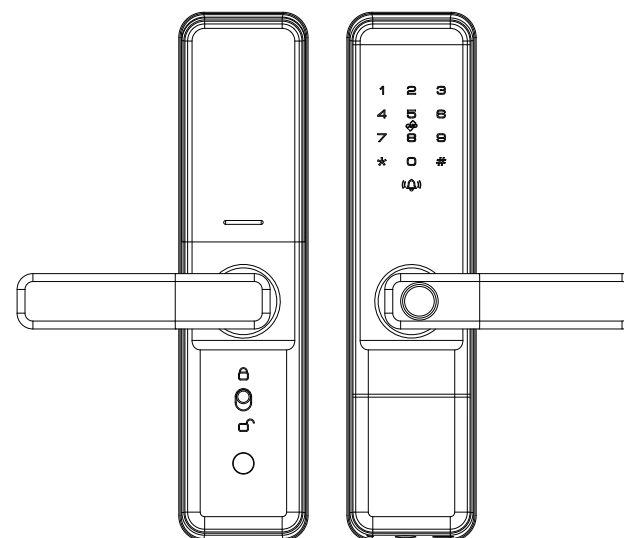




Product Manual

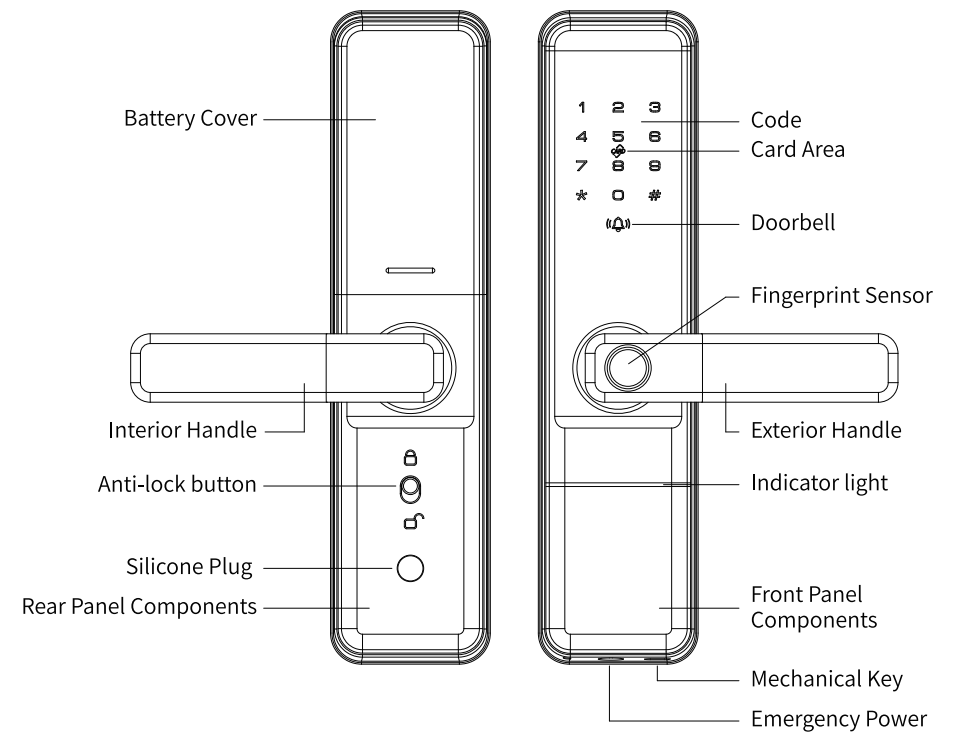
Installation & System Setting 



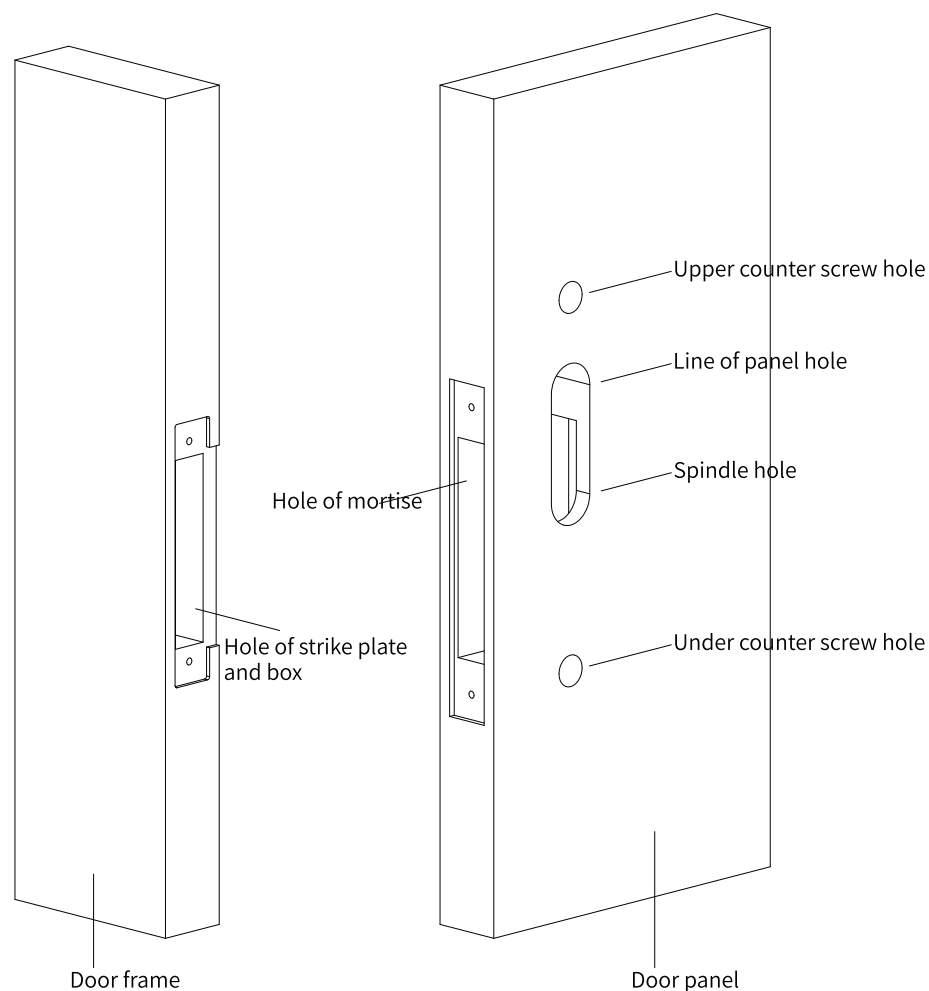
INDOOR SMART LOCK

Smart Door locks-All Bluetooth
S30

① Parameters



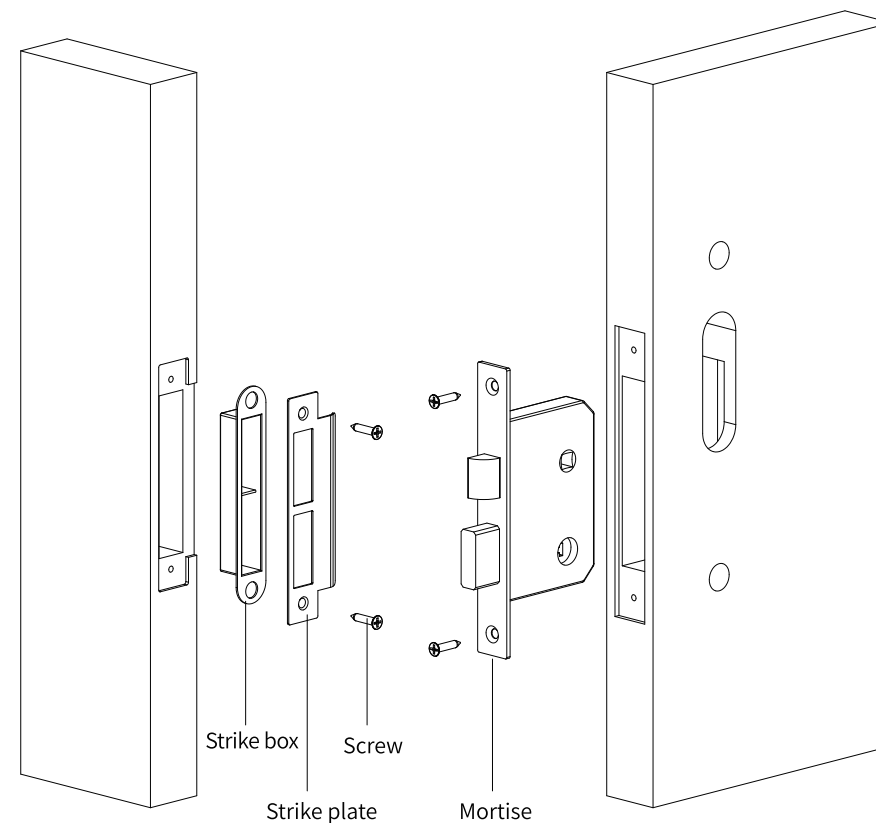
② Door and Frame Drilling



1.1. According to the hole size of the drilling template, drill holes on the door panel and door frame.

(Note: After drilling the holes, remove debris from inside and around the edges of the holes.)

③ Installation of Mortise, Strike Box and Strike Plate

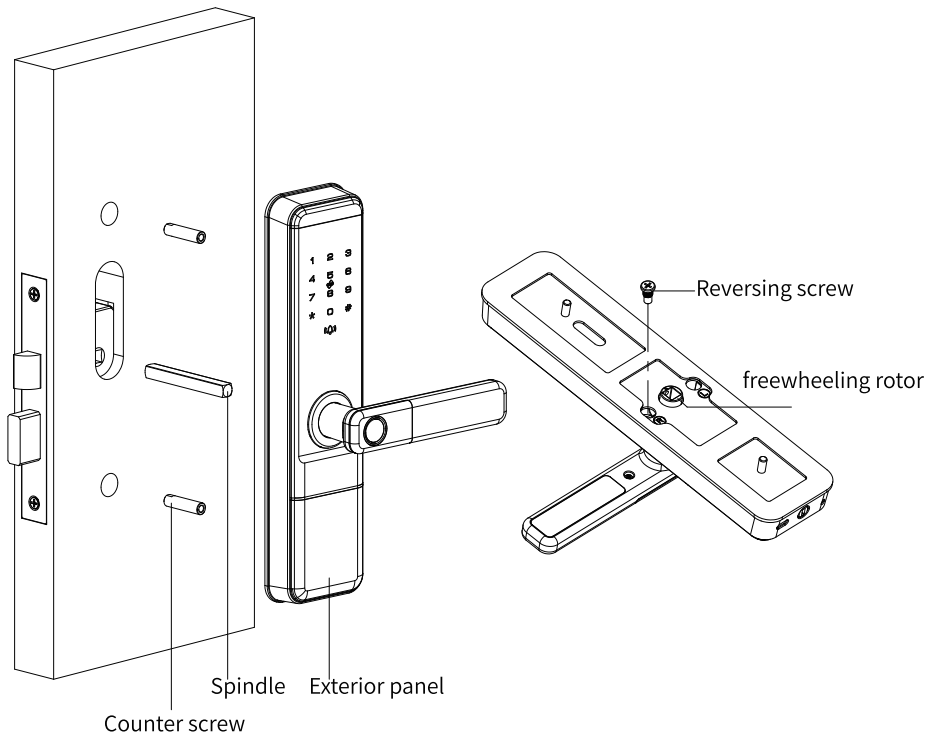


1.2.1. Secure the mortise to the door panel with screws, making sure the mortise is level with the door panel;

1.2.2. Use screws to fix the door button box and door button plate to the door frame, and make sure that after the installation is completed, the latch of the mortise corresponds to the lock hole of the button plate, if there is any deviation, it must be adjusted.

Note: In order to ensure normal use, the mortise should be adjusted according to the actual opening direction before installation, and the direction of the tilt tongue should be consistent with the opening direction.

④ Exterior Panel Installation



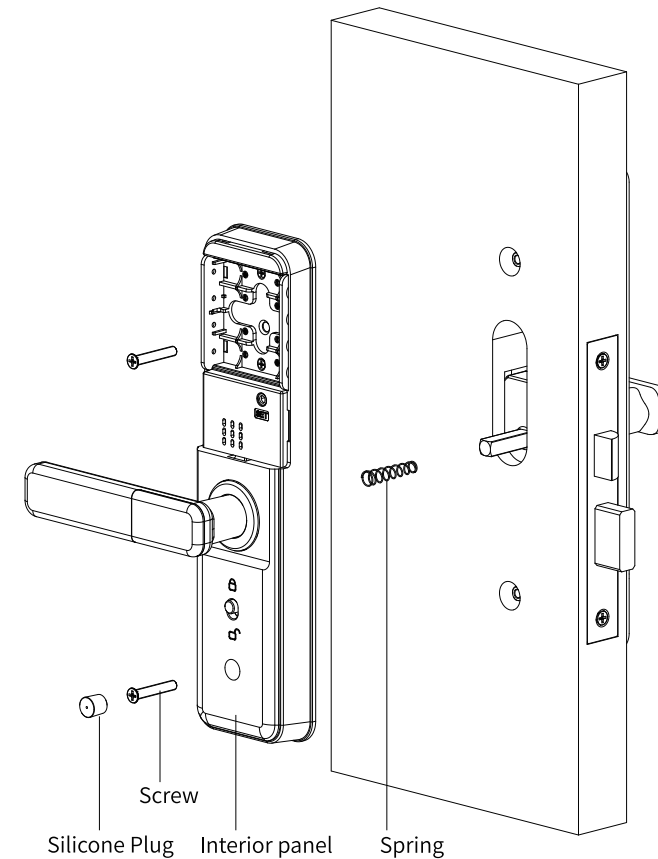
1.3.1. Adjust the direction of the handle according to the direction of opening the door: unscrew the reversing screw in the reversing hole, rotate the handle 180 degrees R: right open, L: left open; (the same reversing operation of the rear panel)

1.3.2. Select the appropriate length of the spindle according to the door thickness, and then insert the spindle into the square bar hole of the free rotor: cut off the spindle to 65mm when the door thickness is between 35-45mm; install the spindle directly when the door thickness is 45-55mm.

Note:

- ① When installing a double latch, the direction of the arrow on the freewheeling rotor must always face up
- ② When installing a single latch, the direction of the arrow on the freewheeling rotor must always face the other side of the handle.

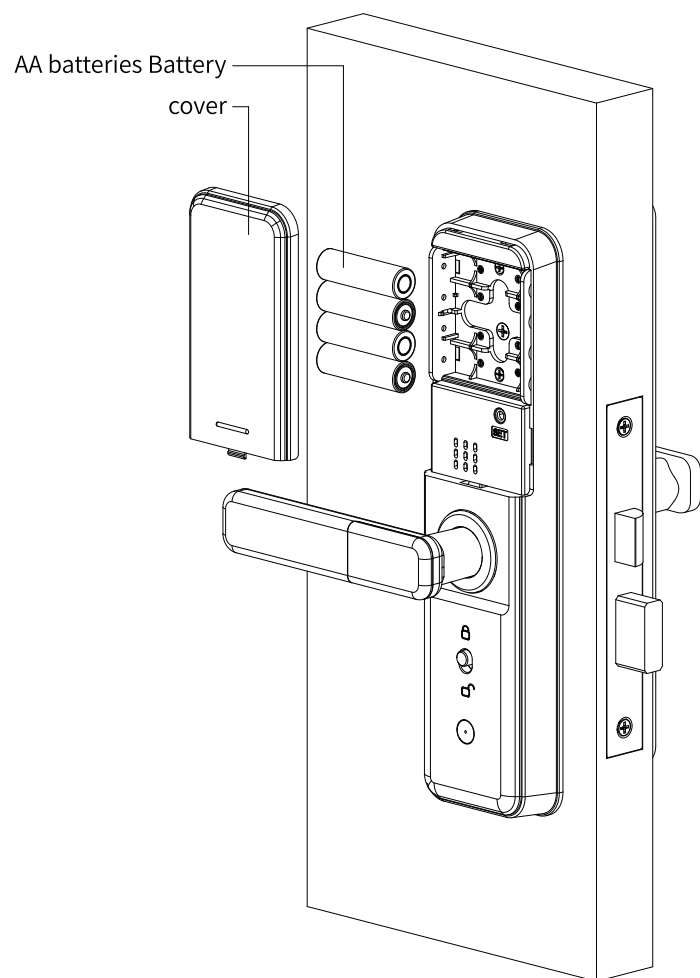
⑤ Interior Panel Installation



1.4.1. Plug in the front and rear panel connecting wires, then the large end of the spring faces inward into the spindle hole in the rear handle;

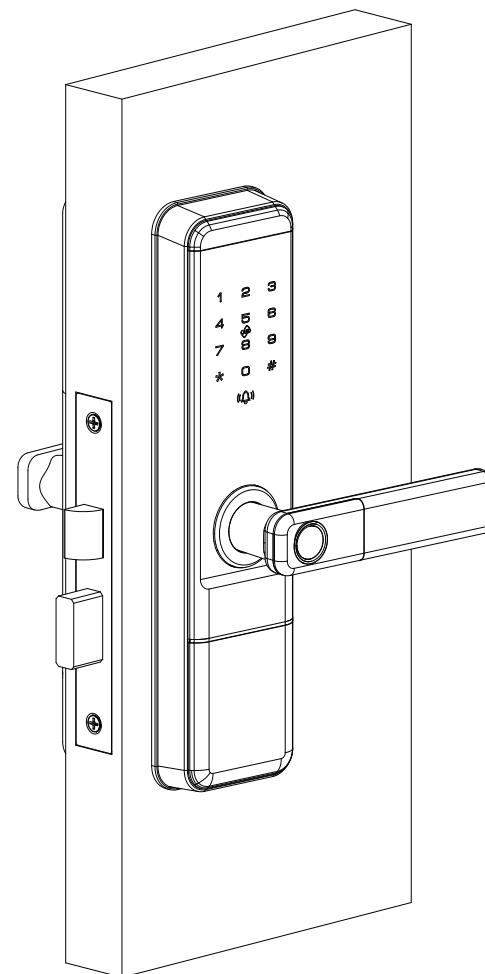
1.4.2. Adjust the front and rear panels to align with the door frame, then lock the counter screws and install the silicone plugs.

⑥ Battery Installation



1.5. Properly install 4 PCS AA batteries and close the battery cover.

⑦ Completion of Installation and Test The Lock



1.6. According to the operating instructions, follow the steps to test the door lock related functions.

⑧ Introduction

This product fingerprint lock motherboard program, using 8251 Bluetooth chip as the main control, support low-power Bluetooth (BLE 5.0), can be through the lock App management door lock (password, electronic key, IC card, fingerprint) and unlocking, support password unlocking, IC card unlocking, fingerprint unlocking, remote control unlocking (need to be equipped with a separate remote control). The door lock supports firmware upgrade, and the software function can be extended by firmware upgrade. app electronic key, password, IC card, fingerprint, can specify the validity period (start time - end time), only within the validity period can open the lock

01. Mobile phone Bluetooth unlocking

Based on low-power Bluetooth technology, the lock can be opened conveniently through the cell phone APP.

02. Remote distribution of electronic keys

Electronic keys can be sent to tenants at any time, and the expiration date of each electronic key can be set flexibly, or the electronic key can be frozen/unfrozen

03. Combination locking

The lock can be unlocked by touching the numeric keypad and entering the password valid for a certain period of time

04. Fingerprint locking

Opening the door with the fingerprint that has been entered into the information

05. IC card unlocking

Opening the door by swiping the IC card with recorded information

06. Locking record monitoring

Password, IC card, fingerprint, APP unlocking, all records are kept, in any one cell phone APP operation door lock and connect to the network and synchronize information, you can see all the unlocking records on the administrator APP.

⑨ Parameters

Bluetooth Standard	5.0 BLE
Supported Mobile Systems	Android 4.3/IOS7.0 above
Power Supply	4 PCS AA Battery
Low power Alarm Voltage	4.8V±0.1
Voltage Range	4.5~9V
Standby Current	90 μA
Operating Current	< 200 mA
Unlock Time	≈1.5 s
Operating temperature range	-20~70
Key Type	Capacitive touch keys
Password	150 Groups
Card Types	MIFARE M1 Card
IC Cards	200 Groups
Unlock Method	App、PIN、Fingerprint、IC Card、Key Remote
Fingerprint Type	Semiconductor Fingerprint
Fingerprint	100 Groups
FAR	<0.001%
FRR	<1.0%

⑩ Operating Instructions

Function	Operating
1. Factory Setting	Press and hold the reset button on the lock, hear "Please enter the initialization password", enter 000#, hear "Administrator deleted successfully" to restore factory settings, clear all passwords, cards and phone administrator.
2. Setting Administrator Password	If no administrator password is set and no mobile administrator is added, enter *12#123456# → Enter administrator password. → Enter the same password again. Note: When using the mobile app management, this step is not necessary to do.
3. Add Phone Administrator	When no administrator is set and no phone administrator is added, touch the bright panel, hear "Please add Bluetooth administrator" and add the door lock on the app. After setting up an administrator or adding a mobile administrator, you can allow other APP accounts to add this lock as a new administrator by entering *83#admin password# on the lock to put the lock into the addable mobile administrator mode again. Note: After a new APP account adds an administrator, this lock under the previous account will be automatically deleted, which means only one level of mobile administrator is allowed to exist.
4. Edit Administrator Password	Click lock on the APP → Click [Setting] → [Click Information] [Administrator password] → Enter new password. Note: Must operate on the APP Enter *12# original admin password# new admin password# same new admin password# on the lock to change the admin password

⑩ Operating Instructions

Function	Operating
5. Delete Phone Administrator	Select the lock you need to delete the phone administrator in the APP, click [Settings], click [Delete] and enter the account password. Note: After deleting the administrator on the APP, the lock restores factory settings and all the fingerprints, passwords and cards added before are invalid
6. APP eKeys	Click on 'Send Key' on the APP to send an electronic key to other users, which can authorize other users and make it a secondary administrator
7. Add Password	Click [Passcode] → [Generate Passcode] → select the password type [Custom] → select the expiration date → Enter the password → click [Set Password]. Note: Custom must operate on the APP Click [Generate Passcode] on the APP → Choose passcode type: Permanent / Timed / One-time / Recurring / Erase → Click [Generate Passcode] Note: These types of passwords do not require an operation on the lock side Clear password is used to remove all passwords already in effect on the lock. Enter *80# enter the administrator password# on the lock → Enter new password# → Enter same password again# Note: The password added directly on the lock can be set up in the APP to upload data and upload the password to the APP for management. After the lock directly added password successfully, you can continue to add other passwords, or you can press * or wait for the timeout and exit the add mode. Note: This feature is only supported by version 5.0.1 or above

10 Operating Instructions

Function	Operating
8. Delete Password	Click[Passcode] on the APP → Click on the password that needs to be deleted → Click delete Note: Must operate on the APP
	Enter *71#admin password# on the lock to delete all unlocking passwords (admin password is not deleted) Enter *72#admin password# on the lock to delete the specified passwords (administrator passwords are not deleted)
9. Edit Password	Click【Passcode】on the APP → Click the passcode need to change → Enter new passcode. Note: Must operate on the APP
	Enter*10# Original passcode# New passcode# Same passcode# Edit Admin passcode, use *12#
10. Rename Passcode	Click【Passcode】 → Click the name to change → Enter the new name
11. Expiration Date of Password Change	Click 【passcode】 on the APP → Click on the password that needs to be changed for the expiration date → Enter a new expiration date
12. Add IC Card	Click【IC card】 → 【Add card】 → Enter a name and select an expiration date → Click confirm then swipe the card. Note: Must operate on the APP
	Enter *80# Enter admin passcode#, swipe card to add. Note: IC cards added directly on the lock can upload data in the App settings to upload the IC card to the App for management. After the lock is successfully added directly to the IC card, you can continue to add other IC cards, or you can press * or wait for the timeout and exit the add mode. Note: This function is only supported by firmware version 5.0.1 (inclusive) or above.

10 Operating Instructions

Function	Operating
13. Delete IC card	Click【IC card】 on the APP → Click on the IC card that needs to be deleted → Click delete Note: Must operate on the APP
	Enter *69#admin password# on the lock to delete all IC card
14. Rename IC card	Click 【IC card】 → Click the name to change → Enter the new name.
15. Expiration Date of IC Card Change	Click【IC card】 on the APP → Click on the IC card that needs to be changed for the expiration date → Enter a new expiration date.
16. Add Fingerprint	Click【Fingerprint】 → 【Add fingerprint】 → Enter a name and select an expiration date → Click 【Next】 Click 【Start】 → Press the fingerprint in different directions on the fingerprint collector several times according to the voice reminder. Note: Must operate on the APP.
	Enter *80# Enter admin passcode#, Press the fingerprint in different directions on the fingerprint collector several times according to the voice reminder. Note: Fingerprint added directly on the lock can upload data in the App settings to upload the fingerprint to the App for management. After the lock is successfully added directly to the fingerprint, you can continue to add other fingerprint,, or you can press * or wait for the timeout and exit the add mode. Note: This function is only supported by firmware version 5.0.1 (inclusive) or above.
17. Rename Fingerprint	Click 【Fingerprint】 → Click the name to change → Enter the new name.
18. Expiration Date of Fingerprint Change	Click【fingerprint】on the APP → Click on the fingerprint that needs to be changed for the expiration date → Enter a new expiration date

10 Operating Instructions

Function	Operating
19. Delete Fingerprint	Click【Fingerprint】on the APP → Click on the fingerprint that needs to be deleted → Click delete Note: Must operate on the APP. Enter *70#admin password# on the lock to delete all fingerprint.
20. Add Remote Control	Click【Remote】→ Add remote(Permanent, timed, recurring) → click next, hold the unlock button on remote for 5 seconds to add remote.
21. Rename Remote	Click【remote】→ Click the name to change → Enter the new name Enter the new name.
22. Expiration Date of Remote Change	Click【Remote】on the APP → Click on the remote that needs to be changed for the expiration date → Enter a new expiration date.
23. Delete Fingerprint	Click【Fingerprint】on the APP → Click on the fingerprint that needs to be deleted → Click delete.
24. Unlocking	App Unlock: Tap the lock icon on the app to unlock it.
	Touch to unlock the door: If the app is turned on "touch to unlock", open the app and touch the lock to unlock the door.
	Fingerprint Unlock: Press the finger that has been added on the fingerprint collector to unlock the door.
	Remote Unlock: press the unlock button to unlock the door and press the unlock button to unlock the door.
	IC card unlock: Put the added IC card into the card swipe area to unlock.
	Password Unlock: Enter the unlock code on the password keypad and press # to unlock the door. Note: During password input, you can press the * key to delete the last number entered without adding the administrator default unlock password 123456.

10 Operating Instructions

Function	Operating
25. Lock	After lock, 5 seconds timeout automatically latch (except temporary normally open). In normally open mode, press and hold the # button to unlock.
	Lock button: normally open mode or automatic latching greater than 10s, long press # key about 3s latching.
	Remote lock: Press the added remote lock key to lock. APP lock: Long press the lock icon on the app to lock it. Note: Must operate on the APP
26. Passage Mode	After unlocking (before closing the lock), enter 123#, the lock is always open, and restores the closed state after another unlock timeout.
27. Unlock Record	Select the door lock on the App and click【Records】to view it. Note: When there is no gateway, the unlocking record of IC card/password can only be viewed after unlocking through the app.
	Click on a fingerprint / IC card / password on the App and click on Records to view all records of this fingerprint / IC card / password.
28. Dummy Password	Additional digits can be added before and after the correct code is entered on the lock, and the total length of the dummy code is 16 digits.
29. Low Power Alert	When the battery voltage is lower than 4.8V, the panel will be illuminated and the voice will indicate "low battery, please replace the battery", while the screen backlight flashes rapidly for 1 second.
30. *Button	Password input process, press the * button once, you can delete the last entered password digits, all deleted, if in add mode, you can exit this mode, all entered digits are deleted, then press the * button three times, the screen goes off.

10 Operating Instructions

Function	Operating
31. Open Automatic Lock	Enter *21#admin password#automatic lock seconds (1-900)#hear the voice prompt "operation success", the lock will automatically lock after unlocking according to the set time. Set the lock time through the app【Settings】→【Auto-lock】.
32. Turn Off Automatic Lock	Enter *20#admin password# to turn off the automatic lock time. Turn off auto-lock via app【Settings】→【Auto-lock】.
33. System Lock	Password/card wrong 5 times (three locking methods can be accumulated), the system will lock the password keypad and prompt "illegal operation, the system has been locked", 2 minutes after the timeout, will release the lock status. During the locking period, use the app to unlock the keyboard can be unlocked state.
34. Firmware Upgrade	The lock can be firmware upgraded through the app by clicking on 【Settings】 on the app → 【Firmware Upgrade】 to upgrade the lock with new firmware.
35. Demo Mode	Default off demo mode, not added administrator, lock enter 24679#, open demo mode, any card and password 123456 can open the lock, set the administrator password or add cell phone administrator, demo mode automatically closed.
36. Language Switch	Chinese : enter "*39#admin password#1#" on the lock. English : Enter "*39#admin password#2#" on the lock. Note: When no administrator is added, the administrator password is replaced by 123456.
37. Aging Test	When no administrator is added, enter 35896# to turn on the motor aging test, and enter 35896# again or reapply power to exit the motor aging test.

10 Operating Instructions

Function	Operating
38. Lock Sound	On the APP 【Settings】→【Lock Sound】to turn off and on the lock sound. On the lock enter *30#admin#0# to turn off the sound, enter *30#admin#1# to turn on the sound.
39. Anti-pry Switch	Open anti-pry: Enter *32# admin password #1# Close anti-pry: enter *32# admin password #0# on the lock .
40. Anti-lock	Open the anti-lock: short connection once anti-lock interface, hear the voice prompt "door has been anti-lock" sound, at this time the door has been opened anti-lock function, the use of card / password / fingerprint to open the lock failed Close the anti-lock: loosen the anti-lock interface, hear the voice prompt "anti-lock has been lifted" sound, lift the anti-lock function, use the card / password / fingerprint to unlock successfully Note: After anti-lock, the lock can be unlocked using the administrator password and app.
41. Lock Clock	Click 【Lock Clock】 in APP setting to check the clock, click 【Calibrate Time】 to calibrate when the time is not accurate, or use APP to unlock once to calibrate the time.

⑪ Companion App

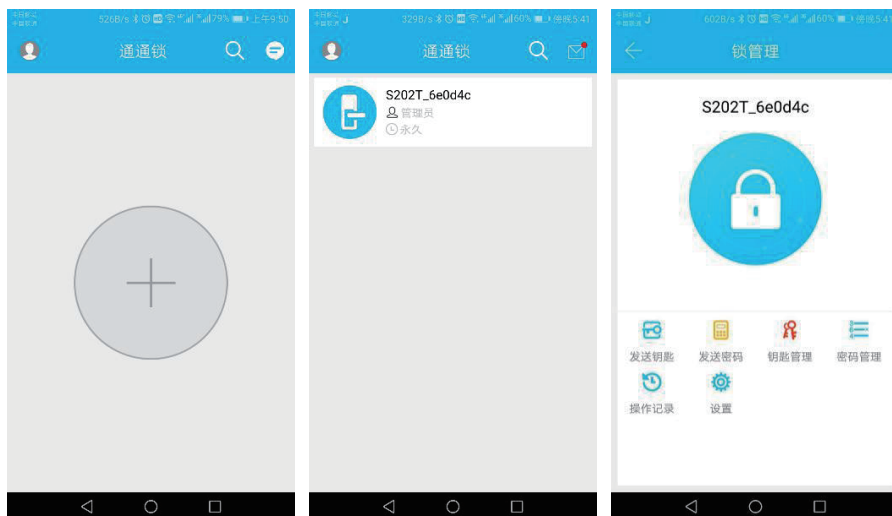
We provide "Tech Man", "Tong Tong Lock", "Good House Manager" and other apps to manage door locks, supporting Chinese, English, Spanish, French, German, Italian, Russian, Portuguese, Dutch, Polish, Slovak, Serbian, Vietnamese, Malay, Japanese, Korean, Bulgarian, Hebrew, Czech, Swedish, Arabic, Czech and other languages. Russian, Portuguese, Dutch, Polish, Slovak, Serbian, Vietnamese, Malay, Japanese, Korean, Bulgarian, Hebrew, Czech, Swedish, Arabic, Czech and other languages, with cloud servers in Ali cloud and Amazon cloud. The app can be downloaded from AppStore or "App Store", or you can scan the QR code to download.

1.TTLock APP

Download QR Code



Interface



⑪ Companion App

2.TTRenting

Download QR Code



Interface



3.Sciener

Download QR Code



4.TTLock Hotel (hotel.sciener.com)



12 Open Platform Interface

TTLock open platform provides OpenAPI to realize the docking with business management system and realize the functions related to door lock management such as correlation between housing and door lock, sending electronic key, sending password and viewing unlocking records.

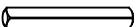
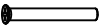
Module	Interface	Description
Account Management	Sign up	Sign up for a TTLock account
	Login	Login to TTLock System
	Obtain user information	Get the user's avatar, nickname and other account information
Door Lock Management	Get a list of door locks	Get a list of the locks managed by the user
	Binding Administrator	Add door lock and set administrator
	Unbinding Administrator	Unbind the administrator from the door lock
	Get door lock status	Get the door lock on/off and power status
eKey Management	Send eKey	Send eKeys to users
	Get the list of eKeys	Get a list of ekeys for a door lock or user
	Delete eKeys	Undo sent eKeys
	Freeze eKey	Temporarily disable the eKey
	Defrost eKey	Restore the validity of frozen eKeys
	Unlock records	Obtain unlock records of door locks using electronic keys
Password Management	Send password	Generate passwords in different ways according to the door lock version, and send SMS to notify the recipient of the password validity: Permanent, Timed, One-time
	Password record	Get password sending records

12 APP SDK

TTLock provides SDKs for iOS and Android versions to facilitate customization of the APP and integration of door lock operation functions. the main interfaces of

Module	Interface	Description
Initialization and authorization	Initialization	Initializing the interface instance
	Authorization	Performing authorized operations
BLE communication	Activate Bluetooth	Activate Bluetooth for cell phones
	Search for devices	Search for nearby Bluetooth devices
	Stop scanning	Stop scanning for nearby Bluetooth devices
	Connecting Devices	Connecting Bluetooth devices
	Disconnection	Disconnect the Bluetooth connection
	Get the lock version	Get the version information of the lock
	Add Administrator	Add admin information on the lock
	Administrator lockout	Administrator unlocking command
	eKey sending	eKey unlocking command for general users
	Set administrator password	Set the keypad password used by the administrator to the lock
	Calibrated clocks	Standard time is used to align the lock's clock
Callback Methods	Authorization Callback	
	Discovery Device Callback	
	Connecting device callbacks	
	Disconnect callback	
	Get lock version callback	
	Add administrator success callback	
	Unlock success callback	
	Set admin password success callback	
	Successful retracement of the clock on time	
	Error callbacks	

13 Accessory List

Number	Picture	Accessory	Quantities	Note
1		Mortise	1 PCS	
2		Strike Box	1 PCS	
3		Strike Plate	1 PCS	
4		Keys	2 PCS	
5		IC Card	2 PCS	
6		8X8X75mm Spindle	1 PCS	Cut off when the door thickness is between 35-45mm To 65mm long for normal installation.
7		M5X30mm cross slot Countersunk head screws	2 PCS	Between 35-45mm door thickness
8		M5X40mm cross slot Countersunk head screws	2 PCS	Between 45 (including) -55mm door thickness
9		M5X30mm Threaded stud	2 PCS	
10		Spring	1 PCS	The larger diameter end faces inward into the square hole of the rear handle

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.

FCC Radiation Exposure statement

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