

Premium Digital Locker Lock

# LF23-HL

## User Guide


















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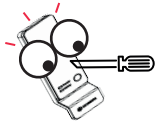
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## Strong Points

### Password + RFID Digital Locker Lock LF23-HL

-  Durable diecasting front
-  Intuitive pop-up in-use indicator (patented)
-  Pickproof deadlatch mechanism (patented)
-  Public mode, private mode
-  Timer auto-unlock function in public mode
-  3 management levels
-  Imaginary number function
-  Enhanced security with 13.56 MHz RFID
-  5 level volume control
-  Magnetic sensing auto locking, manual locking
-  Lock freezed 30 seconds after 5 times wrong entry
-  Strong warning alarm when froced opening
-  Low battery alarm ("little star" melody)
-  USB-C emergency power port
-  Keypad backlight (except white front)

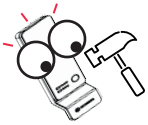
## Safety Instructions



Do not disassemble or modify the product.



Do not wipe with flammable liquid such as alcohol, benzene, thinner.



Do not give excessive impact to the keypad.



Do not mix new and used battery.



Be careful not to let water or liquid into the product (indoor use only).



Keep away from flame or excessive heat.

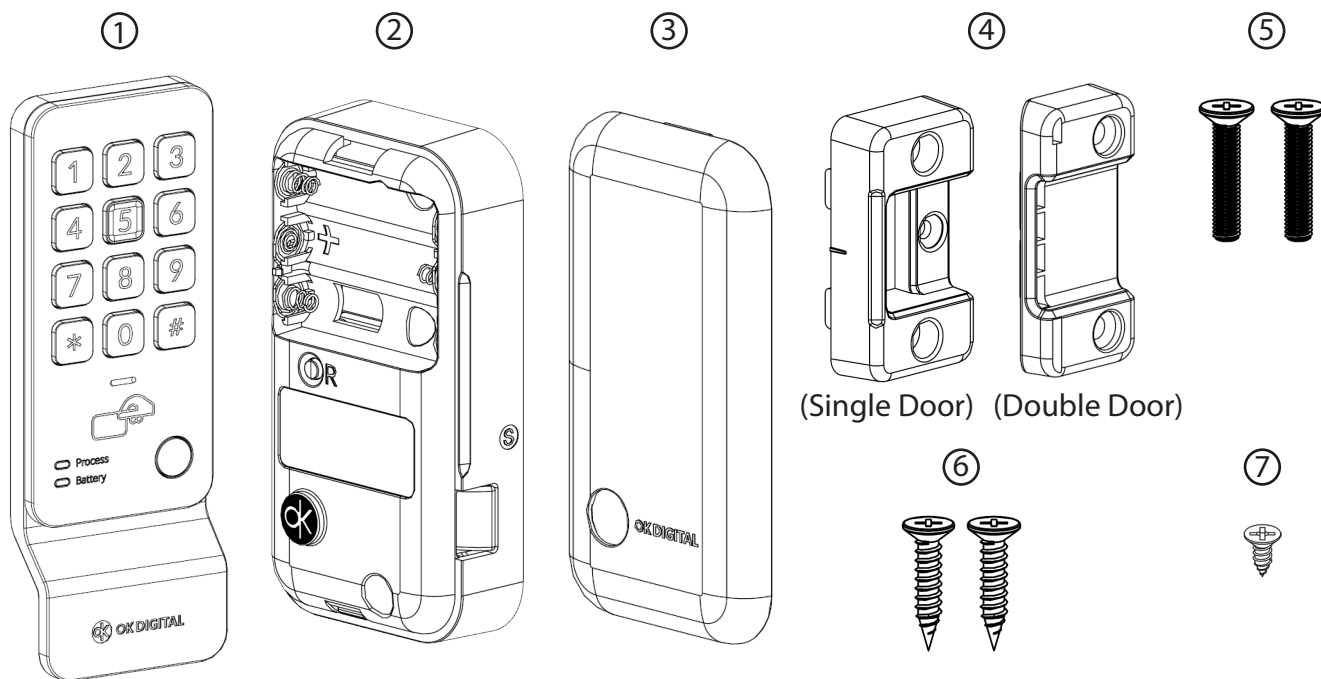


Replace the battery if there is a leak.



Administrator card & password should be managed carefully for security.

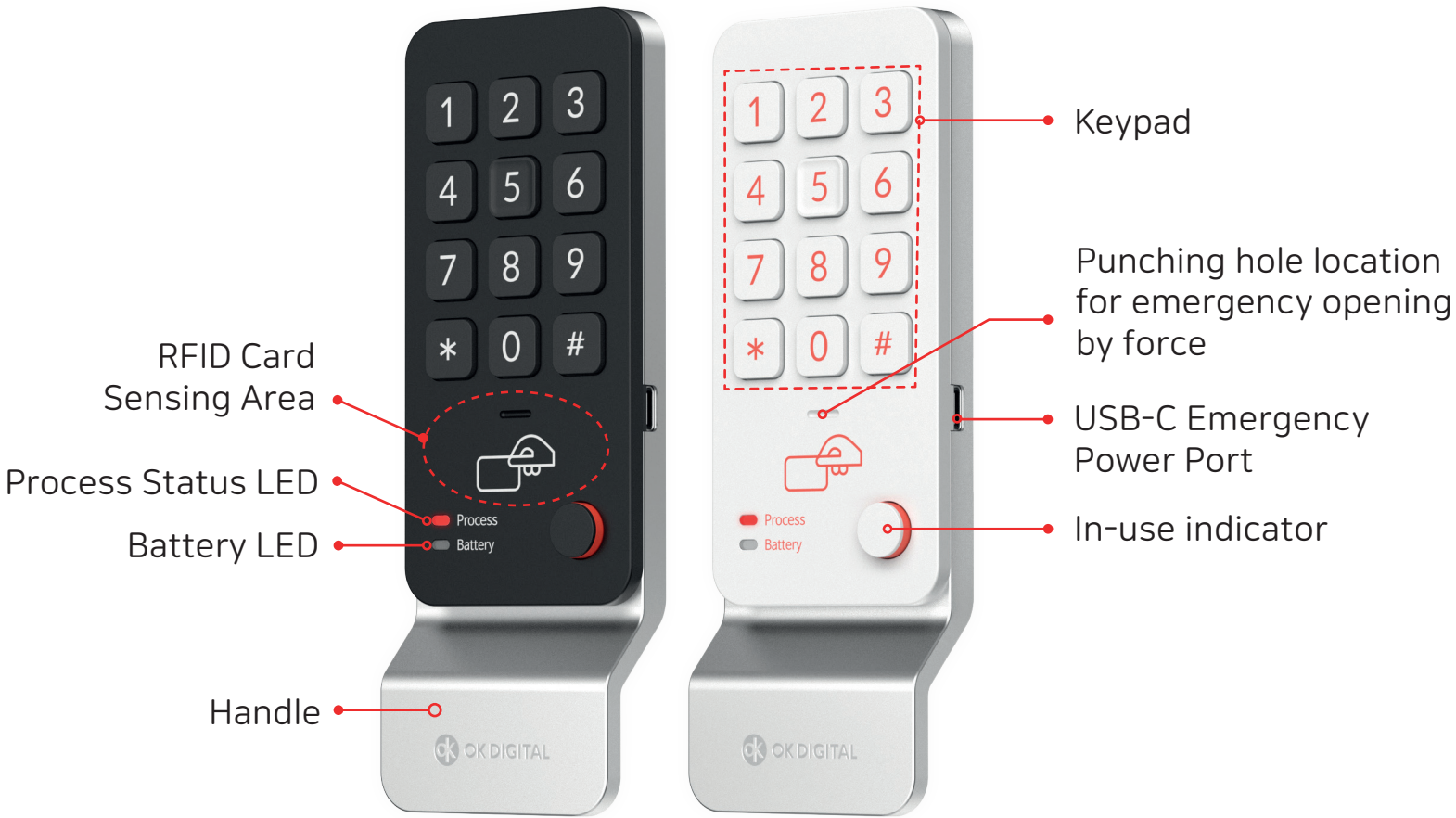
# Package included & Specification



Item	Description	Q'ty
① Front	57.3 x 160.7 x 20 mm	1 pc
② Rear	66 x 125 x 30 mm	1 pc
③ Battery Cover		
④ Strike	for Single Door : 35 x 65 x 15 mm for Double Door : 27 x 60 x 12 mm	1 pc
⑤ Bolt	M4 for assemble Front & Rear	2 pcs
⑥ Screw	M4 x 20 for Strike (*3 pcs for left hand door)	2 pcs
⑦ Screw	M3 x 8 for Battery Cover	2 pcs

Product Specification	
Model No.	LF23-HL
Power Source	AA 1.5V Battery 3 pcs
Material	Diecasting, PC, ABS
Authentication	Password & RF Card (Mifare Classic, Ultralight, Desfire EV1, EV2)
Color	Front : Black, White    Rear : Black
Safety Approved	KC, CE, RoHS
Installable Door Thickness	10 mm (M4 x 12 mm bolts, need to cut-out extrusion part of the rear) 15 mm (M4 x 16 mm bolts) 18 - 20 mm (M4 x 20 mm bolts, <b>included</b> ) 25 mm (M4 x 25 mm bolts)

Part Names



(FRONT)



(REAR)

# Management Levels



## OWNER (Top level Management RFID Card)

- 13.56 MHz RFID Card, 1 pc
- First used card registered as Owner
- Register or delete Master & Cleaner
- Setting all functions
- Does not have lock or unlock function
- Please keep in safe place for security

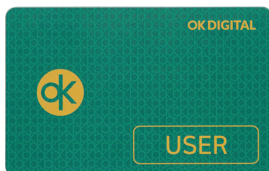


or



## MASTER (Mid-level Management RFID Card or Password)

- Up to five 13.56 MHz RFID card, One 4-12 digit code
- Register or delete User
- Unlock the lock if loose user card/code, but cannot lock
- there will be warning alarm and the user card/code deleted right after using the master
- Please keep in safe place for security. Re-register all masters if loose any one of the master card/code



or



## USER (User RFID Card or Password)

- Up to five 13.56 MHz RFID card, One 4-12 digit code
- Lock or unlock the lock
- Public or Private mode for card/code
- Re-register all users if loose any one of user card/code
- Lock will be freezed 30 seconds after 5 times wrong entry.



## CLEANER (Cleaning Purpose RFID Card)

- Up to five 13.56 MHz RFID card
- Lock or unlock the lock
- Re-register all cleaner cards if lost any one of the cleaner card.

- ❖ Owner and master must be registered first before using the lock.
- ❖ Keep in safe place and the owner and master
- ❖ Cleaner card can unlock and lock anytime and cannot trace of the use.  
OK Digital Co., Ltd. is not responsible for any theft caused by the illegal use of the master and cleaner card.

# Function Table

Functions	Key No. (Press the button & touch owner card)	Beep	LED (Process)	Factory Setting
Private Mode Card/Code	<b>0</b>	B-	4 times	
Public Mode Code	<b>1</b>	BB	2	Public
Beep On/Off	<b>2</b>	On : B-	2	On
		Off : BB	2	
AND, OR Mode	<b>4</b>	OR : B-	2	OR Mode
		AND : BB	2	
Cleaner Card Use / Not Use	<b>5</b>	Not Use : B-	2	Not Use
		Use : BB	2	
Imaginary Function Use / Not Use	<b>6</b>	Not Use : B-	2	Not Use
		Use : BB	2	
Self / Auto Locking	<b>7</b>	Self : B-	2	Self Locking
		Auto : BB	2	
Master Code Use / Not Use	<b>8</b>	Not use : B-	2	Not Use
		Use : BB	2	
Deletes All except Owner	<b>9</b>	BBBB	6	
Timer Auto-unlock	<b>1 0</b> (in sequence)	B-	(for 8 seconds)	Off
Beep Volume (1-5 levels) * No need Owner	<b>1</b> + <b>#</b> (press 4 seconds)	Up : <b>#</b> Down : <b>*</b>		4th level



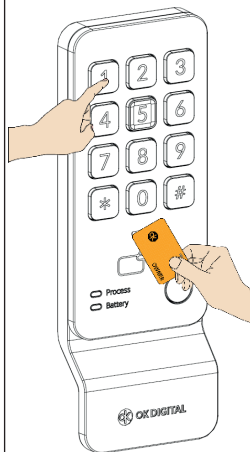
# Functional Settings

## Setting Private Mode Card/Code



- Press **0** button & touch owner card.
- ↓
- Changed to private mode and locked automatically.
- Unlock the lock and close the door before changing the mode.
  - Default user code is "1111". Change it for security.

## Setting Public Mode Card/Code



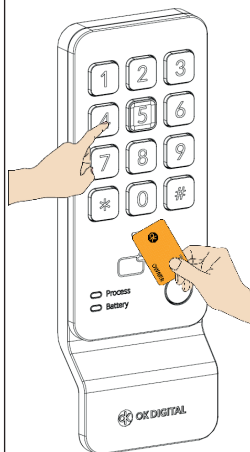
- Press **1** button & touch owner card.
- ↓
- Changed to public mode and remain unlocked.
- Unlock the lock and close the door before changing the mode.
  - Remain unlocked until enter a user code or card.

## On/Off Beep Sound



- Press **2** button & touch owner card.
- ↓
- Setting will be completed to off or on.
- Warning alarm will remain active even if "off" the beep sound.

## AND/OR Mode



- Press **4** button & touch Owner card.
- ↓
- Setting will be completed to "AND" or "OR" mode.

## Setting Cleaner Card Use/Not Use



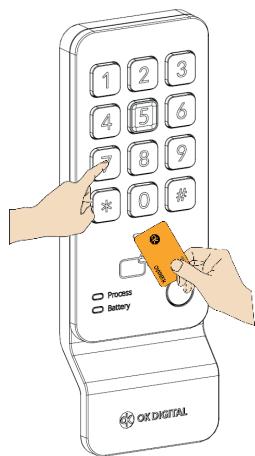
- Press **5** button & touch owner card.
- ↓
- Setting will be completed to use or not use.
- The cleaner card does not leave any traces of use. Please take care of it.

## Setting Imaginary Function Use/Not Use



- Press **6** button & touch owner card.
- ↓
- Setting will be completed to use or not use.

### Setting self/auto locking



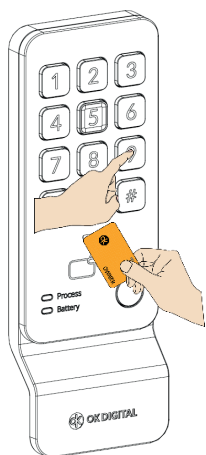
- Press **7** button & touch owner card.
- ↓
- Setting will be completed to self or auto locking.
- In auto locking mode, it will be locked automatically when close the door.
  - Available auto locking mode only for password.

### Setting master code use/not use



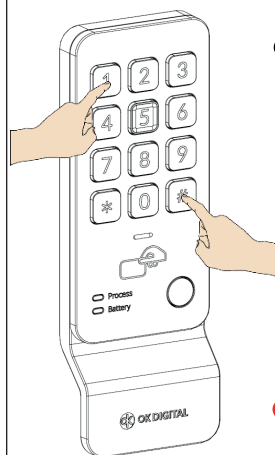
- Press **8** button & touch owner card.
- ↓
- Setting will be completed to use or not use.
- Factory default code is "5351" when use master code. Change it for security.

### Delete all except Owner card



- Press **9** button & touch owner card.
- ↓
- All master, user and cleaner cards will be deleted.
- Need to set the master card to use the lock. All functions and settings are still remain.

### Adjust volume of the beep sound



- Press **1** and **#** button at the same time for 4 seconds.
- ↓
- After a beep, press **#** to increase, press **\*** to decrease the volume for five levels.
- No need to use owner key for volume control.

## Check Current Setting

### How to check current settings

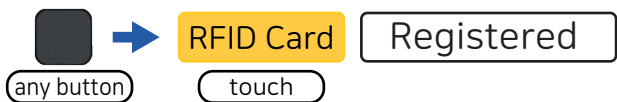
- Press "2" and "#" buttons at the same time. Possible to check the status when locked.

Setting	Status LED Color
Private Mode	Red <span style="color: red;">█</span>
Public Mode	Green <span style="color: green;">█</span>
Public Mode Timer Auto-unlock	Yellow <span style="color: yellow;">█</span>

# Register or Change Owner Card

## How to Register Owner Card

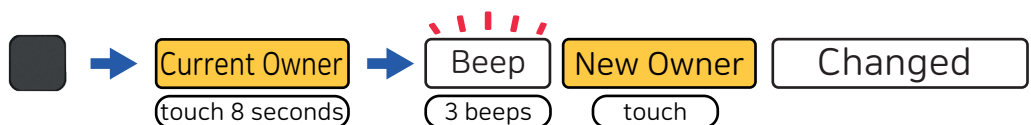
- Press any button → touch any card to register it as an owner card.



- Need to register "Owner" after reset. Suggest to use OK Digital's "Owner" printed card.

## How to Change Owner Card

- Press any button → touch owner key for 8 seconds (enter into the owner change mode after a beep) → touch another card to register it as a new owner.



※ Register master card, register cleaner card and change owner card function will be started after certain period of time to touch the owner card.

Function	Time to touch owner card	Beep	LED
Register Master Card	Touch once	B B B B B 	9 times
Register Cleaner Card (cleaner card setting is "use")	Touch 4 seconds	B B B 	
Change Owner Card	Touch 8 seconds	B B B 	9 times

## Register or Change Master Card/Code

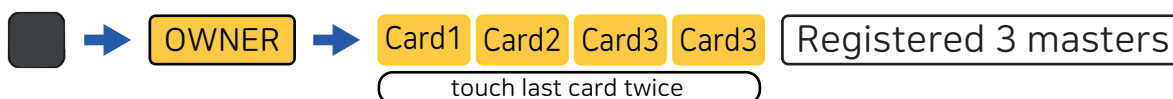
### Register or Change Master Card

- Press any button → touch owner key → touch up to 5 RFID cards to register it as master. Or touch same card twice to end the registration(1-4 cards).

(Register 5 master cards)



(Register 1 to 4 master cards)



- Use same procedure for changing the master card. All previous master cards will be deleted when registered even one master card.

### Change Master Code (master code setting is "use")

- Press "\*" for 4 seconds → enter current master code → press "\*" → enter new master code (4-12 digits) → press "\*" (new master code has been registered)



- Default master code is "5351" when set the master code "use". Be sure to change it for security.

# Use Master Card/Code

## How to use Master Card

- Press any button → touch master card. (Unlocked and all user card and user code will be deleted with warning alarm.)



- Use a master card/code to unlock it when lost the user card/code.
- Master card/code has unlock function only, cannot lock. If the locker in use is unlocked, it means the master card/code has been used.

## How to use Master Code (if the user code is registered)

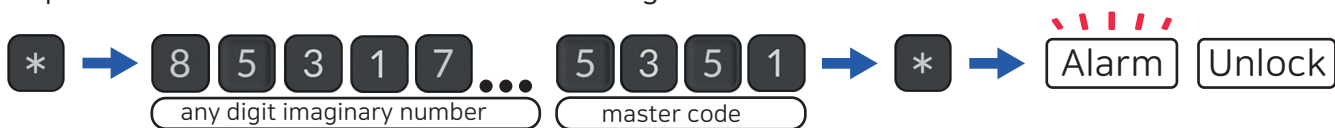
(Unlock with master code if forgot the user code.)

- Press "\*" button → enter master code → press "\*" button → unlock with warning alarm.



(Using imaginary number)

- Press "\*" button → enter any imaginary number → enter master code → press "\*" button → unlocked with warning alarm.



- Factory default master code is "5351". Please make sure to change it for security.
- The user code is deleted as soon as the master code is used.
- Master code cannot lock, possible to unlock if forgot the user code.
- It will enter into user code registration mode if the user code is not registered.

# Register or Change User Card/Code

## Register or Change User Card with Master Card (private mode)

(Delete the user card/code first with master card when change it)

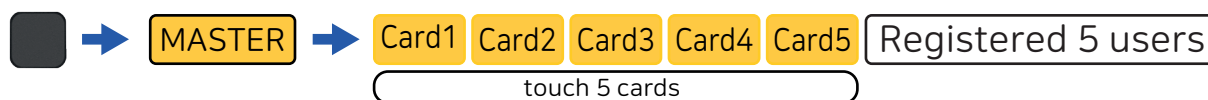
- Press any button → touch master card (it will be unlocked and all user card/code will be deleted with warning alarm).



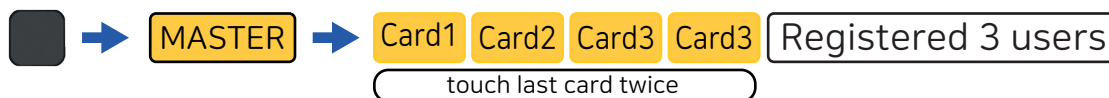
(Register user card)

- Press any button → touch master card → touch up to 5 RFID card to register it as user. Or touch same card twice to end the registration(1-4 cards).

(Register 5 user cards)



(Register 1-4 user cards)



## Change User Code with Master Card (private mode)

- Press any button → touch master card → enter 4 digit code



(Register 4 or more digits user code)

- Press “#” button before and after the user code.



- Factory default user code is “1111” at private mode.

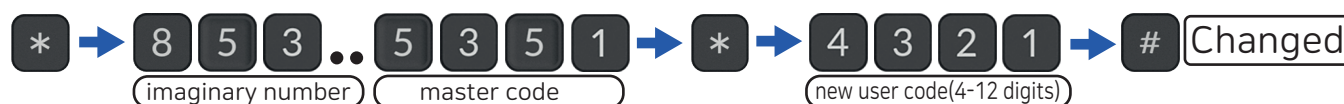
### Change User Code with Master Code (private mode)

- Press "\*" → enter the master code → press "\*" → enter new user code. Press "#" before and after the user code if it is 5 or more digits.



(Using imaginary number)

- Press "\*" button → enter any imaginary number → enter the master code → press "\*" button → enter new user code → press "#" button.



- The user code can be changed if it is unlocked. Need to unlock it with the master code first if it is locked. (refer to "Using Master Code" on page 13)

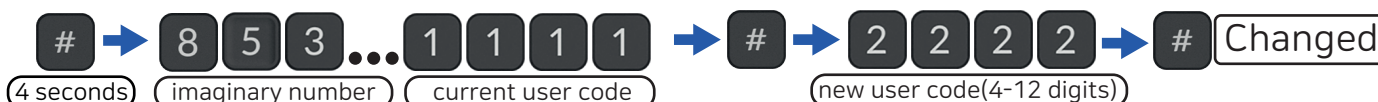
### Change User Code with User Code (public & private mode)

- Press "#" for 4 seconds → enter current user code → press "#" → enter new user code → press "#".



(Using imaginary number)

- Press "#" for 4 seconds → enter any imaginary number → enter current user code → press "#" → enter new user code.



- Cannot use imaginary number when enter the new user code.

## Use User Card/Code in Public Mode

### How to use User Code (public mode, imaginary function "off")

(Using 4 digit only)

- Enter 4 digit user code to lock and unlock.



(Using 4-12 digit user code)

- To lock : press "#" button → enter 4-12 digit code → press "#" button.
- To unlock : same as above.



- Lock is remain unlocked after use. User code will be deleted after unlock it.
- It will be locked again and the user code is not deleted after 5 seconds if not open the door.
- Public mode is useful when the user changes frequently, such as a golf practice range.

### How to use User Code (public mode, imaginary function "on")

- To lock : press "#" button → enter 4-12 digit user code → press "#" button.



- To unlock : press "#" → enter imaginary number → enter registered user code → press "#" button.



- Need to use "#" after 4 digit user code when use imaginary number. (Cannot use 4 digit only user code.)



### How to use User Card (public mode)

- To lock : press any button → touch any card



- To unlock L press any button → touch same card

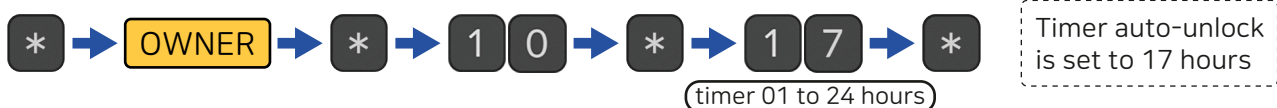


- Lock is remain unlocked after use. User card will be deleted after unlock it.
- It will be locked again and the user card is not deleted after 5 seconds if not open the door.

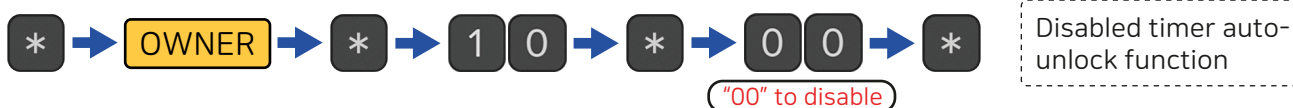
## Timer Auto-unlock

### How to use Timer Auto-unlock Function (public mode only)

- Setting auto-unlock timer for 1 to 24 hours :  
Press any key → touch owner Card → press "\*" → press "10" → press "\*" → enter desired auto-unlock timer "01" to "24" → press "\*"



- Disable timer auto-unlock function : Enter "00" for timer to disable the function.



- Lock should be set for Public mode before use Timer Auto-unlock.
- Lock can be configured to auto-unlock for 1 to 24 hours. Tolerance ±20 minutes.

## Use User Card/Code in Private Mode

### How to use user code (private mode, imaginary function "off")

(Using 4 digit only)

- It will be locked when close the door. Enter registered user code to unlock.



(Using 4-12 digit user code)

- To lock : automatically locked when close the door.
- To unlock : press "#" button → enter registered 5-12 digit user code → press "#" button.



- Private mode is useful when the user is defined for the locker such as membership locker.

### How to use User Code (private mode, imaginary function "on")

(Using 4-12 digit user code)

- To lock : automatically locked when close the door.
- To unlock : press "#" button → enter imaginary number → enter registered user code → press "#" button.



- Need to use "#" after 4 digit user code when use imaginary number. (Cannot use 4 digit only user code.)

### How to use User Card (private mode, auto locking / manual locking)

(For auto locking mode)

- To unlock : press any button → touch registered user card.
- To lock : automatically locked when close the door.



Locked when close the door

(For self locking mode)

- The same for lock and unlock : pres any button → touch registered user card.



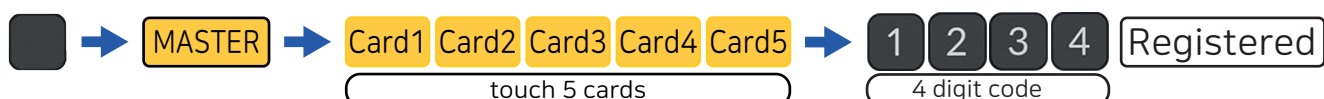
- There is no public mode for user card. Only user code supports public mode.
- Self locking mode prevents the mistake of locking by left the user card inside.

# User Card + User Code

## How to register the user card + user code ("And" mode)

- Press any button → touch master card → touch up to 5 RFID cards to register it as user (touch same card twice to register 1-4 user cards) → enter 4 digit code (press "#" button before and after the user code to register 4-12 digit code)

(register 5 user cards and 4 digit user code)



(register 1-4 user cards and, 4-12 digit user code)



- "And mode" provides stronger security, register both of user card and user code, and use both of it to unlock.
- The order of using card and number is doesn't matter for registration and using.
- Public mode will be changed to private mode when use "And mode".

## How to use user card + user code ("And" mode)

- To unlock : press any button → touch one of the registered user card → enter the registered user code (press "#" button before and after user code for 4-12 digit code)
- To lock : automatically locked when close the door.

(for 4 digit code only)



(for 4-12 digit code)



(when use user code first)



# Register & Use Cleaner Card

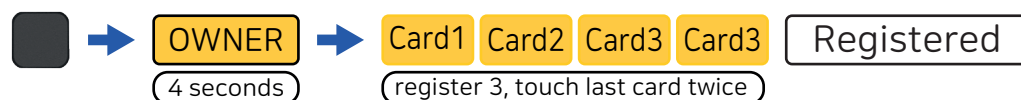
## How to register or change cleaner card

- Press any button → touch owner card for 4 seconds (there will be three beeps and enter into cleaner card registration mode) (cleaner card function should be set to “use” before) → touch up to 5 RFID cards to register it as cleaner card (or touch same card twice to register 1-4 cards).

(register 5 cleaner cards)



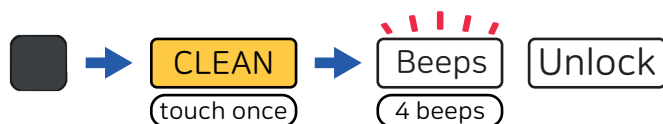
(register 1-4 cleaner cards)



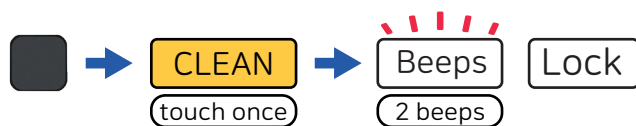
- Cleaner card can open the locker anytime even if it is being used and there is no traces. Keep in safe place and pay special attention to use and management.
- Use same procedure for changing the cleaner card. All previous cleaner cards will be deleted when registered even one cleaner card.

## How to use cleaner card

- To unlock : press any button → touch a cleaner card (will be unlocked with 4 beeps)



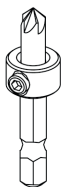
- To lock : Press any button → touch a cleaner card (will be locked with 2 beeps)



# Emergency Opening

Emergency opening with minimized damage if the lock does not work at all.

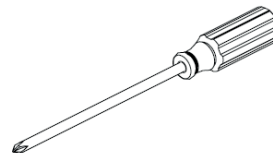
## Tools for Emergency Opening



Custom Drill Bit (sold separately)

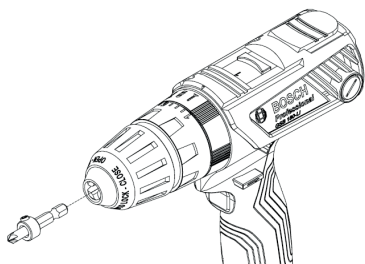


Electric Drill



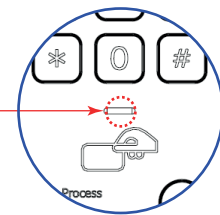
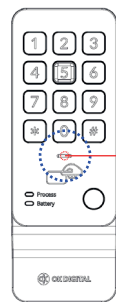
"+" Screw Driver

1.



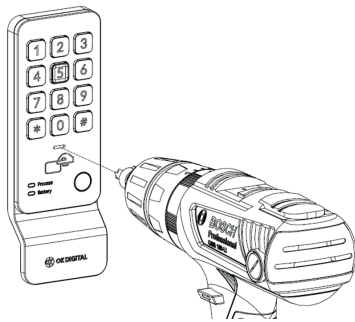
Install the drill bit into the electric drill.

2.



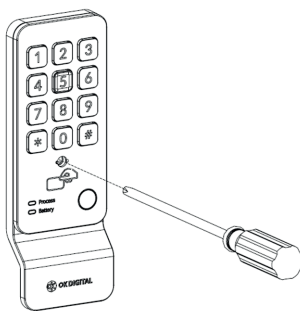
Check the emergency opening point.

3.



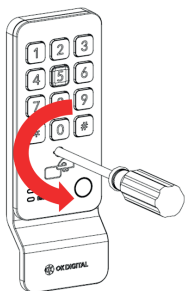
Make a hole through the point with electric drill.

4.



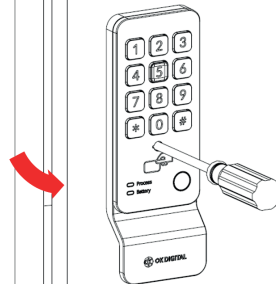
Insert the "+" driver into the end of the hall.

5.



Turn the driver to counterclockwise.

6.



Open the door.

# Reset

Return to factory default setting for all functions and master/user codes.

- ① Press the battery cover button and remove the cover. (align the top part of the cover with rear part and press lower part of the cover to close it.)
- ② Press the "reset" button below the battery hall for 3 seconds. There will be a beep.
- ③ All functions and the master code will return to the factory default setting. Be sure to change the default master code for security.

## Change Battery

There will be "little star" melody and blinking battery LED when the battery is almost runs out. Replace the battery with new one. All settings and codes are not changed even if change the battery.

## Emergency Power

External 5V battery can be used to supply power through USB-C cable if the battery is runs out.

**OK Digital Co., Ltd.**  
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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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC CAUTION:**  
 Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.