

Product Specification

Product Name: US Deadbolt lock

Model Name: DSL-090-1

Revision History

Specification		Sect.	Update Description	By
Rev	Date			
1.0	2023-03-08		New version release	Cuihao
1.1	2023-03-09		Add product label description	Cuihao
1.2	2023-03-15		Add how to enter programming mode description	Cuihao

Approvals

Organization	Name	Title	Date

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1 Introduction

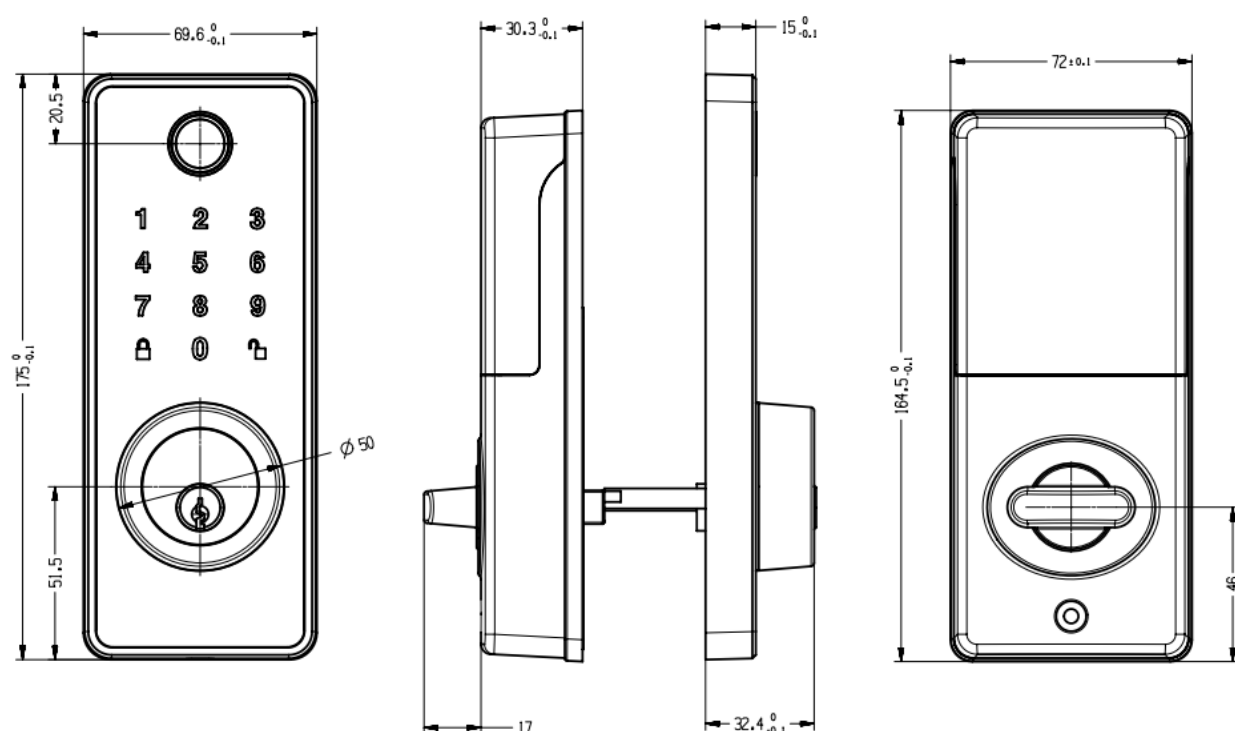
1.1 Purpose& Description

DSL-090-1 powered by Roombanker is convenient to protect your home safety. It's easy to install, easy to use. It supports four unlocking methods, such as card, fingerprint, password and mechanical key. This product can be applied to family, apartment and hotel scenes.

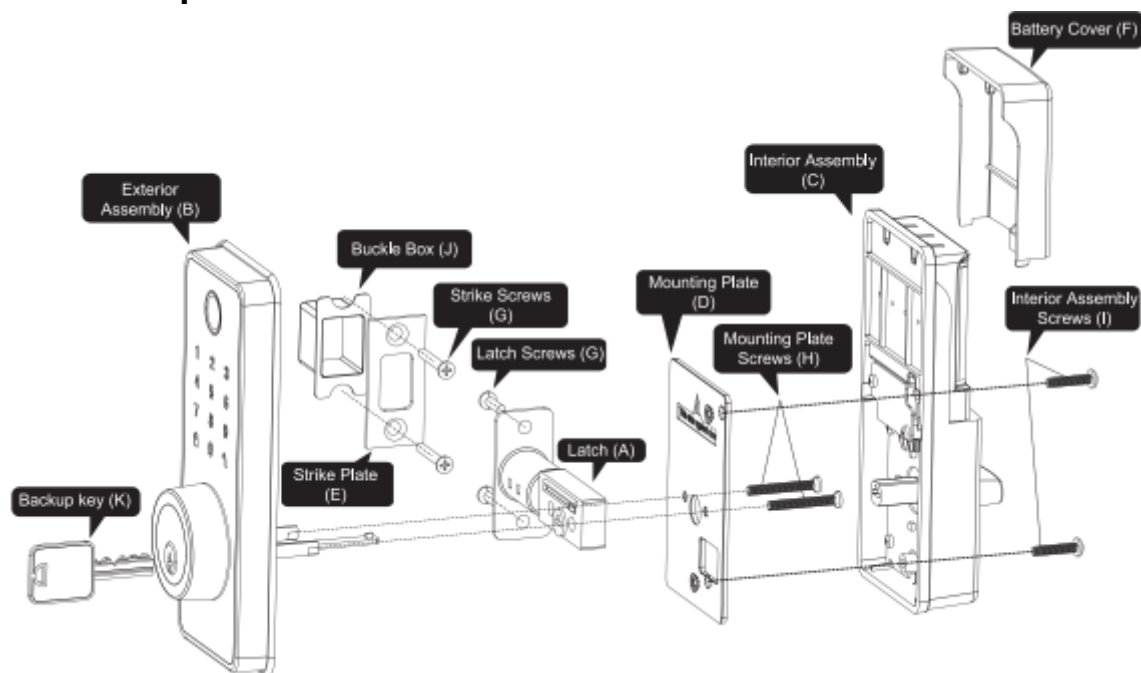
This guide will help you to get through the initial setup to installation.

2 Mechanical Requirement

2.1 Drawing



2.2 Components List



Parts List

A Latch x1 	B Exterior Assembly x1 	C Interior Assembly x1 	D Mounting Plate x1 
E Strike Plate x1 	F Battery Cover x1 	G 3/4"(19mm) Strike/Latch Screws x4 	H 1-5/32" (33mm) Mounting Plate Screws x2 
I 3/4"(19mm) Interior Assembly Screws x2 	J Buckle box x1 	K Backup key x2 IC Cardx2 	L IC Cardx2 

3 Specification

	Performance
2.4G hz wireless protocol	●Transmission frequency: 2.400 - 2.4835GHz ●TX power: up to10dBm,adjustable ●RX sensitivity: -101 dBm @125 kbps ●Transmission distance: 50~100 meters (open area) ●Active mode RX:8.8mA ●Active mode TX:9.3mA@0dBm
Operation temperature	-25 ~ 55°C
Storage temperature	-25 ~ 60°C
Operation humidity	RH ≤85%
Power supply	DC 6V, AA*4
Sleep current with 2.4G on	<100uA

4 Installation Guide

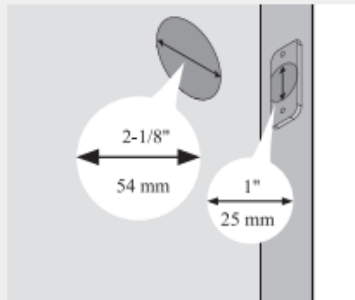
Step1 Prepare the door and check dimensions

If you need to drill a new door, use the supplied template and the complete door drilling instructions.

A

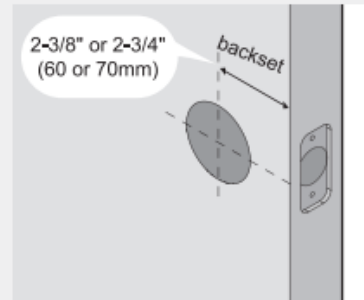
Measure to confirm that the hole in the door is 2-1/8" (54mm).

Measure to confirm that the hole in the door edge is 1" (25mm).



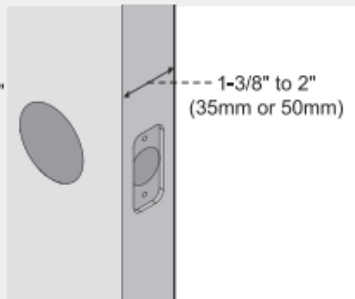
B

Measure to confirm that the backset is either 2-3/8" or 2-3/4" (60 or 70mm)



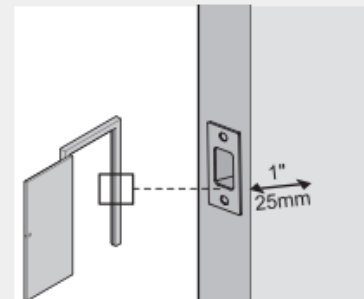
C

Measure to confirm that the door is 1-3/8" to 2" (35 mm or 50mm) thick.

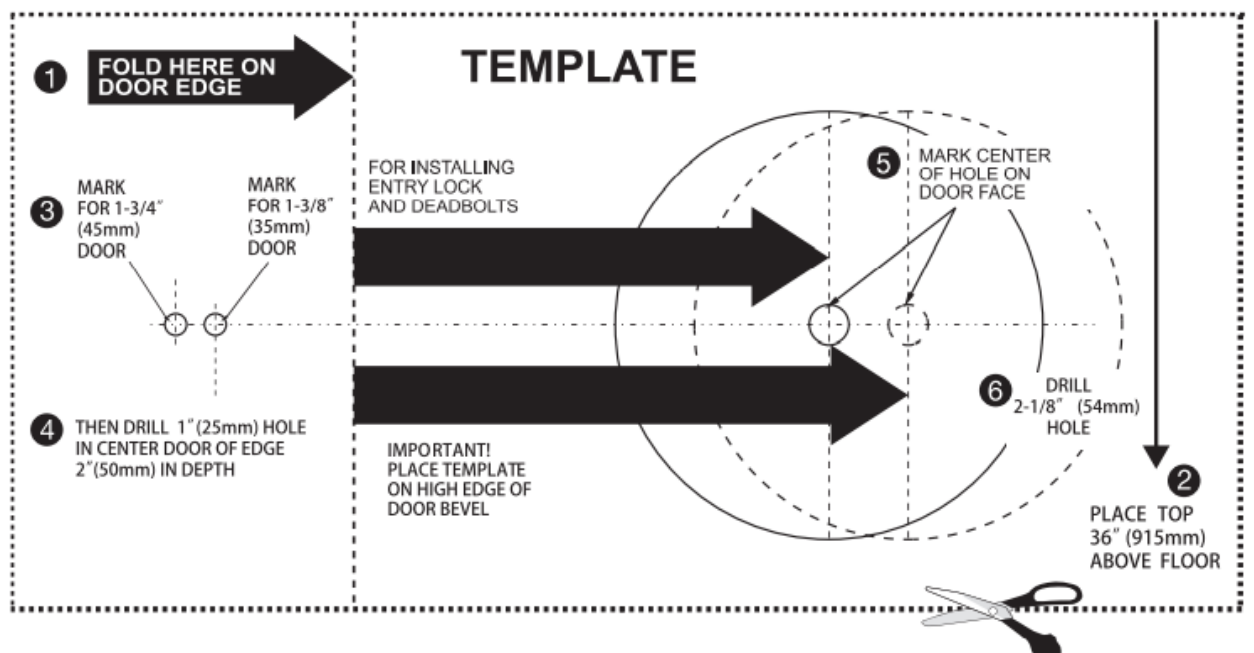


D

Make sure the hole in door frame is drilled a minimum of 1" (25mm) deep.



Template



1. TEMPLATE

1-a. Cut out template printed in this manual.



1-b. Fold template and place on door 36" (915mm) from the ground as marked.



2. MARK THE DOOR FOR DRILLING

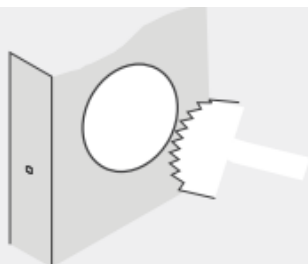
2-a. Mark center hole on door edge through guidance on template for 1" (25mm) latch bolt.



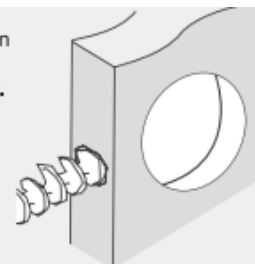
2-b. Mark center hole on door face through guidance on template for 2-3/8" (60mm) or 2-3/4" (70mm) backset.



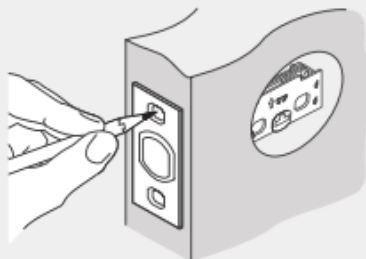
3-a. Drill 2-1/8" (54mm) hole through door panel as marked for lock set.



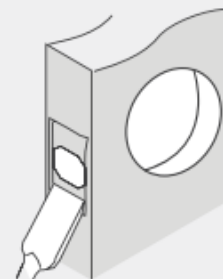
3-b. Drill 1" (25mm) hole in center of door edge for Deadbolt Latch Assembly.

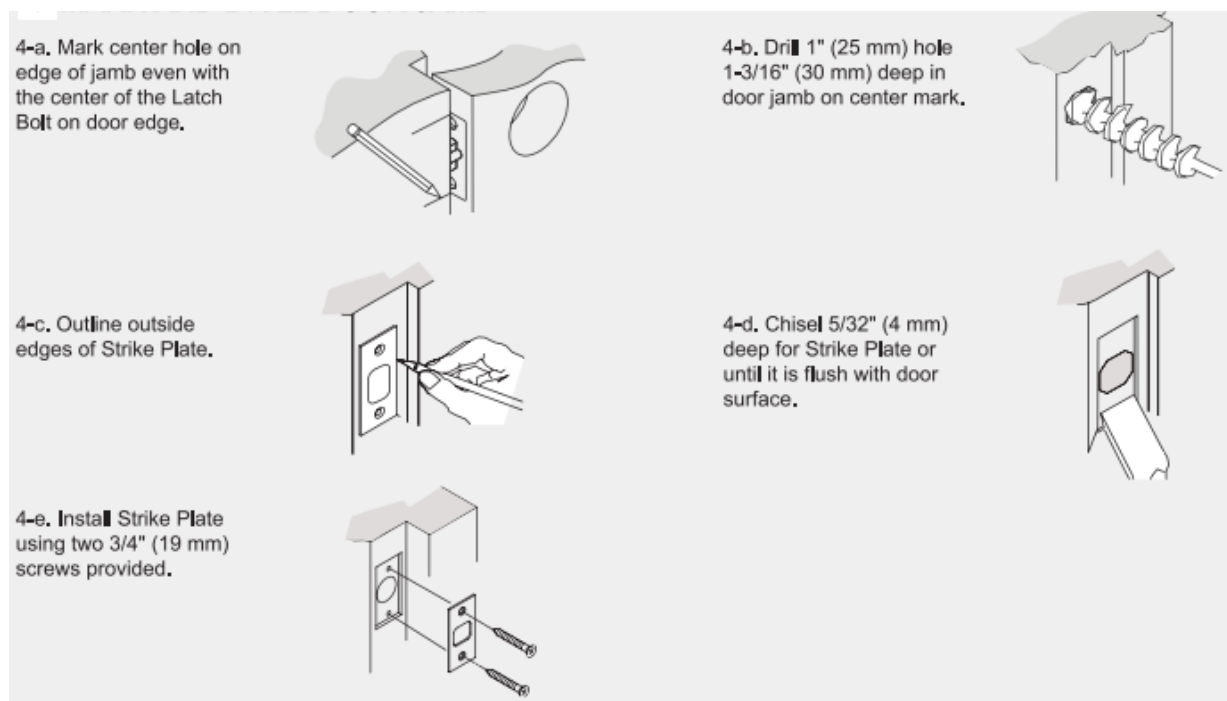


3-c. Insert Deadbolt Latch Assembly in hole keeping it parallel to face of door. Mark outline and remove latch.

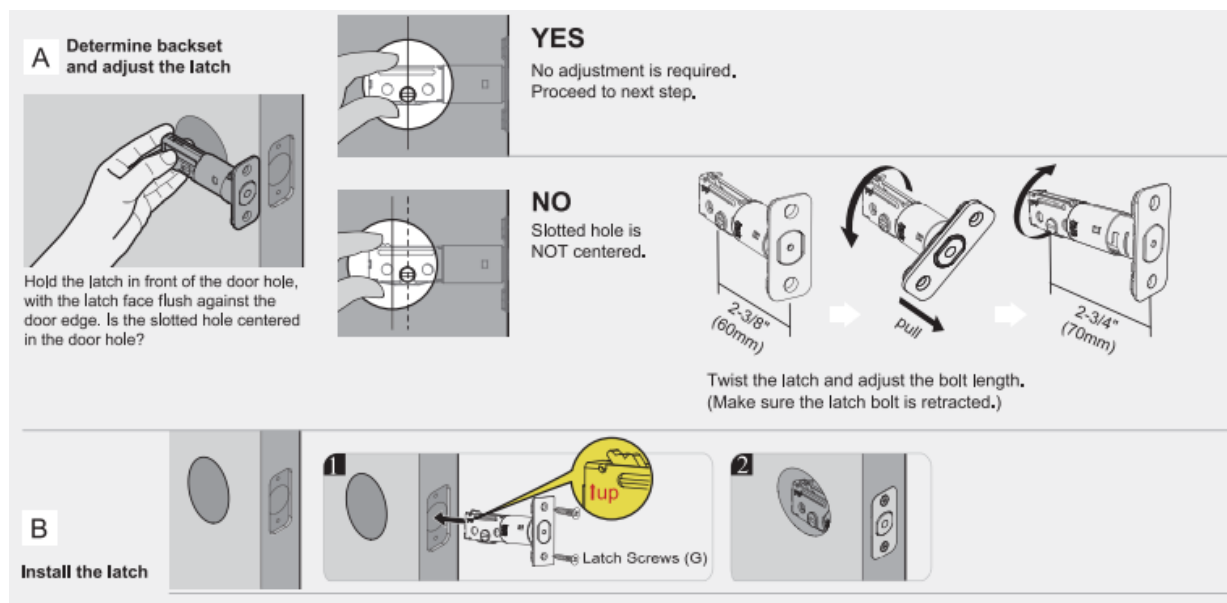


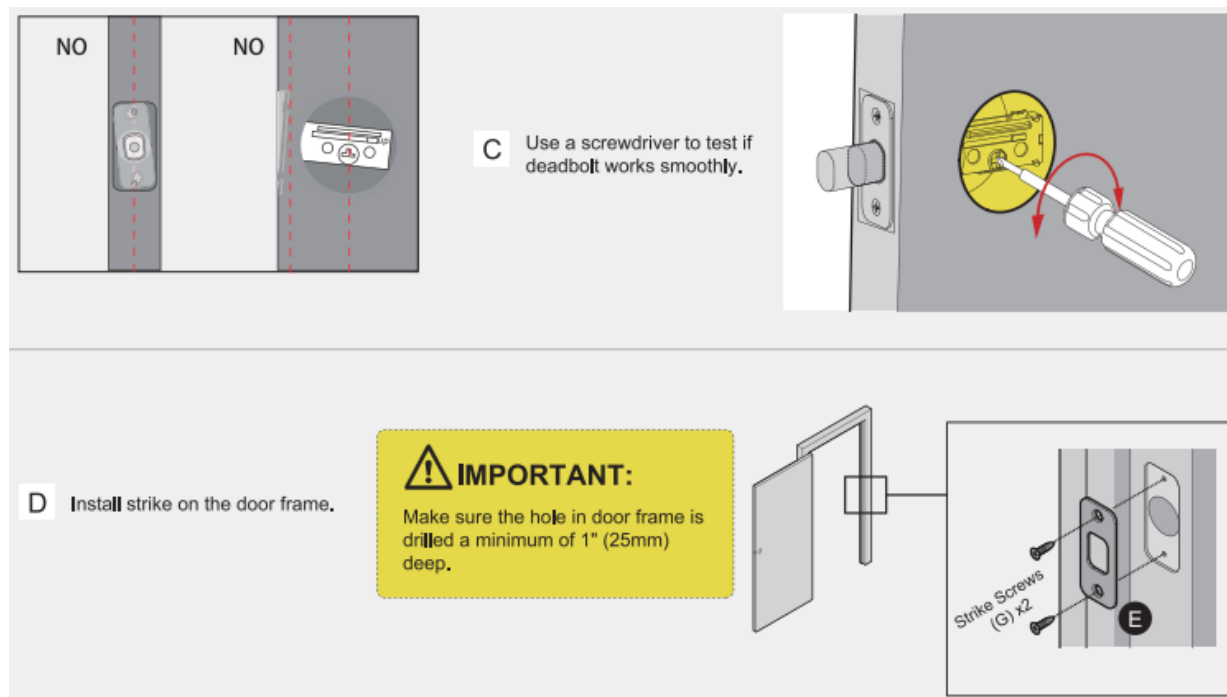
3-d. Chisel 5/32" (4mm) deep or until latch face is flush with door edge.





Step2 Install the latch and strike





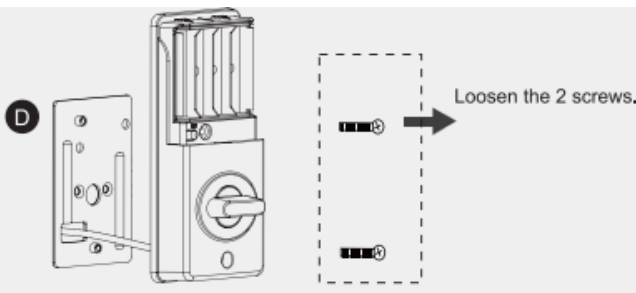
Step3 Install the exterior assembly



Step4 Install the interior assembly

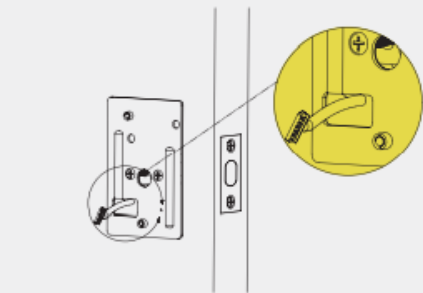
1 Take off the mounting plate (D).

! IMPORTANT:
Do not load batteries until lock is completely installed.

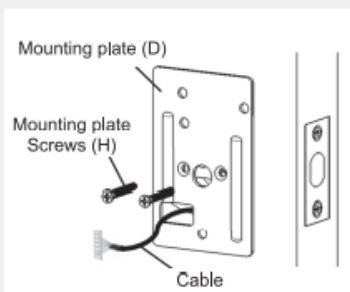


Loosen the 2 screws.

2 Route cable through the bottom of mounting plate.

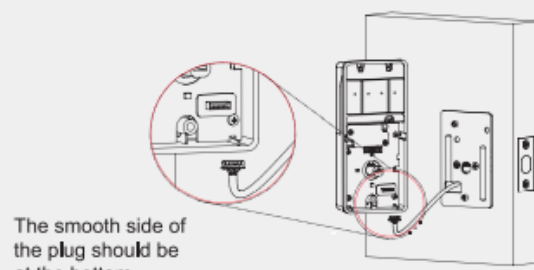


3 Tighten screws.



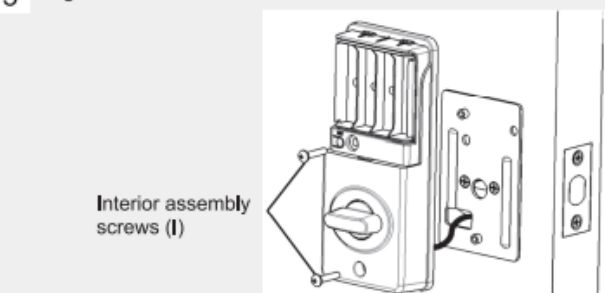
Note: Please support exterior assembly during mounting plate installation.

4 Ensure tight cable connection.



The smooth side of the plug should be at the bottom.

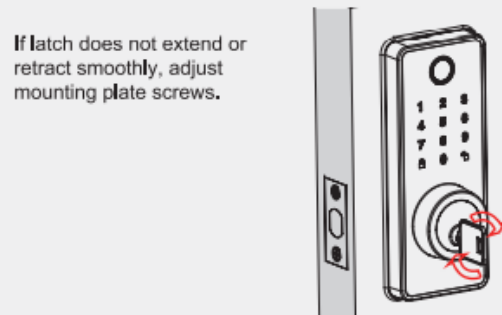
5 Tighten screws.



Interior assembly screws (I)

6 Insert key and test latch.

If latch does not extend or retract smoothly, adjust mounting plate screws.

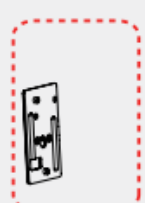


If the keypad and mounting plate are deflected, loose mounting plate screws and adjust.

NO



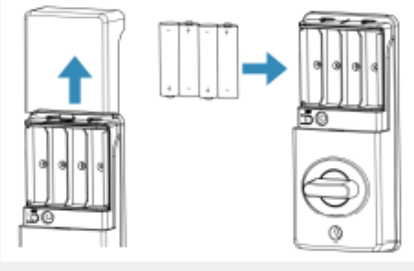
NO



Step5 Install the batteries and perform the door handing process

1 While the door is OPEN and UNLOCKED, load 4 AA batteries into the battery compartment.

! IMPORTANT:
Do not use rechargeable batteries or non-alkaline batteries.



The batteries are not included.

2 Perform the door handing process.

a. Press , the latch bolt extends by itself.

b. Enter preset programming code: 600900, then press , the latch bolt retracts by itself.

! If the latch bolt cannot extend or retract smoothly, check the latch and re-install the lock.

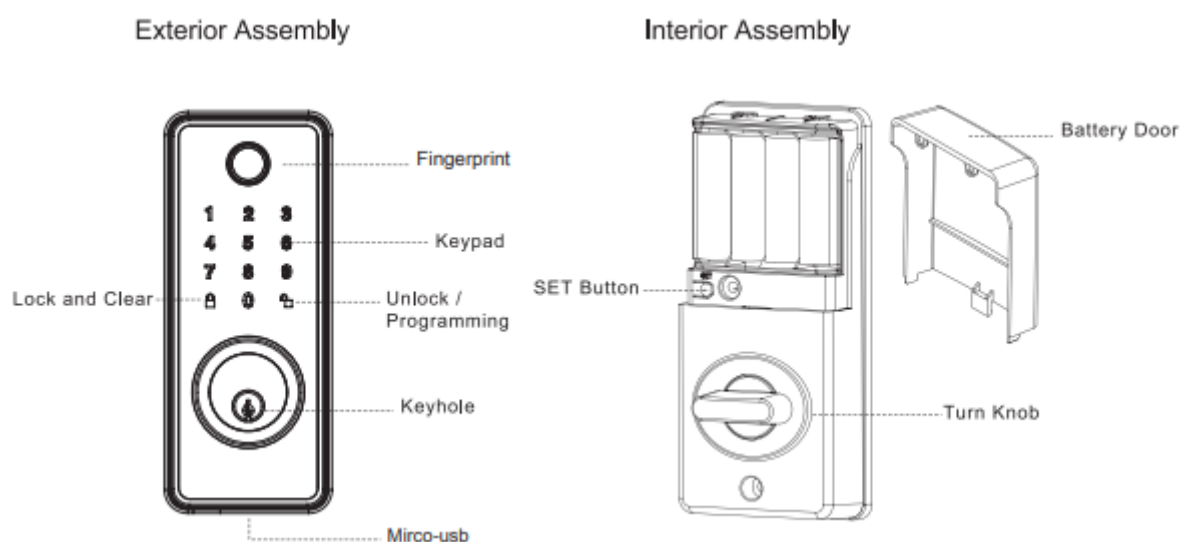
Success



Failure



5 Operation Instructions



Note: Micro-usb interface is used for emergency power

Item	Capacity	Permissions
Administrator password	1	1.Add / Delete/ Clear : User password/ Finger register/ IC card; 2.Modify administrator password. 3.Unlock
Password	50	Unlock
Fingerprint	99	Unlock
Card	50	Unlock

Press unlock button to enter programming mode, then input administrator password(600900) according to voice tips, then press unlock button again.

Locking and unlocking

TO UNLOCK THE LOCK

- Using Keypad: Enter a valid password (Default password is:600900) and press unlock key.
- Using valid Finger user
- Using valid Card
- Using mechanical key

5.1 Set administrator password

Factory default Programming Code = 600900

In programming mode, there is a voice prompt:

"Password management press 1 ",

"Fingerprint management press 2",

"IC card management press 3",

"Modify the administrator password press 4",

"Set automatic lock time press 5",

5.2 Password programming

Press 1 to get into programming mode.

Voice navigation "Add password user press1",
"Delete password user press2",
"Clear passwords user press 3",
"Return press lock key"

5.2.1 Add password

Press 1 to add password.

Voice navigation "Please enter the user number ",
Enter user ID number (1~210 digits), press the unlock key, the input 6~9 digits for a new password, press unlock key. Input again the same numbers and press unlock key, Voice prompt "Add success".

5.2.2 Delete password

Press 2 to delete password.

Voice navigation "Enter user number want to delete"
Enter user ID number press unlock key, Enter the user ID number again and press the unlock key, the voice prompt " User number "XXX" delete success ".

5.2.3 Clear password

Press 3 to clears the password.

Voice navigation "Please enter administrator password", input the correct administrator password and press the unlock key,
Voice prompt "Password user cleared".

5.3 Fingerprint management

Press 2 to get into fingerprint management.

Voice navigation "Add fingerprint user press 1",

"Delete fingerprint user press 2",

"Clear fingerprint user press 3",

"Return press lock key"

5.3.1 Add fingerprint

Press 1 to add fingerprint, Voice navigation " Please enter the user number "

Enter user ID number (1~210 digits).

Voice navigation "Please press finger ", "Please press finger again" (Finger should be flat on the sensor), follow the voice navigation press the finger 4 times.

5.3.2 Delete fingerprint

Press 2 to delete the fingerprint.

Voice navigation "Enter User number want to delete"

"Enter User number want to delete again". Every time after user number press unlock key

"User number "XXX" delete success".

5.3.3 Clear fingerprint

Press 3 to empty the fingerprint.

Voice navigation "Please enter administrator password". Voice navigation "Fingerprint user cleared"

5.4 Card Management

Add IC card user press 1

Delete IC card user press 2

Clear IC card user press 3

Return press lock key

5.4.1 Add a user card

Voice navigation "Please enter user number", enter card ID number (1~210 digits) and press unlock key.

"Please put IC card",

"Add success".

5.4.2 Delete the user card

Voice navigation "Enter user number want to delete" then press unlock key,

"Enter user number want to delete again" then press unlock key,

"User number "XXX" delete success".

5.4.3 Clear the user card

Voice navigation "Please enter administrator password", press unlock key

"IC card user cleared".

5.5 Modify management password

Press 4 to get into changes the management password.

Voice navigation "Enter new management password",

Enter 6~9 digits for a new management password, press the unlock key and enter the same number again, press unlock key, voice prompt "Password changed".

5.6 Set the automatic lock time

Factory default is 5 Seconds, set the range (3~30) Seconds.

Press 0 turn off the automatic lock function.

Press 5 to set automatic lock time. Voice navigation "Set up automatic lock time"

The input digital" (3~30) " will be the automatic lock time

5.7 Restore factory Settings

Press "set" button more than 5 seconds.

Voice prompt: initialization successful, Welcome use the lock.

After setting, the default management password is 600900

The user password is 600900

The user password is 1 Group,

The fingerprint is empty and the others are factory default

5.8 Turn on or off voice prompt

Touching to light up the password tray, press three times unlock key to turn on or off voice prompt.

5.9 System locking

When opening the lock continuous input 5 times incorrect user password, or wrong fingerprint, or incorrect user card, voice navigation "Failure and lock the system" .

6 Voice Tips

①Operation: Press "set" button once to enter setup mode

Voice navigation: "Please enter administrator password"

②Operation: When entering the same user ID

Voice navigation: "The user exist"

③Operation: Power on

Voice navigation: "Welcome use the lock"

④Operation: No operation for 15 seconds under setup mode

Voice navigation: "Operation time out, exit setup mode"

⑤Operation: Input 5 times incorrect user password/wrong fingerprint/invalid IC card

Voice navigation: "Failure and lock the system"

⑥Operation: Input incorrect user password/wrong fingerprint/invalid IC card once

Voice navigation: "Verification failed"

⑦Operation: Enter invalid user ID

Voice navigation: Input error

⑧Operation: When adding password user more than 50 groups

Voice navigation: "Password user is full"

⑨Operation: When adding Fingerprint user more than 99 groups

Voice navigation: "Fingerprint user is full"

⑩Operation: When adding IC card user more than 50 groups

Voice navigation: "IC card user is full"

7 System Alerts

Alert	Possible cause	Solution
beep and voice prompt "Close Lock failed"	Fail to lock	Re-lock the door
No voice prompt	Voice prompt off	Press unlock button three times
The screen flashes 5 times + voice prompt "Low power , please replace the battery in time"	Low battery	Replace batteries
The screen flashes 5 times, + voice prompt "Low power , please replace the battery in time", and can not unlock	Super low battery	Replace batteries

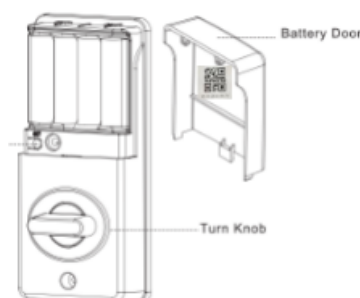
8 Remote administration

DSL-090-1 supports remote administration , administrator can remotely add or delete user cards and passwords. When users open the lock , DSL-090-1 will upload the unlock record to the administration system.

9 Packaging

Box size	192mm(L)*142mm(W)*112mm(H)
Gross weight/Per Box	1.43Kg
Quantity per carton	12 PCS
Carton size	380mm(L)*423mm(W)*230mm(H)
Gross weight/Per Carton	17.16Kg

DSL-090-1 needs 2 QR codes which contains the device mac address, one QR code needs to be stuck to the back of the lock, and the other one needs to be stuck to the inside of battery cover , as shown below.



FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

To comply with RF exposure requirements, a minimum separation distance of 20cm must be maintained between the users body and the device, including the antenna.