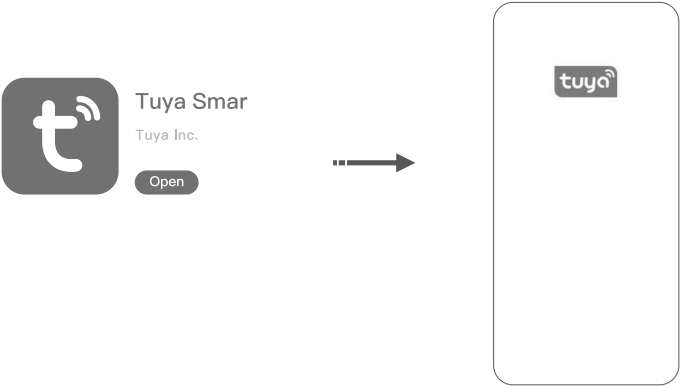
## 3.4 Management settings menu



# 4. Mobile App (TuYa Wi-Fi) Operation Instructions

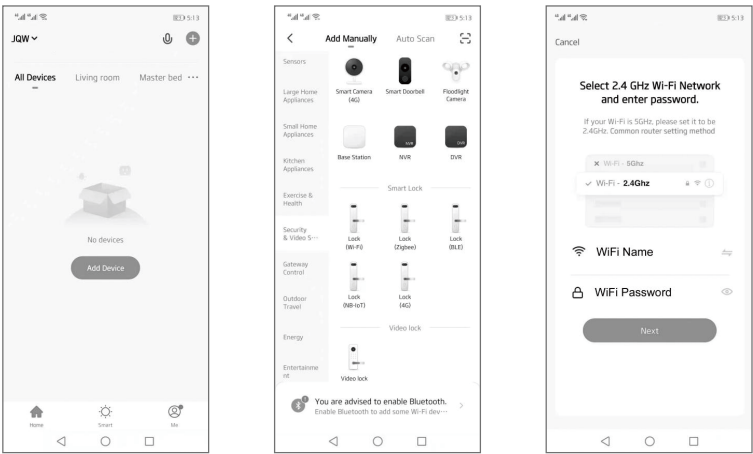
## 4.1 Down load TUYA APP

- 1) Please make sure you already register the administrator information on the lock.
- 2) Down load TUYA APP on mobile phone, register account on TUYA APP.



## 4.2 Net connecting

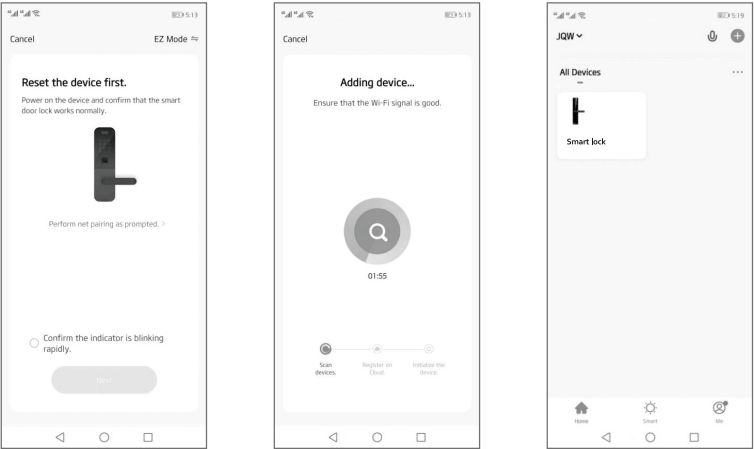
- 1) Press "\*"#" on the lock to enter system setting with administrator authorization.
- 2) Following the voice plays, press 3 to enter the net pairing, then press 1 for smart pairing, press 2 for hot spot pairing.
- 3) Log in the TUYA using the registered account then show "Add Device" and select "camera/lock" then choose "lock wifi", enter Wifi name and password, press "Next" to enable net pairing between locks and the App.



## 4. Mobile App (TuYa Wi-Fi) Operation Instructions

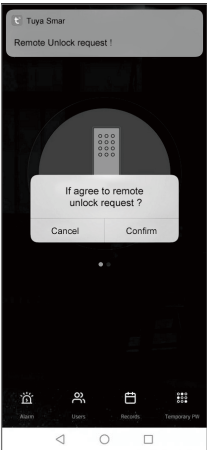
### 4.2 Net pairing

- 4) Click "confirm the indicator is blinking rapidly" and press "Next". It takes a little time to distribute the network, please be patient. Once the net pairing succeed, the device (lock) will show on the App.



### 4.3 Remote unlock

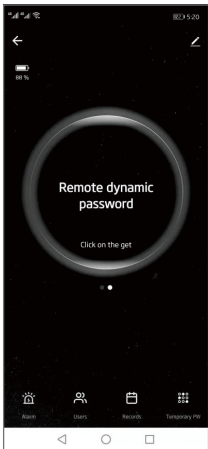
- Wake up the lock, then press "9#" on the lock, App will have Remote unlock request, press "#" on the lock to enable remote unlock request on the App wherever you are.



## 4. Mobile App (TuYa Wi-Fi) Operation Instructions

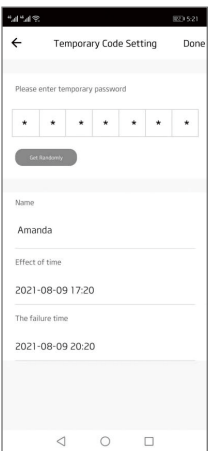
### 4.4 Remote dynamic password

Press "Remote dynamic password" to generate a 8 digits password and sharing with your friend or family member no matter wherever you are.



### 4.5 Temporary password

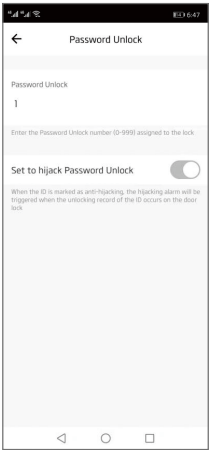
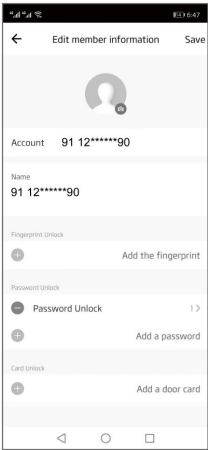
Press "Temporary password" on App to generate 7 digits passwords which is valid in a certain time, minutes, hour or months etc.



## 4. Mobile App (TuYa Wi-Fi) Operation Instructions

### 4.6 Hijack alarm

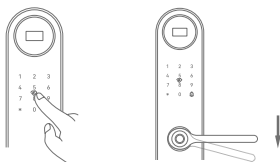
Enter number of registered card, password and fingerprint information of the lock in the "member management", you can mark some user information on the APP as anti-hijacking ID. The hijacking alarm will be triggered when the unlocking record of such anti-hijacking ID occurs on the door lock.



# 5. Daily Operations

## 5.1 In common mode

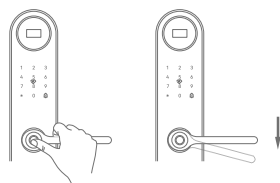
### 1. Password unlock



Tap the panel, enter the registered password, press “#” key to confirm, password verification success then voice plays “unlock”, please press handle to unlock.

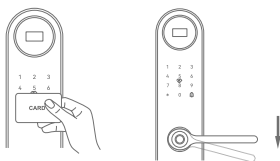
**Note** Anti-peeping function: when you log in with a password, enter the password as follows: XXXX password XXX, you can add some irrelevant numbers before and after the password, and then press # to confirm, the password must be included in the entered content.

### 2. Fingerprint unlock



Press the registered fingerprint in the fingerprint collection area. After the fingerprint verification is successful, the voice prompt “Unlock” is heard. Press the handle to unlock it.

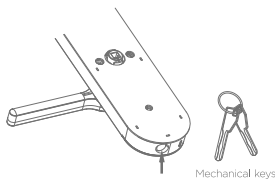
### 3. Card unlock



Put the registered card on the card area of key board, card verification success then voice plays “unlock”, please press handle to unlock.

## 5.2 Emergency opening method

### 1. Mechanical key unlock



In case of an emergency, forgot the password, the battery runs out and if the system is not working properly, the spare mechanical key can be used to open the lock.

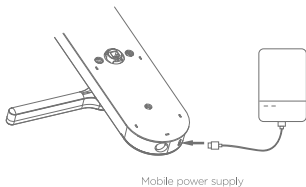
Input the key on the key hole (bottom at the end of outside panel) then turn the key, press the handle to unlock.

**Note** During turning key, can't press the handle.

# 5. Daily Operations

## 5.2 Emergency opening method

### 2. USB emergency powers supply



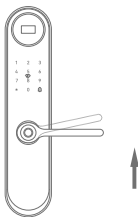
When the battery is exhausted and there is no key, you can connect an external power bank with C-type USB (bottom at the end of outside panel) for emergency power supply, and unlock the door as the normal operation steps.

When the voltage is lower than 4.8V, the low voltage alarm will be prompted every time you open the lock, please replace the battery in time.

**Note** Do not mix different models, new and old batteries.

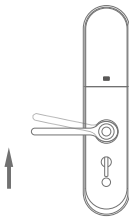
## 5.3 Door Lock

### 1. Outside lock



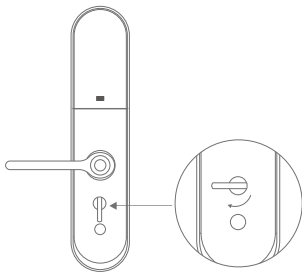
Up-lifting the handle to lock the door from outside.

### 2. Inside lock



Up-lifting the handle to lock the door from inside.

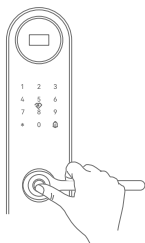
### 3. Door inside safety lock



Turn the safety knob to the left to lock. At this point, it cannot be opened properly from the outside and needs to be opened inside.

# 5. Daily Operations

## 5.4 Trial and error locking

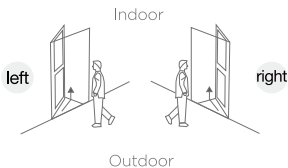


When the number of errors of fingerprints, passwords, and card within 5 minutes is  $\geq 3$  consecutively, there is audible and visual alarm. When the number of errors within 5 minutes is  $\geq 5$  consecutively, the system freezes for 90 seconds, within 90 seconds, any fingerprints, any passwords and any cards can not be identified.

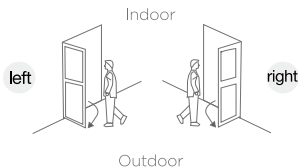
Each time there is no operation for more than 10 seconds, the system will automatically exit.

# 6. Door opening direction recognition

A. Inside the door



B. Open the door



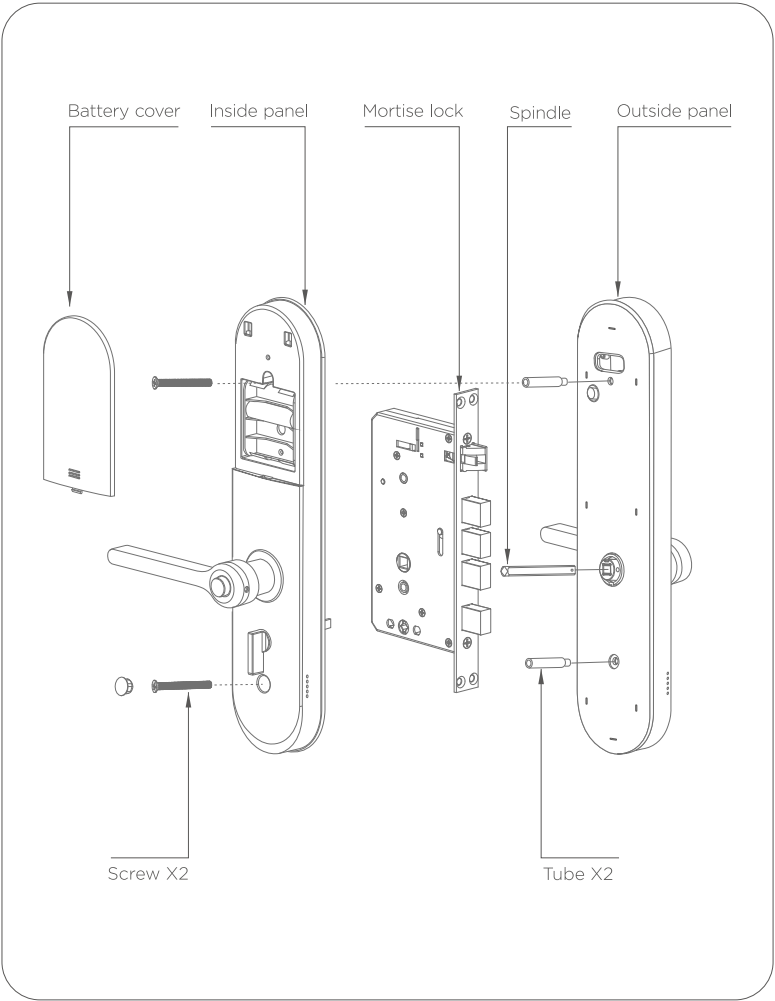
**Note** Before installing the door lock, please confirm the opening direction of the door.

# 7. Scope of application

Scope of application: residences, villas, apartments, office buildings, etc.  
Suitable door thickness: the minimum door thickness is 45-70mm.

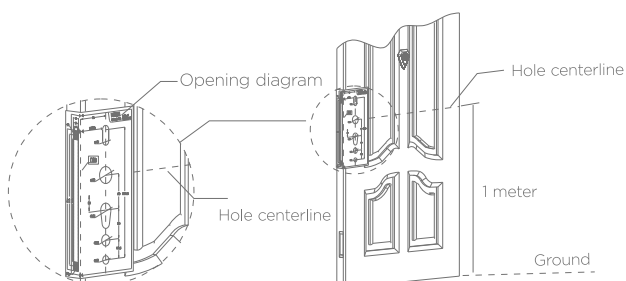
**Note** Please keep the keys safe. It is recommended to place a key in a safe place outside in case of emergency.

# 8. Explosion Diagram

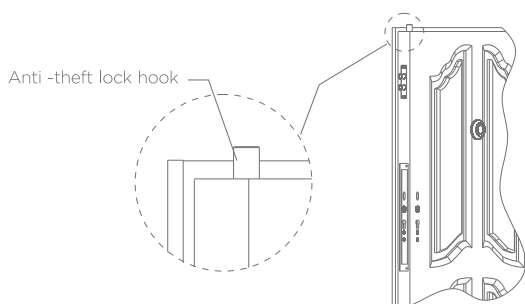


## 9. Installation Procedure

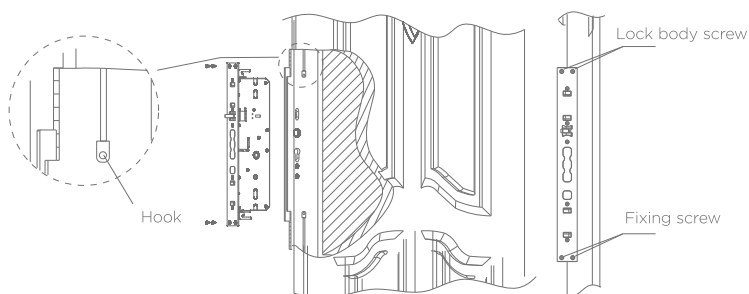
- 1) Draw a center line of the opening at 1 meter from the ground inside and outside the door, drill holes according to the size of the hole drawing.



- 2) First check whether there are hooks on the door. If there are hooks upper and down, you need to open the lock and wrap it with tape or magnet to prevent it from falling.



- 3) Install the lock body on the door and hook the lock body to the lock and tighten it with four screws.

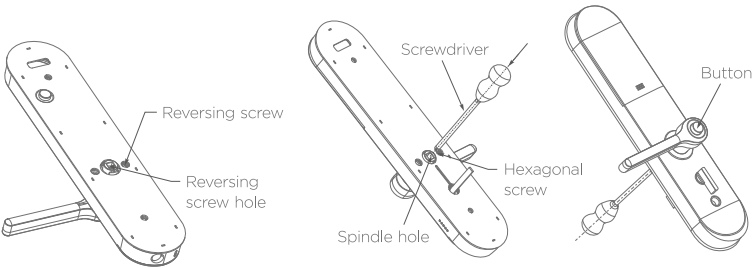


# 9. Installation Procedure

4) Adjust the handle direction according to the door opening direction: If the initial installation direction is inconsistent with the actual one, please refer to the below operation guide:

Outside panel: Take out the screw with a hexagonal screwdriver, turn the handle to the desired other side, and then re-install the removed screw and tighten it.(Figure 1)

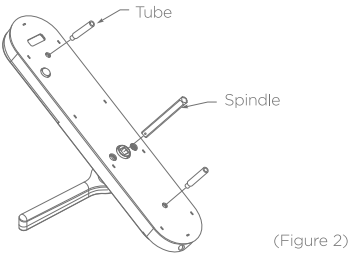
Inside panel: Use a hexagonal screwdriver to take out the screw, use the screwdriver to extend into spindle hole, push the button out of the rotating handle to the side of the desired direction, and then re-install the removed screw and tighten it.(Figure 1-2)



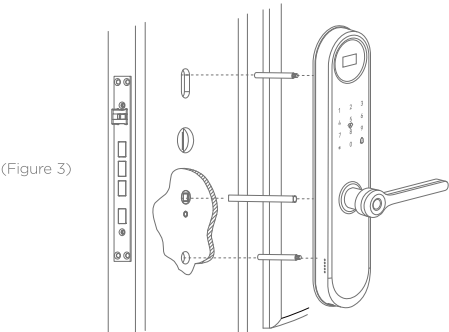
Outside panel (Figure 1)

Inside panel (Figure 1-2)

5) Install the stud: First install two connecting wire cylinders on the front panel, then align the convex end of the square steel with the circular hole on the clutch seat and install the upper steel. (See Figure 2)

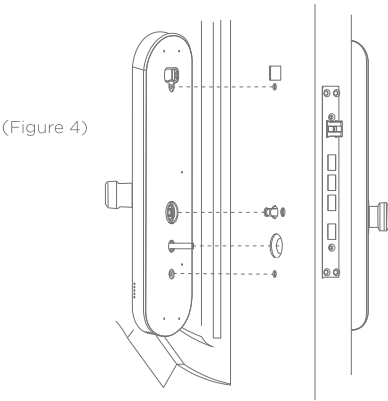


6) Pass the connecting wire from the wire hole on the door to the indoor direction, align the square steel with the square hole on the lock body and fasten the front panel to the door. (See Figure 3)



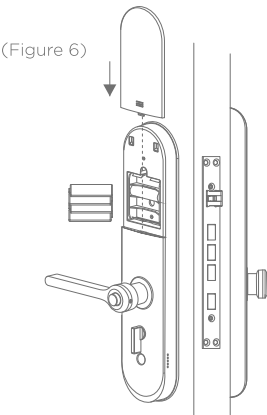
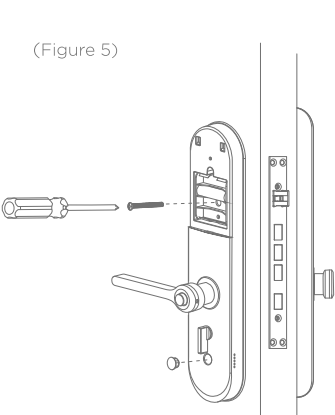
# 9. Installation Procedure

7) Insert the front panel cable into the rear panel cable, then align the anti-lock tab with the anti-lock square hole of the mortise lock, and fasten the rear panel to the door. (See Figure 4)



8) Fix the rear panel with two M5 screws, 1on the top of the battery box, 1on the bottom of the anti-lock knob. (See Figure 5)

9) Insert 4 AA batteries and cover the bottom with a hole plug 1 screw hole. Close the battery cover whether the key, password, fingerprint, and proximity card can open the door normally. (See Figure 6)



# 10. Daily Maintenance

---

- 1) Don't let the lock surface come into contact with corrosive substances, so as not to damage the protective layer of the lock surface and affect the aesthetics of the lock surface.
- 2) The handle is the key part of the door lock, and its flexibility directly affects the usability of the door lock. Don't hang objects on the handle.
- 3) If the door is deformed, it will cause too much friction when the combination lock tongue enters the door frame and cannot be fully extended. At this time, the position of the door strike plate should be adjusted.
- 4) After the fingerprint collection window is used for a long time, the surface will be stained with dirt or the surface will be wet, please wipe it gently with a dry soft cloth.
- 5) After the low battery alarm, please replace the battery immediately to ensure the normal use of the door lock. When replacing the battery, please pay attention to the positive and negative poles of the battery.
- 6) Please keep the keys properly. It is recommended to keep one key in a safe place outside in case of emergency.
- 7) Don't scratch the fingerprint collection window and touch screen with hard, sharp objects.
- 8) Every time the fingerprint is collected, the fingerprint part of the finger should be pasted flat to the fingerprint identification area.
- 9) If the lock does not turn flexibly or cannot maintain the correct position, Professionals should be asked to add mechanical lubricating oil to the lock body part and the clutch rotating part.
- 10) Always keep the rotating parts of the lock body with lubricant to keep the rotation smooth and prolong the service life.
- 11) It is recommended to check once every six months or a year, and at the same time check whether the tightening screws are loose to ensure the tightening.
- 12) In process of using the lock bladder (core), regularly (half a year or a year) or when the key is not smoothly inserted, a little graphite powder or lead powder can be injected into the lock core slot to ensure the smooth insertion and removal of the key. But do not add any other oil to do lubrication, in order to avoid grease sticking to the spring, resulting in the lock core can not rotate and can not be opened.