

**LAWRENCE<sup>®</sup>**  
**≡HARDWARE INC.**

5088  
**User manual**

[www.lawrencehardware.com](http://www.lawrencehardware.com)

Gallery Specialty Hardware Ltd

Reserves all right for the final interpretation to this user manual

All design and specifications are subject to change without notice

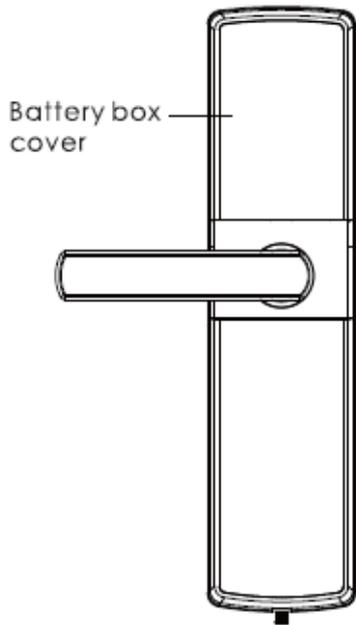
## **1. Instruction of product components**

### **CAUTION**

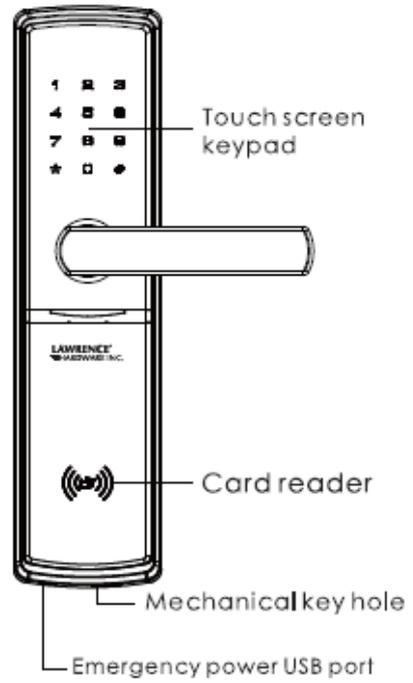
Failure to follow these instructions could result in damage to the product and void the factory warranty. The accuracy of the door preparation is critical for the proper functioning and security of this product. Misalignment can cause performance degradation and a lessening of security.

Components

Inside escutcheon



Outside escutcheon



**1. Inside escutcheon**

Battery box cover

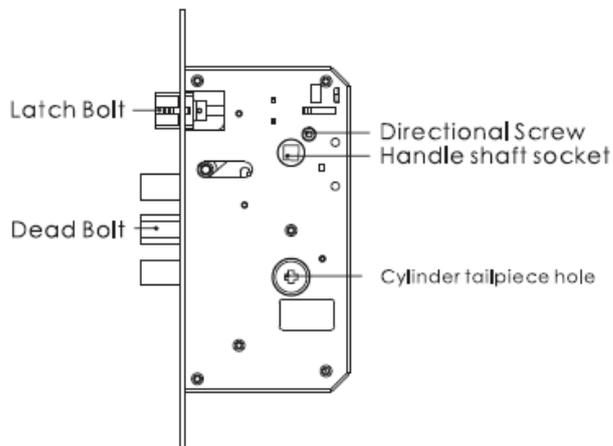
**2. Outside escutcheon**

Touch screen keypad

Card reader

Mechanical key hole

Emergency power USB port



**524 lock case(default)**

Latch bolt

Deadbolt

Directional screw

Handle shaft socket

Cylinder tailpiece hole

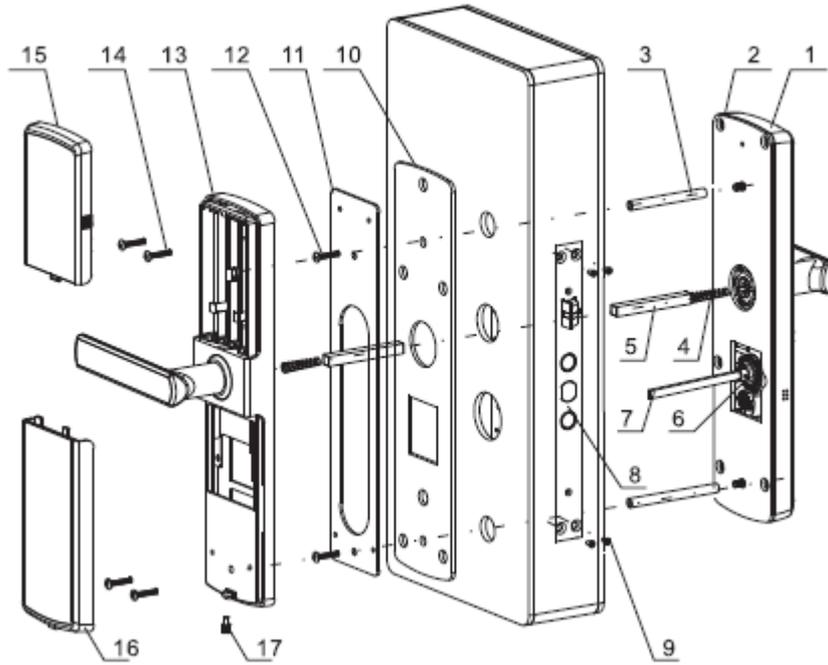
## NOTES

Pictures of components above are just for reference. They can be different according to your model.

## 2.Packing list and explosive view

Please check all parts carefully according to the following list after opening the box.

Number	Item name	Quantity	Remark
1	Outside escutcheon	1	
2	Inside escutcheon	1	
3	Lock case	1	
4	Screw pack	1	
5	User manual	1	
6	Inside mounting plate	1	
7	Network module	1	Optional
8	Warranty card	1	
9	Mechanical key box	1	2 keys
10	Strike plate and plastic case	1	
11	User card	2	
12	Installation template	1	

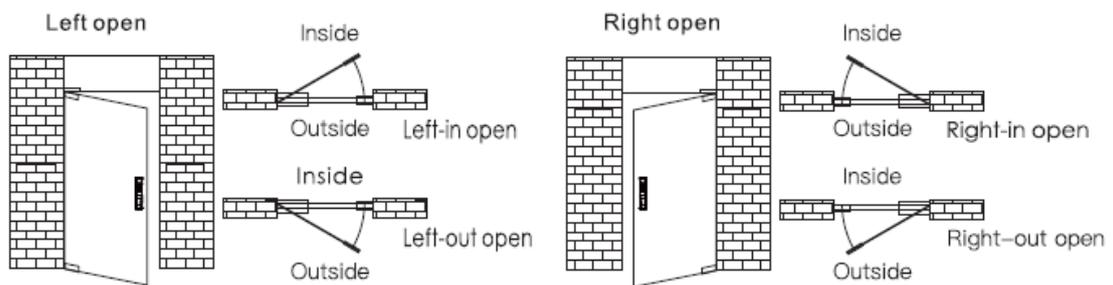


1. Outside escutcheon(1pc)
2. Outside silicon gasket(1pc)
3. Through bolt guide(2pcs)
4. Handle shaft spring(2pcs)
5. Handle shaft(2pcs)
6. Stop pin(2pcs)
7. Cylinder key tailpiece(1pc)
8. Lock case(1pc)
9. Lock case mounting screw(4pcs)
10. Inside silicon gasket(1pc)
11. Inside mounting plate(1pc)
12. Inside mounting plate screw(2pcs)
13. Inside scutcheon(1pc)
14. Inside escutcheon mounting screw(4pcs)
15. Battery box cover(1pc)
16. Inside escutcheon bottom cover(1pc)
17. Bottom cover mounting screw(1pc)

### 3. Prepare lock for installation

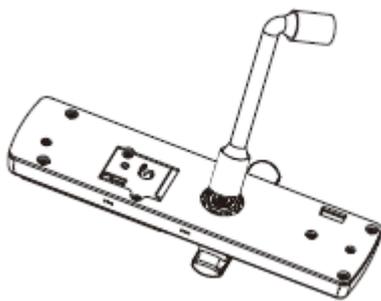
#### 3.1 Confirm door direction

This product can be installed depending on 4 types of door directions.

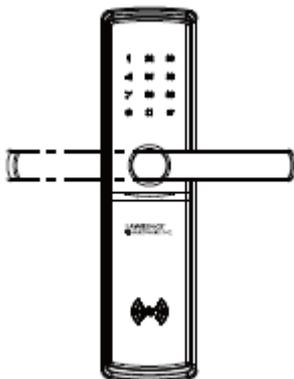


#### 3.2 Change direction of handle

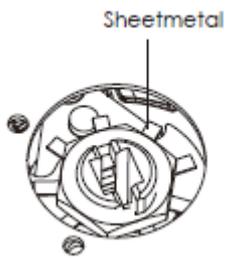
1. Use a 22mm socket spanner to remove the nut of handle.



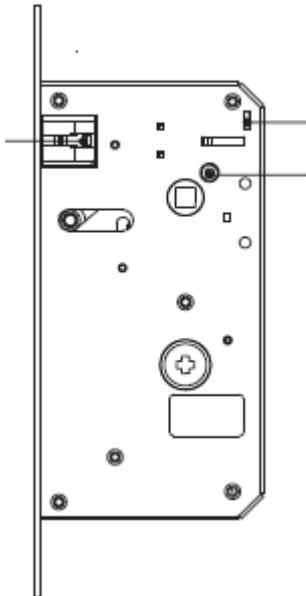
2. Turn over handle 180 degrees.



3. Modify the sheet metal to fix the nut.



3.3 Change direction of lock case



Latch bolt stopper

Latch bolt

Directional screw

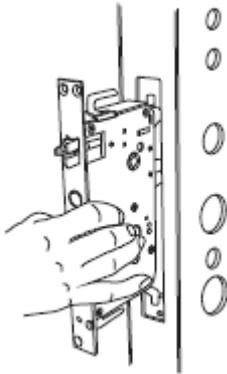
1. Push-up latch bolt stopper till the top end.
2. Pull latch bolt into the lock case, turn 180 degrees and release it.
3. Release the stopper
4. Change position of directional screw according to open direction.(Directional screw should be

always fixed on lock case from the interior side of the door.)

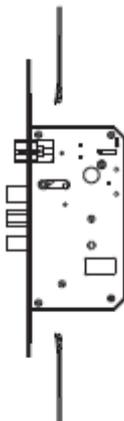
1. Measure your door thickness and confirm the screw pack fits your door.
2. Factory default screw pack is for 40-60mm door thickness, if it doesn't fit your door, please contact our dealer.

#### **4.Installation.**

##### **4.1 Drill holes according to the installation template.**

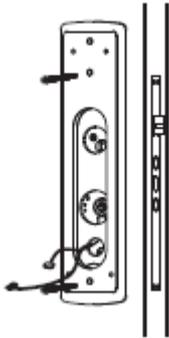


##### **4.2 Put the lock case into the door**

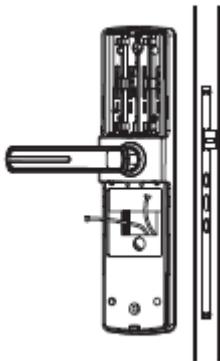




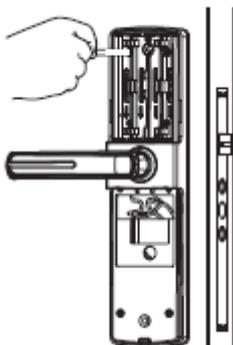
4.6 Put the inside mounting plate in silicon gasket, put it close to the door and fasten two inside mounting plate screws.



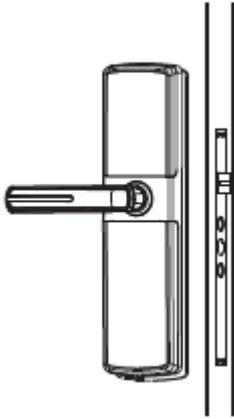
4.7 Put the shaft spring and shaft into the hole of inside escutcheon. Insert the shaft of inside escutcheon into the hole on the lock case and keep inside escutcheon close to the door.



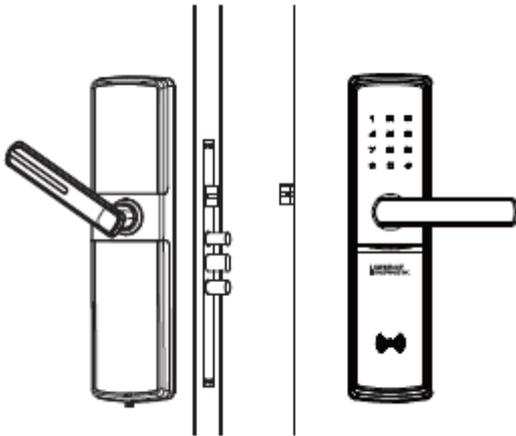
4.8 Fasten 4 mounting screws. Insert the connecting cable and lock case cable into the ports on inside escutcheon.



4.9 Install batteries, battery box cover and inside escutcheon bottom cover. Installation finished.

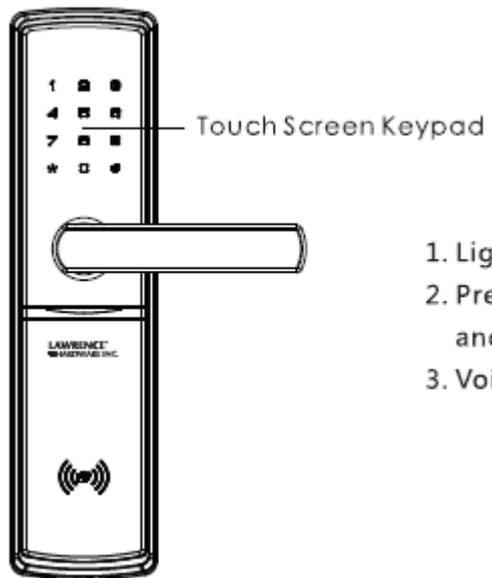


4.10 Test if handles, thumb turn and mechanical key are working well.



## 5. How to set up your product

### 5.1 How to enter master mode

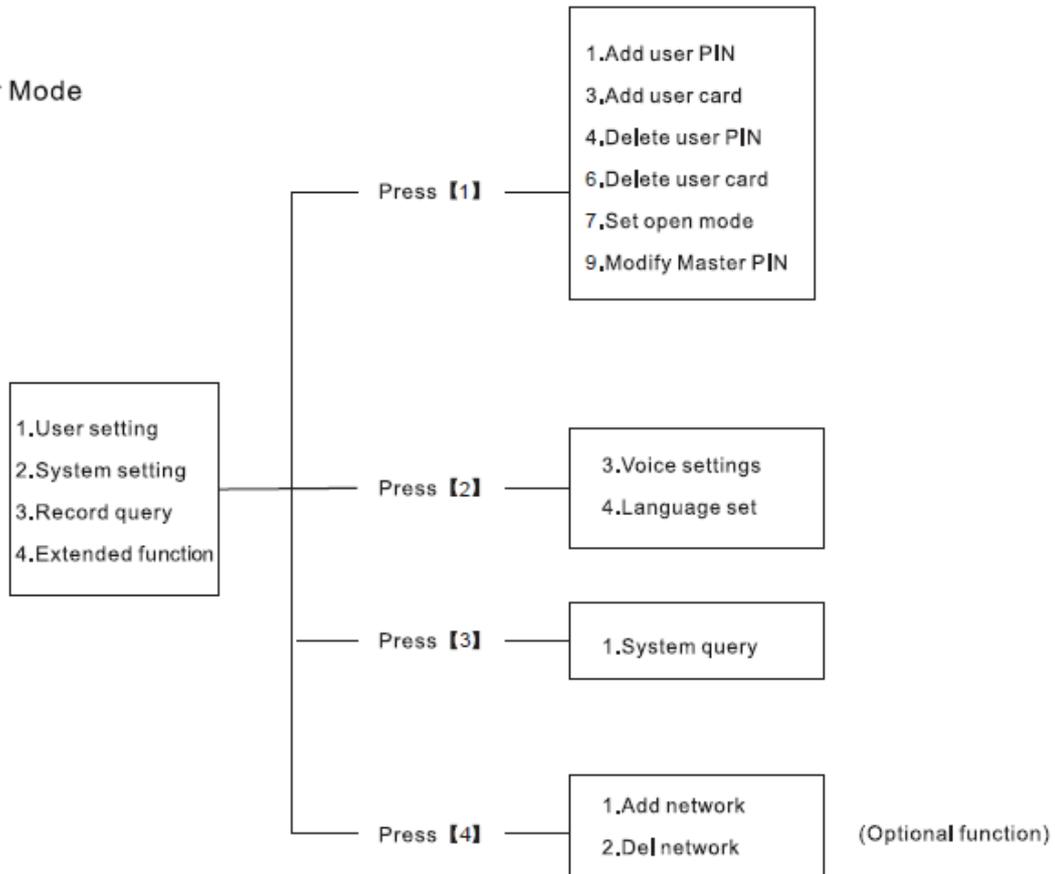


1. Lig
2. Pre  
and
3. Voi

1. light up touch screen with your palm.
2. Press[\*] twice, input master PIN code and press [#] to confirm.
3. Voice guide: Enter the master mode

## 5.2 Menu in Master Mode

## Master Mode



## NOTES

1. You can operate following the voice guide.
2. Master and user PIN code have 6-12 digits, the default Master PIN code is [12345678].
3. Maximum quantity of PIN code is 10pcs, number of PINcode from 00 to 09.  
Number from 05-08 are temporary PIN codes, could be used only once.
4. Maximum quantity of card is 100pcs, number of card are 00 to 99.
5. Input 400+[#] to check product serial number.

## User setting

### Add user PIN code

1. Enter master mode, and press [1] to enter user settings, press [1] to add user PIN code.
2. Input user PIN code number(00-09), press [#] to confirm.

3. Input 6-12 digits of user PIN code and press [#] to confirm. Voice guide: add succeed.

Notes: User PIN code number: User PIN codes can be set up with PIN code numbers.

00-04: Normal user PIN code number

05-08: Temporary user PIN code number, it will be deleted automatically after one time use.

09: Emergency PIN code, under threatening situation, it will send alarm signals to other users through wireless module.(optional)

### **Add user cards**

1. Enter master mode(refer to item 5.1), press [1] into user settings, press [3] to add user card.

2. Input card number(00-99), press [#] to confirm.

3. Put card close to card reader area until hear the sound “di”, Voice guide: add succeed.

### **Delete user PIN code**

1. Enter master mode (refer to item 5.1), press [1] to enter user setting, press [4] to delete user PIN code.

2. press [1] to delete single PIN code, input PIN code number that you want to delete, press [#] to confirm. Voice guide: Deletion succeed.

3. Press [2] to delete all user PIN codes. Voice guide: Deletion succeed.

### **Delete user cards**

1. Enter master mode(refer to item 5.1), press [1] to enter user setting, press [6] to delete user card.

2. press [1] to delete single card. Input card number that you want to delete, press [#] to confirm, or put the card on card reader area until hearing the sound “di”. Voice guide: Deletion succeed.

3. Press [2] to delete all cards. Voice guide: Deletion succeed.

### **Set up open mode**

1. Enter master mode(refer to item 5.1), press [1] to enter user setting, press [7] to set up open

mode.

2. Press [1] choose normal mode, opening way: PIN code or card.
3. Press [2] to choose safe mode, opening way: PIN code+card double verification.

Notes: Under safe mode, the operation of “deleting all” can not be done.

### **Modify master PIN code**

1. Enter master mode(refer to item 5.1), press [1] to enter user setting, press [9] to modify master PIN code.
2. Input new master PIN code(6-12 digits), press [#] to confirm and input new PIN code again, press [#] to confirm. Voice guide: setting succeed.

Notes: Please modify master PIN code after installation.

## **System settings**

### **Voice settings**

1. Enter master mode(refer to item 5.1), press [2] to enter system settings, press [3] to enter voice settings.
2. Press [1] to set up operation sound on, then product will provide operationsound.
3. Press [2] to set up operation sound off, then system will not provide operation sound except alarm and voice guide in master mode.

### Language setting

1. Enter master mode(refer to item 5.1), press [2] to enter system settings, press [4] to enter language setting.
2. Press [1] to choose Chinese, then the voice guide will be in Chinese.
3. Press [2] to choose English, then the voice guide will be in English.

## System query

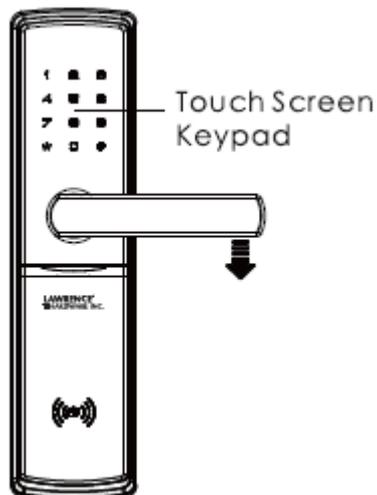
### Serial number query

1. Enter master mode(refer to item 5.1), press [3] to enter system query.
  2. After entering system query, press [1], then the serial number of the lock will be read.
- ※ You can also check your serial number by inputting 400+[#].

## 6. How to use your product

### 6.1 Under normal mode

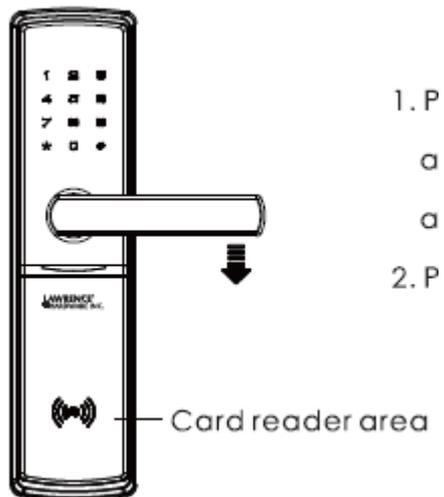
#### 6.1.1 PIN code opening



1. Wake up keypad with your palm.
2. Input added user PIN code, press [#] to confirm. Voice guide: Verification succeed.
3. Push handle to open the door.

NOTES: Users can input face PIN code before or after correct user PIN code(the input PIN code can not be over 30 digits including fake PIN code).

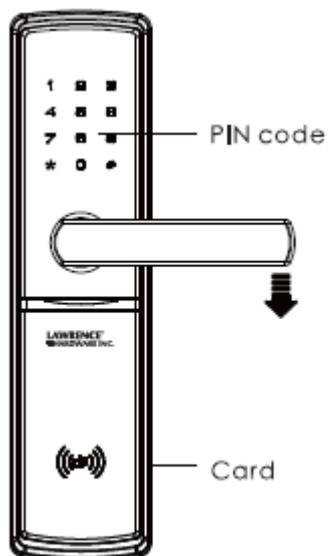
#### 6.1.2 Card opening



1. Put registered card close to card reader area, voice guide: Verification succeed after hearing sound "di".
2. Push handle to open the door.

### 6.2 Under safe mode

Under safe mode, it needs double verification to open the door.

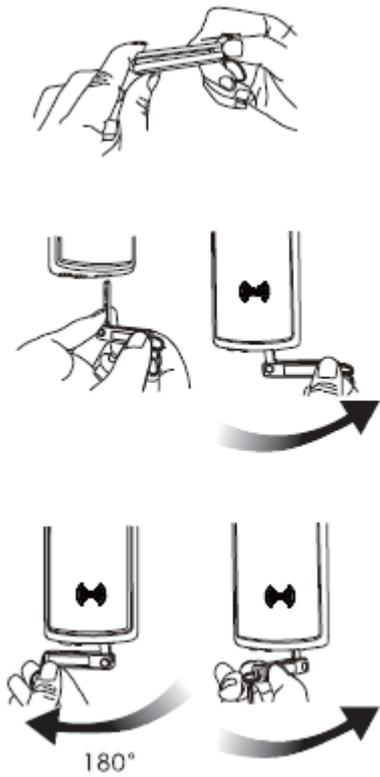


1. PIN code+card

### 6.3 Mechanical key opening

When meeting emergency of forgetting PIN code, power down or system error, you can use

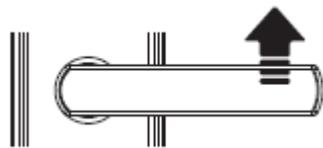
mechanical key to open the door.



Insert the mechanical key into the key hole and turn the key, then you can push handle to open the door.

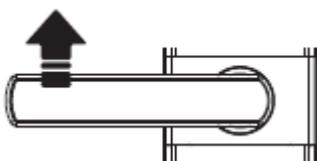
## 6.4 Dead locking

### 6.4.1 Dead locking from outside



Lift handle up

### 6.4.2 Dead locking from inside



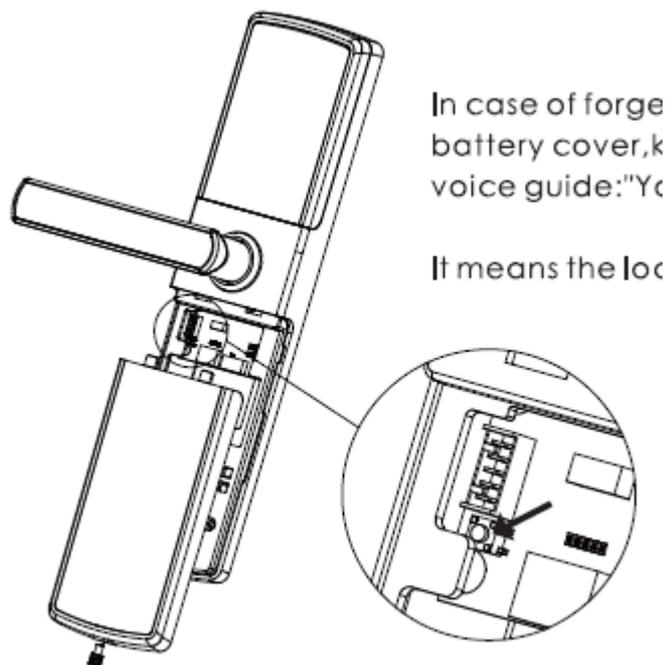
Lift handle up

Note:

1. For security consideration, if user doesn't open the door within 5 seconds after verification, the lock will locked again.
2. If continuously inputting wrong PIN code, card 10 times, such verification method will be locked down for 5 minutes.

## 7. Other functions

### 7.1 Restore to factory settings



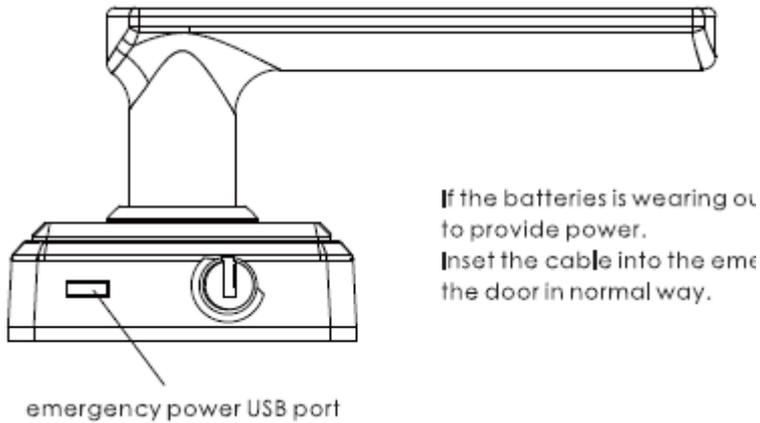
In case of forgetting master PIN code, you can remove the battery cover, keep pressing the reset button for over 5 seconds. Voice guide: Your lock has restored to factory settings.

It means the lock has been restored to factory settings successfully.

All the PIN codes/cards added before will be cleared after restoring to factory settings.

The master PIN code will restore as [12345678], please modify master PIN code as soon as possible.

### 7.2 How to use emergency power USB port

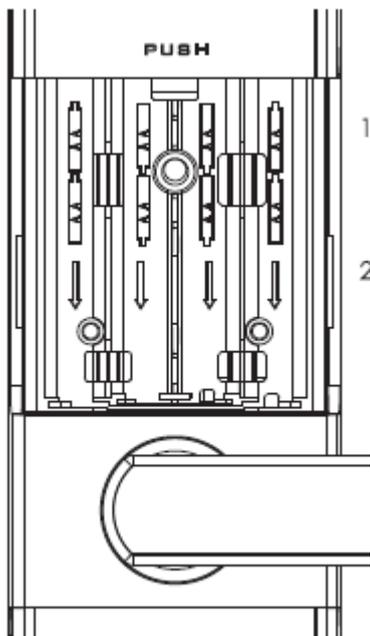


If the batteries are wearing out, you can connect micro-USB 5V to provide power.

Insert the cable into the emergency power USB port, then open the door in normal way.

NOTES: When the power is lower than 4.8V, system will sound voice guide: "Low power, please replace the battery" after every time you unlock the door. Under this situation, please change batteries ASAP.(Do not use different types of batteries or old and new batteries together).

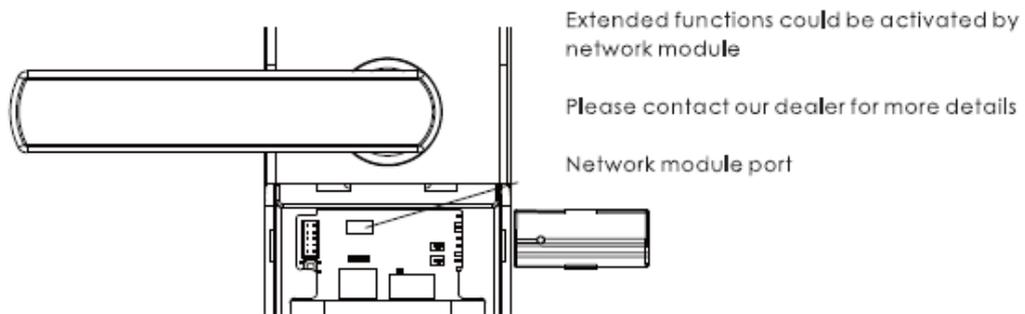
### 7.3 How to change batteries



1. In the battery box you can put 8 AA 1.5V Alkaline batteries maximum. It can be used for over one year(10 times per day). Battery life is relative to user's using habits, using environment, optional function and so on.

2. Voice guide of replacing batteries : when hearing "Low power, please replace the battery", please change batteries as soon as possible.

## 7.4 Extended functions



Extended functions could be activated by network module.

Please contact our dealer for more information.

## Z-wave User Guide

Installing the Z-wave Plus Module.

**IMPORTANT:** the batteries must be removed prior to removing and/or inserting the network module:

- Remove battery cover and batteries.
- Remove and/or insert network module.
- Re-install batteries and battery cover

### About Z-wave

This lock is a security enabled Z-wave product.

Inclusion(add) is detailed in this guide under “Add/Del Network”

Exclusion(Del) is detailed in this guide under “Add/Del Network”

This lock could be integrate with any Z-wave controller, from any manufacturer.

The lock will have limited functionality if integrated with a non-secure controller.

## **Z-wave function descriptions**

This device is a security enabled Z-wave Plus product that is able to use encrypted Z-wave Plus messages to communicate to other security S2 enabled Z-wave Plus products. This device must be used in conjunction with a security enabled Z-wave controller in order to fully utilize all implemented functions. This product can be operated in any Z-wave network with other Z-wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

Add network inclusion Z-wave network and enrolls the lock.

Enter master mode(refer to item 5.1)

Input “4” to enter Extended functions”

Input “1” to join network.

Del network Exclusion Z-wave network and un-enrolls the lock

Enter master mode(refer to item 5.1)

Input “4” to enter Extended functions”

Input “2” to delete network.

### **Factory reset - if no controller:**

See the lock user manual

Please use this procedure only when the network primary controller is missing.

## **Associations**

The lock supports 2 association groups. Per Z-wave Plus requirements, group 1 is assigned to the

lifeline group. The lifeline group supports the following unsolicited messages:

Group ID	Maximum Nodes	Description	Commands
1	5	Lifeline	Command_Class_Battery,Battery_Report;  Command_Class_Door_Lock,Door_Lock_Report;  Command_Class_Device_reset_locally,Device_Reset_locally_notification;

Group 2 is available for all notification reports and can be used to send notifications to at most 5 other nodes.

#### **Command Class Door Lock, Version 2\***

\*Command Class Requires Security

Kaadas Z-wave Plus locks only support 2 door lock modes : Door Secured(0xFF) and Door Unsecured (0x00)

Kaadas locks do not support timed operation from the door lock command class.

#### **Command Class User Code, Version 1\***

\*Command Class Requires Security

The door lock will only retain valid user code types(0x00,0x01, and 0x02). All other values will be ignored.

User can only set up one group temporary PIN code through Z-wave control, the temporary PIN code must be 6-10 digits other than a simple PIN with consecutive digits or equal digits.

Corresponding PIN code in the lock is the PIN code number "08".

Kaadas locks support multiple different user status bytes:

<b>User status byte value</b>	<b>Description</b>
0x00	available
0x01	occupied
0x02	ignore