3D face recognition visual

Stainless Steel Smart Door Lock

Operating instructions(V2.0)

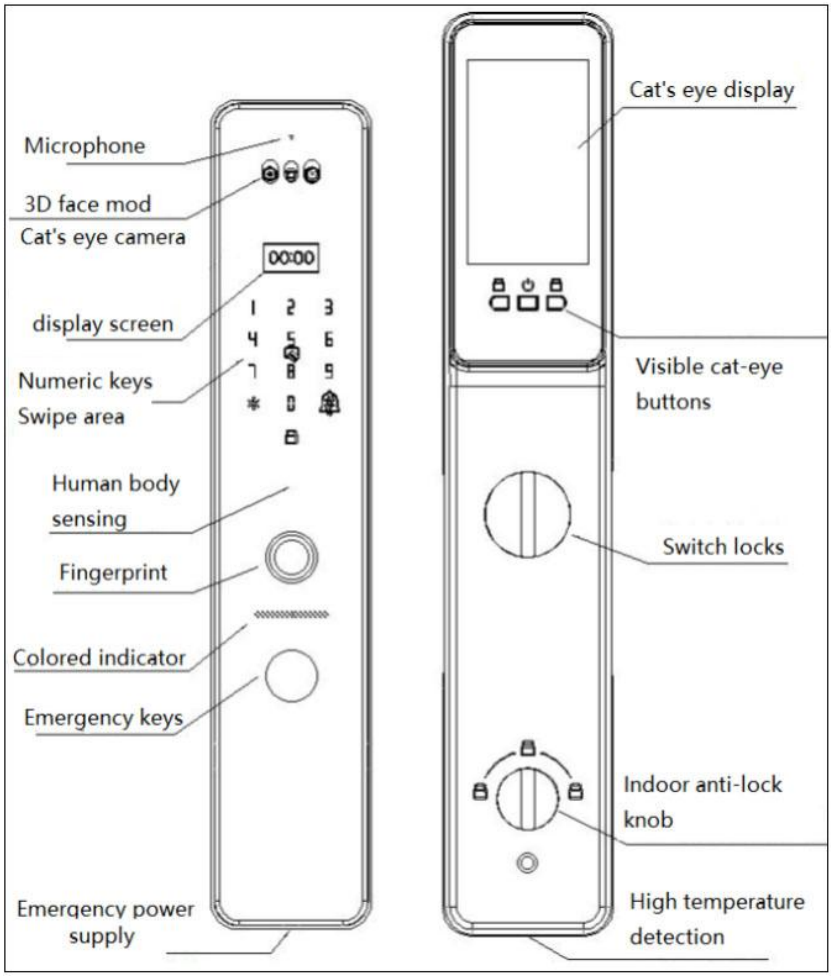
- ✓ **Supports radar human body sensing, 3D face (palm vein) contactless unlocking**
- ✓ **Supports face recognition in low-light and strong light conditions**
- ✓ **Supports fingerprint, card, password, WeChat mini-program, and remote unlocking**
- ✓ **Supports emergency mechanical key unlocking**
- ✓ **Supports remote control unlocking (optional accessory)**
- ✓ **Built-in doorbell and peephole camera with active intercom and loitering capture**
- ✓ **Supports real-time monitoring for checking outside the door anytime**
- ✓ **Supports fire prevention function (when temperature around the interior panel exceeds 68°C, the lock triggers an alarm and sends an app notification; during alarm, any fingerprint, card, or password can unlock the door)**
- ✓ **Captured videos are stored in the cloud**
- ✓ **Made of SUS304 stainless steel with a hidden handle**
- ✓ **Supports quick indoor unlocking**
- ✓ **Supports combined unlocking methods**
- ✓ **Supports anti-peeping function with dummy passwords**
- ✓ **Supports low battery, tampering, and incorrect attempt alarms**
- ✓ **Supports emergency power interface (Type-C)**

★ Note: Please store the mechanical key in a safe place outdoors. Read the manual carefully before installation.

Technical parameters

Power supply	**7.4 V lithium battery**
Typical quiescent current	**<150 μA (200 μA with Active Viewing ≤ on)**
Average operating current	**<2 A**
Number of users	**300 groups (9 admin groups, 291 general user groups)**
Face capacity	**≤100 sets(Including Users with palmar veins)**
Fingerprint capacity	**≤ 100 sets**
IC cards capacity	**≤ 300 sets**
Password capacity	**≤ 300 sets**
Fast unlock time	**≤0.8 seconds**
Face recognition distance	**0.3~1.2 meters**
Palm vein recognition distance	**0.1~0.3 meters**
Operating temperature	**-10 °C~60°C**
Relative humidity	**20 %~93%**

Product Specification



Functions & Operations

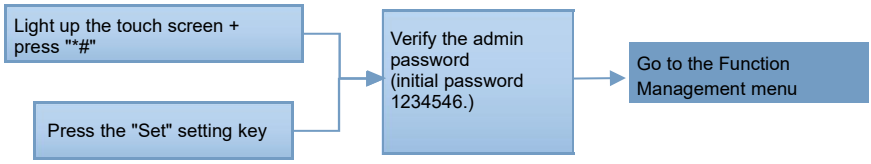
1. Initial state

The factory management password is "123456", and the door can be opened.
In the initial state, the human body sensor will automatically turn on, and any face can be unlocked.

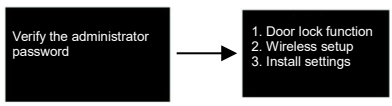
2. General Principles of Operation

***+ # key to enter the door lock function management menu.**
The # key is the confirmation key or the function key to enter the menu.
*** The key is the clear key/back key. Short press to clear the input when entering the password.**

3. Access door lock function management

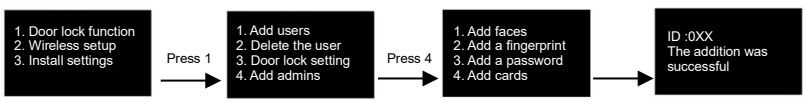


In the initial state, after lighting up the touch screen, press "*+#" or directly press the back panel "Set" setting key prompt to verify the management password. Enter the initial password "123456" to access the door lock function management. After entering the menu, you can access the voice broadcast options: "1. Door lock function 2. Wireless setting 3. Installation Settings". The menu is displayed as follows:



4. Add administrators

When you use it for the first time, you need to add an administrator first.
To add an administrator, you can add faces(Palm vein), cards, passwords, and fingerprints, and then press the display and voice prompts to select the type you want to add.



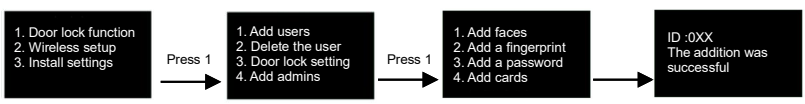
Voice broadcast: "1. Add face 2. Add fingerprint 3. Add password 4. Add card"

Note:

Note: IDs are added automatically in sequential order. Passwords must be 6 to 12 digits long. The total number of administrator users is limited to 9.

5. Add users

Users can add faces(Palm vein), cards, passwords, and fingerprints. After entering the function, they should press the display and follow the voice prompts to select the type they want to add.



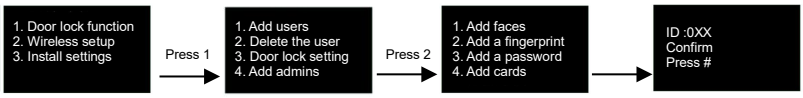
Voice broadcast: "1. Add face 2. Add fingerprint 3. Add password 4. Add card"

Note: When adding, the ID will be automatically added from "Id: 10" in order, and the number of digits of the password is 6 to 12 digits.

6. Delete of Users

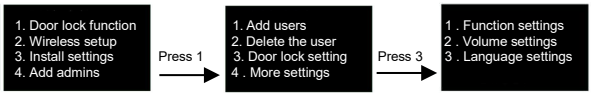
Deleting user information can be done using face(Palm vein), fingerprint, card, or password. After entering the function, follow the display and voice prompts. The screen will display: "Please enter the number to be deleted." Voicemail will also prompt: "Please enter the number to be deleted." Once you have entered the number to be deleted, press the # key to confirm the deletion.

Note: The system is initialized when the deletion ID is entered as the "999" number. When you enter the delete "000" number, all normal users are deleted.



7. Door lock setting

After entering the function, press the display and voice prompts to operate. The screen displays: "1. Function Settings, 2. Volume Adjustment, 3. Language Settings, 4. More Settings".



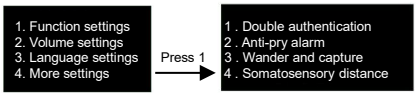
Voice broadcast: "1.Function setting 2.Volume settings 3.Language setting 4.More settings"

(1) Function settings

In the function settings, you can choose to turn on or off the function according to the corresponding number (note: the sensing distance level is divided into: the minimum setting is off, the maximum setting is 10, each click is accumulated, and after setting 10, click again to turn it off). Press the "#" key to repeat the voice.

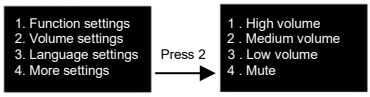
Voice Broadcast:

1. **Turn on two-factor authentication (or turn it off)**
2. **Turn on anti-prying (or turn it off)**
3. **Enable or disable hovering capture function**
4. **Adjust somatosensory distance**



(2) Volume Setting

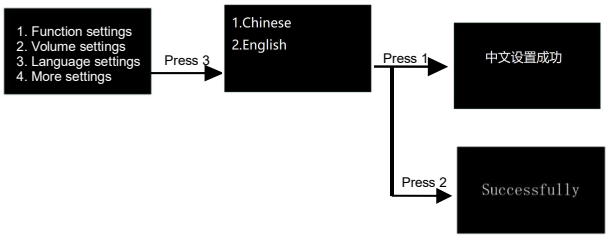
Volume adjustment can adjust the voice volume of the door lock. After entering the interface, press "Prompt" to select the button for adjustment, and the volume will increase or decrease accordingly. Press the "#" key to repeat the speech.



Voice broadcast: "1. High volume 2 Medium volume 3. Low volume 4. Mute"

(3) Language settings

The language setting can adjust the lock broadcast language and text display line of the door, and after entering the interface, select button 1 or button 2 according to the prompts to adjust the Chinese
mode or English mode. Press the "#" key to repeat the voice.



Voice broadcast: "1. Chinese 2. English"

Just enter the numbers below and press‘ #’ key to switch your Language

Multi-Language switching code :

English 555666880# Chinese 555666888# Viet Nam 555666881#

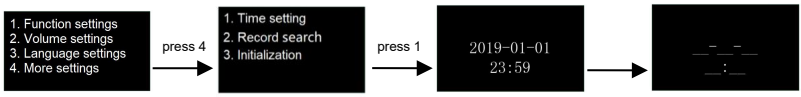
Portugal 555666882# Arabic 555666883# Russian 555666884#

Thailand 555666885# Spain 555666886# Indonesian 555666887#

(4) Time setting

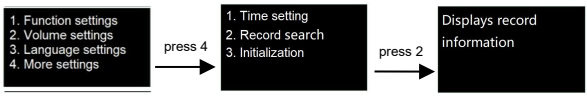
The time setting can adjust the time of the door lock system. After entering the interface, the door lock first displays the current time, and then enters the time setting interface after completion. Then, it prompts the user to enter the year, month, day, hour, and minute according to the display

and voice prompt buttons. Each input needs to be confirmed by pressing the # key until it is completed. After a successful completion, the voice will prompt "operation success".



(5) Record inquiry

Log query is mainly used to query door lock logs, and the log records include unlocking events, adding, deleting, and modifying user events.

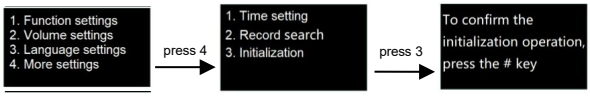


Note: The total number of records stored is 500, numbered from 001 to 500, and after the number of records reaches 500, the new records will overwrite the old records one by one.
Press the number key: '5'. Toggle to show the previous record, 8. Toggle to show the next record"

(6) Initialization

Used to restore the lock to the initialized state and set the administrator password to 123456.

Press the number key: "* key to cancel, # key to confirm."



8 . Wireless settings (pairing network devices and remote controls)

(1) Add network (or add remote control) After successfully verifying the administrator information, enter the door lock function management, press the button to select 1, and enter the add network interface, you can network the operation (or add remote control).

Voice announcement: "1. Add network 2 Delete network"



(2) Delete the network (or remote control)

Press the button to select 2, enter the delete network, and wait for the deletion.



Voice announcement: "1. Pair the wireless device 2 Delete the wireless device"

Remote Control Configuration Description (Optional):

Note: To add the remote control, you need to operate before the smart lock is networked, and you need to remove the cat's eye screen of the inner panel when adding.

Remote Control Additions:

1. **Press the '*#' button on the door lock to verify the administrator and enter the menu. Select "2 wireless settings" - "1. Add network". The system will prompt that the network is pairing.**

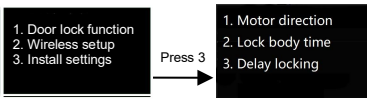
2. **Press the unlock button of the remote control. Later, the system will prompt "Network added successfully". Press the * button to exit the menu and complete the addition of the remote control.**

Removal of the remote control:

Press the '*#' key on the door lock to verify the administrator, enter the menu, select "1.Wireless Settings" - "2.Delete Device", and the system prompts that the deletion is successful.

9 . Install the settings menu.

Note: The normal installation settings are used during installation and debugging. Please operate with caution.

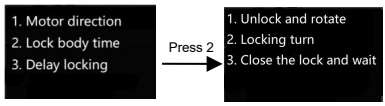


1） Motor steering

Press 3 to enter "Installation Settings", select "Motor Direction", and set the forward and reverse rotation of the motor to adapt to the needs of opening doors in different directions. After setting, the system will unlock once to confirm the direction of rotation. If the setting is unlocked, the direction is normal.

2） Lock time

(1) , unlocking rotation (2), locking rotation

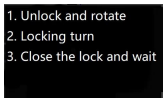


The rotation time of the motor when unlocking or closing can be selected according to the requirements of the lock body. (Note: The unit of reversal time is 0.1 seconds, the default unlocking rotation is 0.3s, and the default locking rotation is 0.4s). The time is set to correspond to the numeric buttons, e.g. pressing "1" for 0.1 seconds and "2" for 0.2 seconds; In addition to the number "0", select the desired time from "1 - 9", i.e. 0.1 to 0.9 seconds.

3) Close the lock and wait

The waiting time for closing the lock is the waiting time between unlocking and the reversal of the slanted tongue, the default waiting time is 3 seconds, and the range is 3-9 seconds.

3 . Delay locking



After the delay locking is enabled, it will be automatically locked according to the set time after each unlocking, ranging from 10-30 seconds.

10 . Restore factory settings

Method 1: Press and hold the unlock and close buttons on the cat's eye screen on the rear panel for 5 seconds at the same time, prompting "Initial
Initiation operation, confirm, please press #", press '#', the system will enter the state of factory reset, all unlocking information and records will be cleared, after success, the initial password is 123456 (for administrator verification).

Method 2: After passing the administrator verification, perform a factory reset in the system menu.

12 . Other Notes

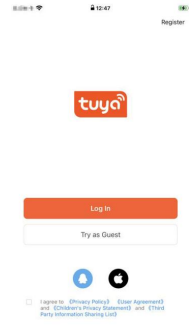
· Anti-Peeping Password Function:When unlocking with a password, enter it as follows: XXX password XXX—you can add irrelevant digits before and after the actual password, then press # to confirm. The password must be included within the entered sequence.
· Automatic Timeout:If no operation is performed for more than 20 seconds, the system will automatically exit.
· Low Voltage Alert:When the voltage drops below 6.9V, the lock will sound an alarm after each unlocking. Please recharge or replace the battery promptly after the alarm is triggered.
· Human Body Sensing:After each unlocking, the sensor will delay restarting for 10 seconds to prevent accidental activation when exiting.
· Loitering Capture:If the lock detects someone lingering unusually in front of the door, it will capture a 5second video and push it to the mobile phone.
· Wrong Attempt Alarm:If incorrect passwords are entered more than 5 times within 5 minutes, the keypad will lock for 90 seconds. During this period, the system will not respond to any operations, and the lock will capture a 5-second video and send it to the phone. This lockout can be cleared by an administrator via the rear panel settings button.
· Tamper Alarm & Capture:If the lock is tampered with or damaged, it will sound an alarm, capture a 5second video, and push it to the mobile phone.
· Human Sensing Auto-Trigger Limit: If the human sensor is triggered 15 consecutive times without detecting a face or an unlocking action (each time timing out), the system will temporarily disable the sensor for 2 hours (during which the loitering capture function will be suspended). It will reactivate after 2 hours or after the next manual operation. This prevents frequent false activation in high-traffic areas from draining the battery.
· Fire Prevention Function:When the lock detects that the temperature around the interior panel exceeds 68°C, it will announce "Fire Alarm" and push a high-temperature alert notification via the app. During the alarm, any fingerprint, card, or password can unlock the door (remote unlocking via the app is also available) to handle emergencies. When the temperature drops below 68°C, the alarm will automatically stop and normal operation will resume.
Note: The fire prevention function is enabled by default. In factory settings:Enter 6668887700# to disable the high-temperature alarm.Enter 6668887711# to enable the high-temperature alarm.
· Press "00#" to hear the current system version announced by voice.
· Press "99#" to hear the current time announced by voice.
· In initial state, press "888#" to quickly enter the installation settings menu, making it convenient to adjust the motor direction.
· During lock installation, the lock cylinder rod must not press against the lock faceplate (after installing the cylinder, the rod length should be controlled within 2 cm beyond the door surface).

Smart lock networking operation instructions

1. Add devices

1. Download the Tuya Smart APP (or scan the QR code below) from the mobile app market and install it.

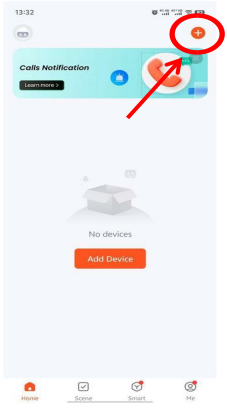
2. Open the app, click "Create New User" in the middle, register an account as prompted, and log in.

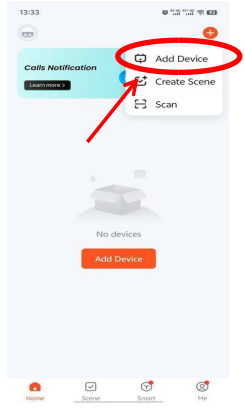


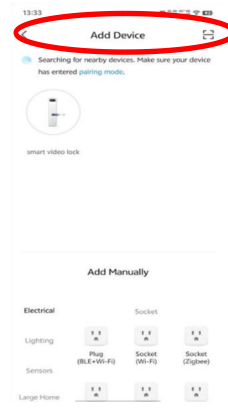
3.Check the WIFI network connection of your mobile phone and ensure that it is connected to the 2.4G network of the router.

4.Press the '*#' key on the door lock to verify the administrator and access the menu. Select "2 Wireless Settings" - "1 Add Network". The door lock will prompt for wireless pairing, and it will enter the network configuration state.

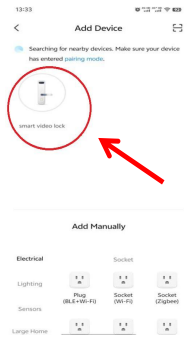
5.Tap the Add button located in the upper right corner of the Tuya APP. Select Add Device and wait for the APP to search for nearby devices. Alternatively, you can choose the menu categories on the left: Add Device - Camera/Lock - Door Lock (WiFi). Enter the WIFI password, then continuously click Next and select "Wi-Fi Quick Connect" to put the APP in the connected device state.

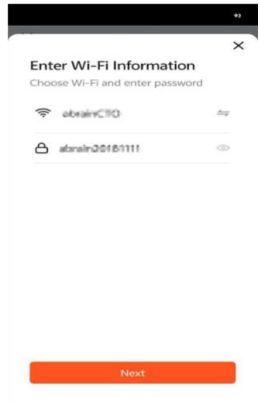


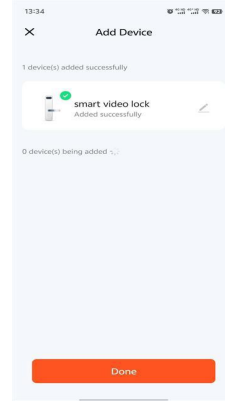




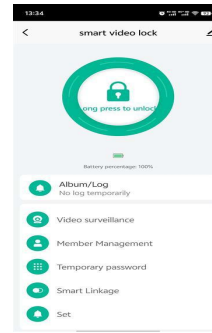
6.After the APP discovers the device, click the Add button, enter the current WIFI network name and password (must be a 2.4G network), click the next button, and click Finish after waiting for the device to be added.







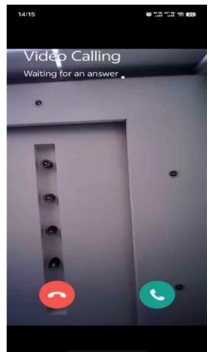
2 . Use of equipment

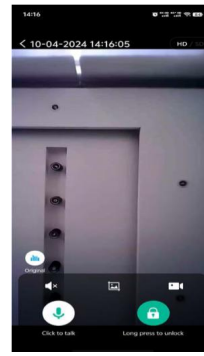


Enter the door lock interface in the app, you can directly click the middle button to unlock the lock. Click on the menu bar to use the corresponding functions and settings.

(1) Remote door opening

1 . When a visitor rings the doorbell, the mobile phone will receive a pop-up reminder. Click to answer and enter the video viewing interface, where you can engage in intercom, unlock, and other operations.





(2) Album/Log

In the album/log, you can view information records such as door lock alarms and switch locks, as well as videos captured during door lock alarms and remote door opening requests. You can also associate the unlocking information of unassociated users.

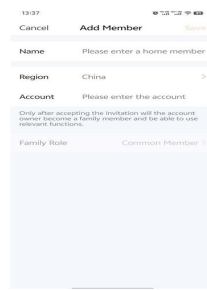
(3) Video Surveillance

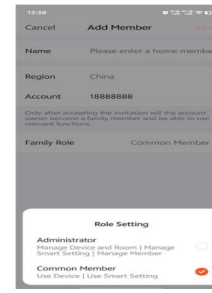
Select video surveillance to actively view the situation outside the door lock, as well as intercom, remote door opening, and other operations.

(4) Member Management

In member management, you can add family members to associate and manage unlocking information. You can specify a fingerprint or password as a special door opening mode to realize the hijacking alarm function. To add a family member, click the "+" button in the upper right corner, enter the name and account of themember to be added, select the member role, and save it to complete the member addition.

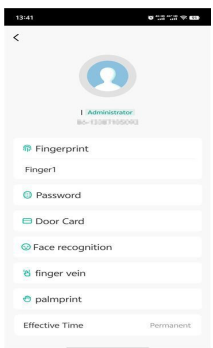


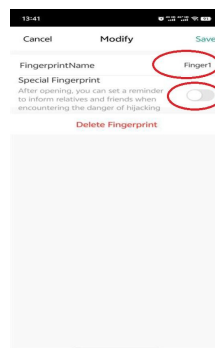


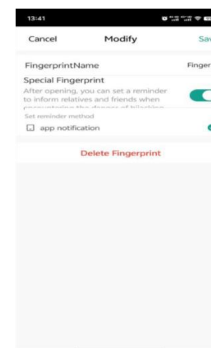


1.Associated user

Click the red prompt above for un-associated users and select the unlocking information to be specified for the corresponding member.

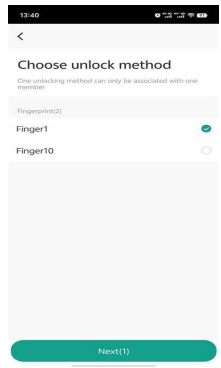


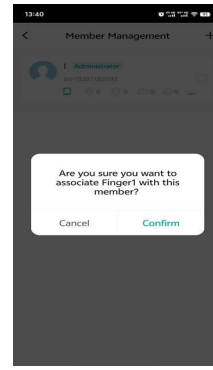




3. Unlocking information management: Select the user to be managed, click to select the unlocking information that needs to be edited, change the name, and set up special unlocking method settings and reminders. When a fingerprint or password is set as a special unlocking method, the APP will send a hijacking alarm after unlocking the door lock.







(5) Temporary password

Click on the temporary password to perform the operation related to the temporary unlocking information, and follow the prompts in the APP to proceed.

(1) **"Time-limited," "single-time," and "empty" are offline passwords. The APP does not need to connect to the door lock when generating these passwords. After generating the "time-limited," "single-time," or "empty" password, you can temporarily unlock or empty the password by entering the password group on the door lock. (*The door lock time must be consistent with the current time) Validity time: The "time-limited" password is valid for the set time (must be used at least once within 24 hours), the "one-time" password is valid for 6 hours, and the "clear" password is valid for 24 hours.**

(2) **The "custom" password needs to be issued to the door lock after the password is generated, and you can check whether the password is successfully issued in the recording interface. If the custom password is not successfully issued, and the record shows that it is to be issued, you can press the doorbell button on the door lock to connect the door lock to the network to achieve password issuance. After the issuance is successful, the online password status will be displayed as "In use", and the door can be opened through the temporary password. (6) Intelligent linkage**

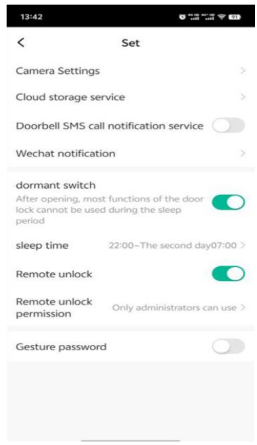
By setting up intelligent linkage, the door lock can be linked with Tuya smart home products.

(7) Settings

1. **Camera settings: one-way intercom or two-way intercom can be set according to network conditions to get a better call effect.**

2. **Sleep switch: Set a reasonable sleep time according to the usage scenario, which can reduce the power consumption of the door lock and extend the standby time of the door lock battery.**

Note:
During the time when the sleep function is on, you cannot actively view the surveillance video of the door lock through the APP. The doorbell requests push, alarms, and door opening functions such as record push are normal.



The APP operation is for reference only.

Please log on to the official website of Tuya for more information.