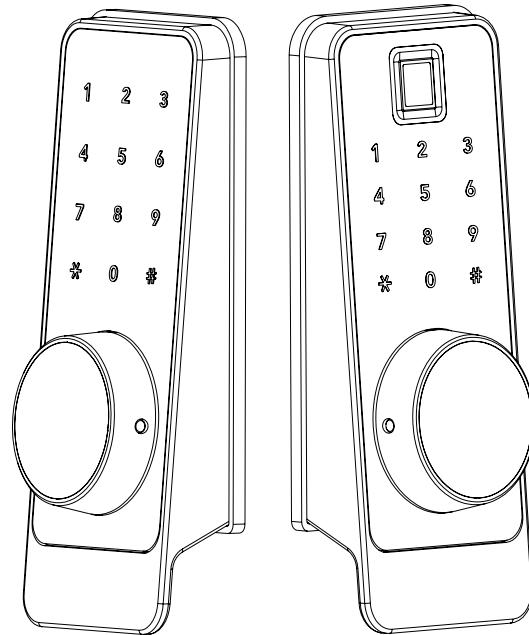


Smart Door Lock Manual



F(M)006-0A

(APP Bluetooth)

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Before using the lock,
please read the user manual carefully

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Product Introduction

1. Product Description

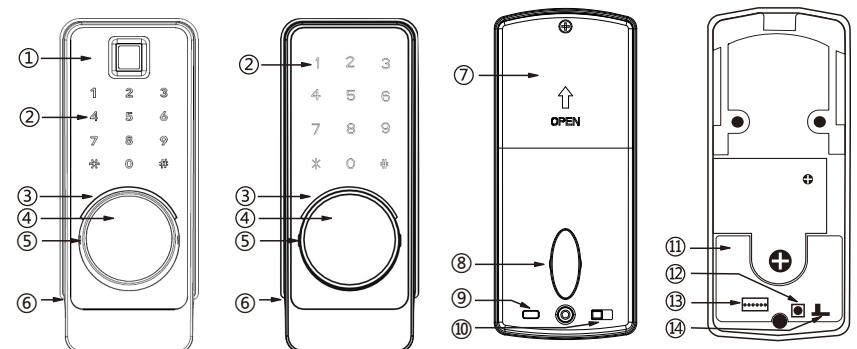
F(M)006 is a tilted-structure design with appearance patent. The lock adopts Nordic 51822 buletooth chip as the main control, supports low power consumption blue tooth(BLE4.0), manage the lock(**fingerprint**, passcode, IC card, e-key) and access through App. The lock supports firmware update, and software functions can be expanded through firmware update.

The lock is suitable for and widely used in commercial office,residential, government departments, army, banks, hospitals, etc.

The lock is for indoor(push-to-inside door)use only.

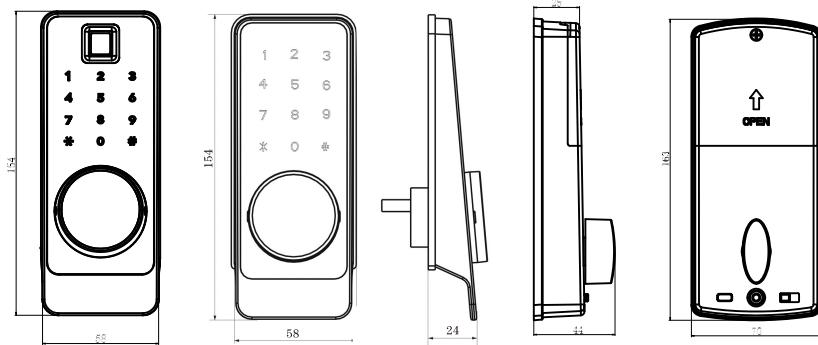
	Model	F(M)006-0A
	Dimension	154 x 58 x 24mm
	Material	Zinc alloy
	Weight	1.10kg

2. Product Structure



① Reader	⑧ Knob
② Touch keyboard	⑨ Button for locking & unlocking
③ Indicator light	⑩ Security switch
④ Cylinder cover	⑪ Rear PC board
⑤ Pin	⑫ Reset button
⑥ USB port(inside)	⑬ Socket
⑦ Battery cover	⑭ Switch for direction

3. Product Dimension



4. Product Features

- ◆ Tilted structure design for better view and convenient operation;
- ◆ Auto locking when close the door (If magnetic device is added);
- ◆ Multiple unlock modes: **Fingerprint**/passcode/Mifare1 card/phone App;
- ◆ Double locking by switch from inside secures privacy and security;
- ◆ Security passcode;
- ◆ Low voltage alarm;
- ◆ Access records can be queried for monitoring;
- ◆ Emergency power back-up;
- ◆ Mechanical key override.

5. Technical Parameter

Power supply	4.5 ~ 6.5V (4 pcs AA alkaline batteries)
Blue tooth standard	4.0 BLE (adopt Nordic 51822 blue tooth chip)
Support phone system	Android 4.3/IOS 7.0 or above
Alarm voltage	4.8V ± 0.2V
Static current	≤60µA
Dynamic current	≤200 mA

Operating temperature	-40 ~ 70°C	
Dynamic current	≤200 mA	
Operating temperature	-40 ~ 70°C	
Operating humidity	20 ~ 93%RH	
FAR (False Acceptance Rate)	< 0.001%	
FRR (False Reject Rate)	< 1.0%	
Fingerprint capacity	200pcs	
Opening time	around 1.5 seconds	
Mobile phone app	no limitation	
Card (Mifare1 card) capacity	100pcs	
Password capacity	APP send password	no limitation
	Custom password	150pcs

6. Function Keys Introductions

Function Keys includes: "RESET" button; "*" key and "#" key.

- ◆ RESET button  is for deleting APP Administrator;
- ◆ "*" key is for deleting last number of passcode or return to last step;
- ◆ "#" key is for confirmation.

7. Basic Functions

◆ Low Battery Warning

When the lock batteries are low, user touch keyboard to activate the lock to enter passcode or scan card or click the icon on the phone to unlock the door, speaker says "Low battery, please change the batteries" and the keyboard back lights quickly blinks 1 second.

◆ Wrong Passcode Warning

Wrong passcode is entered 5 times, the keyboard will be locked 5 minutes.

◆ Security Passcode

In order to avoid the exposure of your passcode in front of others, any numbers can be added before or after the correct passcode as follows:

xxxpasscodexxx. Total numbers must be within 24 digits.

Secure Locking from Inside by Switch

When moving the security switch to the locking position, **fingerprint**, passcode, ◆ card and phone app can not unlock from outside.



TTLOCK App



Scan to download The App /or enter "TT Lock" search to download

Introduction

The App is a smart lock management software. The App communicates with the lock via Bluetooth BLE, via the App manage the lock (**fingerprint**, passcode, card, electronic key) and unlock & lock, read access records, support firmware upgrade, and software functions update. The App electronic key, **fingerprint**, passcode and card can be limited to the opening period and the electronic key and passcode can be sent to the user in far away. The App supports multi languages: Chinese, Traditional Chinese, English, Spanish, Portuguese, Russian, French, Malay, etc.



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1. registration and login

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- 1.2 login authentication
- 1.3 ways of identifying
- 1.4 login successful

2. lock management

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3. key management

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4. passcode management

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- 4.4 clear code
- 4.5 cyclic passcode
- 4.6 customized passcode
- 4.7 passcode sharing
- 4.8 passcode management

5. card management

6. fingerprint management

7. bluetooth unlocking

8.(Omit)

9. system setting

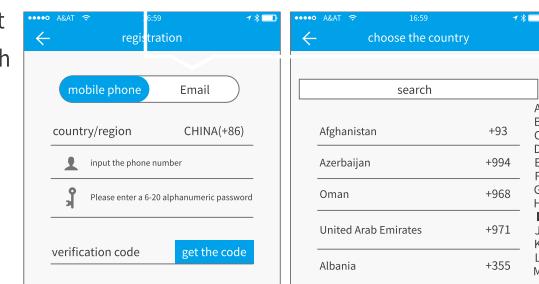
- 9.1 user management
- 9.2 group management settings
- 9.3 transfer admin rights
- 9.4 recycle bin
- 9.5 customer service
- 9.6 about

10. gateway management

- 10.1 gateway adding
- 10.2 manual

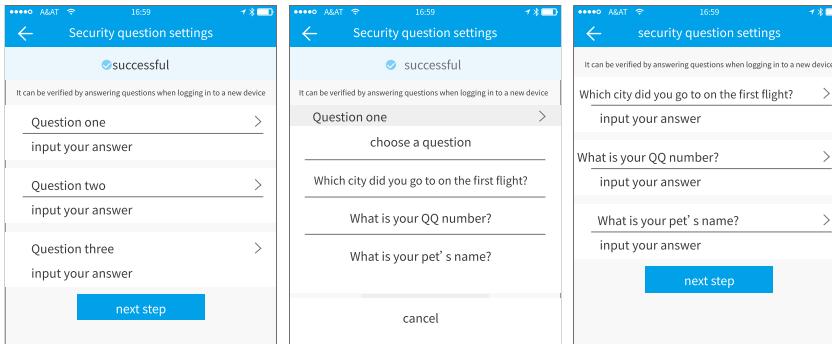
1. registration and login

Users can register the account by mobile phone and email which currently support 200 countries and regions in the world. The verification code will be sent to user's mobile phone or email, and the registration will be successful after the verification.



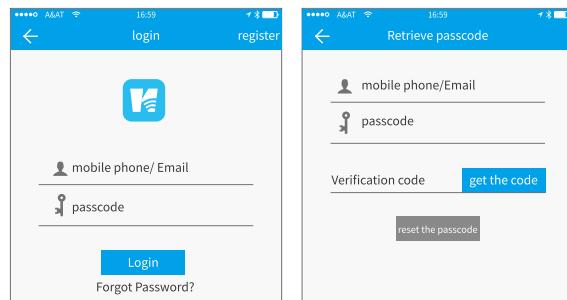
1.1 security question settings

You will be taken to the security question settings page when registration is successful. When log in on a new device, the user can authenticate himself by answering the above questions.

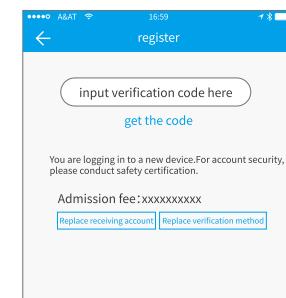


1.2 login authentication

Log in with your mobile phone number or email account on the login page. The mobile phone number is automatically recognized by the system and does not input the country code. If you have forgotten your passcode, you can go to the passcode page to reset your passcode. When reset the passcode, you can receive a verification code from your mobile phone and email address.



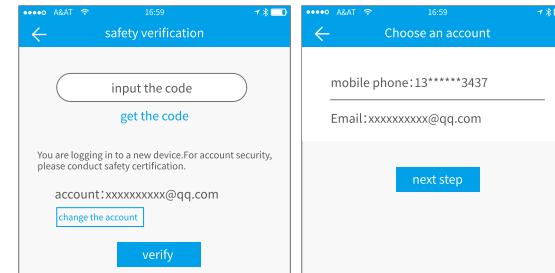
When the account is logged in on the new mobile phone, it needs to be verified. When it is passed, you can log in on the new mobile phone. All the data can be viewed and used on the new mobile phone.



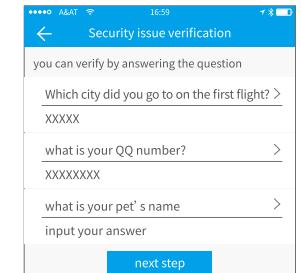
1.3 ways of identifying

There are two ways of security verification. One is the way to get the verification code via the account number, and the other is the way to answer the question. If the current account is set the "answer the question" verification, then when the new device is logged in, there will be an "answer question verification" option.

Verify with verification code



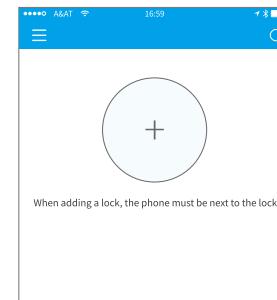
verify by answering questions



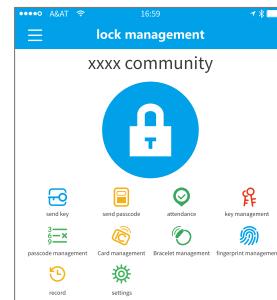
1.4 login successful

The first time you use the lock app, if there is no lock or key data in the account, the home page will display the button to add the lock. If there is already a lock or key in the account, the lock information will be displayed.

no lock adding



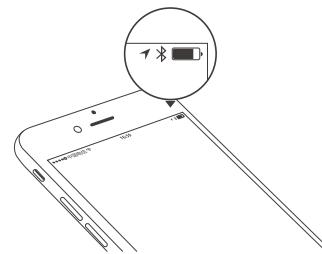
the account with lock



2. lock management

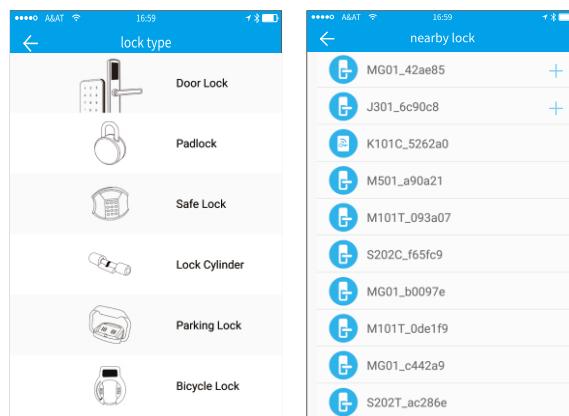
The lock must be added on the app before it can be used. The addition of a lock refers to the initialization of the lock by communicating with the lock via Bluetooth. Please stand beside the lock. Once the lock is added successful, you can manage the lock with the app including sending a key, sending a passcode, and so on.

When the lock is added, the adder becomes the administrator of the lock. At the same time, the lock cannot enter the setup mode by touching the keyboard. This lock can only be re-added after the current administrator has deleted the lock. The operation of deleting the lock needs to be done by Bluetooth beside the lock.

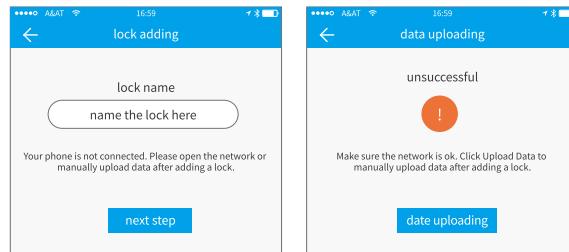


2.1 lock adding

The App supports multiple types of lock, including door locks, padlocks, safe locks, smart lock cylinders, parking locks, and bicycle locks. When adding a device, you must firstly select the lock type. The lock needs to be added to the app after entering the setting mode. A lock that has not been added will enter the setting mode as long as the lock keyboard is touched. The lock that has been added needs to be deleted on the App first.

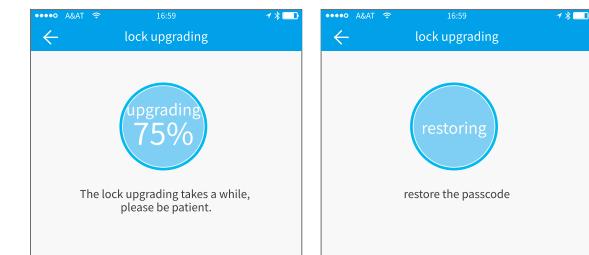


The initialization data of the lock needs to be uploaded to the network. The data needs to be uploaded when the network is available to complete the entire whole adding process.



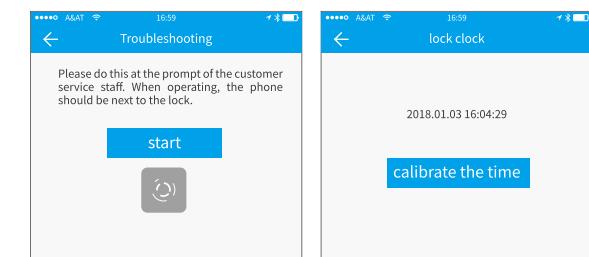
2.2 lock upgrading

User can upgrade the lock hardware on the APP. The upgrade needs to be done via Bluetooth next to the lock. When the upgrade is successful, the original key, passcode, IC card, can continue to be used.



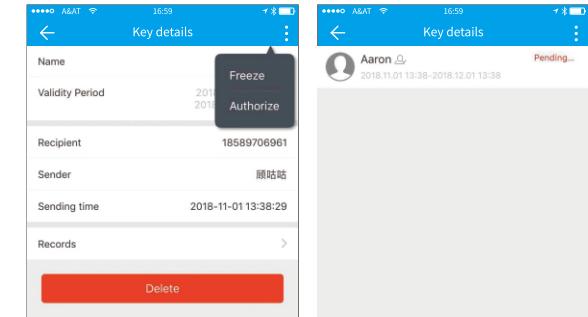
2.3 error diagnosis and time calibration

Error diagnosis aims to help analyse the system problems. It needs to be done via Bluetooth beside the lock. If there is a gateway, the clock will be calibrated firstly through the gateway. If there is no gateway, it needs to be calibrated by the mobile phone Bluetooth.



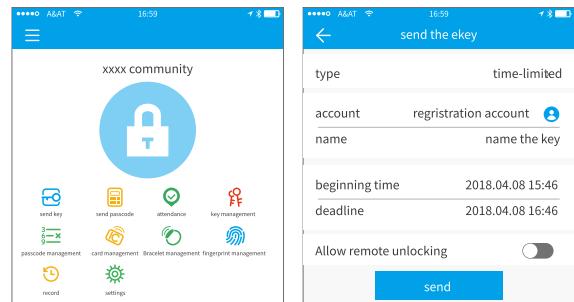
2.4 Authorized administrator

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.



3. 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 to expire.

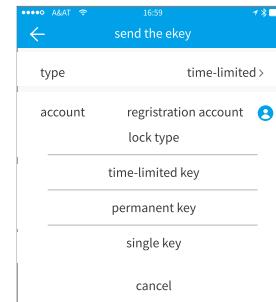


Click the type of lock it will show the time-limited ekey, one-time ekey and permanent ekey.

Time-limited ekey: The ekey is valid for the specified time

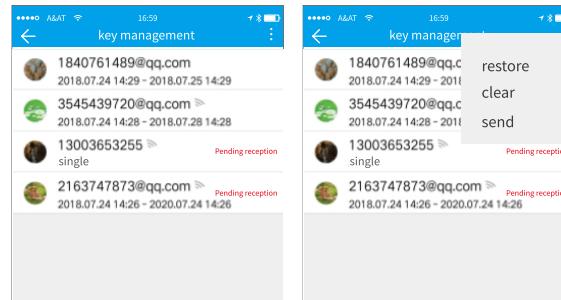
Permanent ekey: The ekey can be used permanently.

One-time ekey: the ekey will be automatically deleted once it has been used.



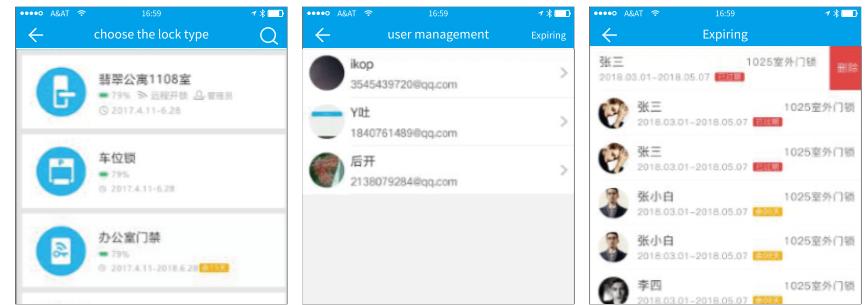
3.1 key management

The manager can delete ekey, reset ekey, send and adjust the ekey, meanwhile he can search the lock record.



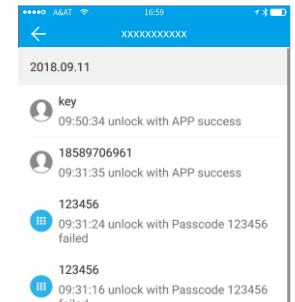
3.2 deadline warning

System will show two colors for deadline warning. The yellow means close to expiring and the red means it has expired.



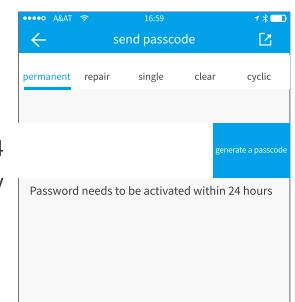
3.3 search lock record

The administrator can query the unlock record of each key.



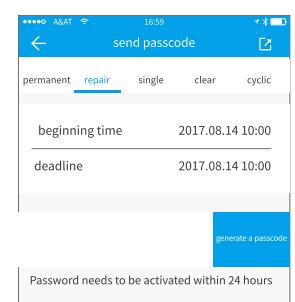
4. passcode management

After inputting the passcode on the keyboard of the lock, press the unlock button to unlock. Passcodes are classified into permanent, time-limited, one-time, empty, loop, custom, etc.



4.1 permanent passcode

The permanent passcode must be used within 24 hours after it is generated, otherwise it will automatically expire.

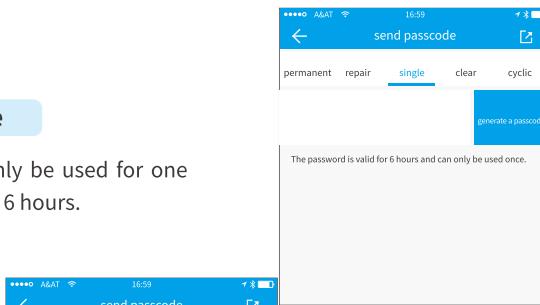


4.2 time-limited passcode

The time-limited passcode can own an expiration date, which is a minimum of one hour and a maximum of three years. If the validity period is within one year, the time can be accurate to the hour; if the validity period is more than one year, the accuracy is month. When the time-limited passcode is valid, it should be used within 24 hours, otherwise it will automatically expire.

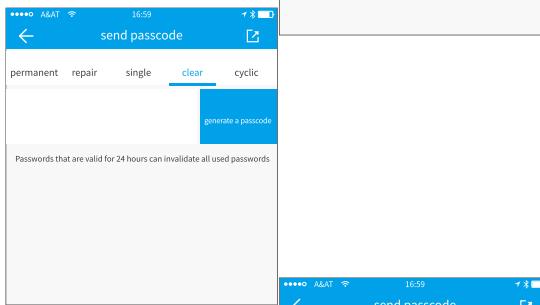
4.3 one-time passcode

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



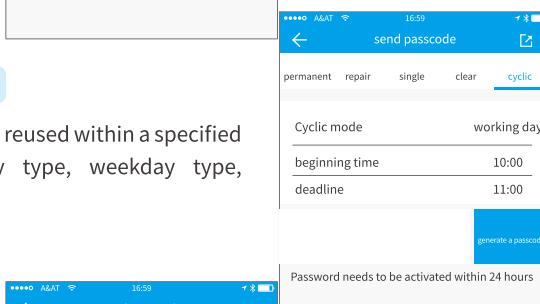
4.4 clear code

Clear code is used to delete all the passcodes the lock has set, and which is available for 24 hours.



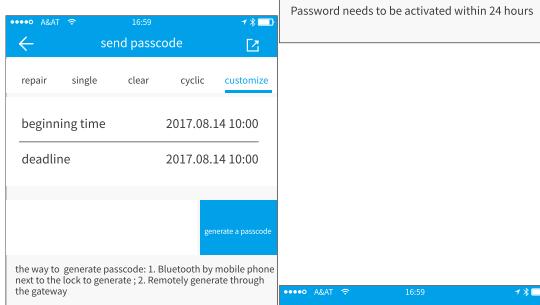
4.5 cyclic passcode

The cyclic passcode can be reused within a specified time period, including daily type, weekday type, weekend type, and more.



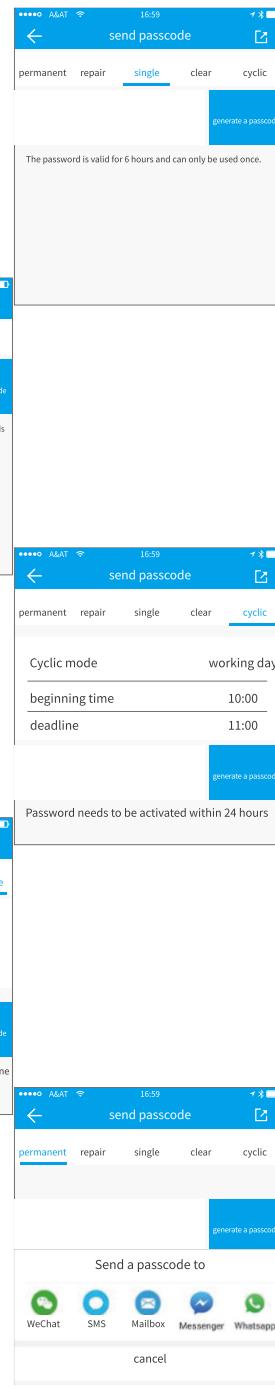
4.6 customized passcode

User can set any passcodes and validity period he wants.



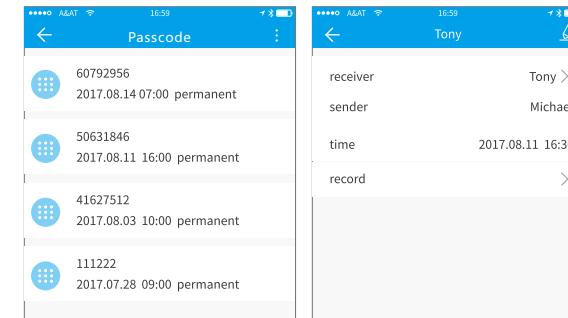
4.7 passcode sharing

The system add new communication ways of Facebook Messenger and Whatsapp to help users share the passcode.



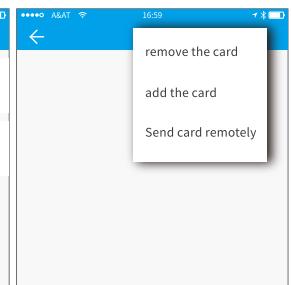
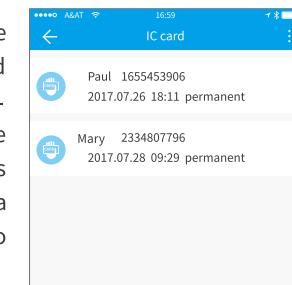
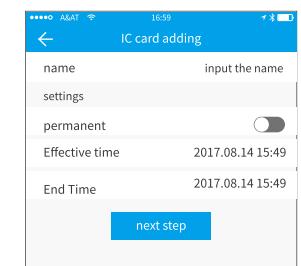
4.8 passcode management

All generated passcodes can be viewed and managed in the passcode management module. This includes the right of changing the passcode, deleting the passcode, resetting the passcode, and unlocking the passcode.



5. card management

You need to add the IC card first. The whole process needs to be done via the app beside the lock. The validity period of the IC card can be set, either permanent or time-limited.



6. fingerprint management

Fingerprint management is similar to IC card management. After adding a fingerprint, you can use the fingerprint to unlock the door.

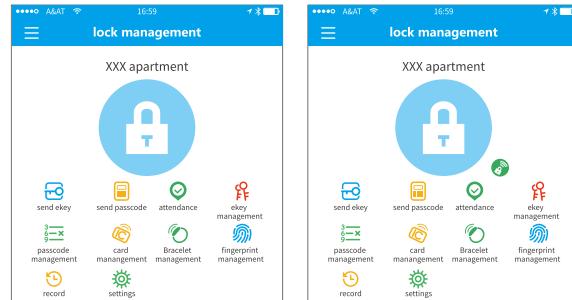
7. unlock via Bluetooth

App User can lock the door via Bluetooth and can also send the Bluetooth ekey to anyone.



• unlock by App

Click the lock icon to unlock the door. Since the Bluetooth signal has a certain coverage, please use the APP within the certain area.

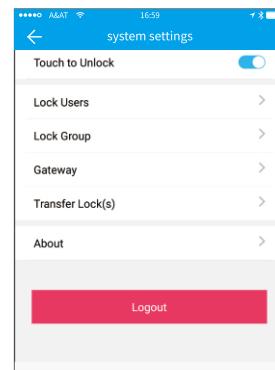


8. (Omit)

9. system setting

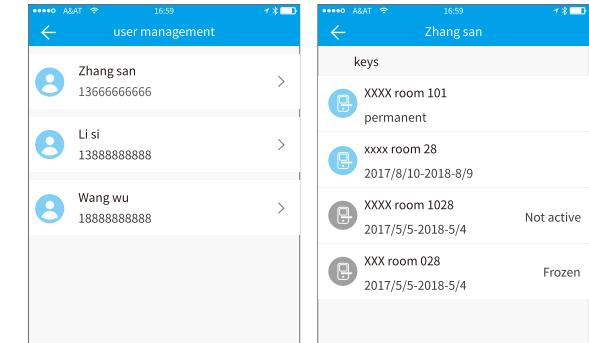
In the system settings, it includes touch unlock switch, group management, gateway management, security settings, reminder, transfer smart lock and so on.

Touch unlock setting determines whether you can open the door by touching the lock.



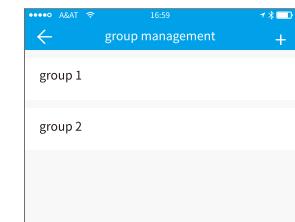
9.1 user management

The user name and phone number can be seen in the user list. Click the customer you want to view to get the door lock information.



9.2 group management settings

In the case of a large number of keys, you can use group management module.

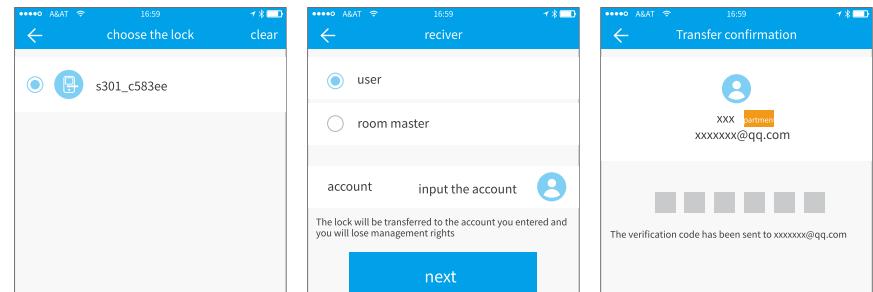


9.3 transfer admin rights

The administrator can transfer the lock to other users or to the apartment (Room Master user). Only the account that manages the lock has the right to transfer the lock.

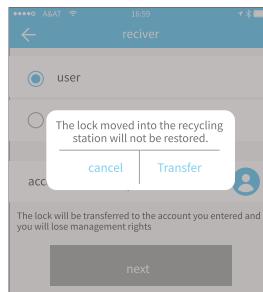
After inputting the account, you will receive a verification code. Filling in the correct number, you will transfer successfully.

The account of the apartment transfer receive must be the administrator account.



9.4 recycle bin

If the lock is damaged and cannot be deleted, the lock can be deleted by moving it into the recycling station.



10. gateway management

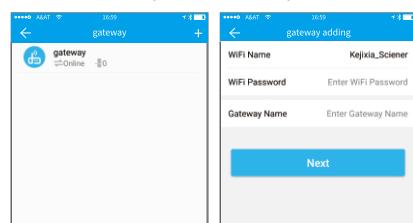
The Smart lock is directly connected via Bluetooth, that is why it is not attacked by the network. The gateway is a bridge between smart locks and home WIFI networks. Through the gateway, the user can remotely view and calibrate the lock clock, read the unlock record. Meanwhile, it can remotely delete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



10.1 gateway adding

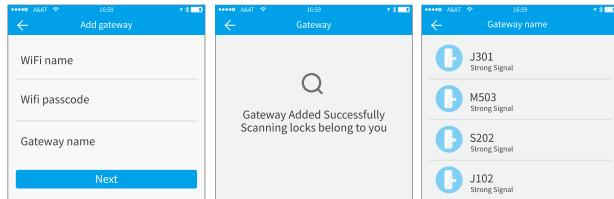
Please add the gateway via APP:

- Connect your phone to the WIFI network which the gateway is connected to.
- Click the plus 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.



10.2 manual

After a short period of time, you can see which locks are in their coverage in the app. Once the lock is bound to the gateway, the lock can be managed through the gateway.



How to Delete APP Administrator

- Put User phone near the lock, delete the Administrator in the phone APP until speaker says "Deleted Administrator successful";
- Long press "RESET" button until speaker says "please input initialization passcode ("000→#"), and speaker says "Deleting Administrator successful".

How to Change Language

Format: *→39→#→management passcode→#→1 or 2 →#.

Note: 1 Chinese 2. English

Traditional Functions without APP (Optional)

If App is not required for the lock, you can use the card and passcode for normal operation, the program and operation as below:

1. Change Management Passcode (default 123456)

Format: *→12→#→original passcode→#→new passcode→#→new passcode→#.

Follow the format and voice guide until speaker says "Operation successful".

2. Add User Passcode / User Card/ Fingerprint

A. Add User Passcode(s)

Format: *→85→#→management passcode→#→user passcode→#→user passcode → #

Follow the format to add user passcode(s) and voice guide until speaker says "input successful".

B. Add User Card(s)

Format: *→85→#→management passcode→#→ scan user card(s)"

Follow the format to add user **Fingerprint** or user card(s), and voice guide until the speaker says "operation successful".

3. Change User Passcode

Format: *→10→#→original passcode→#→new passcode →#→new passcode→#".

Follow the format to change the original passcode with new passcode, and voice guide until speaker says "operation successful".

4. Delete All User Cards

Format: "*→ 69 →#→management passcode→ #"

Follow the format to delete all user cards, and voice guide until the speaker says "operation successful".

5. Delete All User Passcodes

Format: "* → 71 → # → management passcode → #"

Follow the format to delete all user passcodes, and voice guide until speaker says "operation successful".

Note:

All user passcodes including APP user passcodes will be deleted except management passcode.

If the user want to use App for the lock, then Add the APP Administrator as below:

6. Add APP Administrator

Format: "*→83→#→management passcode→#→APP administrator"

Follow the format and voice guide until speaker says "operation successful".

Note:

The former users (of passcodes and cards) will be deleted after add APP administrator, new users (of passcodes and cards) can be added in the APP.

7. Indicator Light Prompt

RED light means operation fail(wrong passcode or wrong card)

GREEN light means "unlocked"

Unlock/Lock

Unlock mode: Phone App; **Fingerprint**; Passcode; Card; Mechanical Key

1. To Unlock by Phone App/**Fingerprint**/Passcode/Card

- Click the icon on your phone, the deadbolt retract and the door is unlocked;
- Put your finger on the reader, the deadbolt retract and the door is unlocked.**
- Touch the screen to activate the keyboard, the keyboard light on, enter passcode followed by # key;
- Scan the card on the lock, the deadbolt retract and the door is unlocked.

2. To Lock

- When close the door, the dead bolt protrudes automatically and the door is locked (Add magnetic device on the door)
- Long press the icon on your phone, the deadbolt protrude and the door is locked.
- Long press "#" button, the deadbolt protrude and the door is locked.

3. Secure Lock by Inside Locking Switch

When move the security switch to the locking position, the status indicator Red light is on, **fingerprint**, passcode or cards or phone app can not unlock from outside.

4. Emergency Unlock

If the batteries are exhausted you can insert a USB charger into the USB port (which is located under the front panel) for emergency unlocking.

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.

Use a needle tool to depress the 2 side pins of the cylinder cover and remove the cover, insert the mechanical key and turn it to retract the deadbolt to unlock.

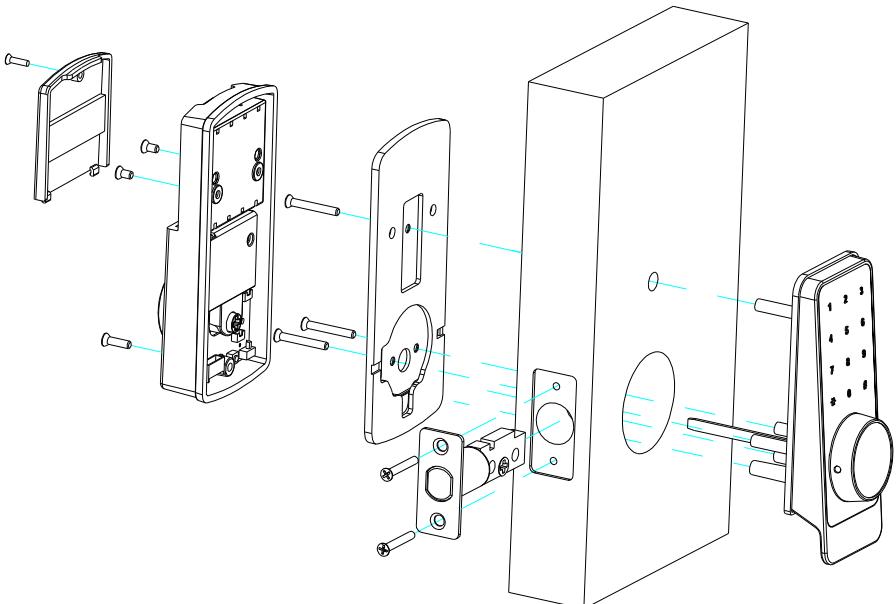
Keep the mechanical keys in safety for emergency use.

Installation and Adjustment

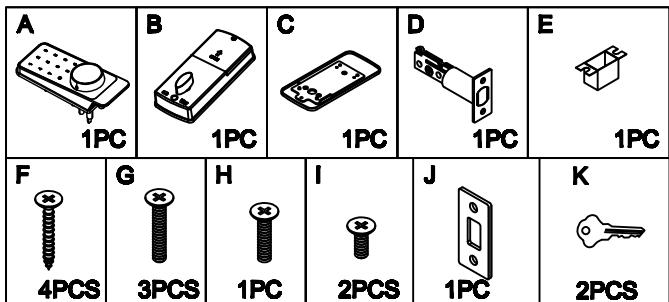
1. Installation Condition

- Door frame $\geq 110\text{mm}$
- Door thickness: $35\sim 45\text{mm}$
- Door thickness: $\geq 45\text{mm}$ (Cylinder will be specially made)

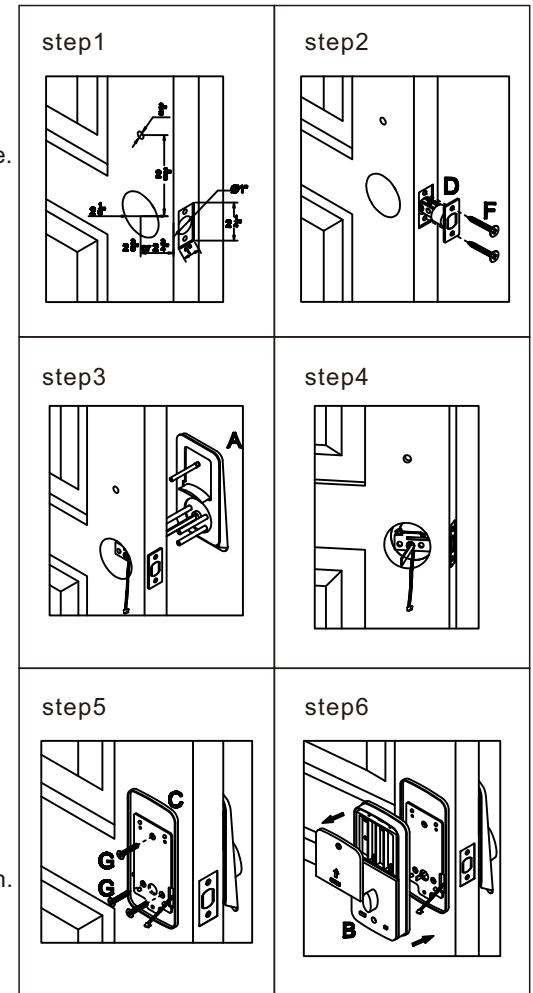
2. Installation Assembly



3. Installation Steps



1. Drill a large and a small hole on the door for the front and rear panel and drill a round hole on the door frame for the deadbolt according to the 1:1 template.
2. Insert the deadbolt into the hole of the door frame and fix it with 2 screws.



- 3~4. Insert the thin bar of the front panel into the hole of the deadbolt in a vertical status, and then put the cable wire of the front panel through the door hole to the inside of the door.

5. Pass the cable wire through the small square hole on the right side of the mounting plate, and then fix the mounting plate and the front panel with 3 screws.
6. Remove the battery cover. If the lock is for right-open, keep the knob in the vertical direction and the moving switch in PCB is in R position. (If the lock is for left-open, keep the knob in horizontal position, the moving switch in PCB is in the L position)

7. Insert the plug of the front lock into socket of the rear lock, and insert the thin bar into the hole of the knob.

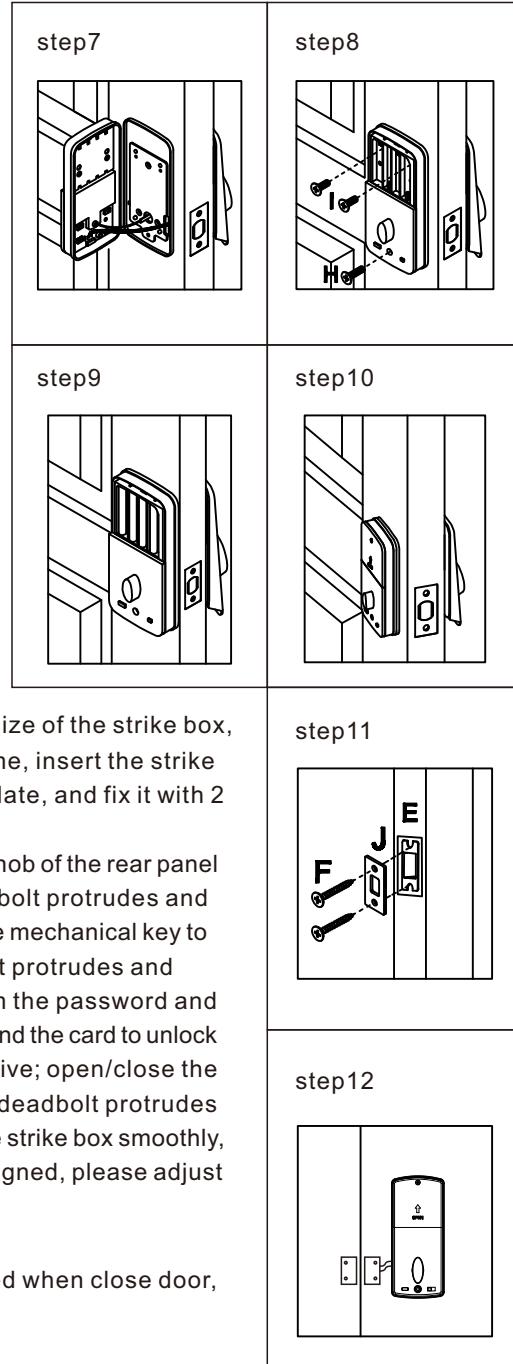
8~9. Fix the rear panel on the mounting plate with 3 screws

10. Load 4 AA alkaline batteries in the battery holder of the rear panel, and then fix the battery cover with a screw.

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

Test and debug: Turn the knob of the rear panel to check whether the deadbolt protrudes and retracts smoothly; insert the mechanical key to check whether the deadbolt protrudes and retracts smoothly; program the password and the card, use the password and the card to unlock to check whether it is sensitive; open/close the door to check whether the deadbolt protrudes and retracts in and out of the strike box smoothly, if it is not smooth and misaligned, please adjust it until it is perfect.

12. If auto-locking is required when close door, pls add magnetic device



Maintenance

- a. 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;
- b. Kindly recommend to install the lock after room decoration. That will avoid the lock surface be damaged;
- c. Always keep the rotating part with lubricant, it 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.
- d. To avoid any inconvenience caused by battery consumption, suggest to replace new batteries as soon as the low voltage alarm happens.
- e. 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).
- f. 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:

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

Appendix

1. Packing List

No.	Part Name	Q'ty
A	Front panel	1 pc
B	Rear panel	1 pc
C	Mounting panel	1 pc
D	Deadbolt	1 pc
E	Strike box	1 pc
FGHI	Screws(a pack)	10 pcs
J	Strike plate	1 pc
K	Mechanical keys	2 pcs
	Mifare1 card	2 pcs
	Template	1 pc
	User manual	1 pc
	USB charger	1 pc

2. Installation Tools



FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.