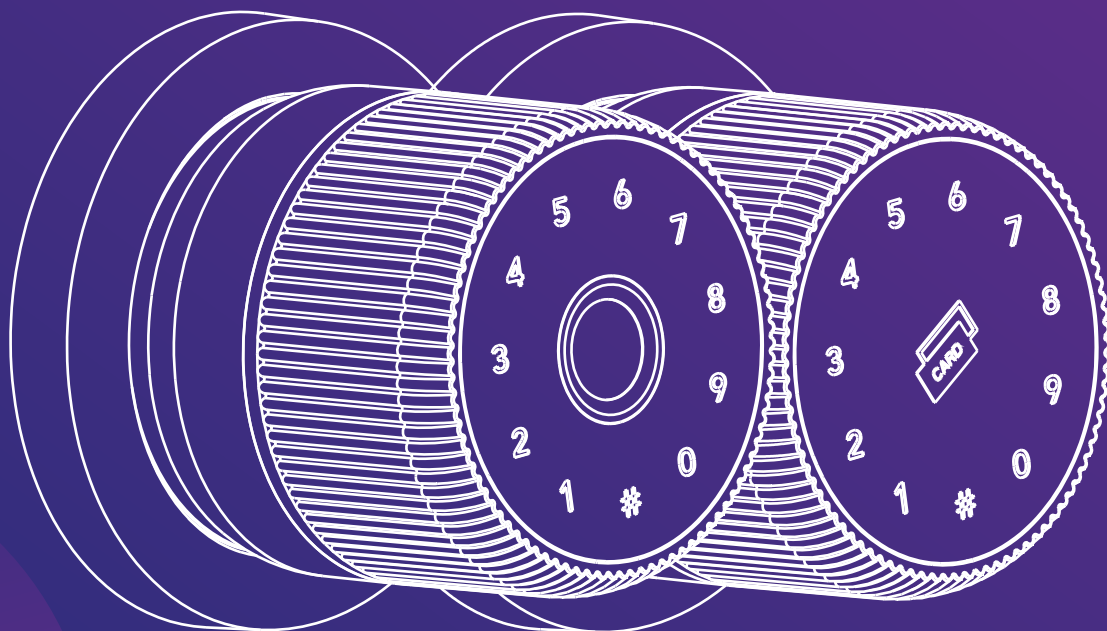


FL900

Smart Door Lock with App

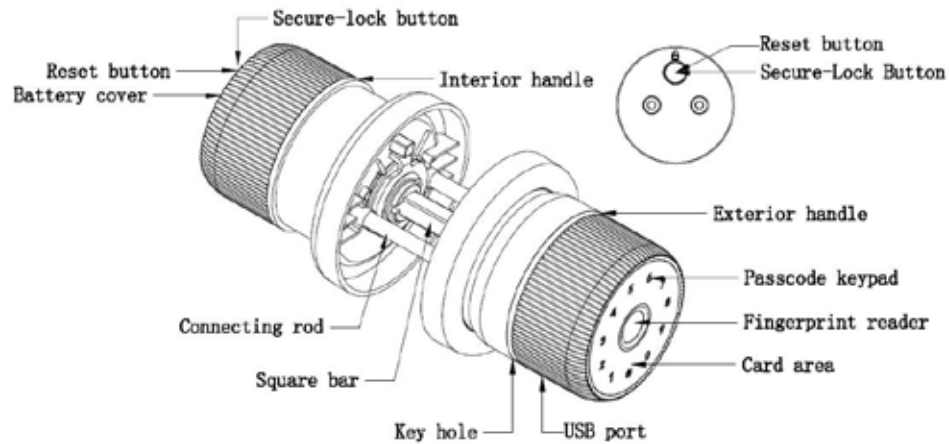


Contents

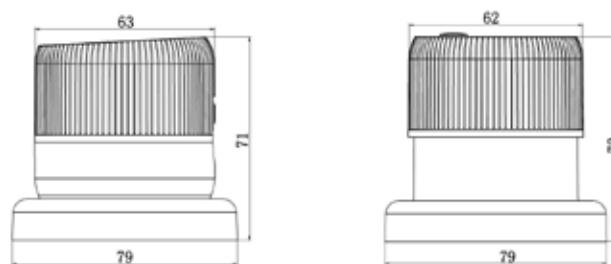
Product Descriptions-----	1
Features -----	2
Important Points -----	3
App Installation and Setting -----	4~13
Settings by Keypad -----	14
Unlock/Lock -----	15
Installation and Adjustment -----	16~21
Maintenance and After-sale Service -----	22
Trouble shooting -----	23
Technical Parameter -----	24

Product Descriptions

Product component:



Dimension:



Features

- Inclined panel direction for better view and convenient operation;
- Replace knobset lock easily without need of adding new holes;
- Multiple unlock modes: fingerprint/passcode/M1 card/app;
- Secure-locking by button from inside enhances privacy and security;
- Passage mode and private mode convertible;
- Low voltage alarm;
(When the lock batteries are low, user put the finger on the reader or enter passcode or scan the card or click the icon on the phone to unlock the door, the lock voice prompt “Low battery , please change the batteries” and the keyboard back lights quickly blinks 1 second.)
- Wrong passcode/illegal card alarm;
(Any wrong passcode or illegal cards attempt 5 times, the keypad will be locked 5 minutes)
- Anti-peep passcode;
(Any numbers can be added before or after the correct passcode to avoid the real code exposed in front of the strangers)
- Unlock records can be queried;
- Emergency power back up by microUSB;
- Mechanical key override.

Important Points

Change Language

Chinese language: ## 39 # → administrator passcode → # → 1 → #

English language: ## 39 # → administrator passcode → # → 2 → #

Note: administrator passcode refer to Page 14

Initialize the Lock(Restore Factory Setting Status)

Within 10 seconds after loading the batteries into the battery holder press the button (on the battery cover) for 6 seconds until voice prompts “Please input initialization passcode”, after input “000#”, the lock restored to the factory setting status. All the fingerprints, passcodes, RFID cards are deleted (the Bluetooth administrator is also deleted).

Note: Initialization passcode: 000#

Indicator Light Prompt

Unlock: Digital numbers flash clockwise

Lock: Digital numbers flash anticlockwise

Wrong operations: Digital numbers “1.3.5.7. 9” flash.

App Operation Guide

App Download Instructions

- (1). Scan the QR code rightside, you can use Android or IOS to download the APP.
- (2). Android version software can be downloaded in the Google Play store.
- (3). IOS version of the software can be downloaded in the iPhone App Store.
- (4).The app REGISTER CODE must be kept in mind and taken note for future use!!!



Add Bluetooth Administrator

(Note: Keep your phone near the lock and activate the lock keypad and make the keypad backlight on during the process)

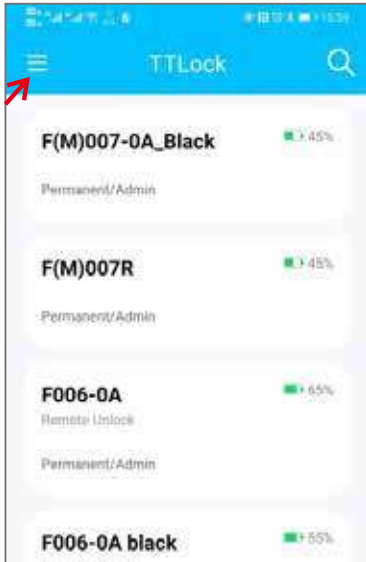
Make sure the door lock administrator is not added; keep your phone near the lock, and touch the lock screen to make the keypad backlight on. After hearing the voice prompt “Please add bluetooth administrator”, open the mobile phone bluetooth and begin the door lock adding process on the app to obtain bluetooth administrator privileges. After the operation is successful, you will hear the voice prompt. “Administrator has been successfully added.”

Delete Bluetooth Administrator from the App

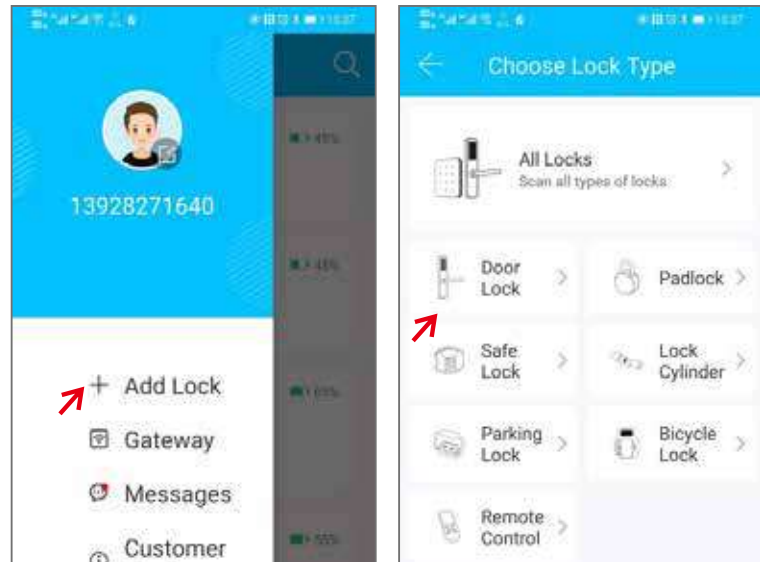
The user is running the app near the door lock and select the lock which need to be deleted in the app, then click the Setting button on the homepage and then click “Delete”, after input the REGISTERED CODE, the lock is deleted from the app.

The Adding steps as below:

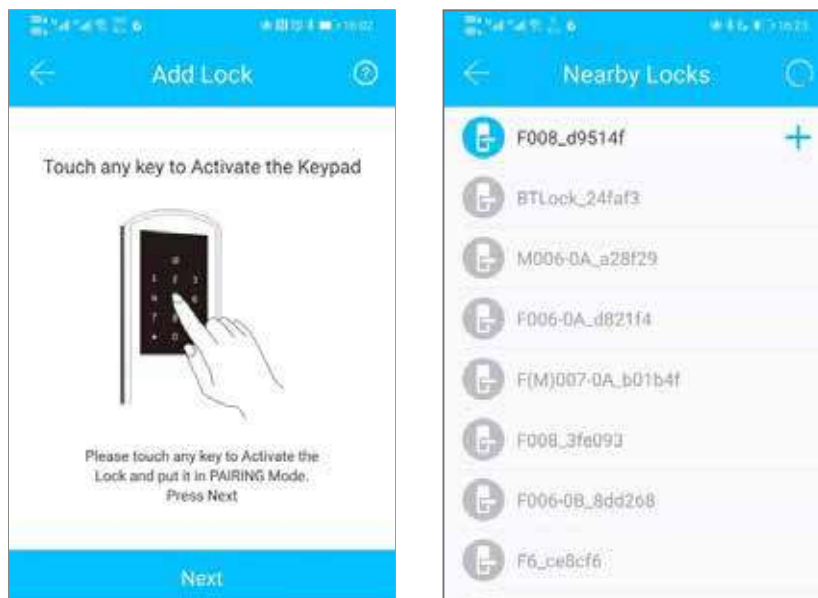
a. Click the symbol “☰” on the upper left corner



b. Select and click the door lock type

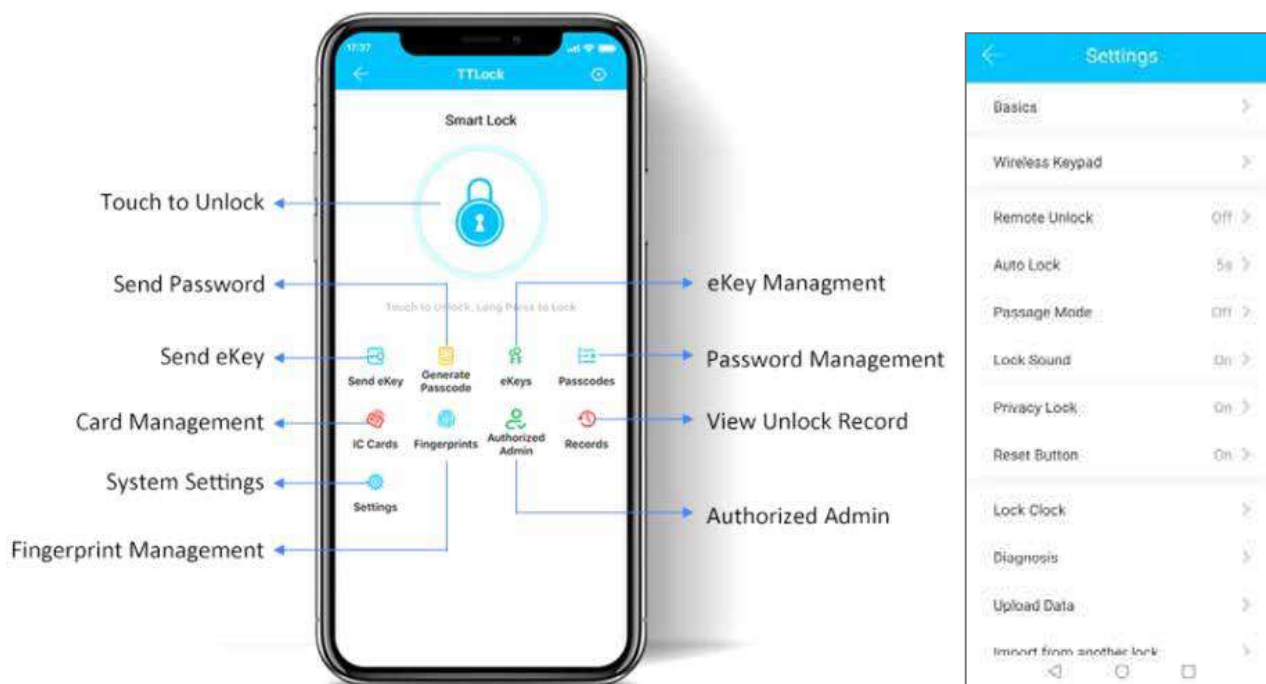


c. Click “Next” and click the lock and rename it.



After the administrator successfully adds the lock, he will have the highest management right of the door lock. The administrator can (or authorize to) add/delete fingerprint /passcode/card, can authorize the key (send passcode); can query the unlock records of each key and he is the only one who can unlock even the door in secure-lock mode.

App Main Basic Functions

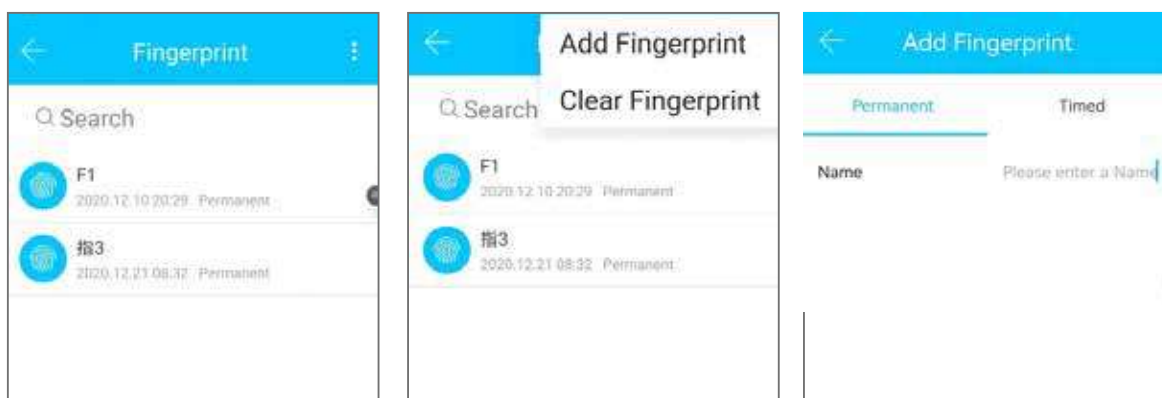


Setting (Adding or Deleting) as below:

Add or Delete the Users (Fingerprints/Passcodes/Cards) in the APP

Fingerprint Management

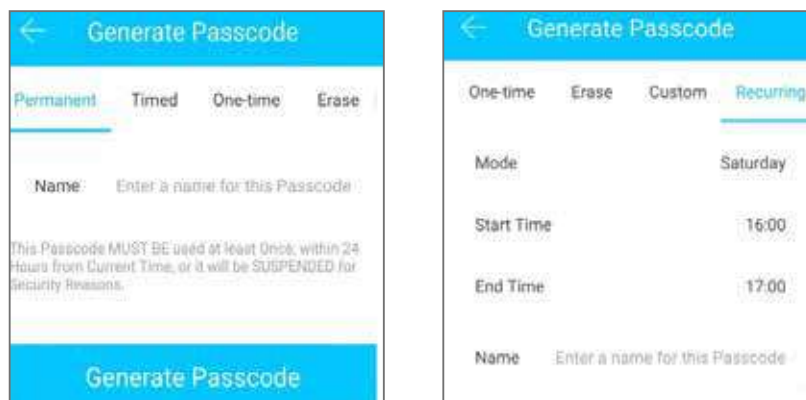

- Click "Fingerprint" and click the symbol "⋮" on the upper right corner to add a new fingerprint;
- Input the fingerprint name and duration;
- Put your finger on the reader (requires 4 times)



Note: The administrator can authorize others to add fingerprints and set a validity period. he can also choose time-limited or permanent fingerprint permissions. Administrator can manage all fingerprints that he added, including deleting fingerprints, modifying fingerprints and viewing fingerprint unlock records.

Passcode Management

All generated passcodes can be viewed and managed in the passcode management module. This includes the rights of changing the passcode, deleting the passcode and unlocking by passcode. Passcodes are classified as Permanent, Time-limited, One-time, Erase, Custom and Recurring.

- Click “Passcodes” and click the symbol “

Permanent passcode: must be used within 24 hours after it is generated, otherwise it will automatically expire. Unlimited time for user to access.

Time(-limited)d passcode: will have an expiration date, which is a minimum of one hour and a maximum of 3 years. Limited time access

One-time passcode: can only be used for one time, and which is available for 6 hours.

Erase passcode: is used to delete all the passcodes the lock has set and which is available for 24 hours.

Recurring passcode can be reused within a specified time period, including daily type, weekday type, weekend type, etc.

Customized passcode: User can set any passcodes and validity period he wants.

Note: The administrator can manage all passcodes that were sent,, including deleting passcode, modifying validity period, disable passcode and viewing passcode unlock records.

Card Management

The card can be set either permanent or time-limited.

Permanent card: can be valid permanently after it is created. Unlimited time for user to access.

Timed card: will have an expiration date, which have a start and end time. Limited time access

Add card: Click “Cards” and click the symbol “

Gateway management


The smart lock is directly connected via Bluetooth, that is why it is not attacked by the network. The gateway is a bridge between smart locks and home WIFI networks. Through the gateway, the user can remotely view and calibrate the lock clock, read the unlock records. Meanwhile it can remotely delete and modify the passcode.



Remote unlocking (by adding Gateway)

- Connect your phone to the WIFI network which the gateway is connected to;
- Click the + button in the upper right corner and input the WIFI passcode and gateway name.
Click OK and input the passcode for authentication.
- Press and hold the setting button on the gateway for 5 seconds. The green light indicate that the gateway has entered the add-on mode.

Passage mode

The lock can be set in passage mode if required. In the app “Setting” page, click “Passage mode” and the icon will be shown as “”, the lock will be in passage mode.

Silent mode (Lock sound)

Turn on or turn off the lock sound in the app as you like, you can set silent mode for quiet entries. Click ‘Setting” and you will find “Lock sound” and click it to “turn off” it, The lock will be silent for any operation.

Authorized administrator

Only the administrator can authorize the key. When the authorization is successful, the authorized key is consistent with the administrator’s interface. He can send keys to others, send passcode, and more. However, the authorized administrator can no longer authorize others.

Key management


After the administrator adds to the lock successfully, he owns the highest administrative rights to the lock, he can send keys to others. Meanwhile he can increase the key management that is about expire. He can delete ekey, reset ekey, send or adjust the ekey

Unlock records

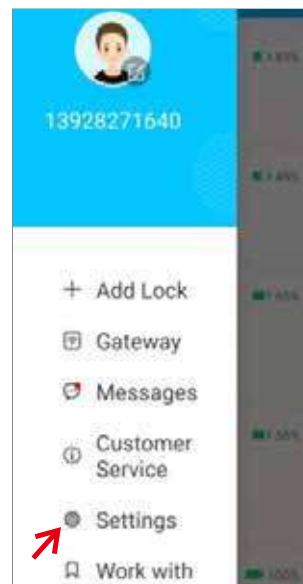
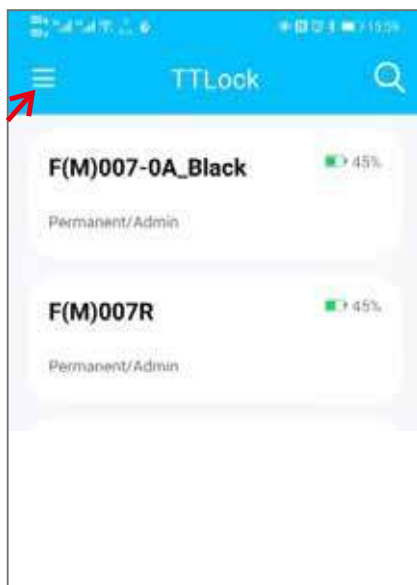
The unlock records of ekey can be queried (by the administrator) to know who and when the door was opened.

Touch to unlock

You can set the function in the app and unlock by touching the keypad. The setting as below:

- Click the symbol “” on the upper left corner
- Select and click the “Settings” to find “Touch to unlock” to click the symbol

.



Compatible with Amazon Alexa and Google Home



Settings by Keypad

Though we recommend using the app, you can also choose to use the keypad to set up the lock users, etc.

1. Set /Change Administrator Passcode (default 123456)

Format: ##12# → original administrator passcode → # → new administrator passcode → # → same new administrator passcode → #

Note : Administrator passcode must be kept in mind!!!

2. Add User Passcode/Fingerprint/Card

A. Add User Passcode

Format: ##80# → administrator passcode → # → new passcode → # → same new passcode → #

B. Add User Card

Format: ##80# → administrator passcode → # → scan card

C. Add User Fingerprint

Format: ##80# → administrator passcode → # → register fingerprint

3. Change User Passcode

Format: ##10# → original passcode → # → new passcode → # → same new passcode → #

4. Delete All User Cards

Format: ##69# → administrator passcode → #

5. Delete All User Fingerprints

Format: ##70# → administrator passcode → #

6. Delete All User Passcodes

Format: ##71# → administrator passcode → #

Unlock/Lock

Unlock mode: Phone app; Fingerprint; Passcode; Card.

1.Unlock by Phone app; Fingerprint; Passcode; Card

- Click the icon on your phone, turn the handle to unlock;
- Open "Touch to unlock" mode in the "Settings" in your app. Make your app in activated status and touch the keypad to unlock.
- Put your finger on the reader, turn the handle to unlock;
- Activate the lock first and enter your passcode followed by #, turn the handle to unlock;
- Scan your card on the lock, turn the handle to unlock

2. Lock

- Long press "#" button to lock;
- Long press the icon on your phone to lock;
- If auto lock is set in the app, the lock will be automatically locked after reset time.

3.Secure-lock by Button from Inside

Long press the BUTTON on the battery cover until a long beep, the lock is in secure locking status, all the users can not get in from outside except the app administrator. (Cancel: short press the button)

4.Emergency Unlock

In case the batteries are exhausted, just insert a USB charger into the USB port (which is under the front handle) to charge and turn the handle to unlock.

5.Mechanical Key

The lock comes with 2 mechanical keys which are for emergency use. In case the lock has any malfunctions, you can use the mechanical key to unlock the door.

Insert the key into the keyhole (which is under the exterior panel) and turn the key 45 degree, then turn the handle to unlock.

Keep the keys in safety for emergency use.

Installation & Adjustment

Installation Condition

Door flat surface $\geq 115\text{mm}$

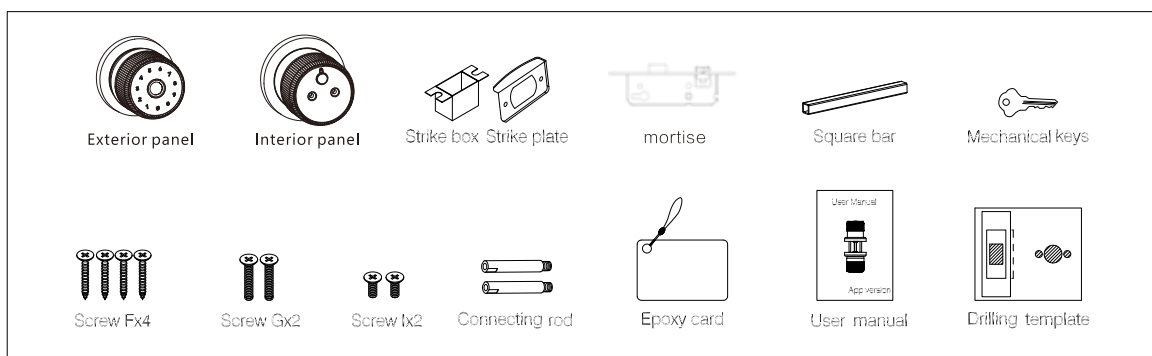
Door thickness: 35 ~ 65mm

Door thickness	Square bar (L)	Connecting rod	Fixing screws
35mm ~ 65mm	95mm	M5 x40mm	M4 x 30mm
30 mm ~ 35mm	85mm	M5 x 30mm	M4 x 20mm

Before install the lock on the door, make sure the door thickness first and use the correct length of square bar/connecting rods and fixing screws accordingly.

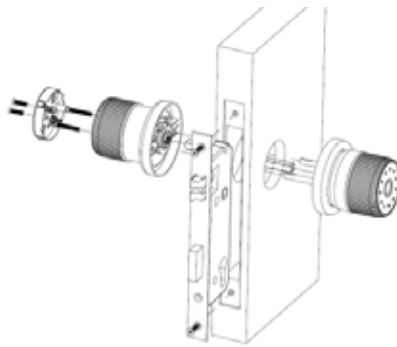
Preparing for Installation

1. Checking the delivery set



2. Check the Door

a. Door thickness range: $1\frac{3}{8}"$ (35mm) ~ $2\frac{5}{8}"$ (65mm);



$1\frac{3}{8}"$ (35mm) ~ $2\frac{5}{8}"$ (65mm)

b. Lock mounting hole diameter range: $1\frac{7}{8}"$ (45mm) ~ $2\frac{1}{4}"$ (55mm)

(Large holes in this range will make the installation process easier)

c. Distance from the center of the lock mounting hole to the edge of the door (mortise hole side):

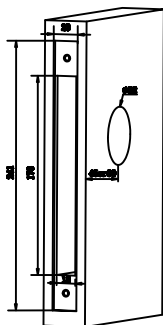
$1\frac{7}{8}"$ (45mm) ~ $2\frac{3}{4}"$ (70mm)

If the parameter of your door does not meet the above requirements, it does not necessarily mean it can not be installed. Please call us for further advice.

If your door does not have a ready-made lock mounting hole, you need to complete the additional hole-drilling work yourself. The product box contains a cardboard template to help you position the holes correctly.

d. Installation tools

A M4 Philips screwdriver if mounting holes are ready

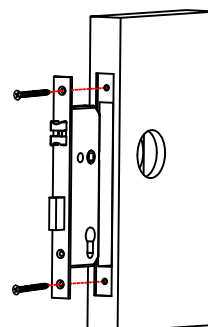


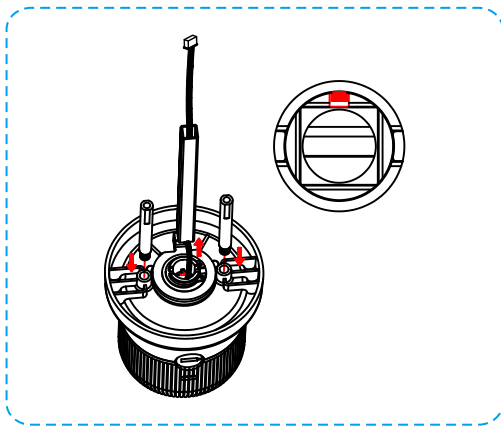
Step 1:

As per the 1:1 template drill a round hole on the door for the exterior panel and the interior panel and a rectangle hole on the doorframe for the mortise;

Step 2:

Insert the mortise into the rectangle hole on the door frame and fix it with 2 screws.



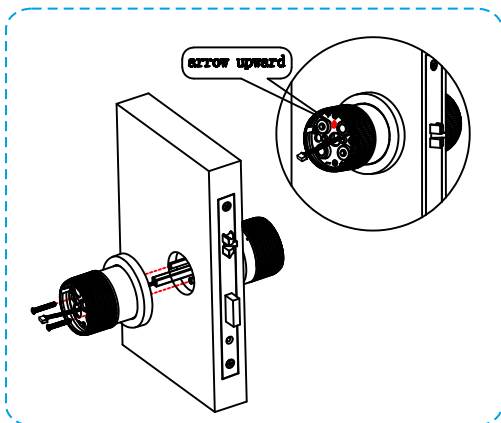
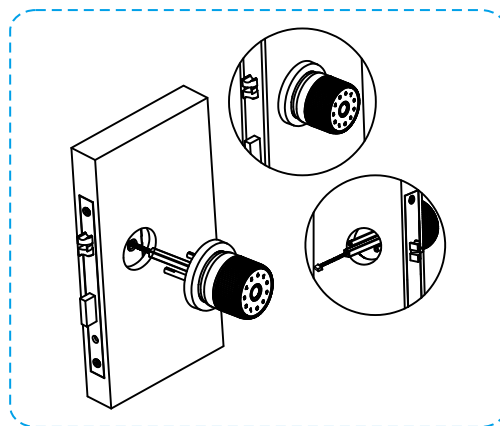


Step 3:

Tighten the 2 connecting rods in the exterior panel and route the cable wire through the square bar and fix the bar in the exterior panel.

Step 4:

Insert the square bar with the wire and the connecting rods of the exterior panel into the holes of the mortise respectively to the inside.

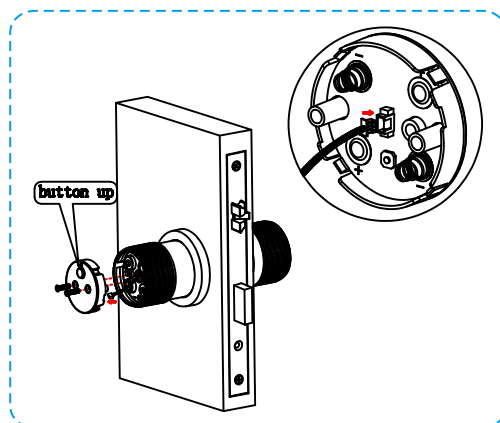


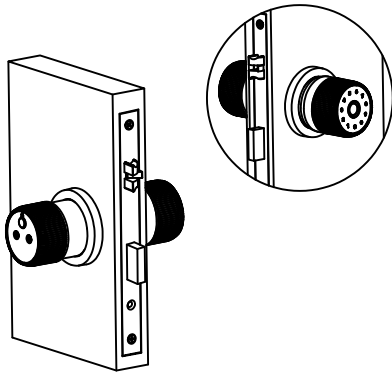
Step 5:

Remove the battery cover and pass the wire plug out of the hole of the interior panel and fasten the exterior panel and interior panel on the door with 2 screws.

Step 6:

Insert 4 pcs alkaline batteries into the battery holder and insert the wire plug into the socket of the PCB.
(Note: make sure the batteries are to be inserted with correct polarity).





Step 7:

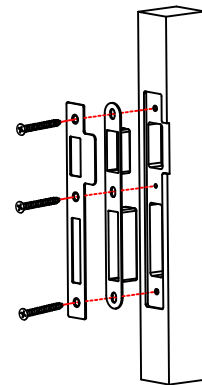
Fix the battery cover (with the button on the upper position) on the interior panel with 2 screws.

Step 8:

According to the actual dimension of the strike box, drill a rectangle hole on the door frame, then insert the strike box and cover the strike plate on it and fix them with 2 screws.

Check after installation:

Turn the 2 handles to check whether the latch and deadbolt protrude and retract smoothly; insert the key to turn it 45 degree and check whether the latch and deadbolt can be in or out smoothly by turning the exterior handle; and touch the screen to check whether the screen can be activated on; turn the handle to check whether the latch and the deadbolt can insert into the strike box on the door frame properly.



Maintenance

- The lock surface is prohibited contact with the corrosive substances to avoid to damage the prevention layer of the lock and affect the products life;
- Kindly recommend to install the lock after room decoration. That will avoid the lock surface be damaged;
- Always keep the rotating part with lubricant will help the lock working smoothly and extend the service life. We suggest to inspect the lock once a year to ensure the screws fixed well.
- To avoid any inconvenience caused by battery consumption, suggest to replace new batteries as soon as the low voltage alarm happens.
- In case the cylinder can not working smoothly, we suggest to add few of graphite powder(pencil powder) as the lubricant into the cylinder regularly(once per year).
- If you are going for long trip or the lock will not be used for long term, please carry the keys along with you , and remove the batteries to ensure the service life of the lock.

After-sale Service

Warranty Principles

We offer lifelong maintenance for the products manufactured by our company. The free warranty period is within one year from the date of purchase. When expired of warranty, we will charge the additional fees for the failure products.

The following situations do not apply to the clause of free maintenance service:

- Damage caused by anthropoid factor including the abnormal working environment, incorrect operation mode or low quality battery;

- b.Damage caused by anthropoid factor including the abnormal working environment, incorrect operation mode or low quality battery;
- c.Disassembly, repair or any change for the lock without authorization;
- d.Damage caused by force majeure.

Trouble Shooting

Q:After the door lock is installed, there is no response or abnormal behaviors

A: Check the battery installation direction and make sure the battery has sufficient power.

Q:What prompt will receive when the battery is low?

A: Alarm as “ battery is low, please replace the battery” will be heard when unlock the door

Q: What should I do if the battery is totally dead?

A:

- ① There is a microUSB port at the bottom of the exterior handle. You can use your power bank to charge the lock.
- ② You can also use your backup metal key to insert into the key hole (at the bottom of the exterior handle) and turn the key 45 degree and then turn the handle to open the door.

Q: What can I do if I lost my phone?

A: In this case, we recommend you perform a factory reset and set a new administrator

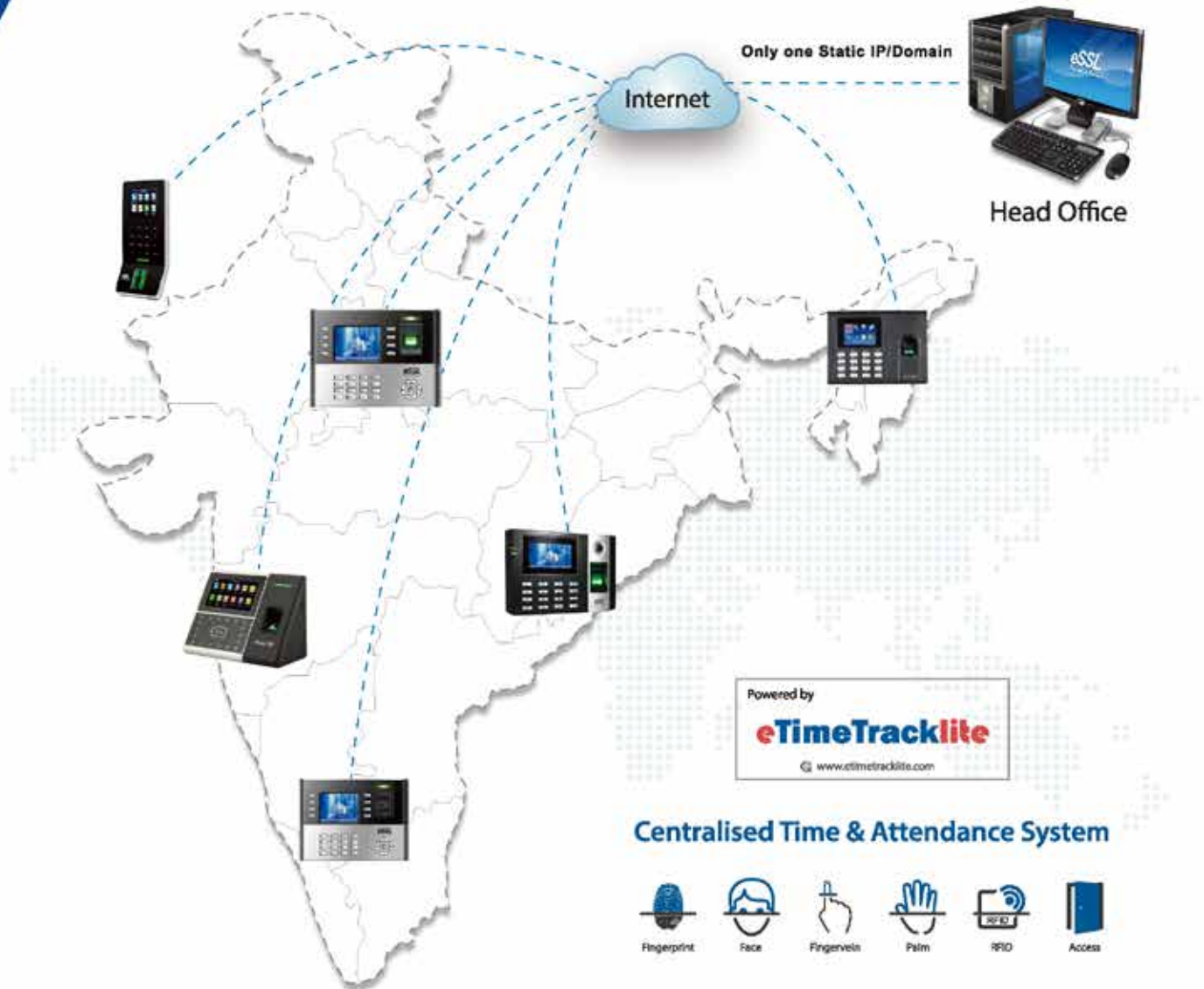
Q: Why the valid fingerprint/passcode /card (of the User) can not open?

A: the lock is in secure-lock mode.

Technical Parameter

Material	Zinc alloy	
Power supply	4.5 ~ 9.0V (4 pcs AA alkaline batteries)	
Blue tooth standard	4.1 BLE	
Support phone system	Android 4.3/IOS 7.0 above	
Alarm voltage	4.8V ±0.2V	
Static current	≤65μA	
Dynamic current	≤200 mA	
Operating temperature	-20 ~ 70°C	
Operating humidity	20 ~ 93%RH	
Opening time	around 1.5 seconds	
FAR (False Acceptance Rate)	<0.001%	
FRR (False Reject Rate)	<1.0%	
Fingerprint capacity	120pcs	
Mobile phone app	no limitation	
Card (Mifare1 card) capacity	200 pcs	
Password capacity	APP send password	150 pcs
	Custom password	150 pcs

Manage Time & Attendance for all your Branches from Head Office



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3. eSSL do not support end user directly, if they want support charges will be applicable



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