

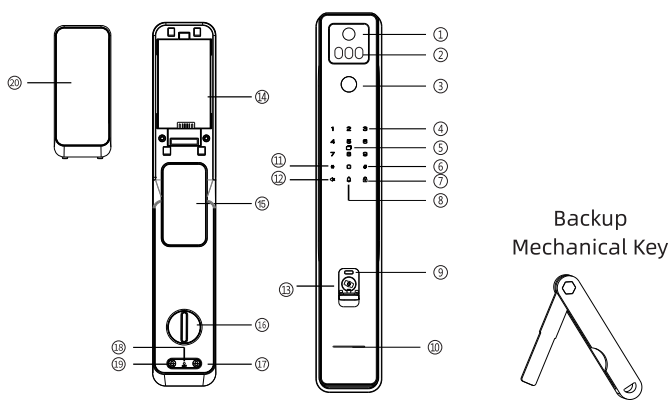
SMART LOCK USER MANUAL

FL500



1. PRODUCT IMAGE AND PRODUCT LIST

1.1 Product Imag



- 1.Camera
- 2.Face Recognition/ palm vein
- 3.Fingerprint sensor
4. Touch Keypad
- 5.Card Reader
- 6.Confirm
- 7.Lock button
8. Doorbell
- 9.Emergency Type-C
10. LED Indicator
11. Return
12. Mute
13. Key hole
- 14.Battery Holder
- 15.Interior Handle
- 16.Safety Knob
- 17.One touch lock button
- 18.Set button
- 19.One touch unlock button
- 20.Display screen

⚠Note

Installation instruction using pictures for reference only,the product in kind shall prevail.

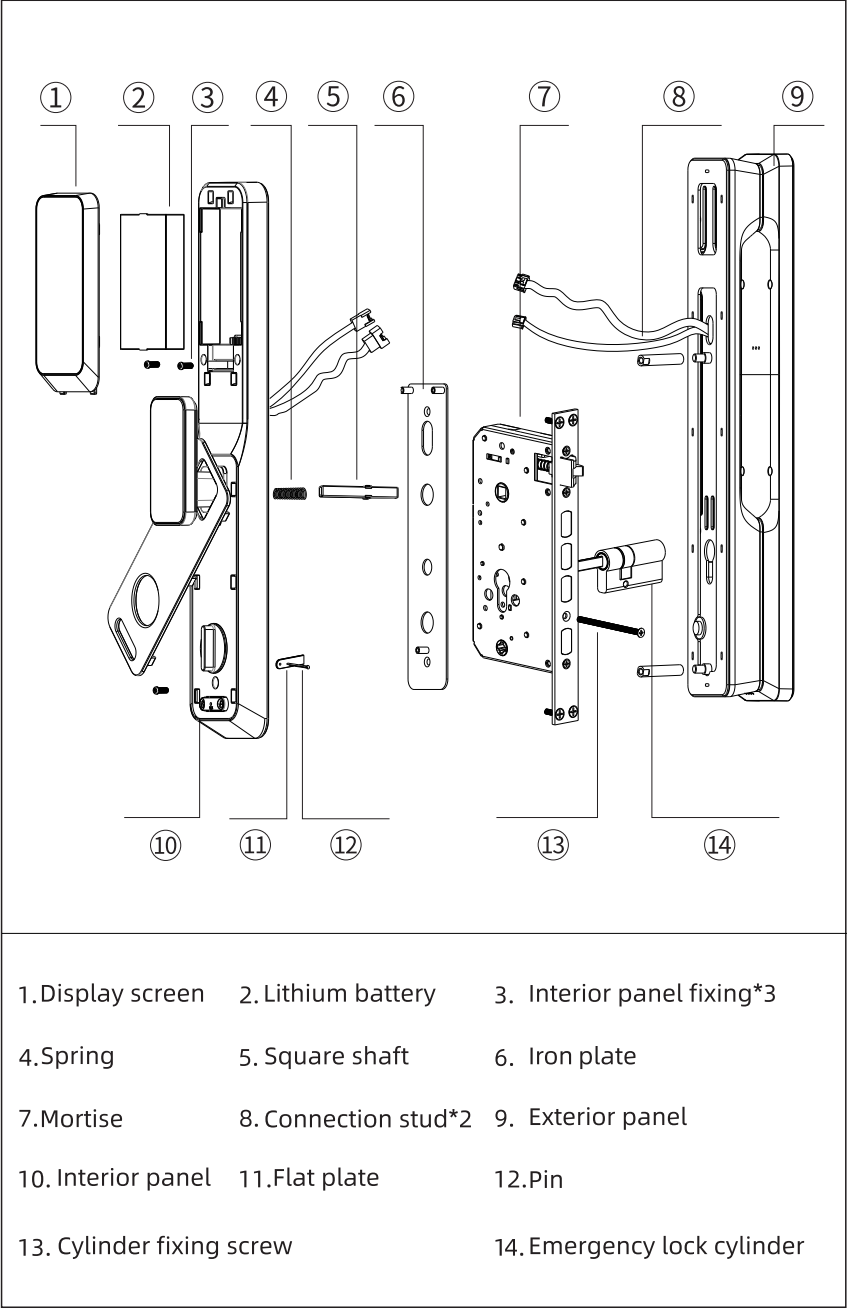
1.2 Production list

After unpacking,please check carefully according to the list, if you find any missing, please ask us for it in time.

Ref	Name	Quantity
1	Exterior panel(Rubber pad included)	1
2	Interior panel(Rubber pad included)	1
3	Key	2
4	Cylinder	1
5	Proximity Card	2
6	Installation Kits	1
7	User Manual	1
8	Lithium battery	1

1.PRODUCT IMAGE AND LIST

1.3 Product Installation Diagram



2.PRODUCT DESCRIPTION

Fingerprint sensor	Adopting semiconductor fingerprint sensor with 100 pieces capacity.
Password	Capacity:50 groups, length 6-12 digits, with dummy password function(continuous input up to 20 digits), as long as there is a correct password to pass the verification, more than 20 digits input at one time will not be recognized.
Navigation	Full voice prompted navigation.
Proximity card	Capacity: 50 cards, with 2 proximity cards included.
Face	Capacity: 20 groups
Palm vein	Capacity 20 pieces.
Keys	2 Mechanical keys.
Power supply	Standard 8.4V lithium battery power supply with external power interface (Type C).
Administrator	The 1st administrator must be password.Face, password, fingerprint or proximity card can be freely selected, minimum 1 administrator, maximum 10 administrators. (any one administrator can be deleted, but at least one administrator is retained).
Other functions	Wrong in put freeze, low power alarm, anti-pry alarm.
Factory state	In the factory state, the user database is empty, any one can unlock the door without authentication by card/ fingerprint/password,If there is a user registered, the factory password will be automatically invalid .
Initialization settings	Press and hold the set button on the interior panel for 5 seconds and according to the prompt "Restore the factory state, press # to confirm, press * to exit." After pressing #, initialization successful,all data will be cleared.

3.USER NUMBER DESCRIPTION

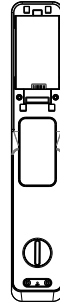
Users	Administrator: face,fingerprint, password, proximity palm vein card. Users: face, palm vein,fingerprint, password, proximity card.
Numbered relationship description	One number to one user.For example: if the fingerprint number 8 is registered, the password number 8 can not be registered.The number is automatically assigned incrementally.
Number Range	001~240

4.COMISSIONING OPERATION

4.1 Pre-Operation Instructions

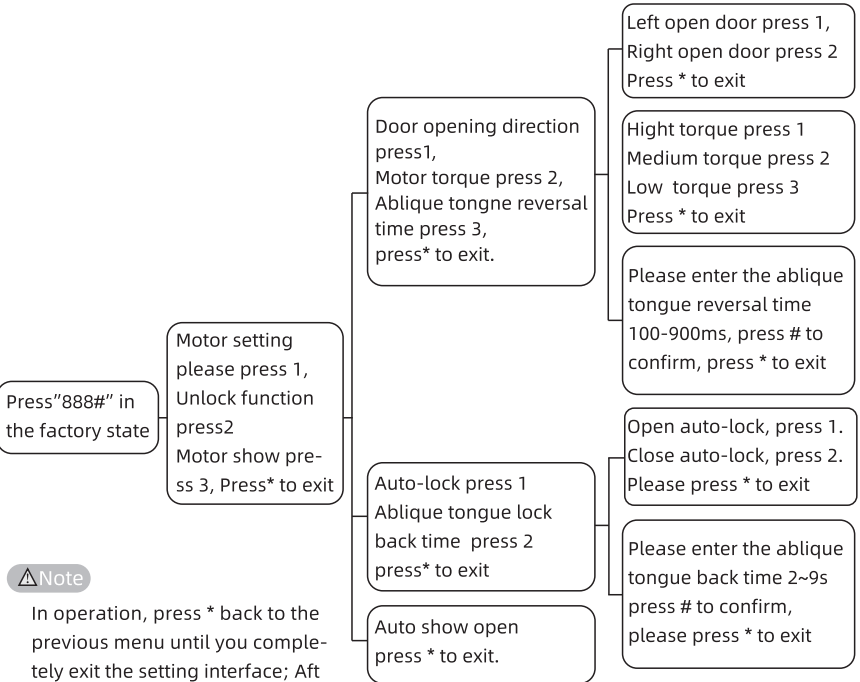
⚠ Note

After restoring the factory state, all user registration information will be cleared.



Restore factory state button

4.2 Commissioning Operation Instruction

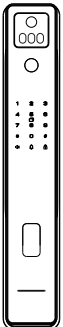


⚠ Note

In operation, press * back to the previous menu until you completely exit the setting interface; After administrator registered, press "888#" and administrator to enter the settings, you can also debug.

5.MANAGEMENT SETTING

5.1 How to enter the management setting



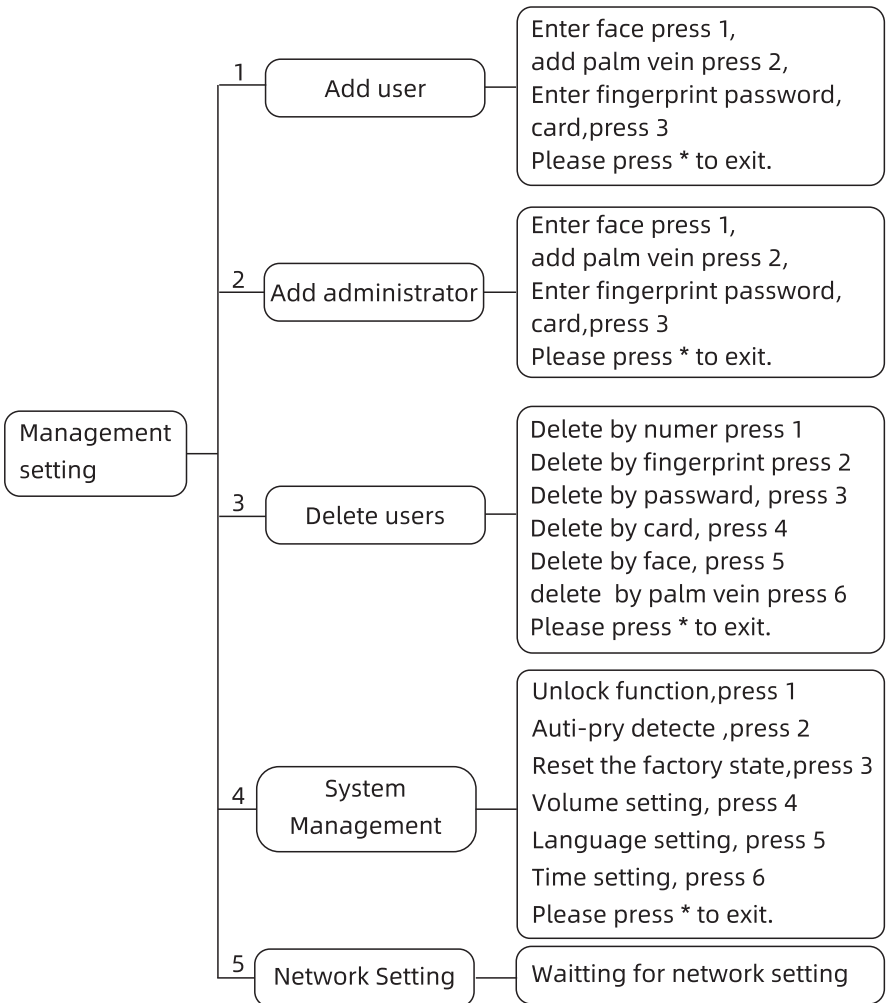
5.1.1 After short touching the keypad to activate the door lock, press "*" # " in turn or short press the set button (on the back panel) once to enter the management setting.

5.1.2 In the factory state, it will automatically enter the administrator password (the number is fixed at 001) registration menu, please refer to the password registration process. If the administrator has already been registered, it will prompt "please authorize".

⚠ Note

If the identification of the administrator fails, the voice plays "input error". If the recognition is successful, enter the main menu directly, press * to exit, and press the corresponding number to enter the submenu.

5.2 Management setting menu



Note During the above operation, you can follow the voice prompts to operate.

5.3 Add user

Enter to add user, voice plays "Add face press 1, add palm vein press 2, add fingerprint, password, card press 3 " Adding face, fingerprint, password or card depends on what user enroll .

5.3.1 Add face

If the user enters a face for the first time,the voice play "Please look at the camera, press * to return " . After inputting face successfully, voice play "New user add successful, number XXX" .

If fail, voice play " Fail to add " ,return to previous menu.

5.3.2 Add palm vein

The voice play "Please put your vena digitalis in front the camera, after inputting palm successfully, voice play "XX successful. If fail, voice play "Fail to add" ,return to previous menu.

5.MANAGEMENT SETTING

5.3.3 Add fingerprint

If the user press the fingerprint for the first time, the voice “please touch the other area, and the user press the fingerprint for the second time. Repeat press the fingerprint 6 times. If the fingerprint is added successfully, the voice will play “ Register succsse , index number XXX “. Otherwise, voice plays “ Fail”.

▲ Note With seasonal environmental changes, there will be deviations in the clarity of fingerprint feature points, resulting in changes in recognition rate. When the recognition rate decreases, customer shall re-enter the corresponding fingerprint.

5.3.4 Add password

If the user enters the password, press #, the voice plays “Please enter new password again”, the user enters the password again, if the password is same, the voice plays “Register success,index number XXX “. Otherwise, voice plays "Incosistant password input.", return to previous menu .

5.3.5 Add proximity card

If the user add proximity card, the voice plays “Register Success,index numberXXX”, otherwise the voice plays “ Card is not recognized, adding failed ”.

▲ Note

Note: if the face, palm vein, fingerprint, password and proximity card are full, the voice plays “Face, palm vein, fingerprint, password, card is full” .

If the face, palm vein, fingerprint, password and proximity card are already registered, the voice plays “face, palm vein, fingerprint, password, proximity card already exist” .

If the user is fully registered, the voice plays “User is full” .

5.4 Add administrator

Enter to add administrator, voice play “Add face press1, add palm vein press 2, fingerprint password, proximity card press 3” . Adding face, palm vein, fingerprint, password, or card depends on what user enroll . Other operation process is the same as “5.3. Adding user” .

5.5 Delete user

Enter to delete user, voice play “delete by number press 1, delete by fingerprint press 2, delete by password press 3, delete by card press 4, delete by face press 5, delete by palm vein press 6” .

A. Press 1, delete by number voice play“Please enter the number”, after number entered, press # to confirm. If the deletion is successful,the voice will play“Delete administrator/user XXX successfully”. You can continue to enter the number to delete, or press * return to the previous menu.

B. Press 2,fingerprint to delete, voice play “Please enter the fingerprint”, after input the voice will play “Delete administrator/ user XXX successfully”, press * back to the previous menu.

5.MANAGEMENT SETTING

C. Press 3,password to delete, voice play "Please enter the password, after input the voice will play " Delete administrator/ user XXX successfully", press * back to the previous menu.

D. Press 4,proximity card to delete, voice play "Please enter the proximity card, after input the voice will play "Delete administrator/ user XXX successfully", press * back to the previous menu.

E.Press 5, face to delete, voice play "please enter the face,after input the voice will play "Delete administrator/ user XXX successfully", press * back to the previous menu.

F.Press 6 ,Palm vein to delete, voice play "Please enter the vena digitalis, after input the palm will play "Delete administrator/ user XXX successfully", press * back to the previous menu.



Note If the face, palm vein, fingerprint, password or card is not registered, the voice message will play "User does not exist" and skip to the previous step.

5.6 Management Setting

Enter the system management, the voice plays "Door opening function press 1, anti-pry detection press 2, restore factory state press 3.volume setting press 4, language setting press 5,time setting press 6,press * to return".

Door opening function: Voice play "Passageway press 1, auto lock press 2, Ablique tongue back time press 3, body induction press 4, unlocking mode press 5, child lock mode press 6, press * to return"

Anti-pry detection: Voice play "Open anti-pry detection press 1/close anti-pry detection press 2, press * to return"

Restore factory state:Voice play "Restore factory state, press # to confirm,press * to exit"

Volume setting: voice play "high volume press 1, medium volume press2, low volume press 3, mute press 4, press * to return

Language setting: "Chinese press 1, English press 2, and press * to return."

Time setting: Voice play ,"Enter the year, month, day, hour, minute, and second according to the voice prompts"

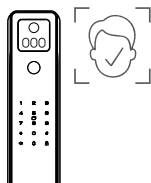
5.7 Network Setting

Enter network setting ,voice play "Network configuration."

6.INSTRUCTION

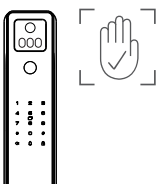
6.1 In common mode

6.1.1 Face Unlocking



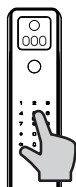
Voice prompt "please open the door"
after face recognition succeeded

6.1.2 Palm vein unlocking



Voice prompt "please open the door"
after palm recognition succeeded.

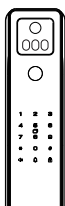
6.1.3 Password Unlocking



Enter the registered password, press #
to confirm, the password verification
success voice prompt "please open the
door"

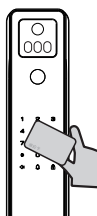
Note Dummy password function is support, and the length of the password including the dummy password should not exceed 20 bits to completely eliminate the risk of peeping password.

6.1.4 Fingerprint Unlocking



Put the registered fingerprint on the
fingerprint reader in the correct way,
the fingerprint verification is successful,
and the voice prompts "Please open the
door".

6.1.5 Card Unlocking



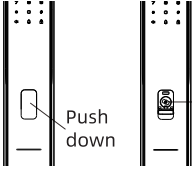
Place the added proximity card close to
or paste it on the keypad area, and the
proximity card will be verified successfully
and the voice prompt "Please open the
door".

6.INSTRUCTION

6.2 Emergency Unlocking

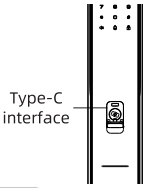
6.2.1 Mechanical key unlocking

In case of emergency,such as forgetting the password ,running out of battery power or system failure ,a spare mechanical key can be used.



- 1.Push down and open the cover
- 2.Insert mechanical key into the cylinder.
- 3.After the key is rotated,it can be unlocked.

6.2.2 Type C emergency power supply



When the battery is exhausted and there is no mechanical key,external power supply through Type C,no need to wait for the lithium battery to charge , just open the door according to the normal procedure.

Note External power supply is recommended to use a rechargeable battery or charger with an output current of 2A(inclusive) or more.

6.3 Door locking

6.3.1 Door outside unlocking

Once user authentication is successful,the voice play “Lock opened”.

6.3.2 Door outside one-touch locking

One touch “”on the keypad to lock, voice play “Lock closed.”.

6.3.3 Door inside one-touch unlocking

One unlock key at the bottom of interior panel, which can one key to unlock. After the lock is successfully unlocked, voice play “Lock opened”

6.3.4 Door inside one-touch locking

One lock key at the bottom of interior panel, short press 3 seconds to lock. After the lock is successfully locked, voice play “Lock opened” .

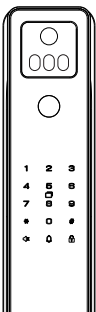
6. 4 Passageway function

6.4.1 Passageway function

When a meeting or other group activity is held, the door lock can be set to passageway state and people could open the door directly without verification after successful setting

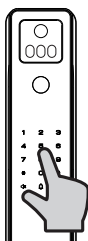
6.4.2 Passageway setting

Enter the system setting, press 4 to enter the opening function ,press 1 to enter the door opening function, and then press 1 to enter the passageway setting mode. After enable passageway, the passageway function will be disabled automatically by the door inside one-touch lock or unlock button or any successful authentication.



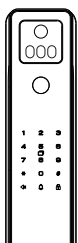
6.INSTRUCTION

6. 5 Wrong input freeze function



When the number of errors of face fingerprints, passwords, and proximity cards within 5 minutes is >3 times in a row, an audible and visual alarm will be issued; when the number of errors are >5 times in a row, the system freezes for 180 seconds.

6.6 Battery level detection



When the battery voltage is lower than 6.8V there will be automatically alarm every time open the door. It still can be unlocked normally for 50 times .More than 50 times ,unlock will be delayed 5 seconds. Please replace battery before 50 times.

Note When prompted with a low battery, please charge it in time.

7.VISIBLE SCREEN FUNTION

On-screen Button Functions

Check Outside the Door : Short press "O" wake up screen .

Close Screen : When the screen wakes up , Long press "O" to close the screen .

8.APP OPERATION

8.1 Download App

Please enter the APP store to download and install "Tuya Smart".

8.2 Network configuration

Operation on the lock

1.Enter * # then input administrator password, press 5 into network configuration.

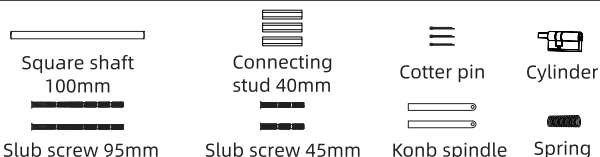
2.Open "Tuya Smart" APP, press "Add device" or "+" on top right coner.

3.Press "Add device" , select "camera & Lock" , and chose "WiFi Lock"
Input the WiFi name and password and waiting for connection.

The lock will show in the APP once connected.

9.INATALLATIONS STEPS

Parts list



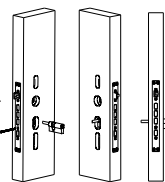
1. Mortise installation

- Change the direction of the lock tongue according to the direction of door opening.
- Put the lock body into the door body with the opened door hole, and fix it with screws.



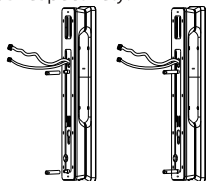
2.Cylinder installation

Insert the emergency lock cylinder into the mortise, mark the lock cylinder connecting rod by 7~12mm higher than the inner side of the door, remove the excess part after disassembly, and then fix it with the lock cylinder fixing screw.



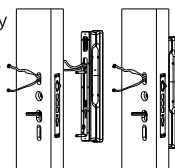
3. Exterior panel installation

Tighten the two connecting studs to the front panel studs respectively.



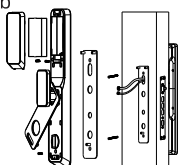
4.Fix exterior panel

- Pass the wire through the topmost over-wire hole.
- Hold the panel tightly against to the door surface and make sure the cylinder is in it's position.



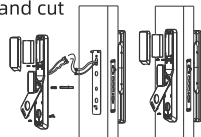
5.Install rear iron plate

- Take off the 3 interior panel fixing screws and removing the iron plate from interior panel,(see below).
- Cut the slub screw to the right length according to the door inside surface and tighten with slub screw.



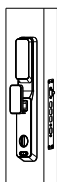
6.Intsall interior panel

Connect the wire. Cut the square shaft to the right size according to the thickness of the door. Insert the spring into the square shaft hole on the interior panel first and the fix the square onto the interior panel, and pass shaft through the mortise. Mark the other end of square shaft by 5~10mm away from mortise and cut the excess part. Fix the squareshaft and knob spindle with cotter pin.



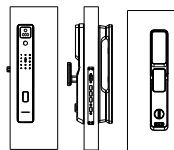
7. Fix interior panel

Fix the interior panel to the inner surface of the door with 3 screws. Close it with the cover.



8. Test smart lock

- Operate the inner handle, safety knob and mechanical key, and make sure all connected parts is working normally.
- Install the battery and check the function one by one per the manual



△Note

- Fully-automatic models only support two sections-moritse, please pay attention .
- This product support up and low hook , but because specifiction and standard of most door are different , the situation of unsmoot or can not unlock may happen after installing . So installation up and low hook is not recommended .