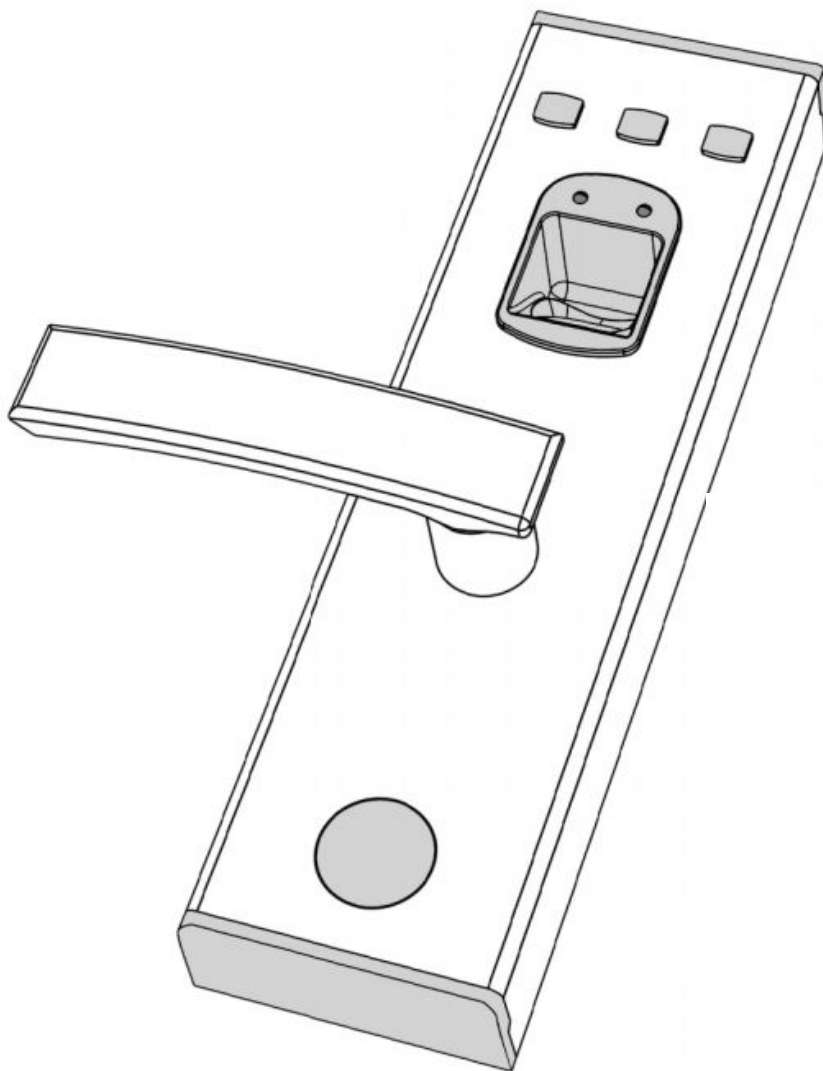# USER MANUAL

── ── Fingerprint door lock S210

Zhejiang SFG Technology Co., Ltd.

Disclaimer

● While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions.

● The fingerprints acquired and stored by this fingerprint acquisition system are only the fingerprint characteristics but not fingerprint images. SFG shall not liable for any results causing by the concern of privacy.

● SFG reserves the right to change the specifications of the hardware and software described herein at any time without prior notice.

● Manufacturer and/or Distributor of the SFG S210 will not be responsible for any damages caused by incorrect installation or mishandling of the lock. Any such damages will void manufacturer's warranty.

WARNINGS / CAUTIONS

Thanks for purchasing SFG S210.
Before using the lock, please ensure that you have read and understood the safety precautions described below. Always ensure that the lock is operated correctly.
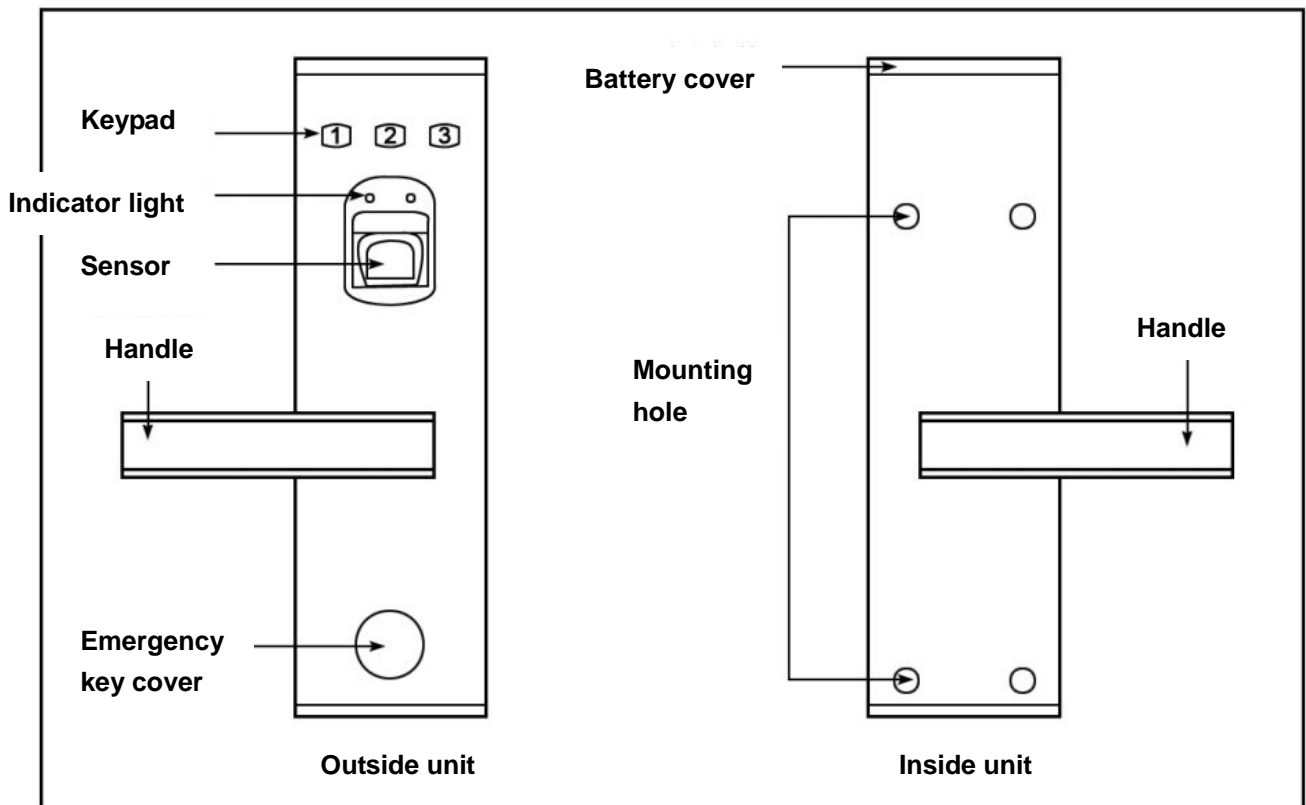
● Do not allow the lock to come into contact with, or immersed in, water or other liquids. Do not allow liquids to enter the interior, though the lock is waterproofed. If the exterior comes into contact with liquids or salt air, wipe it dry with a soft, absorbent cloth.

● Do not install or operate the equipment under the strong electromagnetic obstruction or sour environment.

● Replace batteries in time when they are using up and alarming prompted.

● Children under six year old or intellectual disabilities should operate the lock with the help of adult.

● Do not use any hard or sharp substance to damage the fingerprint screen.

● Do not use substances containing alcohol, benzene, thinners or other flammable substances to clean or maintain the equipment. The use of these substances may lead to fire.

● Do not place the batteries near a heat source or expose them to direct flame or heat.

Contents

Chapter One Pre-operation Guide

1.1 Components Guide

Keypad → ① ② ③

Indicator light

Sensor

Handle

Emergency key cover

Outside unit

Battery cover

Mounting hole

Handle

Inside unit

1. 2 Keypad description

【1】 Always-opening setting

【2】 Adding fingerprints

【3】 Deleting fingerprints

Note: Press any button to activate the system

1. 3 Sound indicator and indicator light

Successful operation: Green light lighten, and Di ⎯⎯ (long beep）

Failed operation: red light lighten, and Di-D-Di (short beep)

Low power (battery)：when battery is running up, there is the continuous short beep and the green & red light flash alternatively.

1.4 Finger placement guide

Before enrolling and verifying fingerprints, make sure to read the following helpful hints.

Generally, the center of the vortex (swirl) of the fingerprint pattern is the key data point; ideally, it is placed in the center of the sensor window in a consistent way. Your finger should be flat, motionless and held with light pressure in the same way each time. Please see the picture below for some guiding drawings.
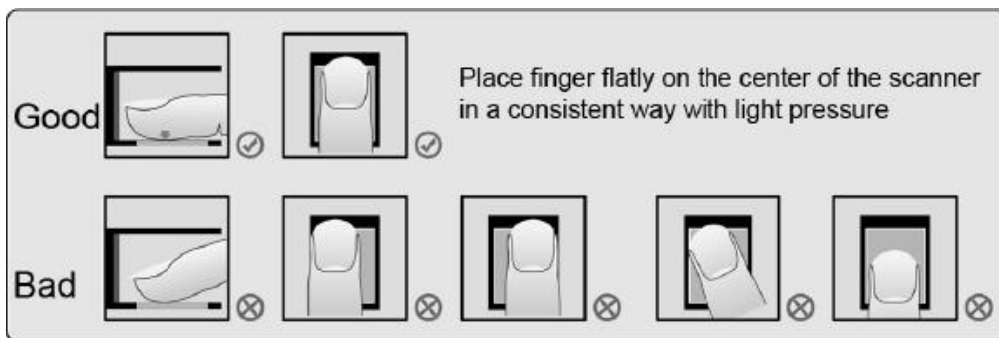
1. Light pressure when placing the finger on the scanner gives the best effect, but the finger must not move during scanning.
2. Moist fingers are better than dry ones. If on cold, dry days you have difficulty, for example, try moistening your finger with your breath or a little lotion.
3. Very dry, dirty or scarred fingers are obviously not recommended for registration, since they will obscure the fingerprint recognition.
4. The forefinger is, by far, the best fingerprint to enroll. The thumb is the second best one.
5. If the finger is difficult to enroll or verify, try enrolling the same finger for 2 or 3 times at slightly different angles. Or enroll fingerprints of the left and right hands.
6. Always wait until the fingerprint scanner turns on, to place your finger on the scanning sensor. This is the true for both fingerprint enrollment and verification.

Chapter Two Operation Guide

2.1 Adding a user

2.1.1 Adding the first user (Master)

Note: 1) the first user is recognized as the Master by default.

2) Before the first user is registered, everyone is able to unlock. Please register a user when this lock is assembled on the door.

3) If the first finger registration fails, the red light lightens and there will be the three short sounds Di-Di-Di. Then system turns off automatically. User can operate after restart.

User operation Steps	Lock indicator
Press any key to start the system	Green light flash; Di- short sound; Blue light on fingerprint sensor
Place any finger on fingerprint sensor to open the door	Green light turns off, Di- short sound; motor turned on indicating that the door open.
Press key 【2】	Green light flash; Di- short sound; Blue light on fingerprint sensor
Place a finger on the sensor, and registered twice	Green light lightens, Di- short sound; the sensor light turn off when first registration succeed, then please place the same finger on for second registration
First finger registered succeed	Green light lightens, Di--- long sound

2.1.2 Adding a master

User operation Steps		Lock indicator
Press any key to start the system	→	Green light flash; Di- short sound; Blue light on fingerprint sensor
Place master finger on fingerprint sensor to open the door		Green light turns off, Di- short sound; motor turned on indicating that the door open.
Press key 【2】 to enter the registration platform		Green light lightens, Di- short sound
Press key 【3】 to add a master		Green light flash; Di- short sound; Blue light on fingerprint sensor
Place a finger on the sensor, and registered twice		Green light lightens, Di- short sound; the sensor light turn off when first registration succeed, then please place the same finger on for second registration
Adding a Master succeed		Green light lightens, Di--- long sound

Note: 1) to continue adding another master, please press key 【3】 and place the finger for twice registration as above steps.

2) If the first finger registration fails, the red light lightens and there will be the three short sounds Di-Di-Di. Then system turns off automatically. User can operate after restart.
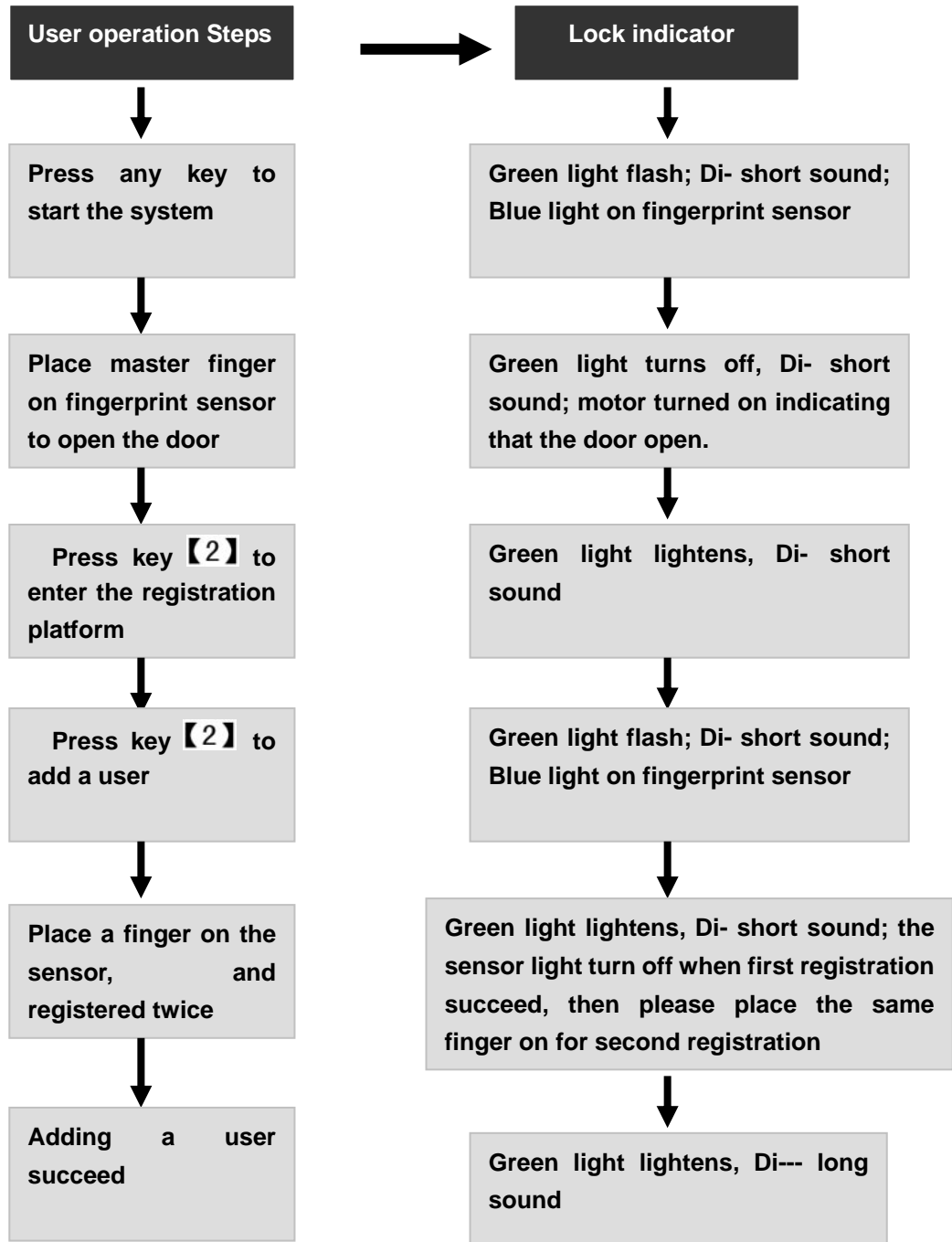
2.1.3 Adding a user

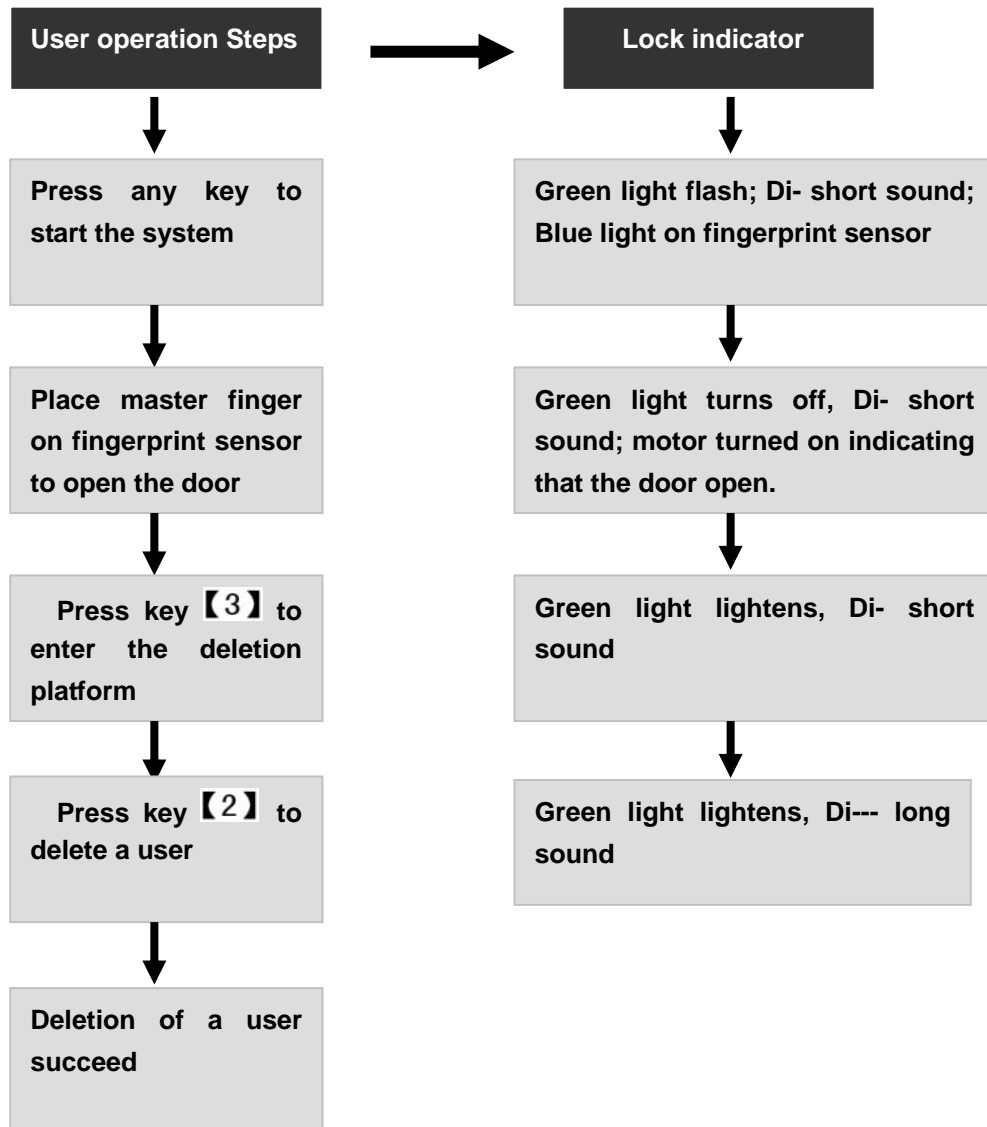| User operation Steps		Lock indicator
Press any key to start the system	→	Green light flash; Di- short sound; Blue light on fingerprint sensor
Place master finger on fingerprint sensor to open the door		Green light turns off, Di- short sound; motor turned on indicating that the door open.
Press key 【2】 to enter the registration platform		Green light lightens, Di- short sound
Press key 【2】 to add a user		Green light flash; Di- short sound; Blue light on fingerprint sensor
Place a finger on the sensor, and registered twice		Green light lightens, Di- short sound; the sensor light turn off when first registration succeed, then please place the same finger on for second registration
Adding a user succeed		Green light lightens, Di--- long sound

Note: 1) to continue adding another user, please press key 【2】 and place the finger for twice registration as above steps.

2) If the first finger registration fails, the red light lightens and there will be the three short sounds Di-Di-Di. Then system turns off automatically. User can operate after restart.

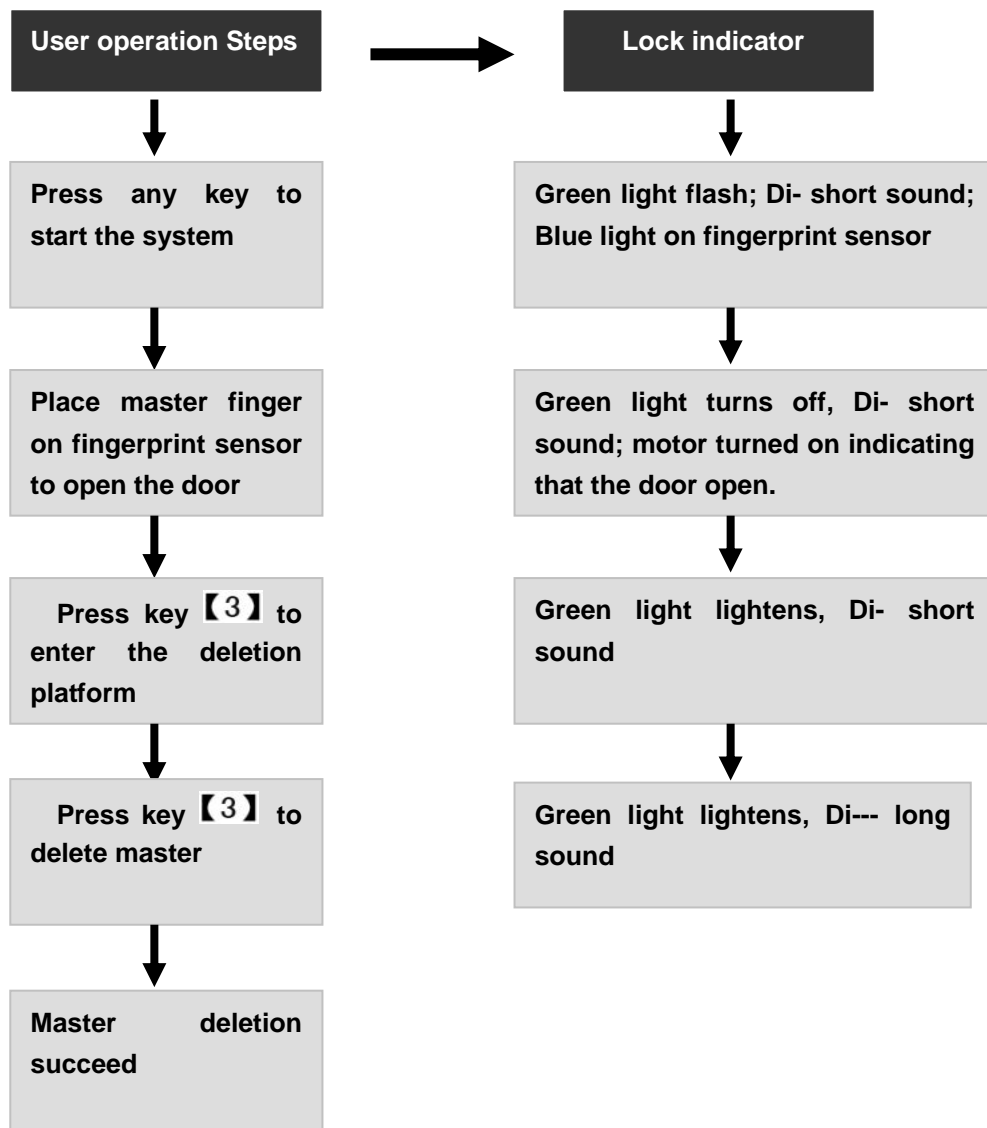## 2.2 Deleting user / initialization

2.2.1 Deleting a user

Note: Only master is capable to delete user.

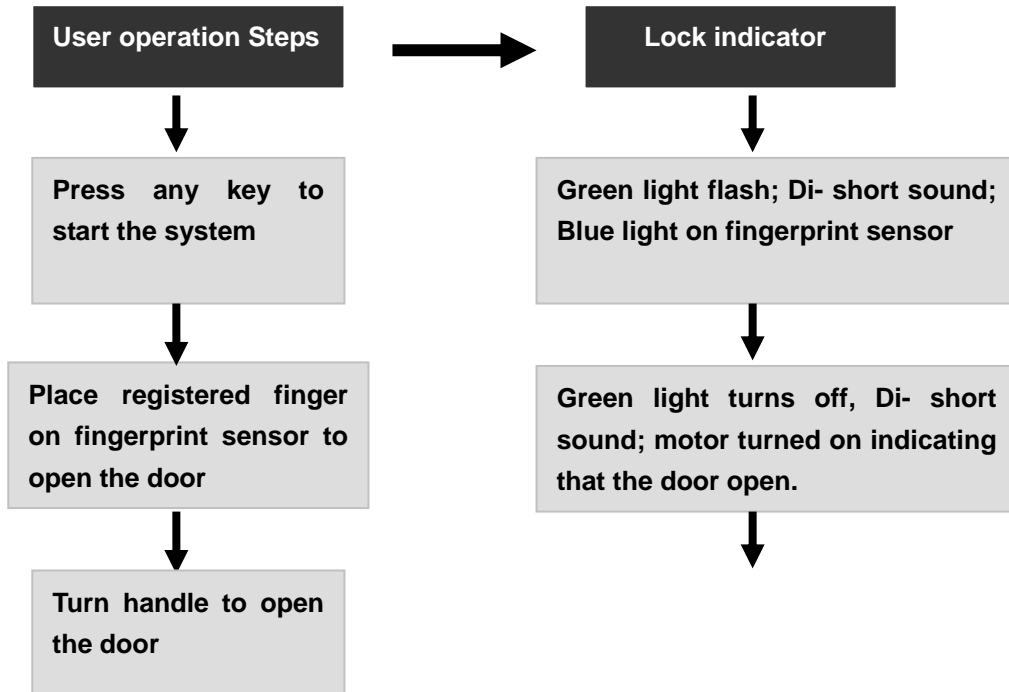| User operation Steps		Lock indicator
Press any key to start the system	→	**Green light flash; Di- short sound; Blue light on fingerprint sensor**
Place master finger on fingerprint sensor to open the door		**Green light turns off, Di- short sound; motor turned on indicating that the door open.**
Press key 【3】 to enter the deletion platform		**Green light lightens, Di- short sound**
Press key 【2】 to delete a user		**Green light lightens, Di--- long sound**
Deletion of a user succeed		

2.2.2 Initialization (Deleting master)

Note: 1) Initialization can only be operated after the deletion of all users.

2) After initialization everyone can access the lock. Please register your finger in time after initialization.

User operation Steps		Lock indicator
Press any key to start the system	→	Green light flash; Di- short sound; Blue light on fingerprint sensor
Place master finger on fingerprint sensor to open the door		Green light turns off, Di- short sound; motor turned on indicating that the door open.
Press key 【3】 to enter the deletion platform		Green light lightens, Di- short sound
Press key 【3】 to delete master		Green light lightens, Di--- long sound
Master deletion succeed		

2.3 Unlocking by fingerprint

User operation Steps		Lock indicator

Press any key to start the system	Green light flash; Di- short sound; Blue light on fingerprint sensor
Place registered finger on fingerprint sensor to open the door	Green light turns off, Di- short sound; motor turned on indicating that the door open.
Turn handle to open the door	

2.4 Always-open function

Always-open function is used on the condition that everyone can access to the room by only turn the handle, without any key or fingerprint verification.

Setup: Press key 【1】 in 3 seconds after placing the registered finger on scanner for verification, and before motor sound which indicating the door unlocked.

Cancel: Press key 【1】 lasting for more than 3 seconds, or unlock the door by a registered finger.

2.5 Emergency mechanical key

Two high security emergency keys are included with each lock. In case of low battery power or other malfunction, the door lock can still be unlocked by using the mechanical key.

Open the door with emergency key by following steps:

1) Use the key to pry off the emergency key cover.
2) Insert the key and turn 90 degree in anticlockwise.
3) Turn the handle to open the door and pull out the key.
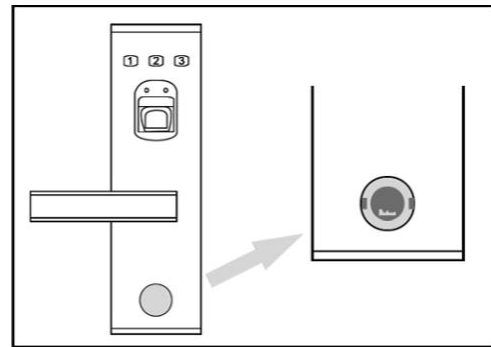
2.6 Battery replacement

Screw out the battery cover and remove the four batteries from the battery compartment. Then, place four new AA size batteries into the compartment, and screw on the battery cover.
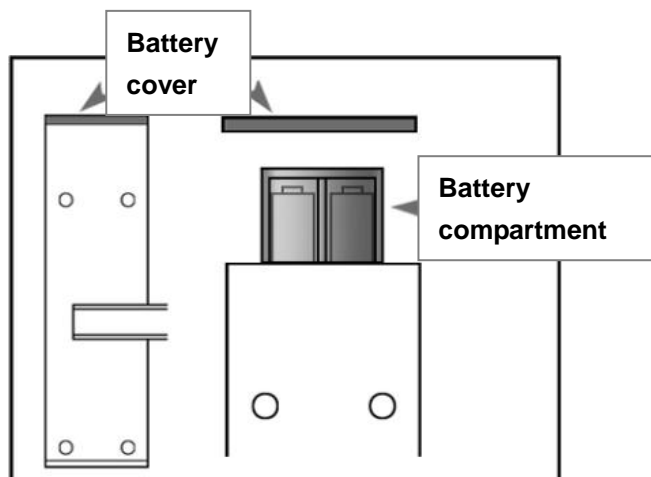
Caution:

1. Use only the same type of new batteries and do not mix old batteries.
2. Never use batteries other than alkaline.
3. Battery life: Usually the 4×1.5V alkaline battery can be used for operation more than 3,000 times. Before battery is running out there will be low battery alarms every time when user enrollment.

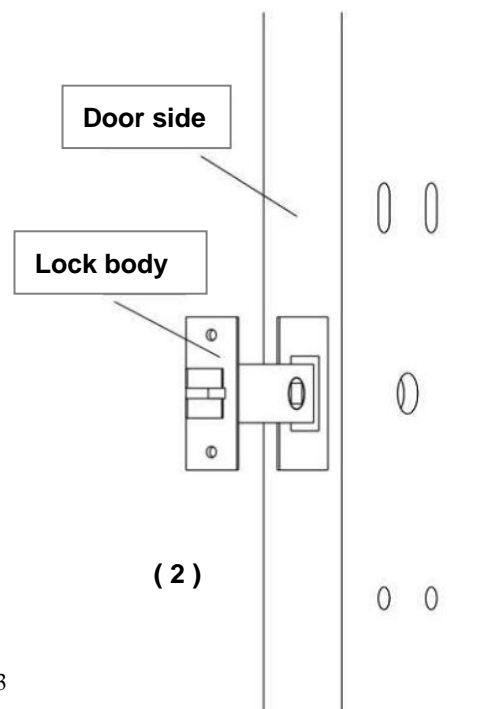# Chapter Three Installation Guide

3.1 Drill mounting holes

Drill and trim the holes to dimensions as below shown (Unit in mm)

**Door**

(1)
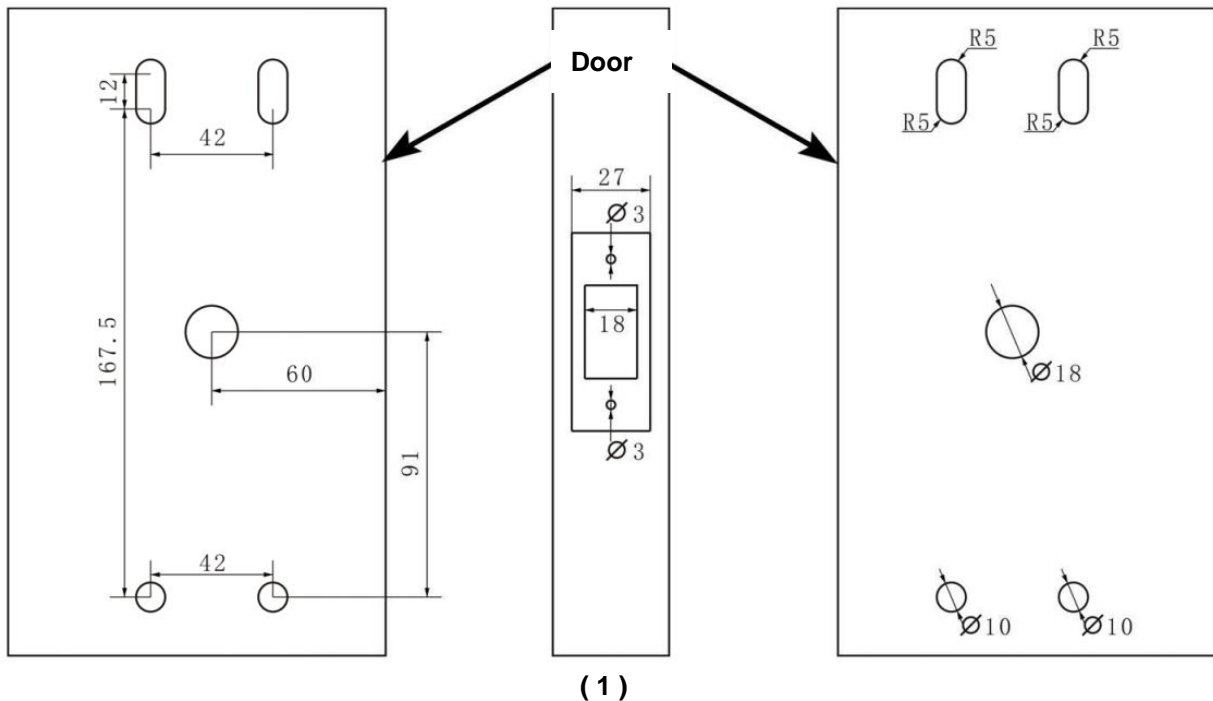
3.2 Installation of Lock Body

Steps:

1. Insert the lock body into the door.
2. Fix it with 2 point-head screws

Door side

Lock body

(2)

13

3.3 Installation of Front Panel

Steps:

a. Insert the four connecting rods onto the holes on front panel respectively.
b. Put the transmission shaft into the correspond hole on the front panel.
c. Put on the rubber mat
d. Pull the power cable on the front panel through the upper mounting hole.
e. Insert the four connecting rods and transmission shaft into the corresponding holes on the door. Then the front panel is placed closely on the door.

Rubber mat

Power cable

Connecting rods

Transmission shaft
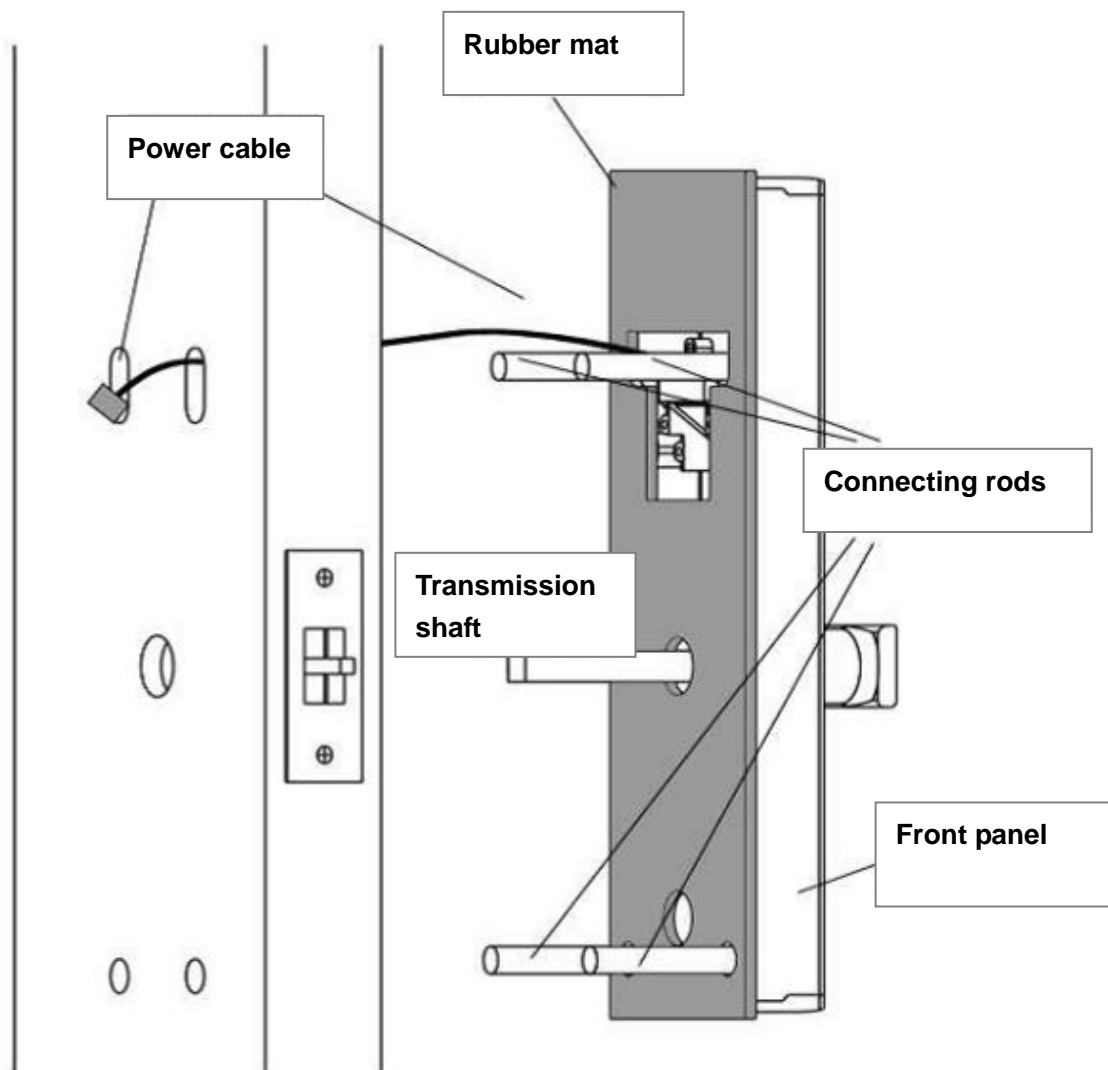
Front panel

(3)

3.4 Installation of Back Panel

Steps:

a. Put the spring into the handle hole on the back panel
b. Put on the rubber mat
c. Connect the power cable from front panel with the cable on back panel.
d. Insert the four connecting rods and transmission shaft into the corresponding holes on the back panel. Then the back panel is placed closely on the door.
e. Screw on four flat- point screws on the back panel to fix the front and back sides. Please refer to the picture (5) on next page (P 17)
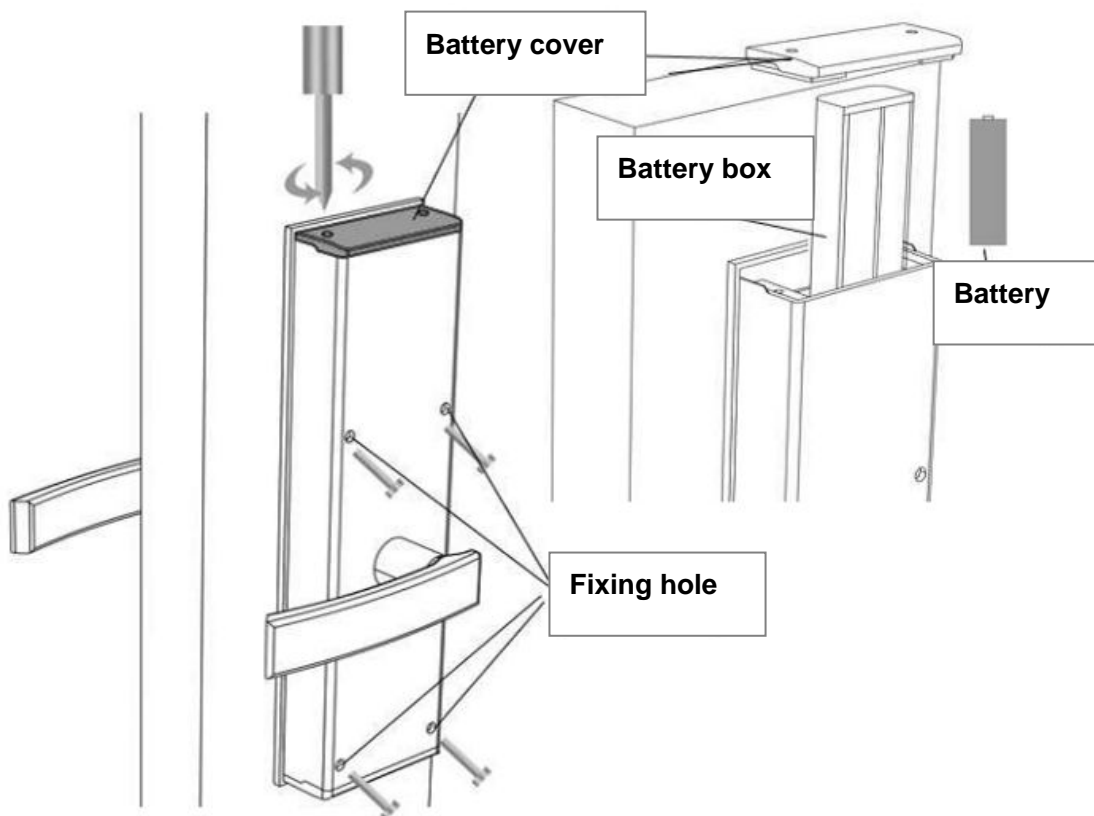
Rubber mat

Back panel

Power cable

Spring
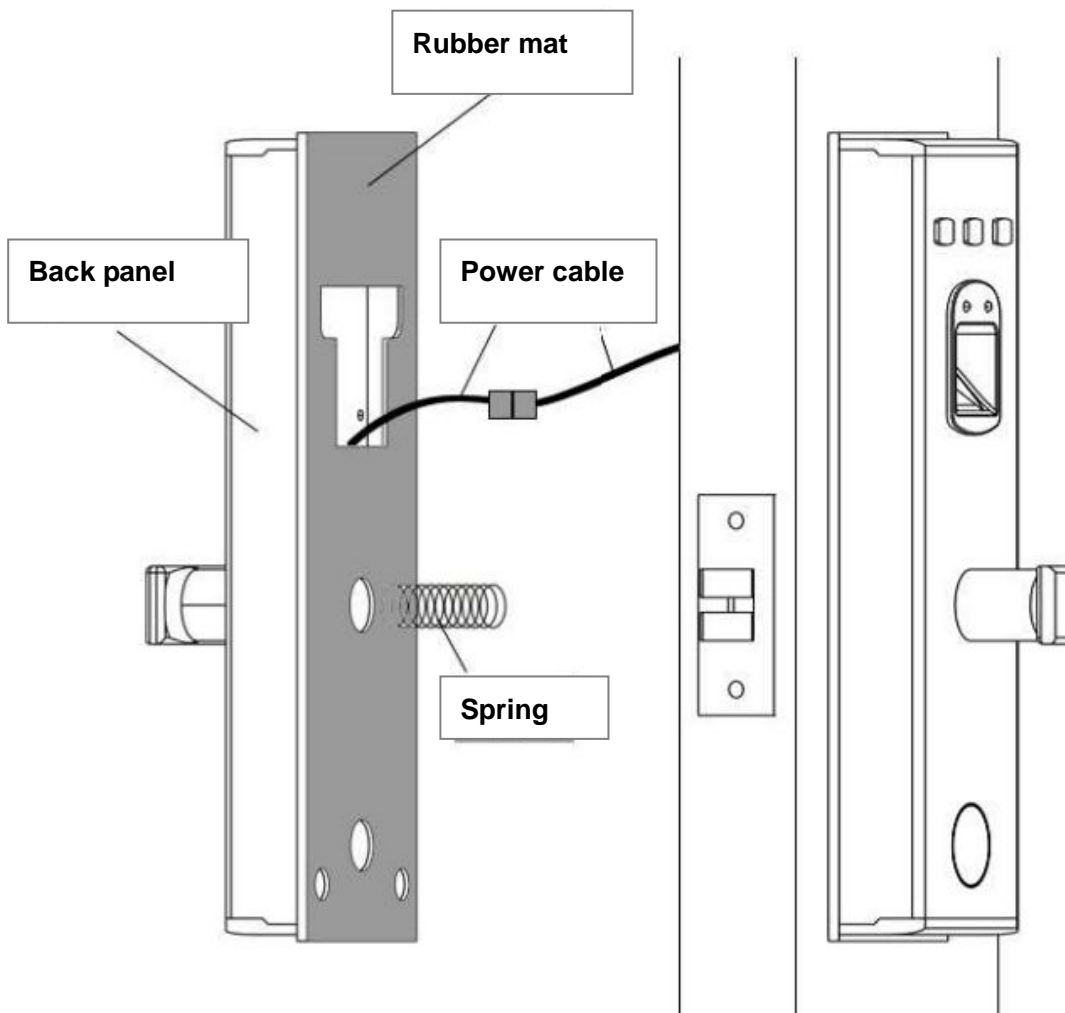
(4)

3.5 Installation of battery

Steps:

a. Screw off the battery cover, and pull out the battery box.
b. Put the 4X1.5V battery into the battery box, and screw on the battery cover. Please pay attention to the positive and negative pole.

(5)

Thank you!