

MODEL: LIS2018-TDT-1550/20



## USER GUIDE

MODEL: LIS2018-TDT-1550/20

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GUANGDONG LEVEL INTELLIGENT LOCK INDUSTRIAL CO., LTD

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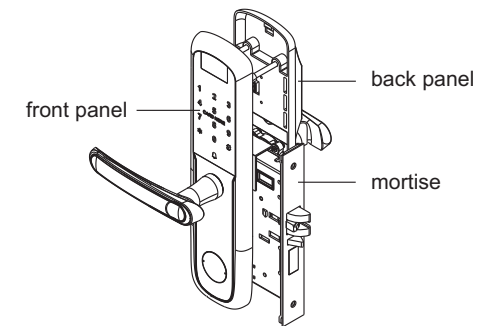
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## 1.1 Lock Model and Shape

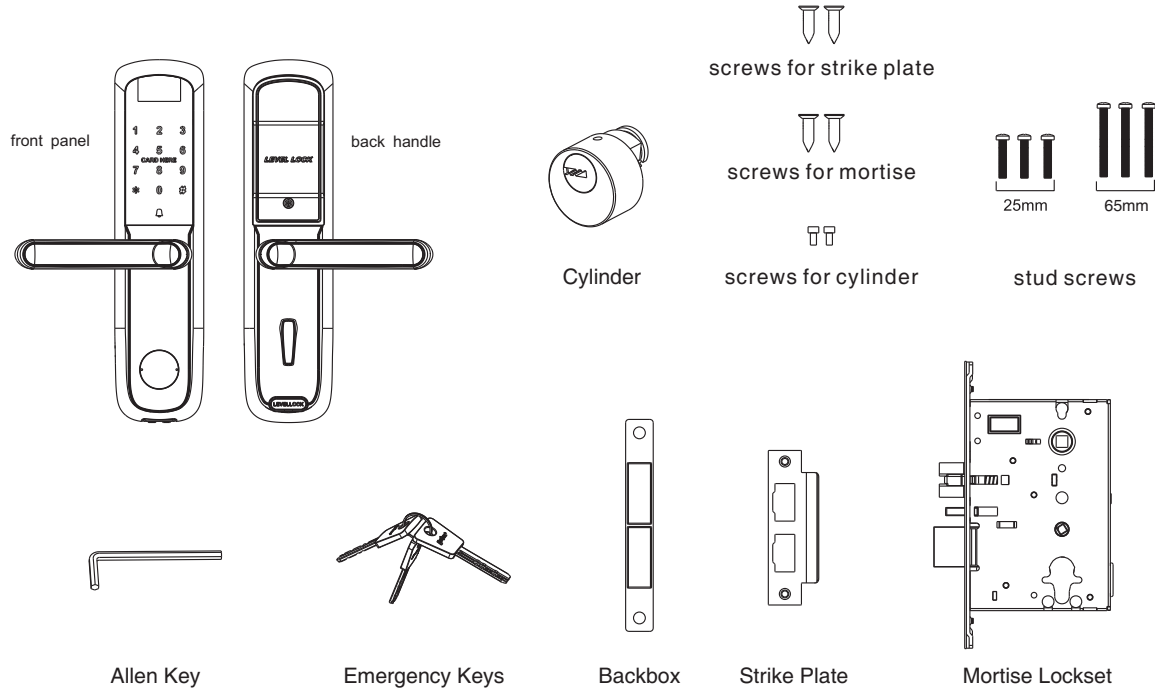


Product Model	Finishing	Net Weight
LIS2018-TDT-1550/20	CR, SPVD	3.8kg

## 1.2 Basic Functions

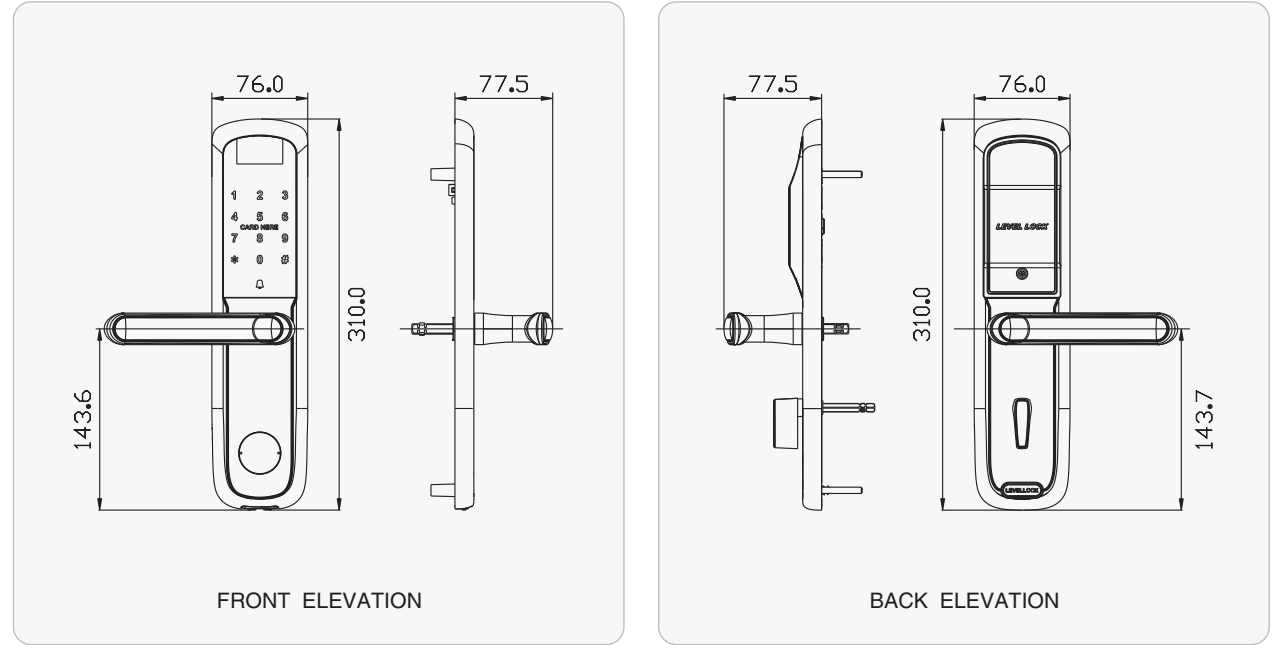
- 1 Perfect combination of mechanical and identification technology;
- 2 Unlocking methods:(1).by RFID card; (2).by keypad; (3).by mechanical key;
- 3 Mechanical dead bolt ;
- 4 Sub-card and password can be added or deleted separately;
- 5 With 4pcs1.5V LR6 alkaline batteries as power supply. The battery life can be up to 20000 times unlocking;
- 6 Low voltage alarm: If the battery voltage becomes low, alarm will act and in this case the door can be still opened for 50 times;
- 7 The passage mode can be set for meeting use by RFID card or code;
- 8 Latch alarm: if the latch does not stretch completely, alarm will make in 3 seconds;
- 9 Anti-latch-insert: to prevent the latch from unlocking illegally;
- 10 Touch electronic screen Keypad: Display menu;
- 11 Keypad shutdown 2min if the code input wrongly 5 times;
- 12 Free turning mortise is available to choose;
- 13 Free turning handle : the direction of handle can be set before installation;
- 14 Bell function: the ring of bell indicats someone outdoor;
- 15 Supporting by external power supply;

1.3 Lock Components



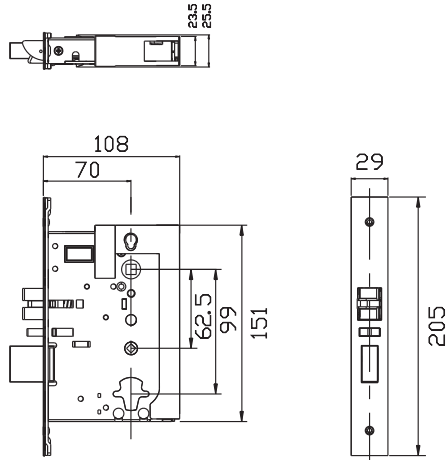
1.4 Lock Body Dimensions

unit:(mm)

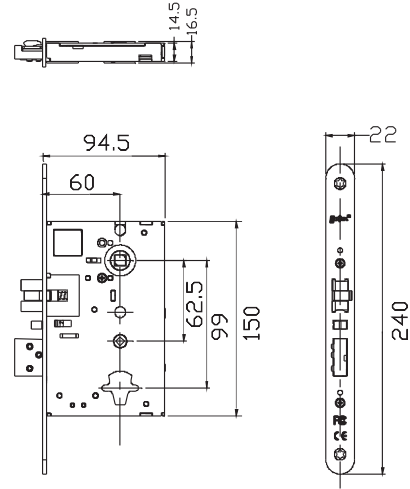


1.5 Mortise Dimensions

standard mortise:M001 upside down

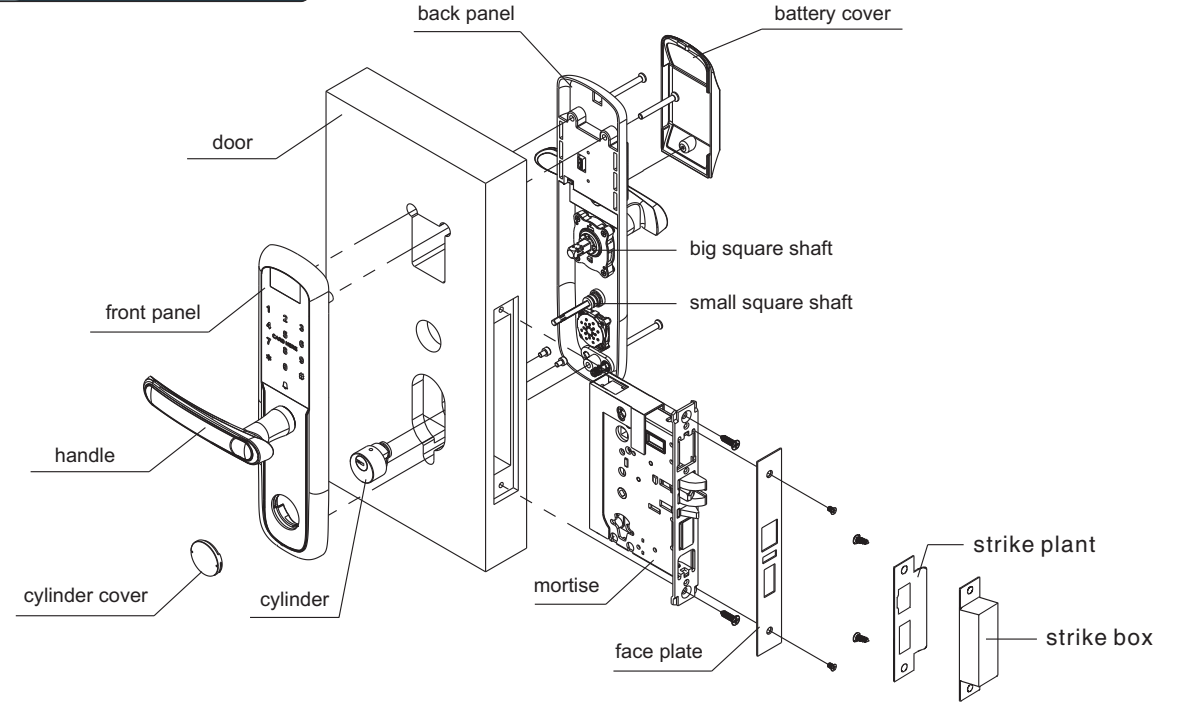


optional mortise:M003 upside down



unit:(mm)

1.6 Exploded Diagram



## Chapter 2 Installation of lock

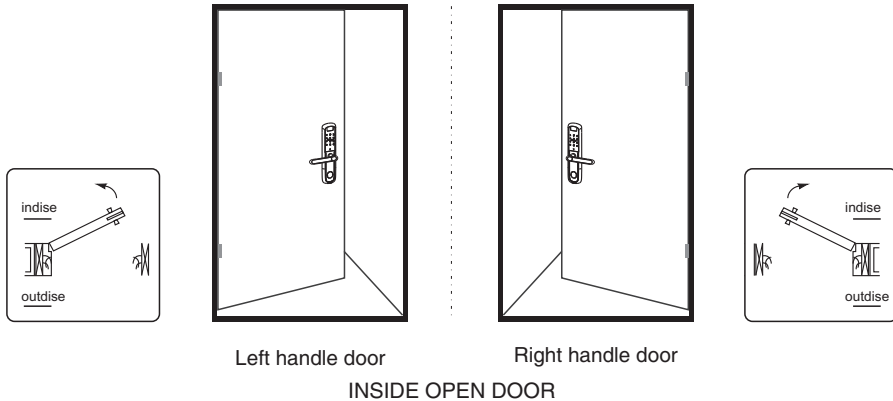
### 2.1 Precautions

- The locks should be installed by experienced specialists.

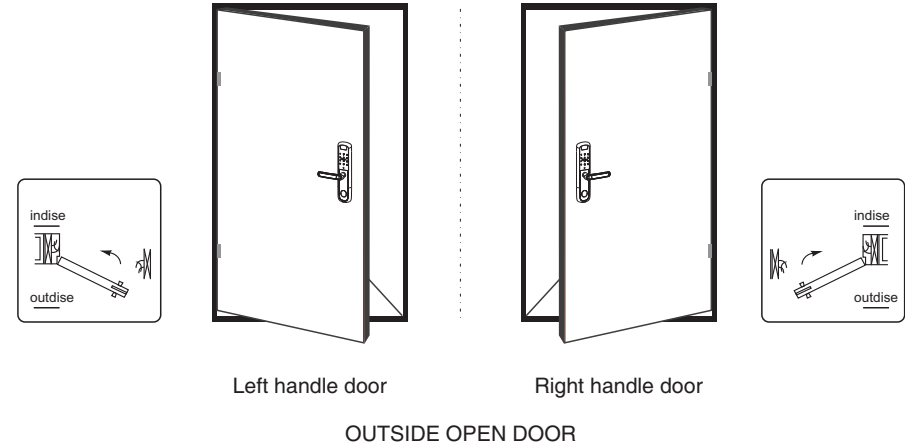
### 2.2 Installation Requirement

- (1).door: it should be wooden door or anti-theft door. As for anti-theft door, the hole should be cut by door provider.
- (2).door thickness: 28-70mm.
- (3).if there is decoration on the door, the width between the door's edge and decoration should be at least 120mm.

### 2.3 Direction Of Lock



## Chapter 2 Installation of lock



#### Left-handle

When standing outside the room and facing the door, the hinge is on the left hand side.

#### Right handle

When standing outside the room and facing the door, the hinge is on the right hand side.

#### Inside open

When standing outside the room and facing the door, one has to push forward to open the door.

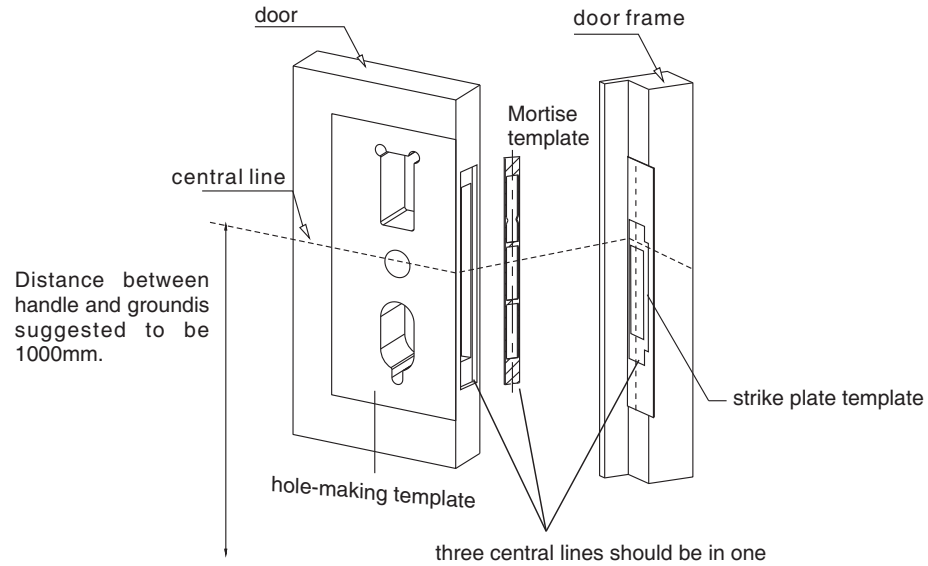
#### Outside open

When standing outside the room and facing the door, one has to pull out to open the door.

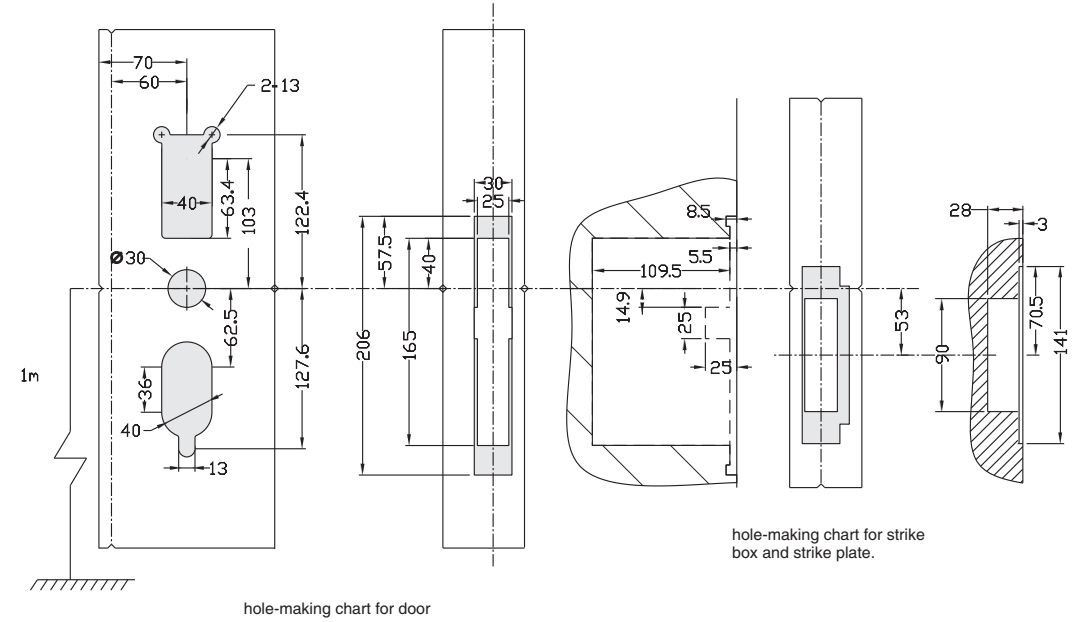
2.4 Installation Steps

2.4.1. Drilling holes

Drilling the holes according to the installation drawings or hole-making templates .  
The handle central line should be about 100cm from the ground.



unit: (mm)



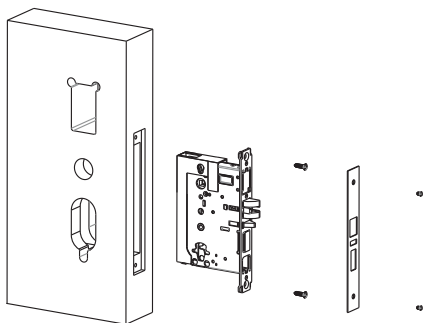
### 2.4.2. Installing mortise

(1).install mortise on mortise chamber which has been drilled and cut on the door.

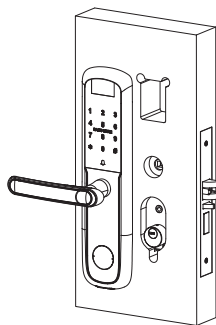
Note: the mortise signal cables must be lead out from the front hole.

(2).fix the mortise with 2pcs ST5\*20 tapping screws. (figure 2.4a)

(3) fix the face plate with 2pcs M4\*6 cross countersunk head screws. (figure 2.4a)



(figure 2.4a)



(figure 2.4b)

### 2.4.3. Installing cylinder

Locate the cylinder on mortise through the hole cut on the outside door then fix it with 2pcs M4\*8 inner hexagonal stigma screws from other side of door.

### 2.4.4. Installing front panel

(1). connect signal cable of mortise to the socket of front panel and make sure they are firmly connected.

(2). adjust the direction of handle

(3). Insert the big square shaft and small square shaft into relevant hole of front panel and the mortise. The three screw columns must match the relevant hole on the door. (Figure 2.4b)

### 2.4.5. Installing back panel

(1). Insert another big square shaft and small square shaft into relevant hole on back panel.

(2). adjust the direction of handle.

(3). fix the back panel with 3pcs M5\*25 cross semi-countersunk head screws.

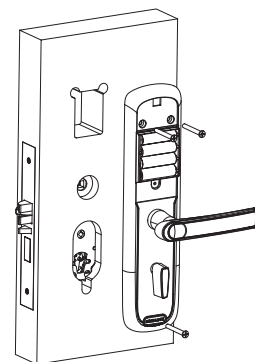
Note:

(1). When door thickness is 40-54mm, fixing front and back panel with 3pcs M5\*25 thumb head screws.

(2). When door thickness is 55-70mm, fixing front and back panel with 3pcs M5\*45 thumb head screws.

(3). The cable of power should be put through the hole and connect to the corresponding socket of front panel.

(Figure 2.4c)

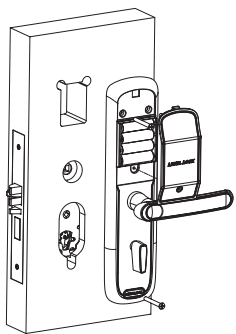


(figure 2.4c)

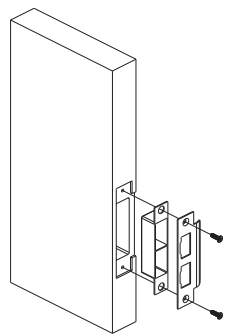


### 2.4.6. Loading batteries

Insert a pin or small shark stick to the small hole in the cover and move upward to open it, then load in batteries. (Figure 2.4d)



(figure 2.4d)



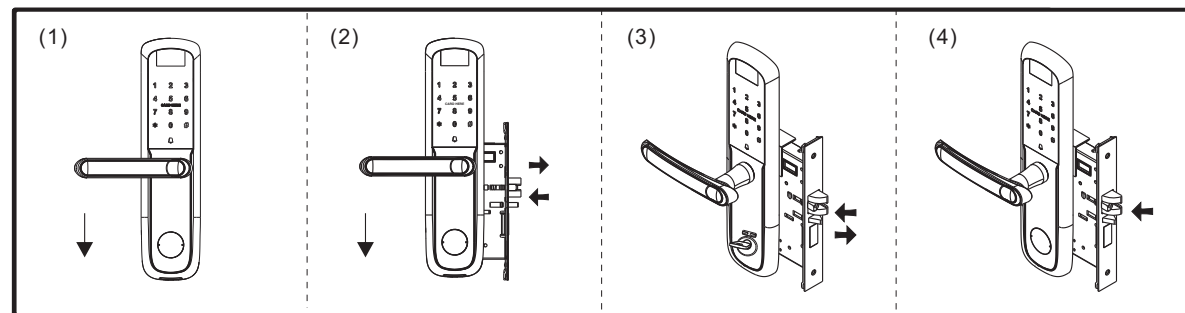
(figure 2.4e)

### 2.4.7. Installing the strike box and strike plate

Fixing strike plate and strike box into door frame with 2 peaked tappingscrews ST 4.8\*19 (figure 2.4e)

### 2.4.8. Testing the lock

- (1). turn handle to test its flexibility.
- (2). turn handles to open and turn the knob on back panel to test the flexibility of latches and deadbolt.
- (3). open the door with mechanical key to test the flexibility of latch and dead bolt.
- (4). test the anti-trust latch whether it can prevent the latch from unlocking illegally.(figure 2.4f)



(figure 2.4f)

### 3.1 Initialization Operation

Put off batteries, insert the mechanical key to the lock and twist it to keep the latch inside, then load in batteries again. A "Di" is sounded, and red light on. Turn mechanical key for ten times, blue light on, and red light flash at the same time. In this way, all data in the lock will be deleted.

All the cards and codes will be clear after initialization.

### 3.2 Activating The Keypad

Touch the keypad lightly, discretionarily two numbers bright (the two numbers are using for PUK keypad). Touch the two numbers to PUK keypad.

### 3.3 Card Classification & Functions

#### 1.Mother Card:

- a.Open doors (even in double locked state);
- b.Set & delete Sub-cards.

#### 2.Sub-cards: User Card, Special Card(VIP Card) & Normal card(Passage card)

- a.User Card:Opening doors, but it can not open in double locked state.
- b.Special Card(VIP Card): Open doors (even in double locked state);

**Remarks:** both Mother Card and Special Card can open doors even in double locked state, the difference between them is Mother Card can set & delete Sub-cards.

c.Passage card:Once read this card to the lock, the lock state can be changed from Lock Mode to Passage Mode; read it again, it turns back to Lock Mode.

#### **Remarks:**

Lock Mode: when door in Lock Mode, only card or code or mechanical key can open the door.  
Passage Mode: when door in Passage Mode, turning handle outside can open the door (card or mechanical key is not needed).

#### 3.Card Quantity

Mother card: 1pc;

Sub-cards: three kinds of Sub-cards can be free combination within 100pcs.

### 3.4 Card Setting

#### 1.Mother Card Setting

a.Insert the mechanical key to the lock; turn it to keep the latches inside, a short "Di" is sounded, red light on and turn to blue light after 5s; release the key and menu appears on the screen.

b.Input the numbers step by step, "1 SET→1 CARD SET→1SET CARD→4 MOTHER CARD", and then read a blank card to the lock, one short "Di" is sounded, it indicates the Mother Card is set successfully and input "\*" for exiting.

#### **Remarks:**

a.Only one Mother Card can be set for one lock; moreover, Sub-cards can not be set without it, so keeping it safely is suggested.

b.If Mother Card is lost, choosing "3 factory set" in the menu and setting another blank card as above instruction. In that case, all other sub-cards will be invalid and the old mother card can be replaced by the new one.

c.Another method to set up the new mother card: put off batteries, twist mechanical key, install batteries again, one short "Di" is heard and read light on, then twist mechanical key five times and stop. The lost mother card will be invalid but the sub-cards are valid. At last, setting another blank card as above instruction.

## 2. User Card Setting

a. When door in normal state, read the Mother Card to lock, one short “Di” is sounded, blue light is on, and the sound of motor running is heard (the door can be opened in this state, but no handle action is needed in this process). The motor will be rebooted and door will closed automatically 5 seconds later.

b. Read Mother Card in normal state for more than 5s, the menu will be shown on the screen. Input the numbers step by step, “1 SET→1 CARD SET→1SET CARD→1 USER CARD”, and then read a blank card to the lock, one short “Di” is sounded, it indicates the User Card is set successfully and input “\*” for exiting.

## 3. Special Card Setting (VIP Card)

a. When door in normal state, read the Mother Card to lock, one short “Di” is sounded, blue light is on, and the sound of motor running is heard (the door can be opened in this state, but no handle action is needed in this process). The motor will be rebooted and door will closed automatically 5 seconds later.

b. Read Mother Card in normal state for more than 5s, the menu will be shown on the screen. Input the numbers step by step, “1 SET→1 CARD SET→1SET CARD→2 VIP CARD”, and then read a blank card to the lock, one short “Di” is sounded, it indicates the VIP Card is set successfully and input “\*” for exiting.

## 4. Normal Card(Passage Card) Set

a. When door in normal state, read the Mother Card to lock, one short “Di” is sounded, blue light is on, and the sound of motor running is heard (the door can be opened in this state, but no handle action is needed in this process). The motor will be rebooted and door will closed automatically 5 seconds later.

b. Read Mother Card in normal state for more than 5s, the menu will be shown on the screen. Input the numbers step by step, “1 SET→1 CARD SET→1SET CARD→3 NORMAL OPEN”, and then read a blank card to the lock, one short “Di” is sounded, it indicates the Passage Card is set successfully and input “\*” for exiting.

## 3.5 Card Deletion

## 1. How to Delete Single Card or Several Cards

a. When door in normal state, read the Mother Card to lock, one short “Di” is sounded, blue light is on, and the sound of motor running is heard (the door can be open in this state, but no handle action is needed in this process). The motor will be rebooted and door will closed automatically 5 seconds later.

b. If deleting single card, read Mother Card in normal state for more than 5s, the menu shown on the screen. Input the numbers step by step, “1 SET→1 CARD SET→ 2 DEL CARD→ DEL BY ID→ Input the ID No.(001-100)”, and then input “#” for confirmation, one short “Di” is sounded, it indicates deleting successfully and input “\*” for exiting.

c. Another way to delete single card: read Mother Card in normal state for more than 5s, the menu will be shown on the screen. Input the numbers step by step, “1 SET→1 CARD SET→2 DEL CARD→2 DEL BY CARD”, and then read the deleted card to the screen, one short “Di” is sounded, “DEL OK” appears in the screen which indicates deleting successfully and input “\*” for exiting.

d. If deleting according the card type, read mother card in normal state for more than 5s, the menu shown on the screen, operating step by step “1 SET→1 CARD SET→2 DEL CARD→3 DEL TYPE→1 CLR USER CARD; 2 CLR VIP CARD; 3 CLR OPEN(NORMAL) CARD”, and then one short “Di” is sounded, “DEL OK” appears in the screen which indicates deleting successfully. At last, input “4 RETURN” for exiting.

### 3.6 Unlocked By Cards

#### 1.Mother Card

Read Mother Card to the lock, one short “Di” is heard and blue light is on 1 second, door can be opened by turning handle.

#### 2.User Card

Read User Card to the lock, one short “Di” is heard and blue light is on 1 second, door can be opened by turning handle.

#### 3.Special Card( VIP Card)

Read Special Card to the lock, one short “Di” is heard and blue light is on 1 second, door can be opened by turning handle.

#### 4.Passage card( Normal Card)

Reading Passage card, two short “Di-Di-”is heard and blue light is on 1 second, door can be opened by turning handle.

#### Remarks:

a.When the door is double locked, if reading User card, one short “Di” is heard and blue light flashes, then red light is on for 1 second, which indicates the door can not be opened. (Reading User Card can not open the door when the door is double locked.)

b.After reading Mother Card, User Card or Special card to open the door, the lock will turn back to normal state automatically after 5 seconds.

c.If reading cards without setting, one short “Di” is heard, blue light flashes once and red light is on for 1 second, which indicates the door can not be opened.

d.The lock will be unlocked once read passage card again on the state of passage mode.

### 3.7 Setting Password

a.Set the first group password: Read mother card in the normal state for more than 5s, the menu is shown on the screen, operate as followed “1 SET→2 PASSWORD SET→ 1SET PASSWORD”, and then input “01” and another 8 figures. Finally, press “#” to confirm the password. If one long “Di-” is heard, the blue light is on the screen, which indicates the first group password has been set successfully.

b.Set the second group password: Read mother card in the normal state for more than 5s, the menu is shown on the screen, input as follow “1 SET→2 PASSWORD SET→ 1SET PASSWORD”, and the input “02” and another 8 figures. Finally, press “#” to confirm the password. If one long “Di-” is heard, the blue light is on the screen, which indicates the first group password has been set successfully.

#### Remarks:

a.Only two groups of password can be set.

b.Only the password started with “01” or “02” is valid.

c.The new password with the same beginning “01” or “02” will covers the previous one. For example, if setting “0112345678” and set another “0187654321” later, the previous one will be covered by the later one.

### 3.8 Password Deletion

Read mother card in the normal state for more than 5s, the menu is shown on the screen, input as followed “1 SET→2 PASSWORD SET→ 2 DEL PASSWORD”, and then input “01#” of “02#”, one short “Di” hear, which indicated that the password is deleted successfully.

### 3.9 Opening With Password

Touch the keypad lightly, discretionarily two numbers bright (the two numbers are using for PUK keypad). Touch the two numbers to PUK keypad. Input password and then press “#” for confirmation, one short “Di” is heard and blue light on, and the sound of motor running is heard, the door can be opened in this state. The motor will be rebooted and door will close automatically 5 seconds later.

**Remarks:**

- a.If password is wrongly input, red light will be on for 1s and two short “Di Di” will be heard and the light will off later. In that state, the door can not be opened.
- b.If password is wrongly and continually input 5 times, the alarm will be sounded, blue and red light will be flashing alternately. The touch keypad will be locked and can not be input for 5min.
- c.In emergency, the door can be opened by mechanical key.

### 3.10 Factory Reset

Read mother card in the normal state for more than 5s, the menu is shown on the screen, choosing “FACTORY SET” and pressing “#” for confirmation. In the case, all data will be cleared up. The card should be re-issued and the password should be reset.

**Remarks:**

If unnecessary, don't take it into consideration.

### 3.11 Low Power Warning

If 3 short “Di” is heard and red light is on for about 1 second when unlocked, it indicates low battery voltage. In this case, please change the batteries at once.

The door will be locked automatically after giving this alarm 50 times in the low power state. And cards can not be used to open the door.

How to release this state (3 ways):

- a.Read any cards (any card can be open the door) 3 times to open the door, and change batteries as soon as possible.
- b.Or use mechanical key to open the door, and change batteries as soon as possible.
- c.Or use the outer power supply to power the lock, then open the door with card or password, and change batteries as soon as possible.

Batteries are recommended to change immediately once low voltage alarm works.

## Chapter 4 Maintenance

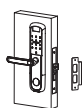
### 4.1 Maintenance



keep away from corrosive substance in case of damaging the protection layer of locks.



Do not hang stuffs on the handle in case of damaging its flexibility.



If the door deforms and the latch cannot go into the strike box smoothly, you have to adjust the position of the strike plate.



If the low voltage alarm makes, please change the all batteries simultaneously.



Pay attention to the direction of negative and positive pole.



Keep the mechanical key in safe place.