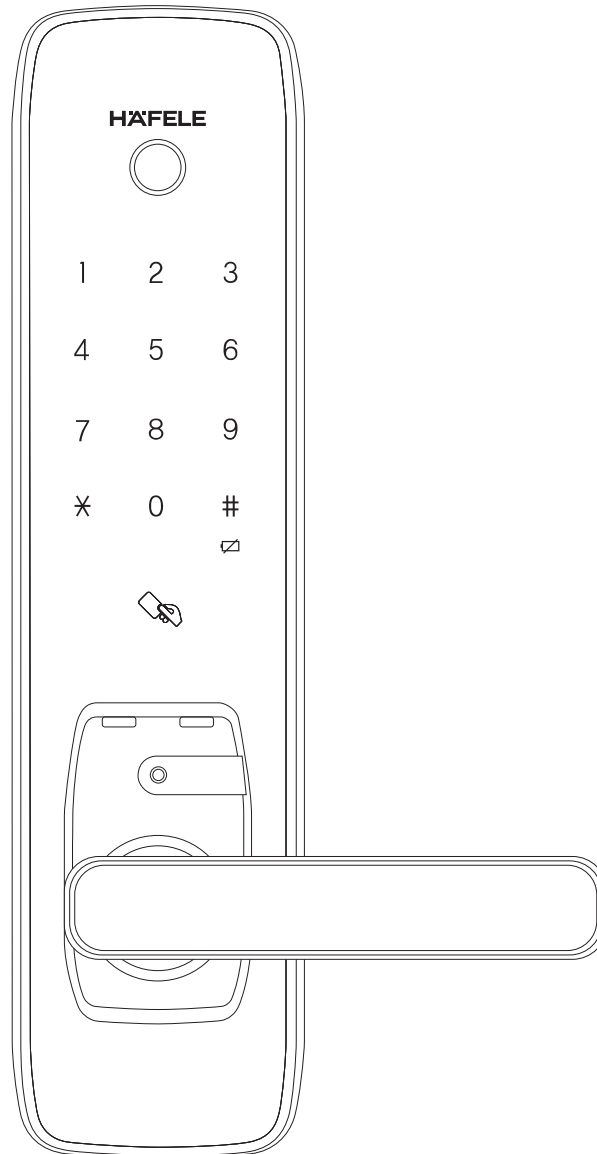




Digital door lock
Model DL7800
Model EL7800 Plus



DL7800 EL7800 Plus User manual

* The contents of this user manual are subject to change without prior notice to the user in order to enhance performance of the products.

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✓ Product features



Five-way solution

Available to use one solution of PIN code, key card, fingerprint, smartphone as well as key override.

- Up to 100 fingerprints
- Up to 70 key cards(Mifare and Rabbit Cards)
- Up to 35 PIN code(4-12 digits combination), 1 master PIN code ,30 user PIN codes and 4 Guest PIN codes(one time password)



Random security coding function

When you enter your home with friends or other people, you don't want to show PIN code to them.

In this case, you may press any numbers randomly without limitation and then enter your secret code at final.

Then, you can open the door without revealing your PIN code.



Auto lock / Auto re-lock function

When the door is closed, the digital door lock will lock after 2 seconds automatically (In case of auto locking mode).



And if users do not open the door after unlocking with password, etc, it is to be locked after 7 seconds automatically for higher security.



Privacy mode (Double lock function)

When privacy mode is activated, the door cannot be opened from outside with registered user PIN code, key card or fingerprint.



Intruder alarm function

When the door is opened by force, the digital door lock is suspended with alarm. The alert can be deactivated by removing the batteries or by providing proper access authorization such as a registered PIN code, a registered key card etc.



Prevent mischief and hacking

When entering 5 times a wrong PIN code/ fingerprint or card, an alarm will sound and function of digital door lock is suspended 1 minute. After that the lock will activate again.



Alarm for battery replacement time

When the power of batteries is too low, the digital door lock will generate 3 beeps and low battery indicator will light after normal operation such as opening or closing. Please replace all the batteries immediately. (if you do not replace the batteries after being issued a low battery warning, the digital door lock may stop working)

✓ Safety precautions



Do not disassemble or alter the digital door lock. Assembling or disassembling the digital door lock may damage the product. Damages to the product caused by unauthorized persons may result in damages to your property. Please contact our Customer Service.



If the product generates harmful gases or smoke, please remove the batteries immediately from the product. If you do not take this step immediately, the product may suffer severe damage.



Please keep the product away from water or any liquids. If the product is exposed to salty water or liquids, please wipe off the moisture with a soft cloth. If moisture or foreign materials penetrate the product, remove the batteries immediately and contact the Service Agency or Customer Service Center for advice. Using a product contaminated with foreign materials may cause problems



Please check the batteries every 6 months to see if the batteries are leaking and to check the cleanliness of battery terminals. If leakage is discovered, please wipe out with a dry cloth and replace the new batteries. In case of exposure to leakage, wash with soap and water immediately.



Do not clean the product with flammable materials such as alcohol, benzene or thinner. Such materials may damage the surface or cause a fire.



Batteries should not be exposed direct to heat sources or flames, or submerged in water, because they may leak or explode, resulting in severe damage. Please do not use damaged batteries.



Do not allow the battery electrodes to make contact with metals such as keys, as the battery may overheat, causing explosion or severe damage.



Please do not close the door with the deadbolt in the locked position. It may damage the product or cause a malfunction.

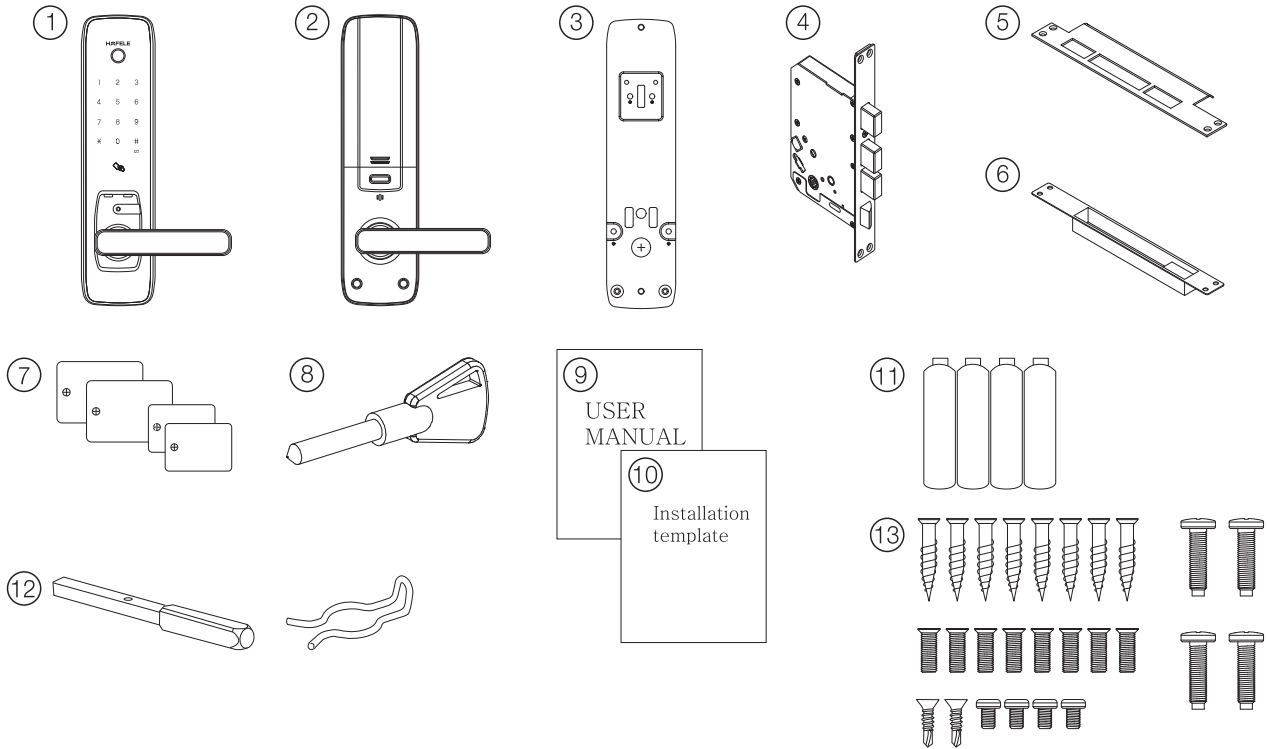


Do not force to pull the front cover. It may damage the product or cause a malfunction.



Please do not mix old with new batteries or use different types. Always use new alkaline batteries. Please make sure the batteries are inserted correctly (+/-) as indicated in the battery compartment. Otherwise, it may cause a leaks or explosions. Only use standard alkaline batteries. And it is not recommended to use special battery such as EVOLTA, etc.

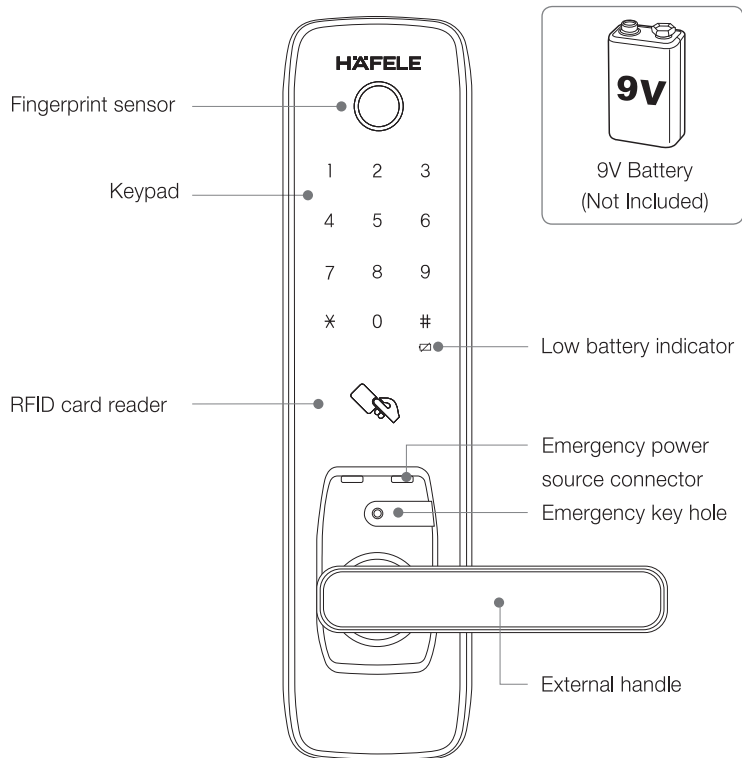
✓ Component overview



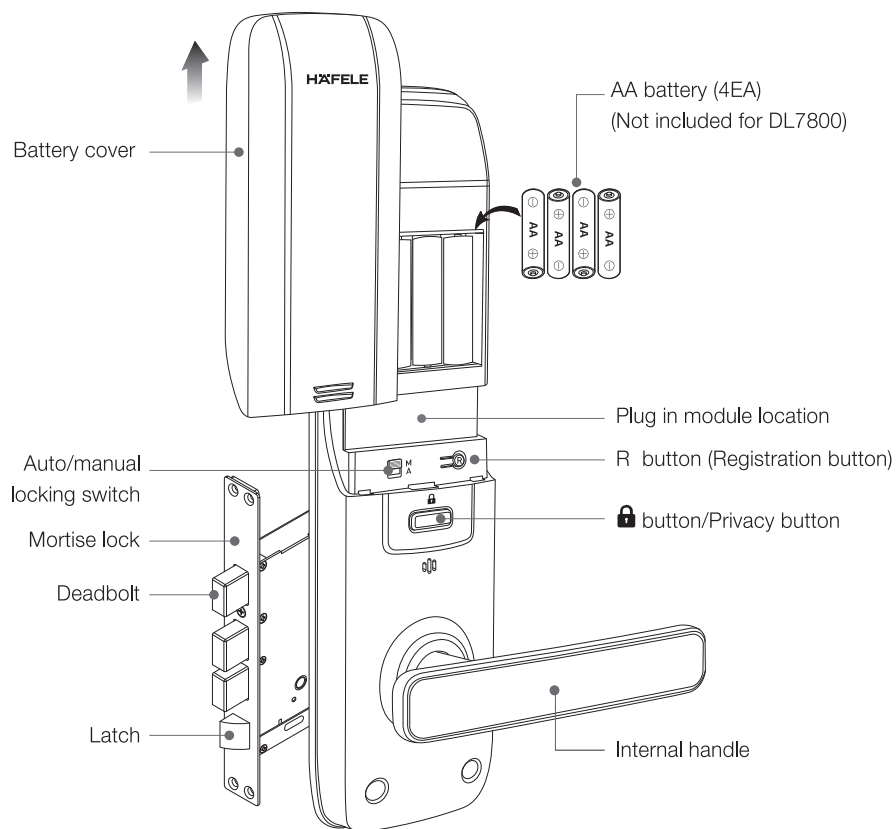
Name	Product specification	Remark
1. External handle module (WxHxD)	79 x 300 x 17 mm	Including rubber pad
2. Internal handle module (WxHxD)	80 x 300 x 27 mm	Including rubber pad
3. Back plate (WxHxTHK)	69 x 290 x 2 mm	
4. Mortise lock (WxHxD)	105 x 240 x 24 mm (backset 70 mm)	
5. Striking plate (WxHxTHK)	47 x 240 x 1.5 mm 2EA(DIN L and DIN R)	
6. Striking box (WxHxD)	24 x 236 x 18 mm	
7. Key card/key tag	DL7800: 2 key card 54 x 85mm and 2 key tags 25 x 35 mm EL7800 Plus: /4 key tags 25 x 35 mm	
8. Mechanical key	3 pcs	
9. User manual	Main user manual	
10. Installation template	Use for making hole at the door	
11. Battery	DL7800: Not provide battery EL7800 Plus: 4 pcs (1.5V, AA Size, Alkaline)	
12. Handle spindle	90(L) X □8x8 /□6x6 mm with locking ring	
13. Screw	FH M3/16x1/2 8EA : For striking plate and mortise lock FH TP 3.5x20 TYPE-1 8EA : For striking plate and mortise lock(wooden door) BH M5x20 and M5x35 each 4EA (supplied together with EL7800 Plus only): For External handle module /back plate BH M5x25, M5x30 and M5x35 each 4EA (supplied together with DL7800 only): For External handle module /back plate PH M4x6 4EA : For internal handle module/backplate FH T M8x16 2EA : For back plate	Usable door thickness DL7800: 35 - 50 mm EL7800 Plus: 40 - 60 mm

Product overview

External handle module



Internal handle module




✓ Factory default settings


Settings	Factory defaults
Master PIN code	1234
Locking mode setting	Auto locking
Volume control	High



✓ Symbol meaning



User operation

- R** After remove the battery cover, press registration button (R button) on the internal handle module.


 Touch keypad to activate lock.
- MP** Input current master PIN code (factory default: 1234).


 Input new master PIN code (4 - 12 digits).
- UP** Input user PIN code.

 Input guest PIN code.
-  Press finger on the fingerprint sensor.

 Press number on the keypad follow the number on the symbol.
-  Show key card on the card reader.
- 1~4** Input number 1, 2, 3 or 4 for guest PIN code registration number.


1~30 Input number 1,2,3,....., or 30 for user PIN code registration number.
- 1~70** Input number 1,2,3,....., or 70 for key card registration number.



1~100 Input number 1,2,3,....., or 100 for fingerprint registration number.
-  Keep pressing 3 seconds.



 Keep pressing 5 seconds.
- *** Press star key, confirm the input or exit menu.

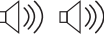

Press sharp key, confirm deletion all registration or factory reset.

Lock operation

-  1~4 The numbers on the keypad will light up according to guest registration number. 1 ~ 4 means numbers 1 - 4 can light up.

 01~30 The numbers on the keypad will light up according to user registration number. 01 ~ 30 means number 01 - 30 can light up.
-  1~70 The numbers on the keypad will light up according to key card registration number. 01 ~ 70 means number 01 - 70 can light up.

 001~100 The numbers on the keypad will light up according to fingerprint registration number. 001 ~ 100 means number 001 - 100 can light up.
-  The lock generates sound “beep”.

 The Lock generates sound “beep beep”.
-  The lock generates audible feedback.

Lock operation

Note

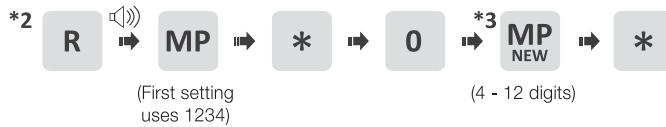
*1 The door must be open, deadbolt retracted, before operation and Zigbee module must be removed before operation. Please make sure that you take out the battery for the digital door lock before removing the Zigbee module.

*2 The door must be open, deadbolt retracted before operation.

*3 Master PIN code, user PIN codes and guest PIN codes must not be the same.

Change master PIN code

How to change master PIN code

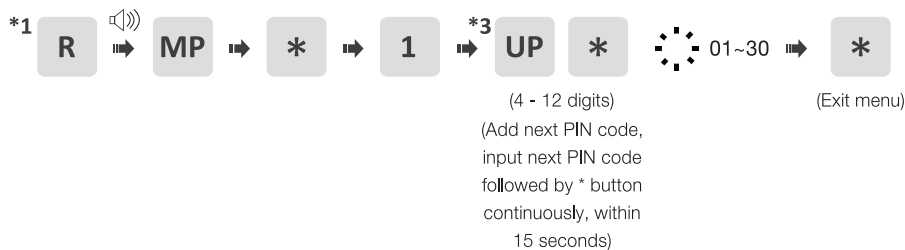


Note

- There is available 1 master PIN code only for this digital door lock.
- If the master PIN code is not changed before use, it will not be secure.

Add access right (without Zigbee module)

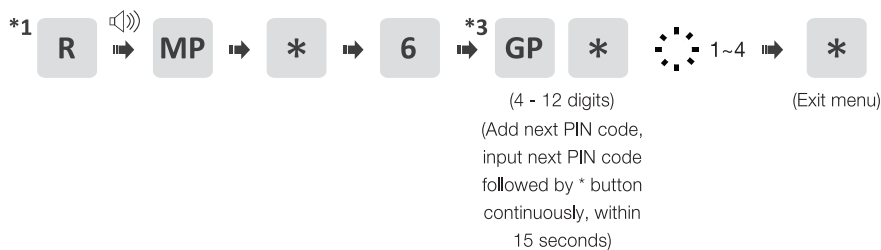
How to add user PIN code



Note

- Max. 30 user PIN codes can be added.

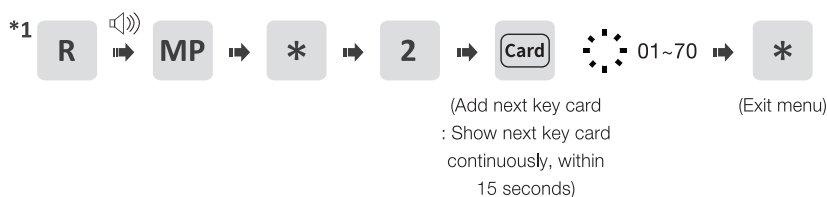
How to add guest PIN code(one time password)



Note

- Max. 4 guest PIN codes can be added.

How to add key card



Note

- Max. 70 key cards can be added.

✓ Add access right (without Zigbee module)

How to add fingerprint



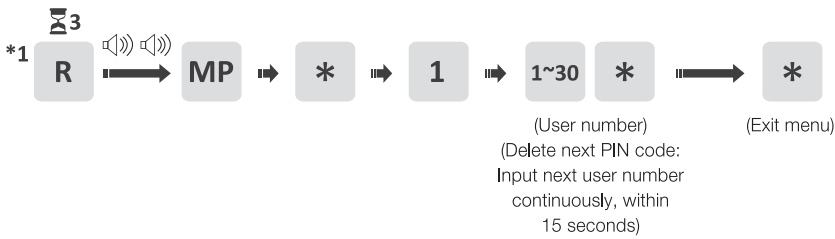
Note

- Max. 100 fingerprints can be added.

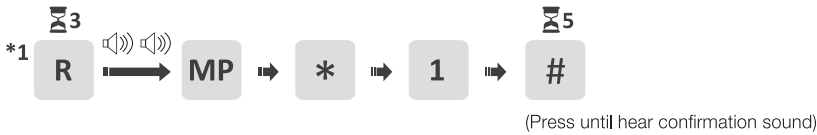
✓ Delete access right (without Zigbee module)

How to delete user PIN code

Delete one user PIN code

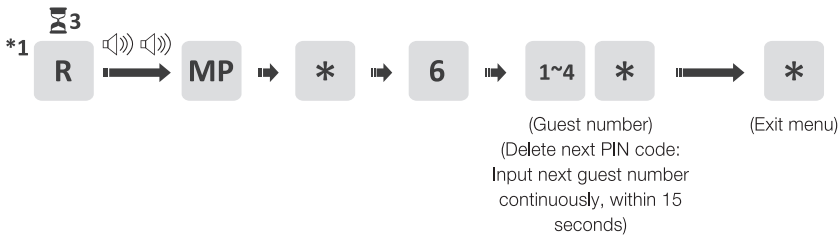


Delete all user PIN codes



How to delete guest PIN code (one time password)

Delete one guest PIN code



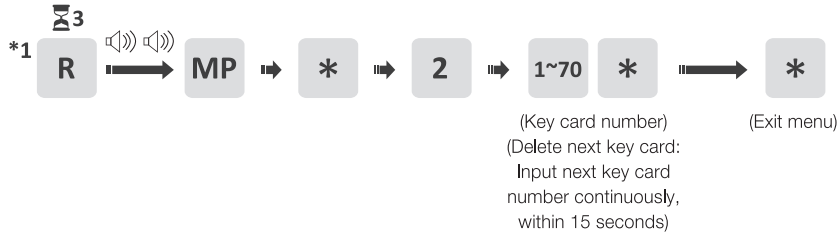
Delete all guest PIN codes



✓ Delete access right (without Zigbee module)

How to delete key card

Delete one key card

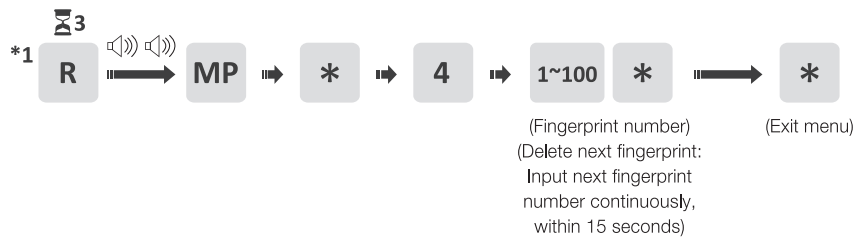


Delete all key cards



How to delete fingerprint

Delete one fingerprint



Delete all fingerprints




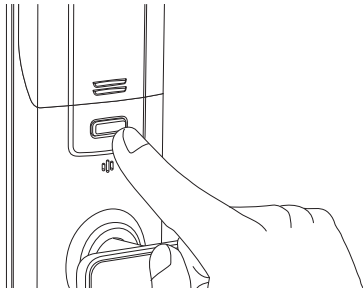
✓ Additional lock features

Privacy mode


When privacy mode is activated, the door cannot be opened from outside with PIN code, key card or fingerprint.

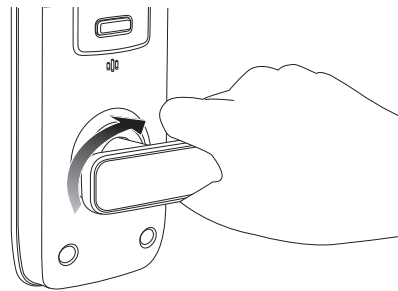
Activation

When the door is closed, press and keep pressing  button for 3 seconds. Activation is confirmed with an melody feedback.



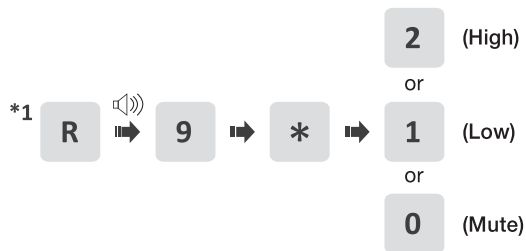
Deactivation

Privacy mode is automatically deactivated by pressing down the handle from inside or press  button 1 time.



Volume control

Volume control allows to adjust the audible feedback volume in three levels. Volume can only be adjusted when the door is unlocked.



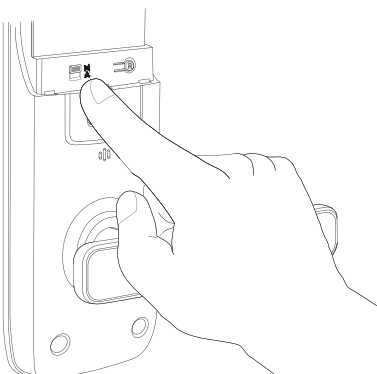
One time mute

After waking up the keypad, press # button. This function silences all inputs. You can now open the door with PIN code, key card, fingerprint or smartphone without sound notifications.

One-time manner mode only works one time. To use this function, it has to be activated before each access.

Auto/manual locking mode

This function allows to activate or deactivate automatic locking after the door is closed.



Activating Manual Locking Mode

After removing the battery cover, look for the auto/manual locking switch. Move the switch up to activate manual locking mode.



Activating Auto Locking Mode

After removing the battery cover, look for the auto/manual locking switch. Move the switch down to activate auto locking mode.

✓ Additional lock features

Relocking function

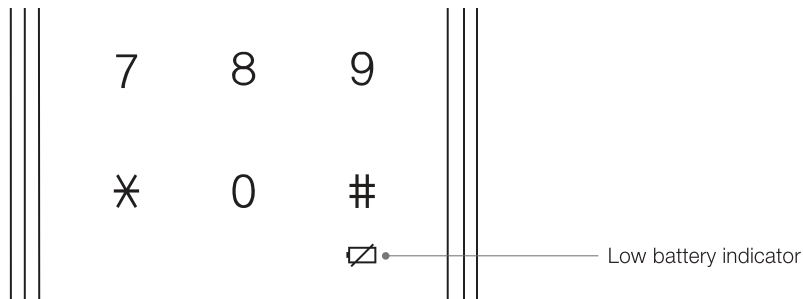
If the door is not opened within 7 seconds after pressing down the door handle or unlocking with PIN code, key card, fingerprint or your smartphone, the door lock will automatically lock again

Failed locking alarm function

In case the deadbolt cannot normally extend or retract during closing or opening the door, the door lock will sound a “Bee-Bee-Bee-Bee” alarm three times

Low battery warning

The door lock automatically provides sound notifications in case of low battery status. If you hear three “beeps” and low battery indicator light after normal operation such as opening or closing, replace all the batteries (if you do not replace the batteries after being issued a low battery warning, the door lock may stop working)



ⓘ Note

- When replacing batteries, you are required to replace all batteries. Replace only with unused batteries. Do not use batteries of differing manufacturers.

Intruder alert

If the door is opened abnormally without providing proper access authorization (for example by forcefully breaking the door frame), an alarm with more than 80 decibel intensity is triggered

Alert deactivation

The alert can be deactivated by removing the batteries or by providing proper access authorization such as a registered [PIN code], [RFID card].

Warning function against mischief or hacking

If an unregistered PIN code, key card or fingerprint is used five (5) times in a row, the door lock will sound an alarm and additional attempts are blocked for one (1) minute.

High temperature alert

The built-in temperature sensor triggers a fire alarm and automatically unlocks the door when detecting temperatures above 70°C (158°F)

ⓘ Note

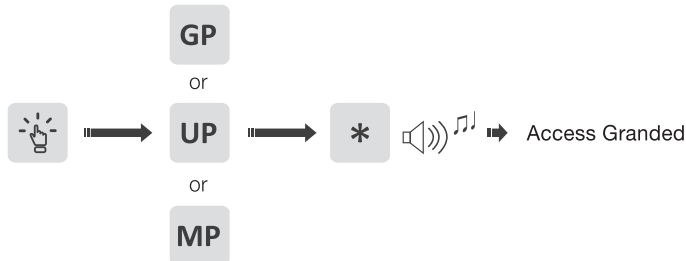
- If the internal module of the door lock is exposed to direct sunlight for extended periods of time, the temperature sensor maybe activated and an alarm may be triggered. Even when privacy mode is activated, a triggered fire alarm will unlock the door. Therefore, this product must not be installed in case of high indoor temperatures, including - but not limited to - prolonged direct sunlight exposure of the internal module.

✓ Open and lock the door

Open the door from outside

How to open by PIN code

After successful authorization, the door unlocks with audible feedback

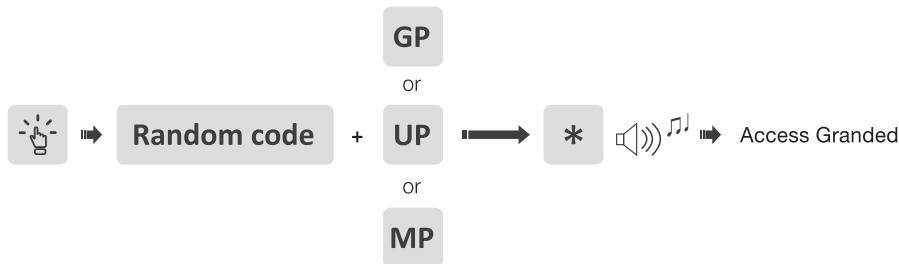


ⓘ Note

- With applying wrong code for 5 times, the digital door lock will sound an alarm and additional attempts are blocked for one (1) minute.
- After apply authorization successful, the digital door lock will automatically lock again if door is not opened within 7 seconds.

How to open by PIN code with random security coding function

Press any number randomly without limitation and then enter PIN code at final. With this function, the door can be opened without revealing PIN code to others. After successful authorization, the door unlocks with audible feedback



ⓘ Note

- With applying wrong code for 5 times, the digital door lock will sound an alarm and additional attempts are blocked for one (1) minute.
- After apply authorization successful, the digital door lock will automatically lock again if door is not opened within 7 seconds.

How to open by key card or fingerprint

The door can be opened by key card or fingerprint without touching keypad.

How to open by key card



(For Rabbit Card, users have to activate the digital door lock before use)

How to open by fingerprint



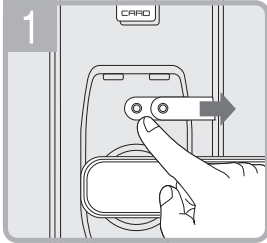
ⓘ Note

- With wrong key card or fingerprint for 5 times, the digital door lock will sound an alarm and additional attempts are blocked for one (1) minute.
- After apply authorization successful, the digital door lock will automatically lock again if door is not opened within 7 seconds.

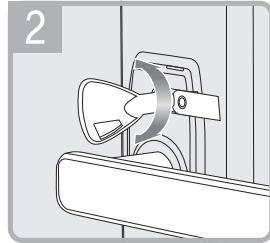
✓ Open and lock the door

How to open by mechanical key

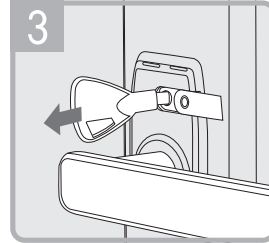
The mechanical key override can be used if the door lock has become unresponsive.



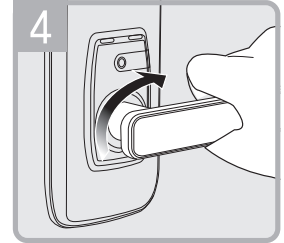
1 Locate the mechanical key hole above the handle and slide the cover to the right.



2 Insert the mechanical key into the cylinder and rotate it clockwise.



3 After the deadbolt retracts, return the key to its entry position and remove it.

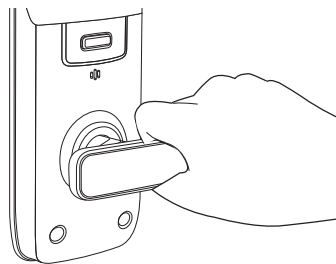


4 You can now open the unlocked door by operating the handle. Make sure to close the key hole cover.

Open the door from inside

Open with handle

The door can be unlocked and opened from inside anytime by pressing down the door handle.



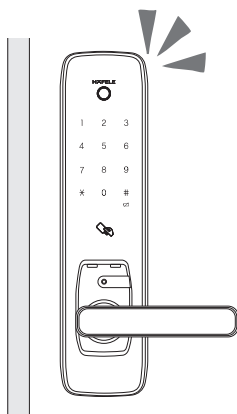
ⓘ Note

- After pressing down the door handle, the digital door lock will automatically lock again if door is not opened within 7 seconds.

Lock the door from outside

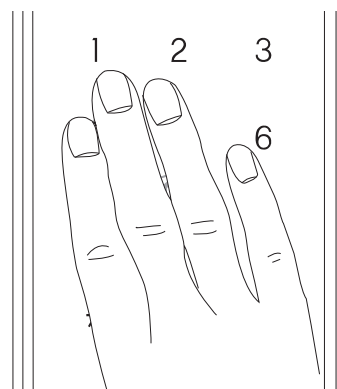
When auto locking is activated

The door will automatically lock within 2 seconds after the door is close.



When manual locking is activated

The door can also be locked by touching the keypad.



✓ Open and lock the door

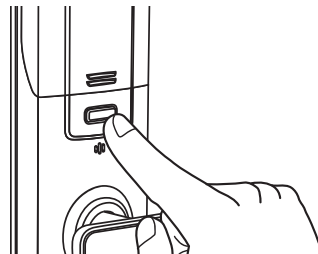
Lock the door from inside

When auto locking is activated

The door lock will automatically lock within 2 seconds after close the door.

When manual locking is activated

The door can be locked by pressing  button.



✓ Service feature

Reset master PIN code



Note

- The door must be open, deadbolt retracted before operation.
- After reset, master PIN code will be factory default, 1234.

Restore to factory default settings



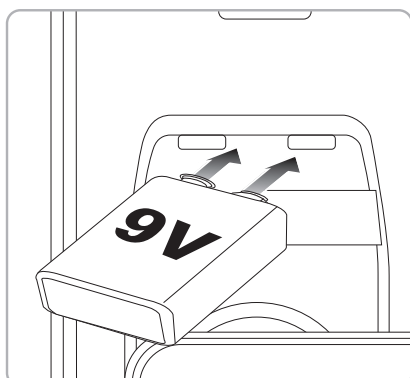
(Keep pressing R button until hear 2 beeps on the 3rd second and the 7th second)

(Keep pressing # button until hear 2 beeps)

Note

- The door must be open, deadbolt retracted before operation.
- After factory reset, master PIN code will be factory default, 1234. All PIN codes, key cards and fingerprints are deleted. Locking mode setting is auto locking and volume control is high

Emergency power source



The external emergency power connector allows to temporarily operate the lock with a 9V battery.

1. Connect the 9V battery to the emergency power connectors located above the handle.
2. After waking up the keypad, input your PIN code.
3. Press * button to confirm your PIN code and open the door.
While using the emergency power source, you can also unlock the door with a registered key card or fingerprint.

Optional Zigbee function

Zigbee module is smart device management to integrate your digital door lock to application "Hafele Smart Living". It is so power useful to control and manage your digital door lock easier.

✓ Set Zigbee connection and register master smartphone

Please carefully do the following steps to connect digital door lock with application "Hafele Smart Living"

Install Application "Hafele Smart Living"

1. Application "Hafele Smart Living" can use both Android and iOS. Scan the right QR code to download Application "Hafele Smart Living" from Play Store or App Store.
2. Sign up App's account by email address, or login if you already have an account.

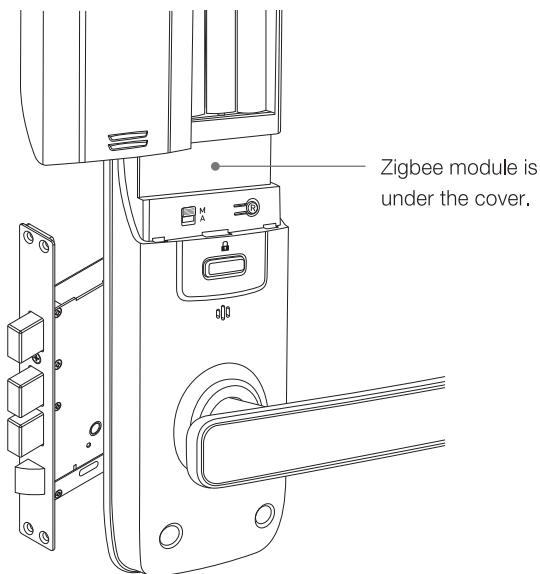


Prepare Zigbee gateway

3. Preparing the ZigBee gateway, please learn how to set up the gateway from gateway's manual.

Register digital door lock to Zigbee gateway

4. Please check whether Zigbee module is plugged in the internal module of digital door lock already. In case, Zigbee module is not plugged in, please restore to factory default settings before plug in the Zigbee module. After restore to factory default setting, master PIN code will be factory default, 1234. Then change the master PIN code, please see "How to change master PIN code" on page 7.

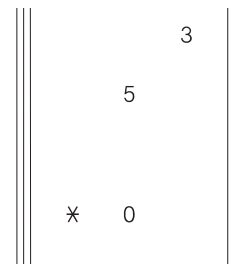


5. While the door is open, remove one piece of battery and wait 10 seconds then re-insert the battery again. (For rebooting the system)
6. Press R button shortly. The digital door lock will sound one "beep". Then enter master PIN code and follow with "*" button. Number 0, 3 and 5 on the keypad will light up. Then press number 5 button. Only number 8 will be light up (Around 1 min).

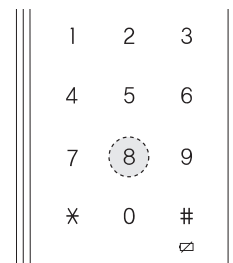


ⓘ Note

- If number 0, 3 and 5 on the keypad do not light up after press "*" button, please confirm Zigbee module is plugged in properly. And remove one piece of battery then re-insert the battery again. (For rebooting the system)



7. Go to application "Hafele Smart Living APP", and choose the ZigBee gateway then click "+ Add subdevice".
8. Press "LED already blink" then App will search nearby lock.
9. If the application found the digital door lock, the digital door lock will generate sound "beep beep" and number 8 on the keypad of digital door lock will be flickered.



10. When the digital door lock can register, the digital door lock will be showed in the app at the same time that the keypad goes off. Then press "Done".
11. Name the digital door lock and then press "Done". Now your smartphone is administrator of the lock and can operate the lock.

Basic operation

Add access right

You can add PIN code, key card and fingerprint

1. Open the application and press icon "Home" on the bottom left screen. Select the desired digital door lock.



2. Press icon "unlock ways" on the bottom screen.

3. Press user name who would like to add access right and follow instruction on the screen.
4. If you want to add new user, after step 2, press "+" on the top right screen and select lock method between family lock and temporary lock.



family lock

It can add fingerprint, password and key card. The users must register the application first and then use their email address as their account.



temporary lock


It can add 3 password types, once password, repeat password (periodic) and dynamic password (expires after 5 minutes).

Share device

Please use this function carefully. You can give right to others anywhere as long as there is an internet signal. They can control the digital door lock by smartphone

1. Open the application and press icon "Home" on the bottom left screen. Select the desired digital door lock.



2. Press icon  on the top right and then press "Share Device".
3. Press "Add Home Member" and then fill in new member info. Please note that the member's account must be the email address registered the application.
4. Press between "Administrator" and "Common Member" to select access right.
5. Press "Save" on the top right screen to finish.
6. A popup screen will appear on new member's smartphone. The new member must press "accept" to get access right.

Volume control

You can off or adjust the audible feedback volume. This function doesn't effect to alarm.

1. Open the application and press icon "Home" on the bottom left screen. Select the desired digital door lock.
2. Press icon "setting" on the bottom right screen and press menu "Key Tone" on the screen.
3. Scroll to select the desired sound level and then press "Confirm".



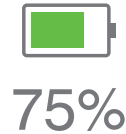
mute
↑↓
low
↑↓
normal
↑↓
high

✓ Basic operation

Battery level

You can see percentage of battery power.

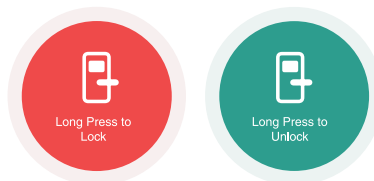
1. Open the application and press icon "Home" on the bottom left screen. Select the digital door lock.
2. Icon "battery" with percentage of battery power is shows on the top left screen.



Mobile open/close the door by smartphone

You can control the digital door lock anywhere, even if you are away from the lock as long as there is an internet signal.

1. Open the application and press icon "Home" on the bottom left screen. Select the desired digital door lock.
2. The screen will show one of the lock icons below to change lock/unlock status.
3. To alternate between lock and unlock, long press the lock icon.
4. Please wait some seconds, the digital door lock will operate and the screen will update the door status.



Lock records

You can see unlocking and warning records at any time.

1. Open the application and press icon "Home" on the bottom left screen. Select the digital door lock.
2. If you want to see unlocking record, press icon "records" on the bottom left screen. The screen will show records. Each record shows the time of occurrence and user.
3. If you want to see warning record, press icon "bell". The screen will show warning record. Each record shows time of occurrence and warning type.



✔ Troubleshooting Guide

Problem	Solution	Page
Door lock has no power	<ul style="list-style-type: none"> - Make sure all batteries are installed properly - Replace all four batteries - Check for battery leakage - Connect a 9 V battery to the external power connector to operate - Open the digital door lock by mechanical key 	5, 13, 14
Forgot master PIN code	<ul style="list-style-type: none"> - Reset master PIN code 	14
After entering PIN code + * button, the door does not open.	<ul style="list-style-type: none"> - Make sure that you input the correct PIN code - Wake up the keypad and input your PIN code again 	12
Enter PIN code/ key card/ fingerprint but door does not open	<ul style="list-style-type: none"> - Connect a 9 V battery to the external power connector and try again - Privacy mode may be activated - Open by mechanical key - Please contact your nearest service center 	10, 13, 14
After normal operation, the door lock keeps beeping	<ul style="list-style-type: none"> - This alarm sound is the low battery notification - Immediately replace all batteries with new, unused batteries from the same manufacturer 	11
Auto locking does not work	<ul style="list-style-type: none"> - Make sure auto locking mode is activated - If the low battery notification is activated, replace all batteries and try again 	10

✔ Product specification

Topic	Specification	DL7800	EL7800 Plus
Installation requirements	Door thickness	35 ~ 50 mm	40 ~ 60 mm
Access functions	Fingerprint	Up to 100 fingerprints	
	RFID card	Up to 70 cards	
	PIN code	Up to 35 codes (4-12 digits combination)	
Main power supply	DC 6 V	LR6 1.5 V AA size alkaline battery 4 ea (not included)	LR6 1.5 V AA size alkaline battery 4 ea
Emergency power supply	DC 9 V	Alkaline battery (not included)	

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