KEYSON

E320T
User manual

1 Instructions for use and product drawings

Instructions for Use

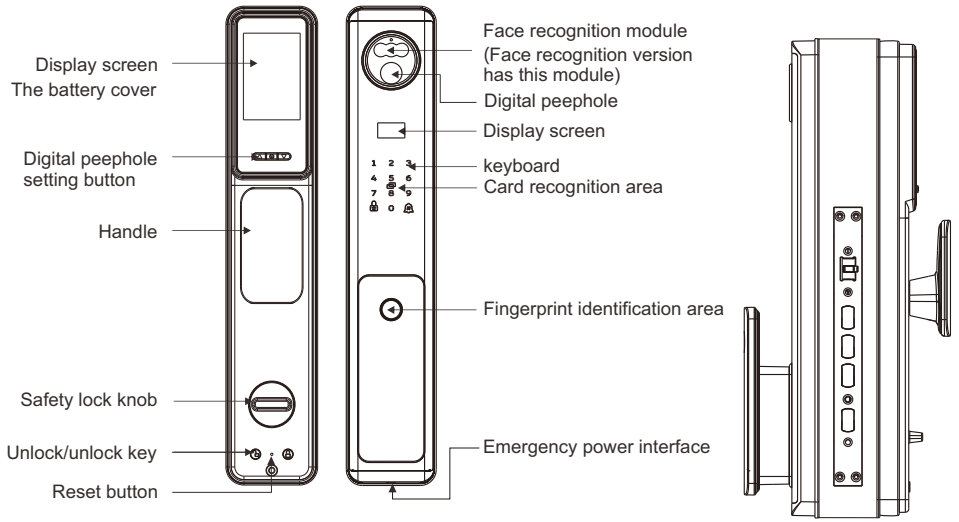
Dear users, hello! Thank you for using the intelligent lock. Please check the product list carefully before installing and using the product, read the installation instructions and install the product according to the installation instructions. If you fail to install the product according to the installation instructions, our company will not be liable for any direct or indirect product problems and other damages and losses.

Note: Read and set the corresponding functions according to the specific product model.

1. In case of low voltage alarm, please charge the battery in time or replace the same type of battery (note that the positive and negative are "+--+")Install to ensure the normal use of the lock.
2. Please carry the key with you for long-term using or emergency. Do not keep it indoors.
3. Battery charging requirement: 5V ⎓ 2A

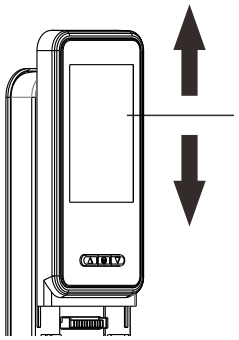
Product figure

(The appearance of different models is different from this figure)



1 Instructions for use and product drawings

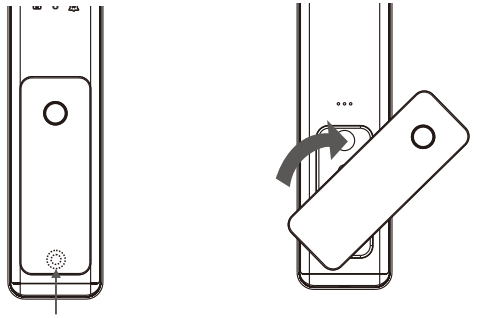
Battery case removal



Remove Please push the battery case upward

To install, please insert the battery box downward

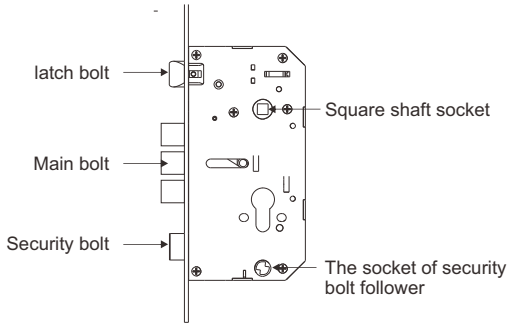
Key unlock



Please press the button below the front handle

Rotate the front handle until the lock is exposed

Standard lock case (Single bolt triple security lock case)

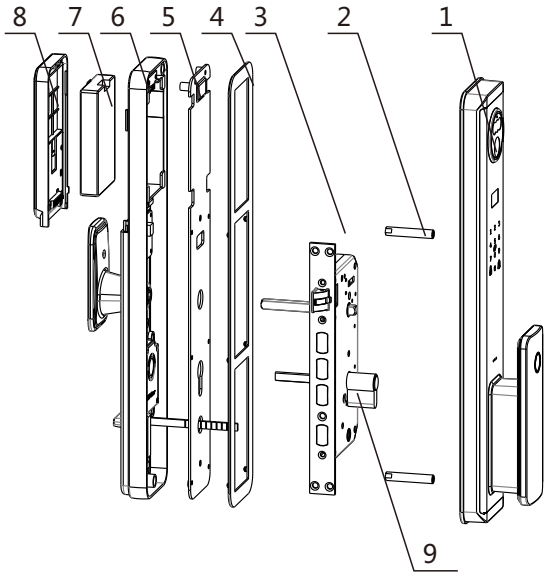


Note: Installation instructions using pictures for reference only, products in kind prevail.

2 Product list / Installation explosive diagram

Please check carefully according to the following list after unpacking the package.
If you find any missing, please ask us or the agent in time.

	Name	Quantity	For note
1	Outer panel (including silicone pad)	1	
2	Rear panel (including silicone pad)	1	
3	Installation kit	1	
4	User manual	1	
5	Certificate of approval	1	
6	Product warranty	1	
7	Lock core package	1	Including keyx2, lock corex1
8	The lithium battery	1	
9	Template (for trepanning)	1	
10	Fixing plate for rear panel	1	



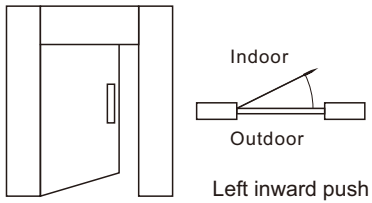
1.Outer panel
2.Screw tubes (2 PCS)
3.The standard lock case
4.Silicone pad for rear panel
5.Baseplate for rear panel
6.Rear panel
7.The lithium battery
8.Battery cover with screen
9.Lock cylinder

3 Notice before Installation

3.1 Please confirm the type of Openning door before installation.

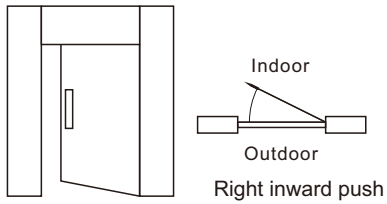
The smart lock can be applied to four types of open doors: left pull, left push, right pull, right push.

Left open the door



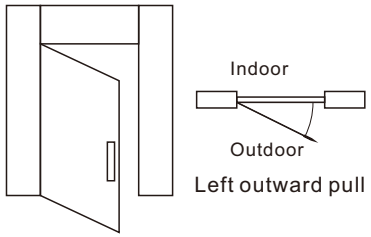
Left inward push

Right open the door



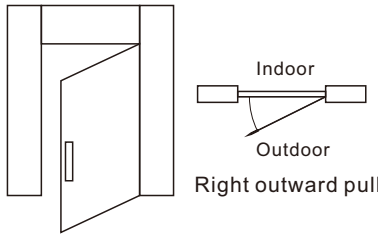
Right inward push

Left open the door



Left outward pull

Right open the door



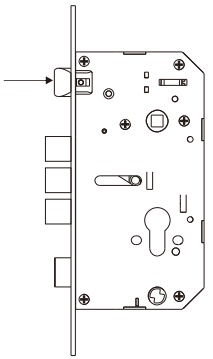
Right outward pull

3.2 According to the type of door

Users can change the direction of the latch bolt.

Press the latch bolt to the bottom and rotate the oblique tongue to reverse direction

Change the oblique tongue direction of lock body according to internal and external door opening requirements.



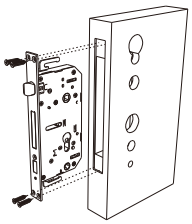
⚠ Notice

1. Select accessories of different specifications according to the thickness of the door.
2. The default accessories package is suitable for doors 40 to 120 mm thick.
If it is of other specifications, please contact us.

4 Installation steps

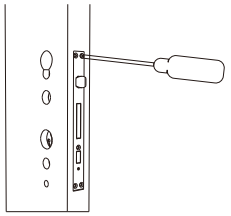
4.1

Open the holes on the door according to the template, and put the lock body into the door frame



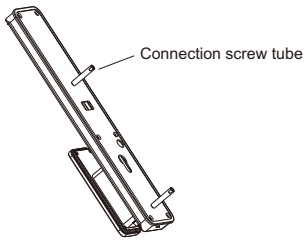
4.2

Screw the four screws on the locking body.



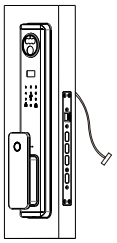
4.3

Install connecting screw tubes on the outer panel



4.4

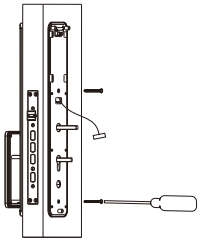
Run the connecting wire through the hole which is above the door. Accroding to the position of the lock body, insert the outer panel on the door.



4.5

Insert the square shaft into the square shaft socket of the lock body, insert the lock core into the lock core hole of the lock body and tighten the lock core at the guide plate with the M5*70 cross groove countersunk head screw

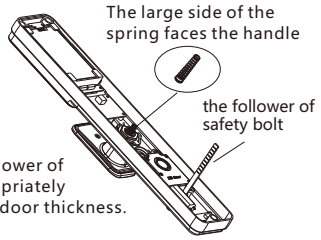
Note: Trim square shaft appropriately according to door thickness.
The rotating rod on the lock core is appropriately trimmed according to the thickness of the door



4.6

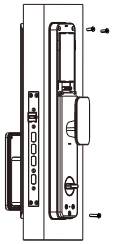
Place spring on rear panel

Note: Cut the follower of safety bolt appropriately according to the door thickness.



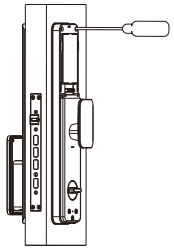
4.7

Insert the outer plate connecting line and motor line into the corresponding socket of the inner panel, insert the handle hole of the inner panel into the square shaft, and the inner panel is close to the inner surface of the door.



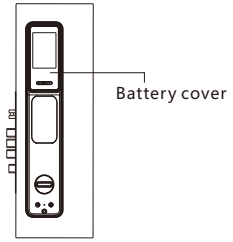
4.8

Tighten the three holding screws.



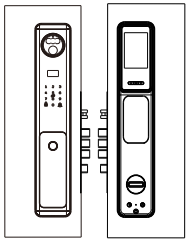
4.9

Install the battery, cover the battery cover, and install the side gusset. The smart lock is installed.



4.10

Check whether all parts are properly connected.



5 Product specifications

Capacity	User capacity	100 sets (including password / card / fingerprint)
Fingerprint	Detection time	< 1s
	False Acceptance Rate (FAR)	< 0.001%
	False Rejection Rate (FRR)	< 1%
Password	Normal password bit	6~9
	Phantom password	12
Card	Card type	13.56MHz Compliance with IOS/IEC14443(e.g. M1 card)
Display screen (optional)	OLED screen size	26.70*19.26*1.45 (mm)
	OLED display pixel	128*64
Voice	Speaker power	0.5W
Electrical characteristics	Working voltage	8.4 V lithium battery
	Static minimum power consumption	< 60uA
	Maximum operating current	350mA (excluding motor) Motor current maximum range 6.5a
	Motor drive voltage	5V-8.4V
	Low power alarm	Lower than 6.75 V
Work environment	Temperature	-25℃~55℃
	Humidity	< 85%RH (without condensation)
Reliability	Electrostatic Discharge(ESD)	Contact + 8 kv; Non-contact plus or minus 15 kv
	Pre-delivery aging test	4H
	Temperature cycle test	PASS
	Safety test	PASS
	Tesla coil test	PASS

6 System functions and introduction

6.1 Initial state

Factory management password 1 2 3 4 5 6 ➡ Open the door

1) The initial administrator password is 123456. Any face can unlock (face);
2) In the initial state, you need to enter the system menu through the administrator password to add a user to open the door normally.
Note: 123456 is the default administrator password. After an administrator is registered, the password is automatically invalid. You need to verify the fingerprint or password of the registered administrator when accessing the system menu next time.

6.2 Operating conditions

- **System menu:** after waking up, press the " *# " button to verify the administrator user, and enter the system menu, support fingerprint/password authentication, do not support the card to enter the system menu; ---- Administrator
- **Open the door:** swipe card/input password/fingerprint/face will normally open the door, do not enter the system menu. Administrator/common user;
- **System navigation button:** The system will broadcast the corresponding voice content, by selecting the number to enter the corresponding function Settings.
- **Doorbell button:** press the "doorbell symbol button" on the main interface of the system to trigger the doorbell;

6.3 Lockpick user management and information overview

(1) User information includes: Each ID number corresponds to one user information, including user fingerprint, user password, and user swipe card. The user ID number corresponds to the user permission level information. The number of face user information is 20 by default (it can be expanded based on face module).
(2) The user rights are divided into 9 administrator users, corresponding to id001-ID009; Common users (291), corresponding to ID010-300. Ordinary users can not carry out relevant Settings, can only verify the identity to open the door; In addition to verifying the door opening, the administrator can also enter the

6 System functions and introduction

system configuration menu.
(3) User information can be created and deleted; You cannot delete the information about the currently logged administrator.
(4) The number of lock-opening users is 300, and the number of lock-opening record information is 512. This is the lock-opening log stored locally by the door lock, while the number of cloud lock-opening log is not limited.Note: The password cannot be re-set. That is, the password previously set by user A cannot be re-used by user B.

6.4 Face unlock (optional)

(1) Face users can be used as administrator users, when adding, press # confirm to enter face users.
(2) The default number of users is 20, according to different face modules, face users can be up to 100.
(3) face user unlock failure 5 times, will lock the human body induction wake up for 2 minutes, the screen prompt radar has locked, display the current lock countdown, prompt face has locked.

6.5 Password unlock

(1) The valid password bit is no less than 6 digits and no more than 9 digits. Two management level passwords, including administrator password and common user password.
(2) Support virtual password, input password is not more than 12 characters, there is continuous password information in it, you can unlock.
(3) If the password is entered incorrectly for more than 5 times, the door lock will enter the locked state for 180s.

6.6 Fingerprint unlock

(1) Touch the contact surface of the fingerprint head with the input finger to unlock it;
(2) More than 5 consecutive fingerprint errors, the door lock reported alarm information to trigger the alarm.

6 System functions and introduction

6.7 Card unlock

(1) Use the input NFC card to unlock;

(2) The card swipe and fingerprint are similarly bound to the user, and the user ID can be identified and reported;

(3) Response time within 1s.

6.8 Other opening/closing methods

(1) **Rear lock:** based on the structure, there will be an independent quick switch lock key;

(2) **Sleep:** front panel * button touch button lock, out after closing the door, press the touch button lock;

6.9 Remote dynamic password (small program unlock)

No gateway version: users can unlock the lock by generating a temporary password through wechat mini program; **Please note: this function must ensure that the current lock time is correct.**

6.10 Language volume setting

To switch system language (Chinese /English) here; Voice prompt volume adjustment, can set high, middle and low volume, can choose "mute"; Note: In silent mode, doorbells will be disabled at the same time. Mute button Some models can be triggered by an independent button.

6.10 Time setting

Year/month/day/hour/minute/The default time is factory time. Set year/month/day/hour/minute/by keyboard.

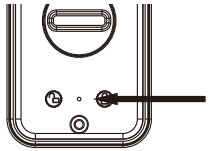
Time format: 00:00, 01 January 2020

Note: Incorrect time Settings will affect the normal use of remote authorization/applets.

6 System functions and introduction

6.12 System initialization

It can be operated from the system menu or hold down the reset button for **5s** at the same time (some structures do not have the reset button, and hold down the switch lock button to reset). The system prompts you to confirm the initialization for two times: it is used to delete all user information and



Hold down reset for 5 seconds to initialize the system

6.13 Other instructions

Power control function
Real-time electric quantity detection and display every time open the door, battery slot 5, when the electric quantity is lower than 10-20% on the screen to remind the user.

Automatic power-on detection
After the system is powered on, it automatically checks some key electronic parts.

Voice navigation
A simplified voice navigation prompt is displayed when the system enters the menu.

System lock
The system will be locked for 180s if the fingerprint/password/card verification fails for five consecutive times. (The identification range of continuous input time is also 180s)

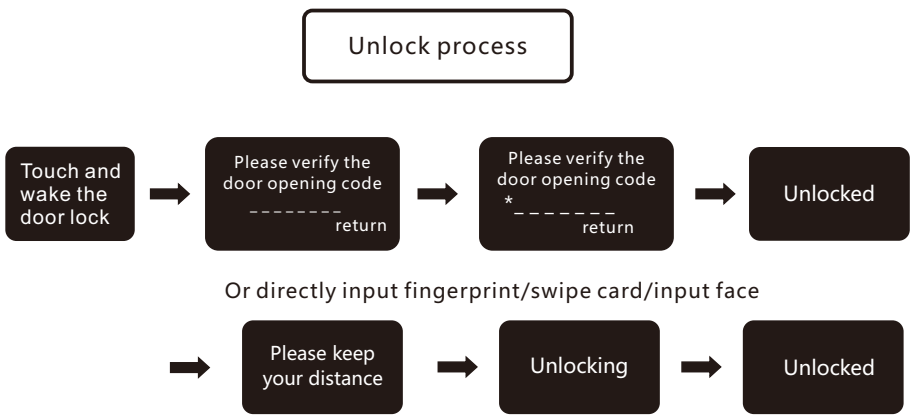
Quick function
Engineering mode: When the door lock is in the factory state, you can press "888#" to enter the engineering mode and set the related engineering Settings of the door lock matching:
(1) **Door opening direction:** After entering "Engineering Mode", press "1" to switch the matching door opening direction: left and right; Default right open;
(2) **Reverse time:** after entering the "Engineering mode", press "2" to select the motor rotation time of "100-900ms" for each return to the small lock tongue, and step once every 50ms. The default 400 ms.
(3) **Motor torque:** after entering "Engineering Mode", press "3" to select motor torque according to the lock shape number: "Low", "medium" and "high" default low.
(4) **NFC device unlocking/card replicable :**(unlocking NFC devices with permissions is supported.) press "4" to enable or disable this function according to user needs (this function can only be used in the initial state).Cat's eye production test: the door lock can press "777 #" to enter cat's eye for quick access to the network, hot spot name: upgrade-AP, password: TEST1234.Quick query of version number: Directly enter "666 #" to directly query the version information of the current door lock.

7 Door lock operation instructions

7.1 System wake up

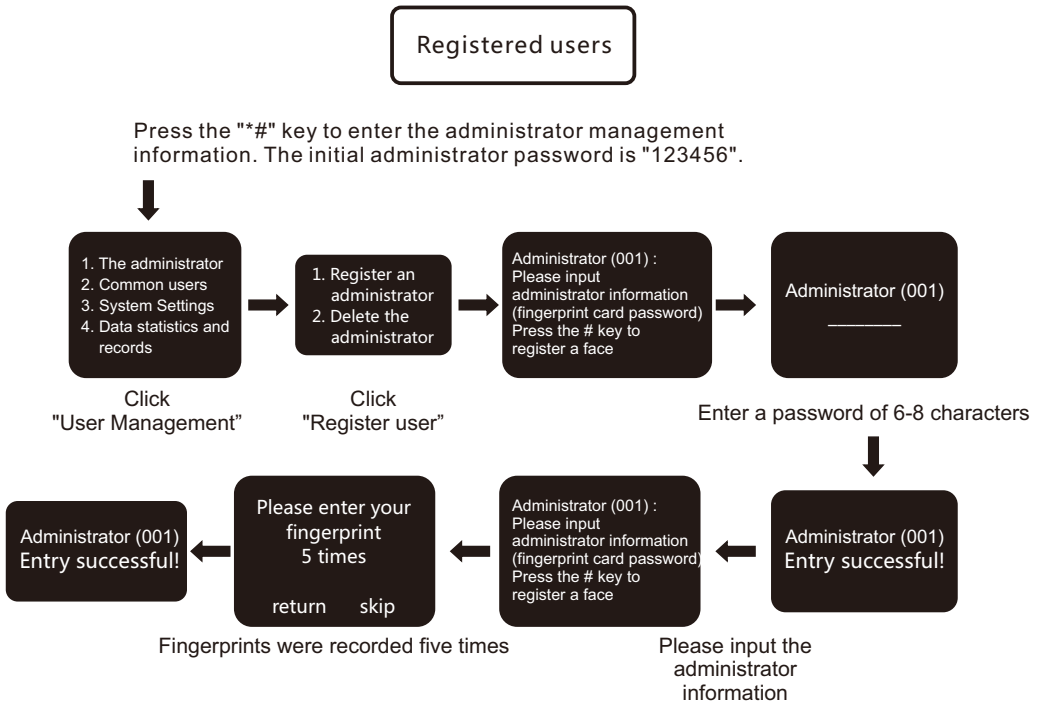
(1) **Wake up mode:** press any key or fingerprint on the touch panel to wake up the door lock, and face lock radar can wake up with body sense;
(2) **Wake up time:** when set in the menu, the time between last touch and standby sleep state is 15 seconds;
(3) **Multiple input protection:** continuous input fingerprint or password (including authorization password) error more than five times, the electronic part of the door lock self-lock 180s;
(4) **Locking tongue rebound:** the lock can be opened after successful verification, and the default lock is returned in 2s, that is, the small locking tongue is returned in 2s after opening the lock; You can set the lock back time in the system menu. The value ranges from 1 to 9 seconds.
(5) **Delay lock:** after unlocking, the lock will be automatically closed after a certain time delay; You can set the delay on the system menu. The delay ranges from 5s, 10s, 15s, and 20s. The delay is disabled by default.

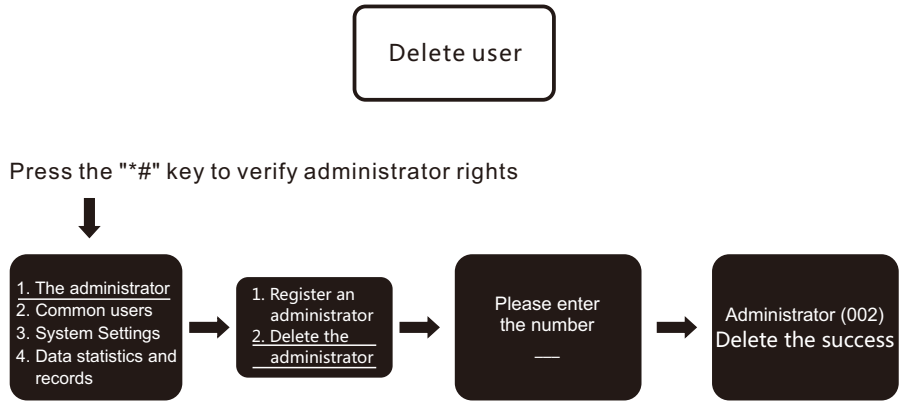
7.2 Verify the lock



After authenticating as an administrator, you can enter the user administration Settings. User management Settings are divided into administrator and common user rights. For the above functions, you can add or delete a user's fingerprint, password, card, and face as prompted. (Note: the screen-free version only broadcasts voice, relying on voice to guide users to operate)

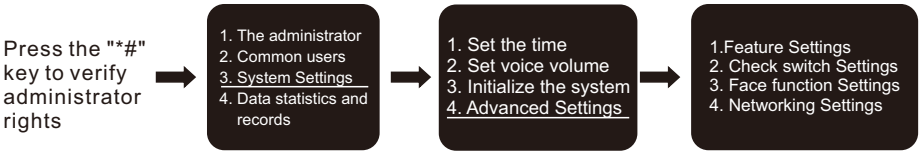
7 Door lock operation instructions





7 Door lock operation instructions

7.4 Advanced Settings



After authenticating your identity as an administrator, you can enter the system management Settings, including time Settings, volume Settings, normally on Settings, factory default Settings, and remote authorization functions.

7.4.1 Lock unlocking function setting

(1) **Lockback time:** Enter < door opening function Setting > and press "1" to select the lockback time to be set, ranging from 1-9s;
(2) **Delay lock:** After entering < Door opening Function Setting >, press "2" to select the delay lock time to be set. The range is "Off", "5S", "10S", "15S", "20S".
(3) **Anti-skid switch:** can open/close the anti-skid switch function
(4) **Verification mode:** can set single/combination/normally open three modes, choose to open normally open mode, then the user can use any fingerprint and password information can open the door lock.

7.4.2 Detection switch setting

(1) Detection switch: can open/close detection switch, default to follow the face recognition module to do adaptive menu.
(2) Detection distance: the default high grade, the distance is far, the preset low grade adjustable, the distance is close.
(3) Stay detection: it is added based on the requirements of different schemes, and some models do not support it, which is a customized function.

7.4.3 Face function setting (optional)

System Settings → Advanced Settings → face function Settings, can open/close face function, can open/close face detection sound.

7 Door lock operation instructions

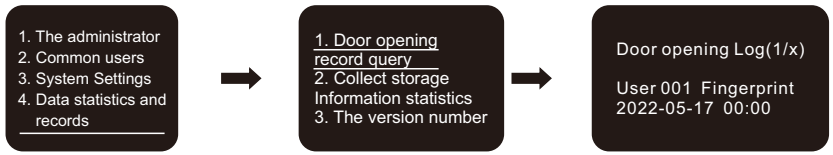
7.4.4 Network Settings

For the board type with networking/cat eye function, the WIFi icon will be displayed on the welcome page, and you can choose the door lock to enter the network and exit the network.

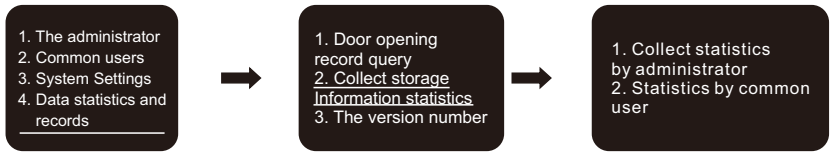
7.5 Data statistics and records

This function is used to query door opening records, storage information, and version numbers. Records are displayed in chronological order. A maximum of 512 groups of information can be displayed.

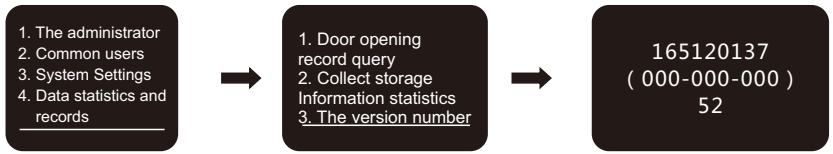
7.5.1 Open door record query (2, 8 keys up and down page)



7.5.2 Storage information statistics (By administrator and common user)



7.5.3 Version number (you can query the manufacturer code and connected peripheral information)



8 TUYA APP networking (optional)

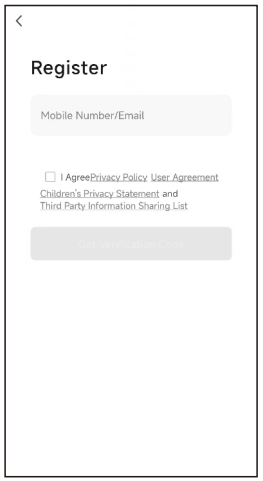
8.1 Download TUYA APP

Search for "Doodle Smart" in the
Apple App Store or android market and download the App

GET IT ON Android

Download on the App Store

8.2 Registered account

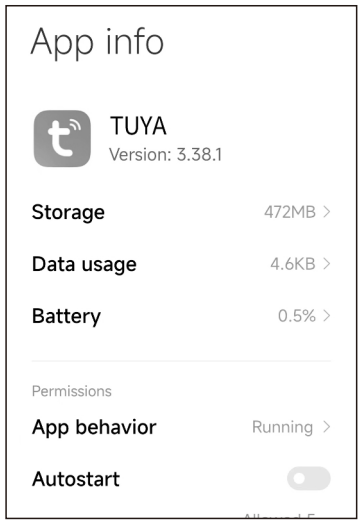


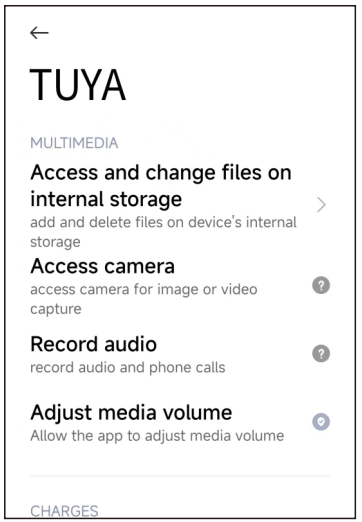
8 TUYA APP networking (optional)

1. Click "Register", the privacy policy page of The Doodle Smart platform will pop up. After reading and agreeing, the account registration page will be entered.

2. You can register by email or mobile phone number. The country/region will follow the setting of the mobile phone system, or you can manually change the country/region (the country/region cannot be changed after the registration is completed). After entering your mobile phone number or email address, click Obtain verification code.

3. After entering the received verification code, the page will jump to the password setting page. After setting the password according to the instructions below, click "Finish" to complete the registration (wIFF and Bluetooth must be enabled during operation).





Open the application permissions, skip to the second image, permissions are all designed to allow

8 TUYA APP networking (optional)

8.3 Add equipment

1.Click "Security Monitoring" on the left to jump to interface 3. Click "door lock WIFF" to adjust interface 4. Input family WIFF and password to jump to interface 5.

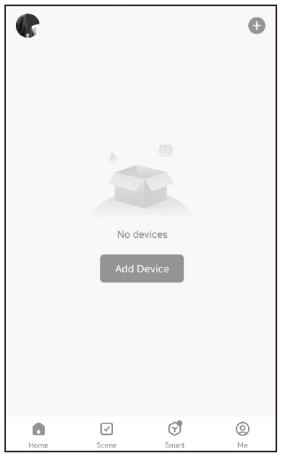


Figure 1

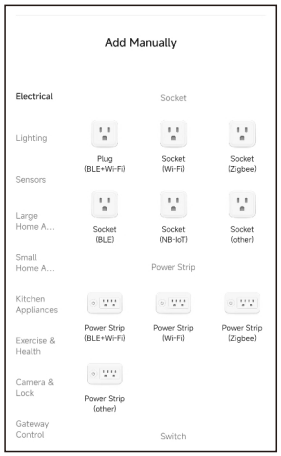


Figure 2

Figure 3

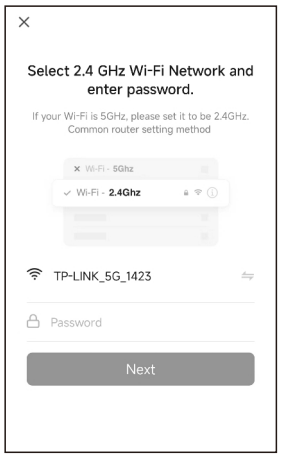


Figure 4

Figure 5

8 TUYA APP networking (optional)

2. Connect it to jump to the interface as shown in the first. At this time, click the number 7 in the lock system Settings (how to enter the system is explained above) to enter the cat's eye network, click the # key to confirm, and click 1 to enter the network.
Click the first page to connect, jump to the next interface, click the second page, at this time put the mobile phone 10-20cm away from the lock, wait for the system to automatically connect (the connection time depends on the Internet speed at home), after connecting, automatically jump to the fourth interface, click the upper right corner to finish.

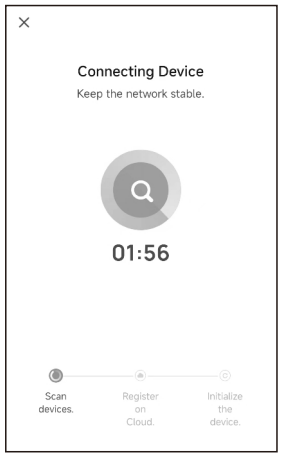


Figure 6

Figure 7

9 Warranty card

Warranty
1. One year free warranty since the date of purchase. If the warranty card and valid purchase certificate cannot be provided, or the purchase certificate has been tampered with, the warranty period shall start three months from the date of production of the airframe.
2. During the warranty period, under the condition of normal use according to the operation manual, the product defects (determined by the company's official staff); Repairs are made free of charge.
3. During the warranty period, the following conditions will not be repaired free of charge:
● Artificial damage caused by improper use, such as improper parts, improper installation, failure to use in accordance with the instructions, misuse or negligence caused by damage, etc. Damage caused by transportation and other accidents. Repair and modification not approved by the company. Other damage caused by force majeure (such as natural disaster, abnormal voltage, etc.).
● Normal use of the product caused by aging, wear and tear, but does not affect the ormal use of the product.
4.The appearance of the product is damaged by artificial scratches, fragile and onsumable products and not within the scope of warranty, such as batteries.

Product model
Activation code
Dealer name
Purchase date
User name
Address of the user
Phone
Invoice no.
You phone