

User Manual

KABA

E-Flash EF110



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Options

※ The functions and design of this product can be changed without notice for quality improvement.


Please read the following before using Kaba E-Flash products

- This product is designed and manufactured to assure personal safety. Improper use can result in personal damage or property loss. Please observe the procedures for installation, use and servicing.
- The Kaba E-Flash is a precision electronic device. All safety and operating instructions should be read before the product is operated.
- This product is designed to be used in indoor and weather-protected outdoor areas.
- Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged or should be re-installed.
- Check your installation conditions with the local service provider before installation as your door prep might be different from the standard this lock conforms with.
- The product's warranty does not cover defects or damages arising from door defects, improper installation, lack of or improper maintenance, improper storage, shipping and handling, ordinary wear and tear, misuse, abuse, accident, unauthorised service or use with unauthorised service parts.
- Disassembly, rework and reverse engineering are prohibited without a written approval from Kaba except for normal installation of the product.
- The trademarks, trade names, designs, copyright, patents and other proprietary right used on or embodied in the product and this manual shall remain the exclusive property of the manufacturer, cannot be copied or used in any form unless otherwise authorised in writing by Kaba.
- The information in this manual is subject to change without notice.



IMPORTANT SAFETY INSTRUCTIONS

Please read the following safety instructions to prevent any accident, property damage and inconvenience. Children should be well educated in the operation procedure before use. Keep this manual in a convenient place so that you can refer to it when necessary.

 **Caution** must be followed to protect yourself and your property.



explains product functions and features.



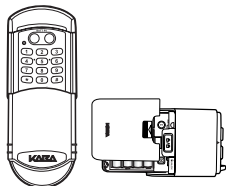
prohibited



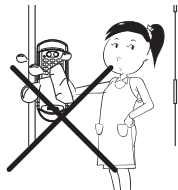
must observe



The Kaba E-Flash digital door lock is an precision electronic device.



Clean only with a dry cloth. Do not use water as it can cause damage to the electronic circuit.



Do not attempt to disassemble the unit by yourself as it can cause an electronic shock and product damage.



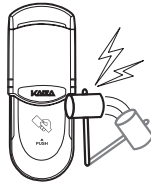
When you move contact your local service personnel for re-installation. Check the service charge with your service provider.



Caution



Do not use an inappropriate tool that can cause damage to or malfunction of the product.



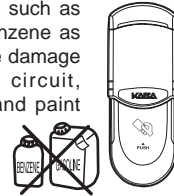
Handle the unit with care. Excessive force or careless handling may cause product damage.



Be careful not to let an unauthorised user know of your security code. Change your code periodically.

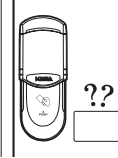


Do not use water or any type of solvent such as gasoline or benzene as they can cause damage to electronic circuit, deterioration and paint peel-off.



Do not lose your card key or risk having it stolen.

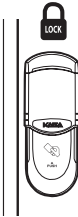
- Immediate re-registration of all remaining keys is required to invalidate the lost key.



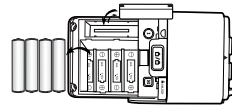
Handle the keypad cover with care.



Make sure the door is securely locked whenever you leave your house, especially in the manual lock mode.



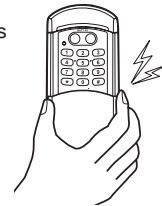
Remove all of the batteries before installing or removing a communication module.



Keep card key reader part clean and dry. Dust off dirt smoothly with a soft cloth.



Take care not to injure your fingers when lifting the keypad cover up and down.



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Overview

■ Smart card identification

You can use any ISO 14443 A type RFID card as your card key.

■ Dual access

You can unlock the door using your card key or personal Security Code at your convenience. You do not need to worry about accidental lockouts by losing or forgetting keys.

■ Easy re-registration of keys

If you lose a key, you can invalidate the lost key by re-registering all other keys. 2 Prox Cards and 2 Prox Fobs are offered at purchase and you can register up to 20 card keys.

■ Etiquette mode

In etiquette mode no sound is made in normal operations. The break-in alarm still operates even if the etiquette mode is on.

■ Self-checking

It checks the system status and alerts the user in case of malfunction or low battery power.

■ Anti-collision

Contacting multiple cards does not cause error to the lock. Key-touch-terminal will recognize the correct card key among a pack of cards.

■ Automatic locking

By simply closing the door it will automatically lock. Manual operation is also available.

■ Forced lock mode

Internal activation of the Force Lock mode blocks all entry from outside. External activation of the Force Lock mode disables the open/close button - using the manual unlock knob to exit from the inside will sound the alarm.

Specifications

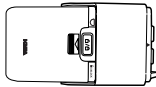
		Specifications	Remarks
Front Body (External)		21(D) × 62(W) × 161.5(H) Die cast zinc	Operating temperature : -15 ~ 55℃
Back Body (Internal)		42(D) × 162(W) × 90(H) Die cast zinc	
Card Key		2 X Prox Cards 2 X Prox Fobs	Up to 20 key registration (sold separately)
Striker		1 X with screw packs	
Battery		4 X 1.5V AA alkaline batteries	Lasts up to 1 year (assuming product is used 10 times a day)
Option	Remote Control & Remote Control Module	Wireless	Sold separately

- ※ Battery life may vary depending on temperature, moisture levels, frequency of use and the quality of the batteries.
- ※ Please make sure that all parts are included when purchasing the product.
- ※ Optional products may not be available depending on your country or local dealer.

■ Basic Contents



Front Body (External)



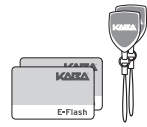
Back Body (Internal)



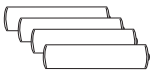
Sub Bracket



Striker



Card Key



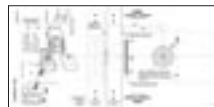
Batteries



Screws



User Manual

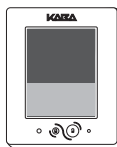


Installation Template

■ Optional Products



Remote Control Module



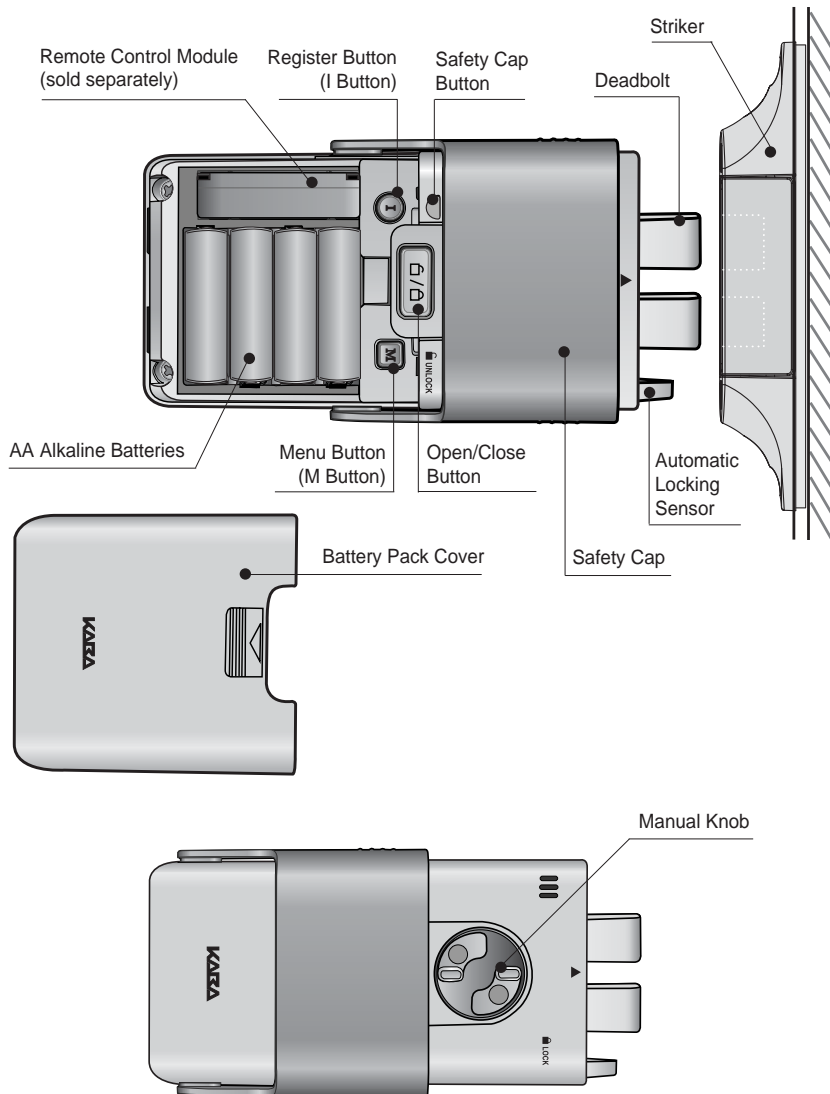
Remote Control

Identification of Product

01 Front Body (Install on the outside of the door)



02 Back Body (Install on the inside of the door)



Getting Started

01 Registering Security Code

Caution

- Keep the door open while you register a new Security Code to prevent yourself from accidentally being locked out.

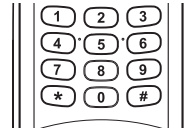


Note

- Set a code of 4 to 12 digits using the number buttons (* and # buttons can not be used).

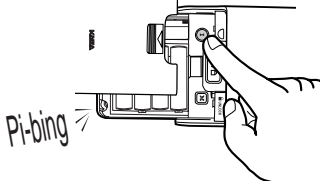
(4 - 12 digits)

0000 - 000000000000




- The old code is automatically deleted when registering a new code.
- If incorrect codes are entered 5 times in a row all functions shut down for about 3 minutes. Press [open/close] button on the back body or just wait 3 minutes to resume the operation.

1 Press  button



⚠ Caution



If it takes too long (over 7 seconds) to enter the code after pressing  button, the code will not be registered.

2 Enter your new Security Code

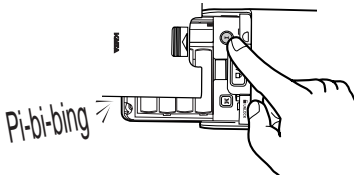


Enter the code you wish to register (4 to 12 digits)

⚠ Caution

 and  buttons can not be used for security code.

3 Press  button



The registration is complete with a “pi-bi-bing” sound.

4 Check your security code



Once registration is complete, make sure to open the lock with your new security code.

Opening the door with your code

Open [keypad cover] ⇄ Enter code ⇄
Close [keypad cover]

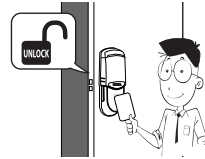


If LED is not turned on with the [keypad cover] open press the  button.

02 Registering Card Keys

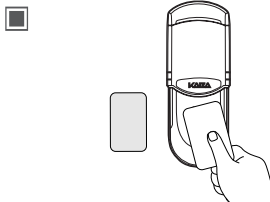
Caution

- Keep the door open while you register a new code to prevent yourself from accidentally being locked out.



Note

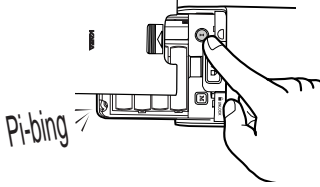
- | | | | |
|--------|------------|---------|-------------------------------------------------------------------------------|
| Basic | Additional | Maximum | 4 card keys are provided at purchase and you can register up to 20 card keys. |
| 4 keys | + 16 | = 20 | |



If you lose a registered card key, reregister all the remaining card keys to invalidate the lost one.

- Contact your local dealer for additional card keys.

1 Press [I] button



⚠ Caution

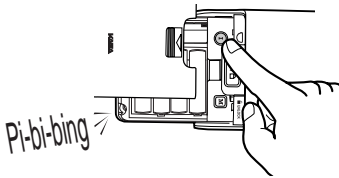
If it takes too long (over 7 seconds) to contact the key card after pressing [I] button, the card will not be registered.

2 Contact all the card keys you wish to register on [card key reader] one by one



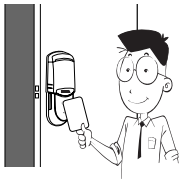
If you hear a “pik” sound, the card keys are registered. If you hear a “ti-to-ti-to” sound, the card key had been registered earlier.

3 Press [I] button



The registration is complete with a “pi-bi-bing” sound.

4 Confirming registration



Once registration is complete, check if your card key works correctly.

Opening the door with your card

Press [wake-up] button ⇨ contact the key card

⚠ Caution

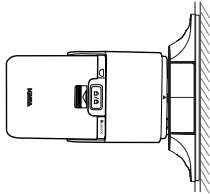
User should register both security code and key card. If the card key is lost or forgotten, the user still can open the door.

01 Locking the door from the Outside



Automatic lock mode

The automatic lock sensor detects the door closing and locks the door within 5 seconds.

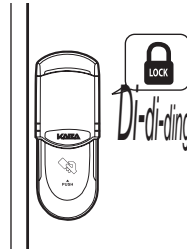


Within 5 seconds



Manual lock mode

The door locks when you slide the [keypad cover] down and back up again.

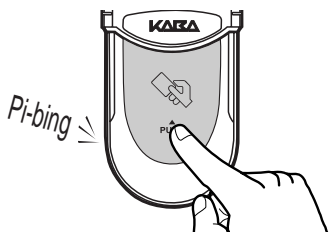


Alternatively you may press the  button to lock the door if the [keypad cover] is down.

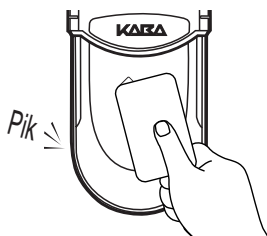
02 Unlocking the door from the Outside

Unlocking with card key

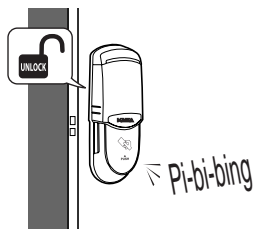
- 1 Press [wake-up] button



- 2 Contact the registered card key on [card key reader]



Confirms it is unlocked with a “pi-bi-bing” sound.



⚠ Caution

If unregistered card keys are attempted 5 times in a row, it is locked out for 3 minutes.

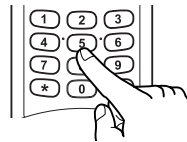


Unlocking the door with security code

- ① Slide down [keypad cover]



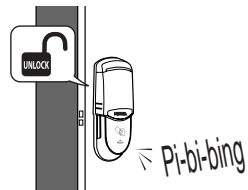
- ② Enter the security code



- ③ Close up [keypad cover]



Confirms it is unlocked with a “pi-bi-bing” sound



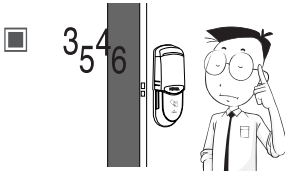
If the LED is not turned on with [keypad cover] down, press ***** button to turn on the LED. After entering the code press ***** button again or slide [keypad cover] up.

⚠ Caution

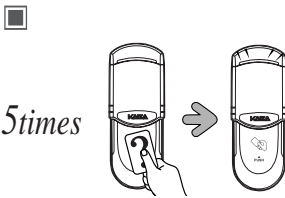
If incorrect security codes are entered 5 times in a row it is locked out for about 3 minutes.



⚠ Caution



Make sure to keep your code secret, as damages caused by code exposure are the liability of the user.



5times

If incorrect security codes or unregistered fingerprints are attempted 5 times in a row, the LED blinks blue and it is locked out for about 3 minutes.

- Resume the operation after 3 minutes.
- If you press [open/close] button on the back body it resumes the operation at once.

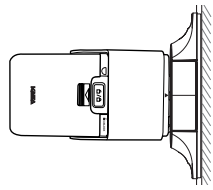


Make sure that the user registers the security code at the time of installation. Do not let anyone register the security code on your behalf.

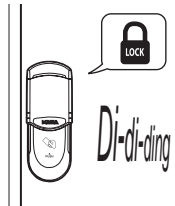
03 Locking the door from the Inside

Automatic lock mode

The automatic lock sensor detects the door closing and locks the door within 5 seconds.

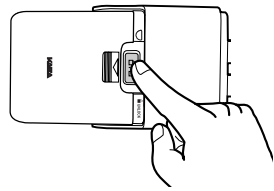


→
Within 5 seconds



Manual lock mode

Press the [open/close] button on the back body.

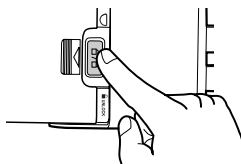


→

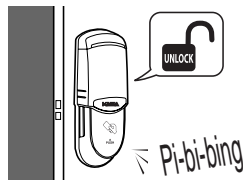


04 | Unlocking the door from the Inside

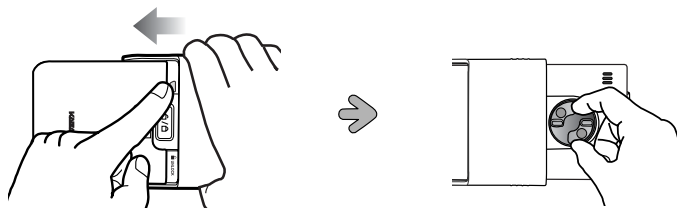
- 1 Press the [open/close] button on the back body



- 2 The lock sounds to confirm it is unlocked



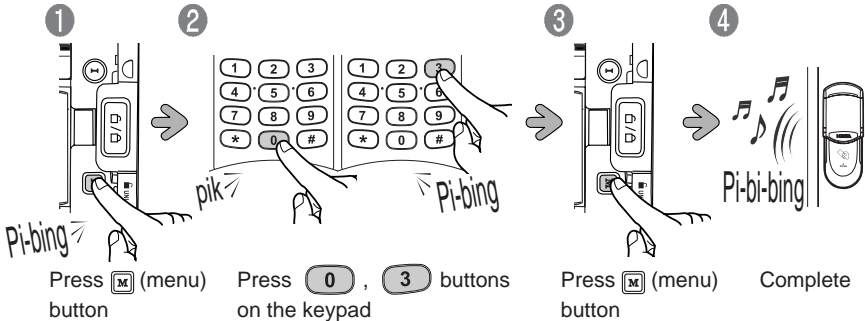
※ Opening the lock with the [manual knob] triggers the break-in alarm. It can be used in case of emergency.



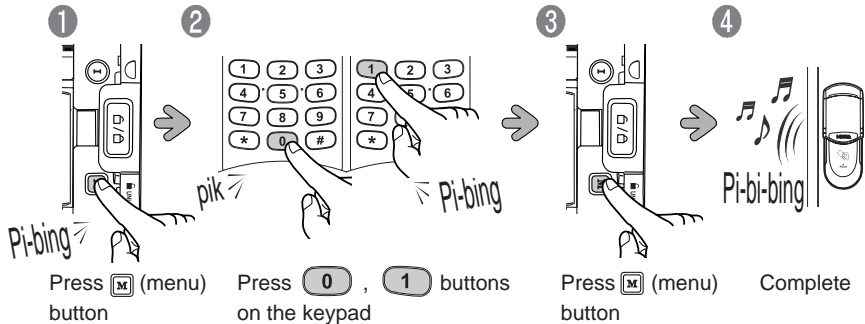
05 Automatic / Manual Lock Mode

The EF110 has a sensor which detects the door closing and automatically locks the door in 5 seconds. Automatic lock mode is a factory default setting.

Setting it to manual lock mode



Setting it to automatic lock mode



⚠ Caution

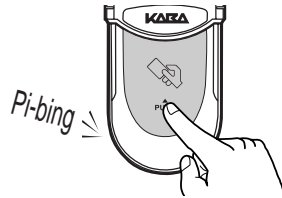
As the automatic lock function does not work in manual lock mode, make sure to check that the door is securely locked when leaving the premises.

06 Externally Activated Forced Lock

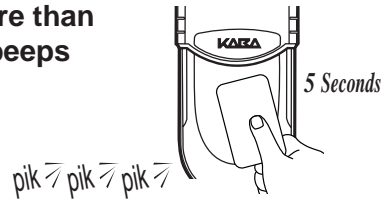
In externally activated forced lock mode, the door cannot be unlocked from the inside. It is useful to prevent a break-in in case of long absence of the users from the premises.

Setting externally activated forced lock mode on with card

1 Press [wake-up] button



2 Contact the card key for more than 5 seconds until you hear 3 beeps

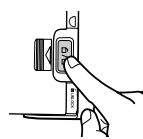


3 Externally activated forced lock is set on with a "di-ri-rik" sound



⚠ Caution

- It sounds warning beeps if you press the [open/close] button on the back body in externally activated forced lock mode.



- Remove [safety cap] and turn [manual knob] in order to unlock from the inside. It triggers the alarm when unlocked with the [manual knob].

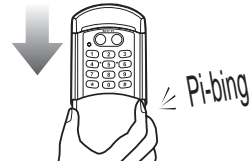


- ※ In order to turn the alarm off you have 3 options:
 - contact your registered card key, or
 - enter the registered security code, or
 - press and hold [open/close] button for 5 seconds.



Setting externally activated forced lock mode on with security code

- 1 Slide down [keypad cover]

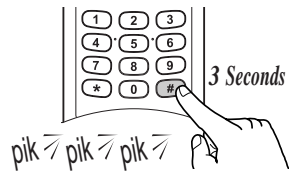


- 2 Enter the security code



- 3 Press and hold **#** button

Press and hold **#** button for about 3 seconds until externally activated forced lock mode is set on with 3 beeps.



- 4 Close up [keypad cover]



Setting externally activated forced lock mode off

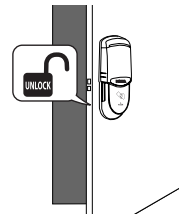
Properly unlocking the lock with the registered card key or the security code will set externally activated forced lock off.



<card key>



<security code>

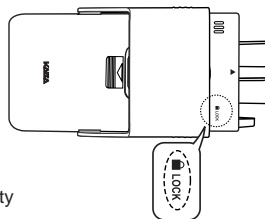
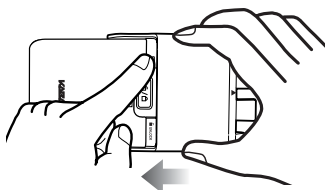


07 Internally Activated Forced Lock

The door cannot be unlocked from the outside even by the card or security code in internally activated forced lock mode. It enhances the level of security when all users are inside of the premises.



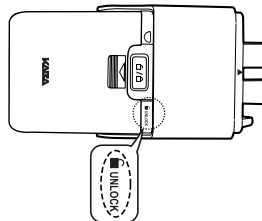
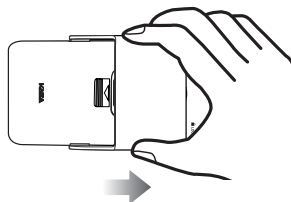
Setting it on internally activated forced lock mode



Slide [safety cap] to **LOCK** position pushing [safety cap button] so that [open/close] **OPEN/CLOSE** button will be covered by [safety cap].



Setting it off internally activated forced lock mode

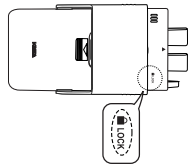


Slide [safety cap] to **UNLOCK** position so that you can see [open/close] **OPEN/CLOSE** button.



Note

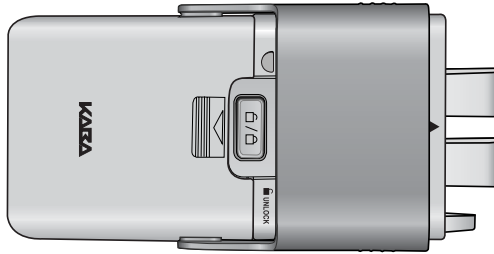
- The keypad and card keys will not function from the outside in internally activated forced lock mode. It sounds the warning beeps when you slide [keypad cover] down or contact the card key.



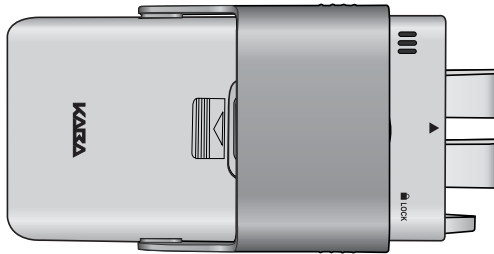
pik-pik-pik



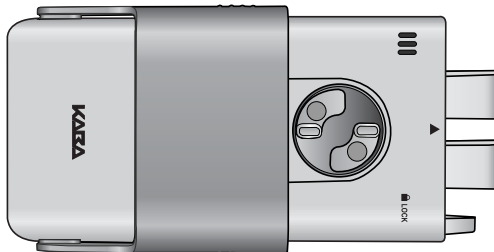
■ 3 Steps locking mode



· **Normal Operation** : Unlocked by [open/close] button.



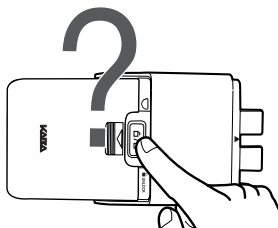
· **Internal Forced Lock** : Cannot be opened from the outside.
It raises the alarm if card key and/or security code is attempted.



· **Manual Knob Unlock** : Unlocked by [manual knob] in case of emergency.

08 Using Manual Knob in Emergency

In case you cannot open the lock with [open/close] button.

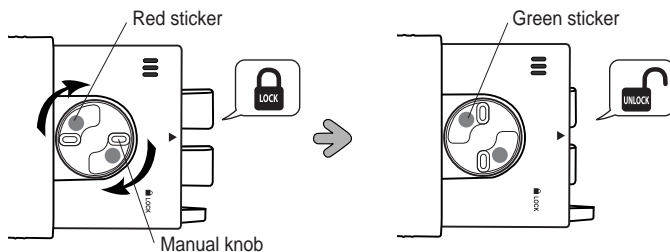


- 1 Slide [safety cap] to the side pushing [safety cap button] to reveal [manual knob].
- 2 Turn [manual knob] to open the lock.



Note

※ Unlocking with [manual knob]



Turn [manual knob] in a clockwise direction.

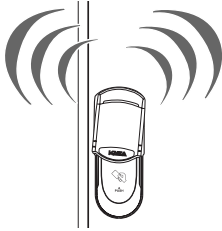
⚠ Caution

It triggers the alarm when you open the door after unlocking the lock with the [manual knob].

09 Break-in / Damage Alarm

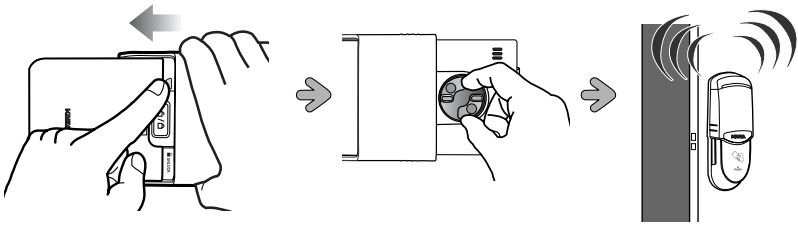


Break-in alarm



- If the lock is forced to open in an abnormal way the break-in alarm is triggered.

- It sounds the alarm if you open the lock with the [manual knob] while the door is closed.

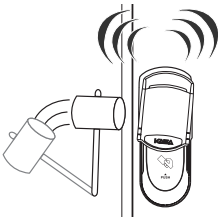


- It sounds the alarm if you touch the [automatic locking sensor] with the deadbolt extended.



Damage alarm

- If the lock is damaged on the outside the damage alarm is triggered.

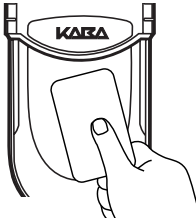




Turning the alarm off

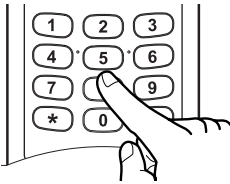
In order to turn the alarm off you have 3 options:

■ Contact the card key



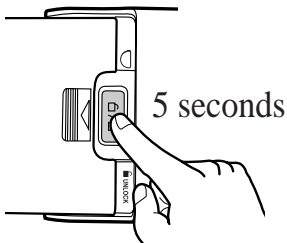
- ① Press [wake-up] button.
- ② Contact the card key on the [card key reader].

■ Enter the security code



- ① Slide [keypad cover] down
- ② Enter the security code
- ③ Slide [keypad cover] up

■ Press [open/close] button



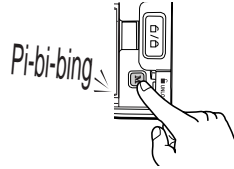
Press and hold [open/close] button for 5 seconds.



10 Setting Alarm Length

The function allows the user to set the length of time the break-in and damage alarm will sound. The alarm length can be set to 3, 10 or 30 minutes. The factory default setting is 30 minutes. Changing the batteries (power-off) does not change the mode setting.

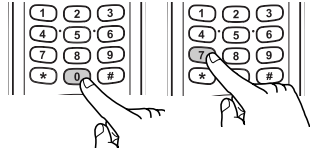
- 1 Press [menu]  button



- 2 Press the keypad number that corresponds to the alarm length you wish to set

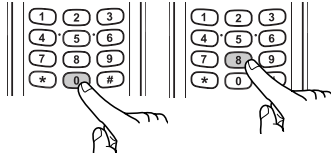
To set 3 minutes

Press  ,  buttons.



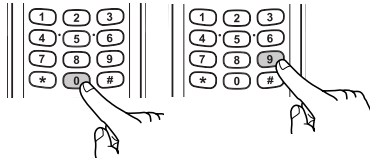
To set 10 minutes

Press  ,  buttons.

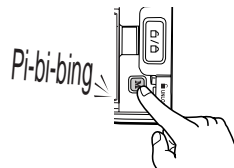


To set 30 minutes

Press  ,  buttons.



- 3 Press [menu]  button



11 Wrong-try Lock-out

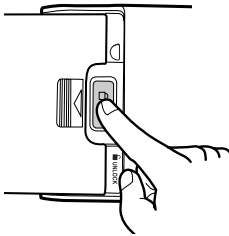
Wrong-try Lock-out disables the keypad buttons and card key reader. The break-in and damage alarm work regardless of this function.



5 times



- If incorrect security codes or unregistered card keys are attempted 5 times in a row, it will lock out for about 3 minutes.



After 3 minutes

- Resume the operation after 3 minutes. If you press [open/close] button on the back body it resumes the operation at once.

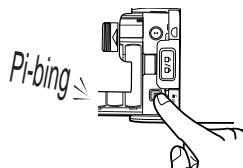
12 | Etiquette Mode

This function removes the normal operating sounds so that the door can be opened and closed without disturbing others. Etiquette mode is switched off upon shipping.

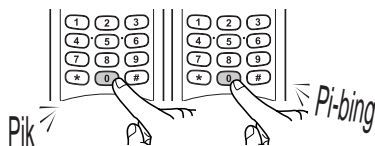


Setting Etiquette mode on

- 1 Press [menu]  button

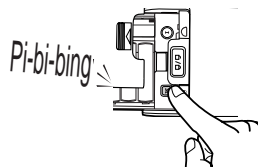


- 2 Press  ,  buttons

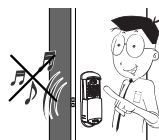


- 3 Press [menu]  button

It is set on with “pi-bi-bing” sound.



Confirm the Etiquette mode is on

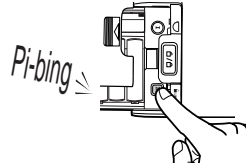




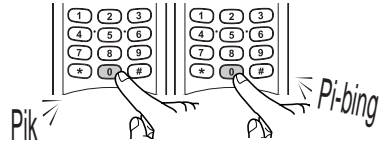
Setting Etiquette mode off

Repeat the above procedure to set the etiquette mode off. It is set off with 'pi-bi-bing' sound.

1 Press [menu]  button

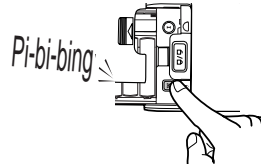


2 Press ,  buttons



3 Press [menu]  button

It is set on with "pi-bi-bing" sound.



Confirm the Etiquette mode is off

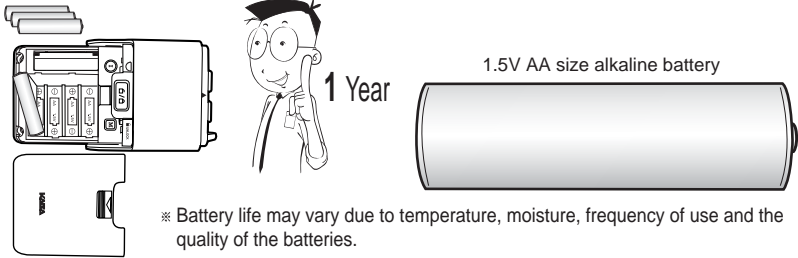


- Functions silent in etiquette mode: [open/close] button, card key reader, wake-up button, [keypad cover] sliding, keypad buttons, deadbolt activation.
- Functions that sound in etiquette mode: Error sounds, break-in alarm, [register] button, [menu] button, programing buttons.

6 Cautions

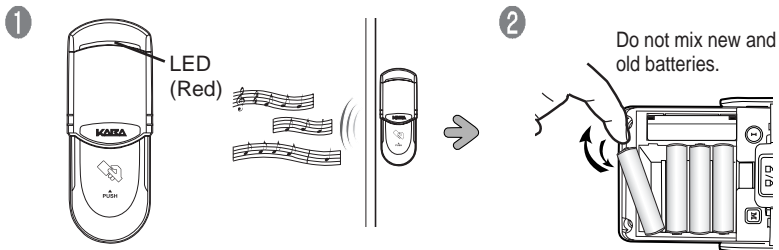
Battery use

This product uses 4 1.5V alkaline AA batteries which can be used for approximately one year on the condition of 10 open/close cycles per day.



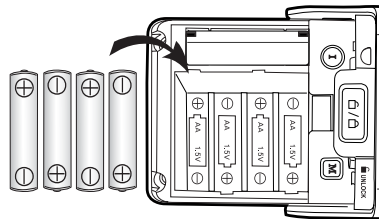
Battery replacement warning

Replace all 4 batteries when a low battery warning melody rings and the LED turns red.



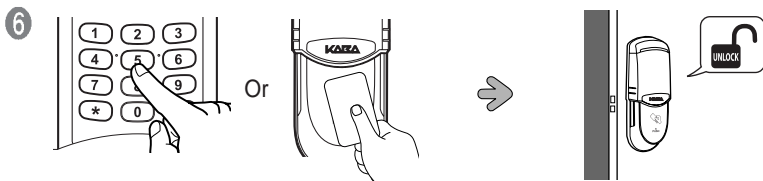
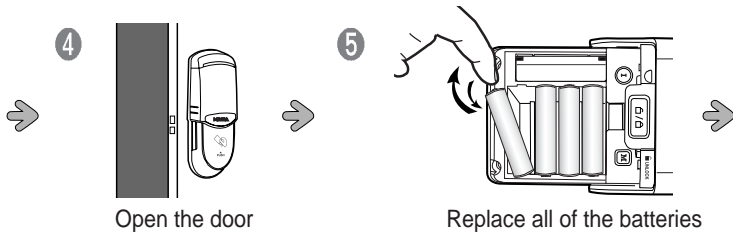
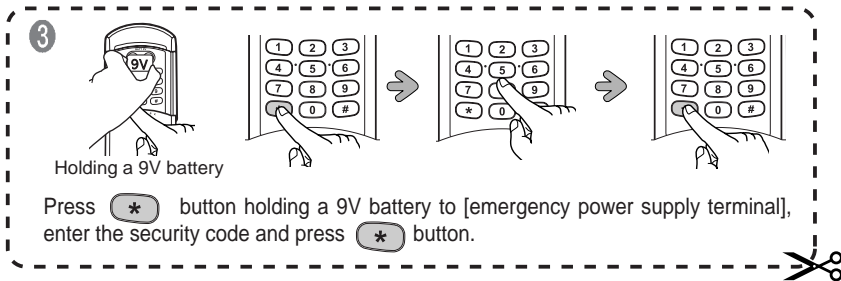
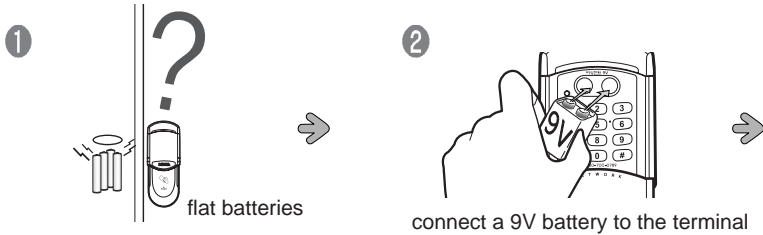
⚠ Caution

- Always check + and - directions when inserting batteries.
- Use authentic alkaline batteries. It is the user's responsibility for damage caused by using unauthentic batteries.



Emergency power supply

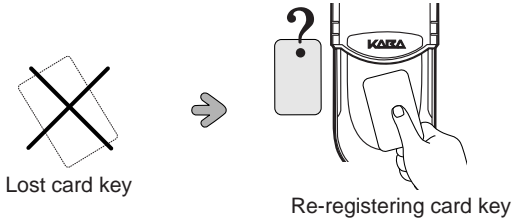
In case the batteries are completely discharged a 9V battery can be used to supply an electronic charge to the unit. Unlock with the card key or security code while contacting a **9V battery** to the Emergency Power Supply Terminal. Flat batteries should be replaced at once.



Confirm the door will open with the card key and security code after replacing all batteries.

Card key re-registration

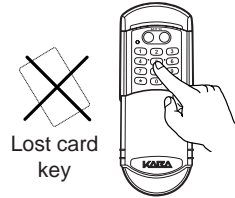
If you lose a registered card key, re-registering remaining card keys is required to prevent other people from using the lost one. You should always keep a spare card key handy to deactivate a lost registered one.



Caution

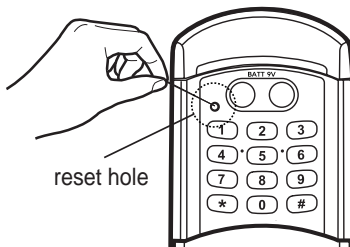
Enter the security code if you lose the card key or you are not carrying it.

※ It is a user's liability to break the lock because the user did not register a security code.



In case of product malfunction

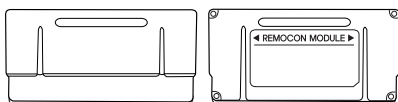
Press reset hole located in the left of [emergency power terminal] with a pin and try again with the key or the security code. If it still does not work, call for after-sales service.



Options

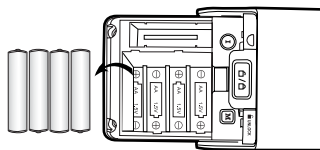
01 Remote Control Module

The Remote Control Module should be installed in advance in order to use or the remote control. Open [battery cover] and insert the module into the slot. Proper functioning of the module can be checked by operating a remote control.

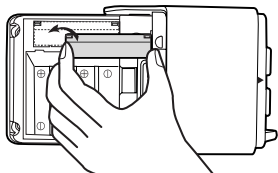


- Remote control module (RX module)
: Required for the use of remote control

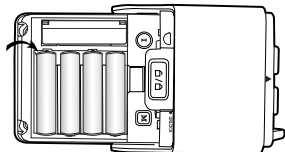
Installing Remote control module



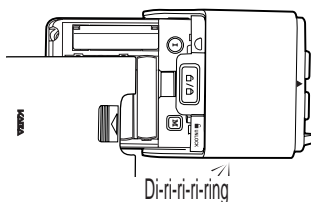
- 1 Open [battery cover] and remove all of the batteries



- 2 Insert the Remote control module into the slot



- 3 Put the batteries back checking the + and - directions



- 4 Confirming

It is properly installed with "di-ri-ri-ring" sound.

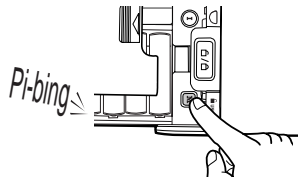
02 Remote Control

The remote control is an FM frequency (FSK) type that uses a Floating ID encoding system, which changes the wireless code each time you use the remote control, so that there is no risk of hacking. It is non-directional and the operational range is up to 10~20m. The photo frame design allows you to create different atmospheres by putting in a photo and hanging the remote control on the wall.

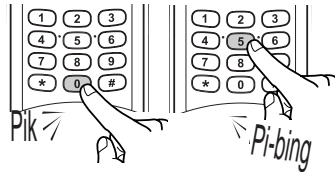
- ※ **Caution!** The operational range may vary depending on the installation environment.
Re-registration of another remote control automatically deletes the previously registered remote controls.

Registering the remote control

- 1 Press [menu]  button

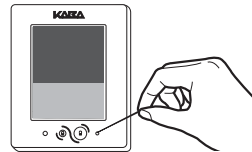


- 2 Press  ,  buttons

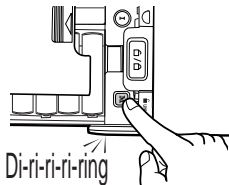


- 3 Press [ID register] button located on the front of the remote control with a pin

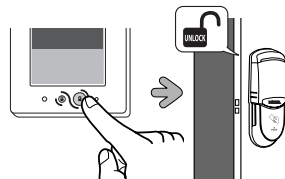
You can register up to 5 remote controls consecutively. In order to register consecutively, press [ID register] button on the remote control with 10 seconds intervals. Remote control is registered with a beep.



- 4 Press [menu]  button



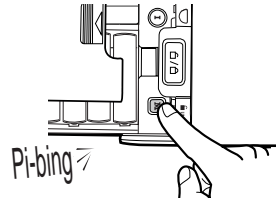
- 5 Press [open] or [close] button to check the operation



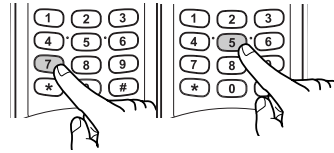


Deleting the remote control registration

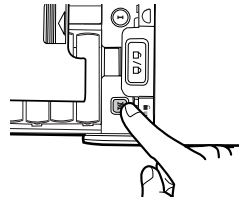
- 1 Press [menu]  button



- 2 Press  ,  buttons



- 3 Press [menu]  button



- 4 **Deleting remote control registration**

Remote control registration is cancelled with a “di-ri-ri-ring” sound.



Note

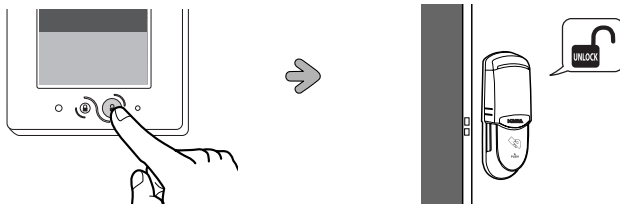
In case you do not use remote control or you lose it, deleting remote control registration may lengthen the battery life.



How to use the remote control

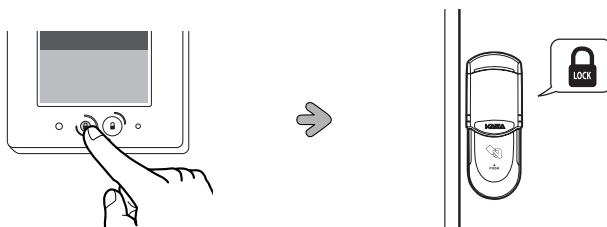
Unlocking the door

Press [open] button, and it will unlock within 2~3 seconds.



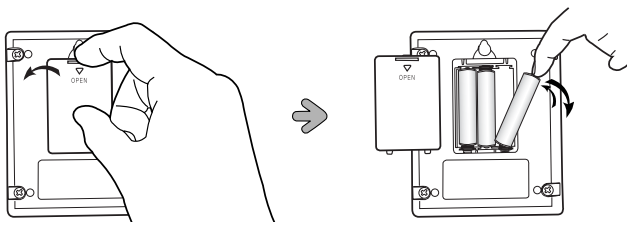
Locking the door

Press [close] button, and it will lock within 2~3 seconds.



Changing the batteries

Open [battery cover] on the back of the remote control and change the batteries.



**AUSTRALIA**

Kaba Australia Pty Limited
Unit 4, 42-44 Redfern Street,
Wetherill Park, NSW 2164
Tel: +61 2 8787 4777
Fax: +61 2 9609 6610

MALAYSIA

Kaba Jaya Security Sdn. Bhd.
No. 9, Jalan Pengacara U1/48
Temasya Industrial Park
40150 Shah Alam
Selangor Darul Ehsan
Tel: +60 3 5569 8188
Fax: +60 3 5569 8088

NEW ZEALAND

Kaba New Zealand Limited
Unit A/39A Sir William Avenue
East Tamaki, Auckland
Tel: +64 9 274 3341
Fax: +64 9 274 3301

HONG KONG

KABA Limited
2108 Futura Plaza
111-113 How Ming Street
Kwun Tong, Kowloon, Hong Kong
Tel: +852 2375 6110
Fax: +852 2406 2602

MACAU

Toll Free Number: +0800 348