

Leo Lock Manual

Secure and easy locking!

Safe locking with sophisticated security functions

Operable from a smartphone app

Communicable

Robustness



Forgery-resistant



Leo Remocon

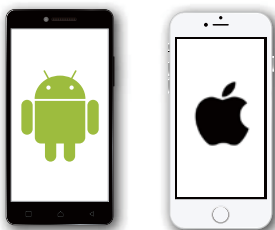


Support for various key styles

Remote locking when you have forgotten to lock

Dedicated cards

FeliCa

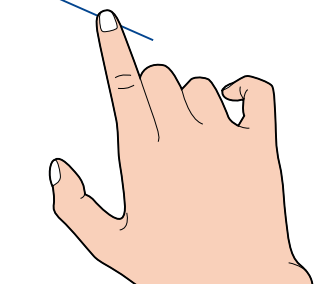


Smartphones



PIN

Remote operation



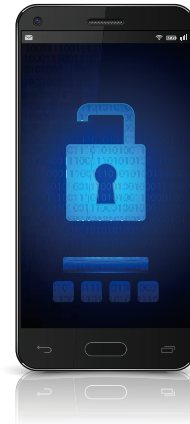
About Leo Lock

Secure and easy locking and unlocking

Leo Lock is a smart lock that offers sophisticated functions and high security. In addition to the robustness of the unit, Leo Lock deploys a very strong locking method for effective crime prevention. Also, Leo Lock is connected to the network to enable you to operate and check the lock using our app.

Your smartphone can be the key

In addition to the provided key card and the spare key card, you can use a compatible smartphone, FeliCa card, and PIN, which can be used as the key.



Remote locking when you have forgotten to lock

You can lock remotely with our app.

Issue a PIN to let visitors in without waiting.

You can issue a temporary PIN and let the person in if someone is visiting your home while you are out.



Automatically ON!



Use Leo Lock with Leo Remocon to improve the comfort level of your life.

***Supported from the next version.**

You can automate household appliance operations; for example, you can start the air conditioner as you unlock Leo Lock.

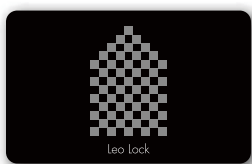
[Other features]

- In addition to the sound from the unit, voice messages can be used for operation instructions and results.
- You can check and delete the registered keys and see the daily operation status using the Leo Remocon app.
- An alarm and voice message sound when the Leo Lock unit detects an anomaly (when enabled).
- Leo Lock stops authentication for 2 minutes if an unregistered card is used five consecutive times to prevent mischief. (When enabled)
- You do not need to worry about battery runout of the unit: the unit runs on commercially available 9 V batteries.

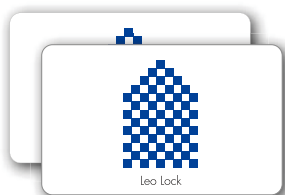
Keys supported by Leo Lock

You can use various keys with Leo Lock.

[Primary key card]



[Spare key cards]



[Android device]



You can use your smartphone as the key.

[iPhone]



(With FeliCa support*1)

These cards will be provided to residents by Leo Palace 21.

(With NFC-HCE or FeliCa support)

[FeliCa card]



You can register a FeliCa card that you use to travel as the key.

[Examples]

- Suica, Edy, PASMO, nanaco, ICOCA, WAON, etc.

[PIN]



If you install the Leo Remocon App, you can create a PIN that expires.

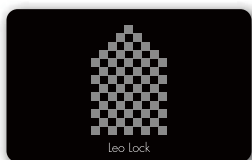
*1: You need to register a credit card that can use Suica, iD, or QUICPay to Apple Pay in advance.

* IC cards, such as transportation cards, may sometimes be automatically exchanged for new cards when being updated. In such cases, please note that some of the registered information on the old card will change thereby making it impossible to use Leo Lock until the new card is registered.

When you are entering the room for the first time

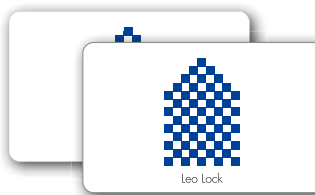
You need the following when you are entering the room for the first time.

[Primary key card]



The card to register as the primary key. You need this key to issue spare keys and change settings in addition to locking and unlocking Leo Lock. Keep this key card at home after registering the primary key.

[Spare key cards]



These cards are spares. You cannot issue spare keys using these cards. These cards are only for locking and unlocking Leo Lock.

[Key issue certificate]

Six-digit PIN (AP key number) to use Leo Lock and a 10-digit device code to use the Leo Remocon App are printed.



Document



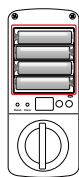
Electronic data

PIN (6 digits)

Device code (10 digits)

Preparation

The following describes preparations before using Leo Lock.



- (1) Check that batteries (AA x 4) are installed in the Leo Lock unit.



[Power] lamp [Connecting Server] lamp

- (2) Check that the [Power] lamp and [Connecting Server] lamp on the front side of Leo Remocon are both lit.

What you can do with the Leo Remocon App

Operations

[Check the Leo Lock status]

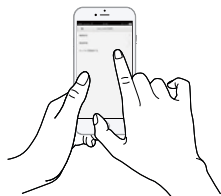
You can check if Leo Lock is locked or unlocked.



- When you are not sure if you have locked the door.

[Locking the door from where you are]

You can check if the Leo Lock is locked while you are out and lock from where you are.



- When you have realized you have forgotten to lock the door while you are out.
- * Locking from the App consumes more battery power than manual operation.

[Issuing a PIN]

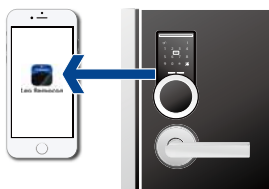
You can issue a PIN that expires in 24 hours. You can share the PIN with someone else.



- If you are out when you are expecting your family's visit, you can issue a PIN to let them in.
- You can issue an emergency PIN when you have been locked out.
- You can issue a PIN when your friends need temporary access to your home.

[Displaying the registered key list]

You can check the keys registered to Leo Lock.

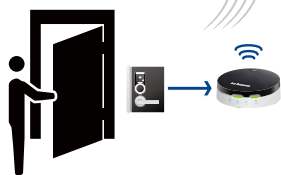


- You can assign names to the registered keys to manage them.
- You can check the registered PIN.

[Linking operations with locking and unlocking]

You can automatically control household appliances when locking and unlocking Leo Lock. (Supported from the next version)

Turn on the air conditioner when unlocking the door.



- You can turn on the air conditioner when you are back.
- You can turn off all lights when you are going out.

[Checking operation history]

You can check when Leo Lock was locked or unlocked and which key was registered and when.



Recorded history

- Locking and unlocking
- Registering and deleting keys
- Alert
- Changing settings
- Connection information

- You can assign names to keys to check whether your family members are at home by using the unlocking information.
- You can check what time the anomaly occurred when you receive an alert from Leo Lock.

Management

You can check the Leo Lock settings and status from the App.

[Firmware upgrade]

You can upgrade Leo Lock firmware (see 5-2 (7) "How to upgrade Leo Lock unit firmware" on p. 18).



- Ensuring stable operations.

* When upgrading the firmware, Leo Remocon's firmware is upgraded as well as the Leo Lock's. The firmware upgrade takes 20 to 50 minutes. Note that you cannot lock and unlock from outside during the upgrade.

[Checking and changing Leo Lock unit settings]

You can check Leo Lock setting items.



Settable items

- Beep volume
- PIN entry protection mode
- Auto unlock in the event of fire
- Anomaly alert
- Mischief prevention function

[Displaying Leo Lock unit status]

You can check the communication status between Leo Lock and Leo Remocon, Leo Lock unit battery condition, and unit error on the app.



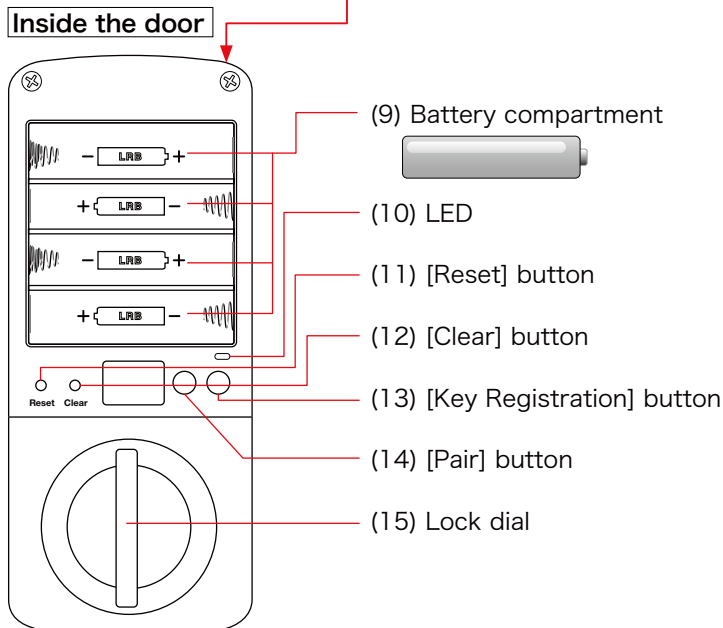
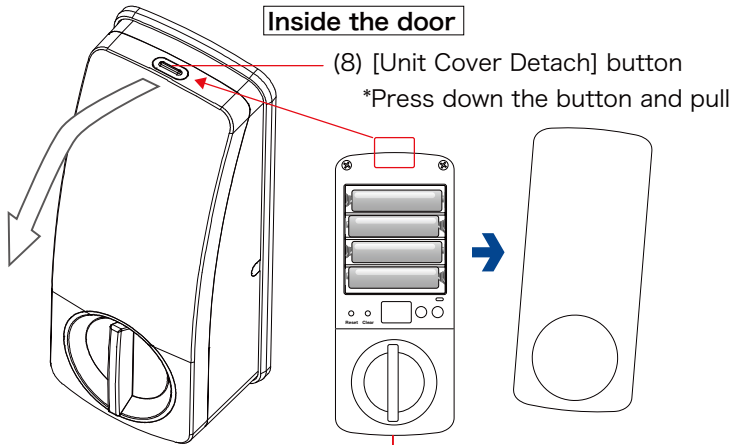
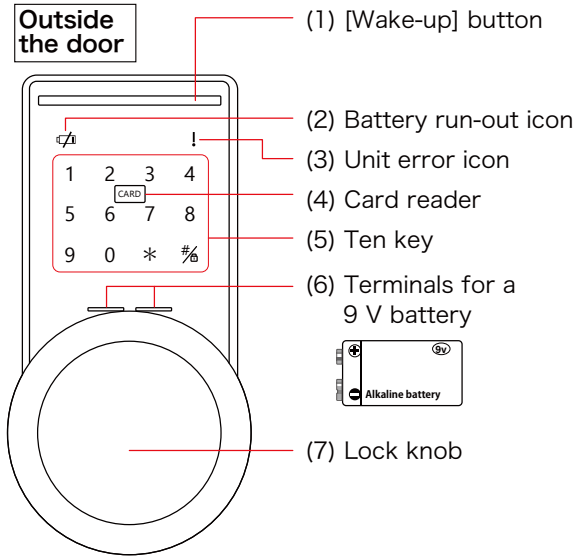
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1. Leo Lock Initial Settings and Operations

1-1 Leo Lock unit parts names



Function descriptions

- (1) The ten key blinks and becomes operable when you press the [Wake-up] button.
- (2) This icon is displayed when batteries in the Leo Lock unit are low.
- (3) This icon is displayed, and the ten key blinks when Leo Lock develops a fault.
- (4) You can lock or unlock by touching here with the card or smartphone registered with the key information.
- (5) You can enter the PIN or change the unit settings.

You can also use this when registering key information.

- (6) You can enable Leo Lock operations by touching here with the 9 V battery's terminals when the batteries in Leo Lock have run out.
- (7) You can turn this knob to open and close the door.
- (8) You can pull and remove the unit cover while pressing down on this button.
- (9) You can install 4 AA batteries here.
- (10) This lamp lights when buttons are operated inside the door.
- (11) This button deletes all key information, except for the primary key, and restores Leo Lock settings to the default.
- (12) This button deletes all key information except for the primary key.
- (13) This button allows you to register a spare key.
- (14) This button allows you to pair Leo Lock and Leo Remocon.
- (15) You can turn this dial to open and close the door.

* Operations are automatically canceled if you do not press any button for a certain duration while operating the Leo Lock unit.

1-2 Leo Lock Unit Function List

No descriptions are provided in this manual for items with "-" on the page.

Category	Functions	Outline	Page
Registration	Primary key registration	Registering the primary key.	P.8
	Spare key registration	Registering a spare key.	P.9
Clear	Key information deletion	Deleting the registered key information.	P.9
Unlock	Unlock with a card key	Unlocking Leo Lock with a card key.	P.11
	Unlock with a PIN	Unlocking Leo Lock by entering a PIN from the ten key pad.	P.12
	Unlock from the inside	Unlocking Leo Lock from the inside.	P.12
Lock	Lock	Locking Leo Lock with a card key.	P.11
	Lock with a PIN	Locking Leo Lock by entering a PIN from the ten key pad.	P.12
	Lock from the inside	Locking Leo Lock from the inside.	P.12
Settings	Beep volume adjustment	Adjusting the beep volume.	P.10
	PIN entry protection mode	Switching ON or OFF PIN entry protection mode.	P.10
	Fire auto unlock	Switching ON or OFF automatic unlocking in the event of fire.	P.10
	Anomaly detection alert	Switching ON or OFF the alert when detecting a forcible attempt to open the door.	P.10
	Mischief prevention function	Switching ON or OFF the mischief prevention function.	P.10
	Reset	Resetting settings. (Except key information)	P.13
Function	Battery low alert	Displaying the battery low alert on the touch panel and sounding the alarm.	—

1-3 Leo Remocon App function list

No descriptions are provided in this manual for items with "-" on the page.

Category	Functions	Outline	Page
Lock	Lock from App	Locking Leo Lock using the app.	P.16
Registration	Issue a PIN	Issuing a PIN to unlock Leo Lock.	P.16
Clear	Key information deletion	Deleting key information. (Except for the primary key)	P.17
Operation	Registered key list display	Displaying a list of key information registered to the Leo Lock unit.	P.17
	Device setting and display	Displaying and changing Leo Lock unit settings.	P.17
	Operation history display	Displaying Leo Lock unit operation history.	P.18
	Device information display	Displaying Leo Lock unit device information.	—
	Firmware upgrade	Upgrading the Leo Lock unit firmware.	P.18

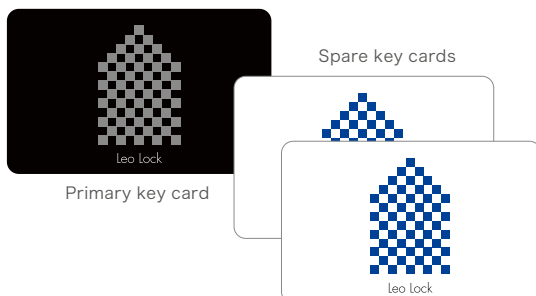
2. Checks Before Using Leo Lock

2-1 What you need to use Leo Lock (see P. 3 for details)



Key Issue Certificate

(Document with the PIN to register Leo Lock and the device code for Leo Remocon)



Primary key card

Spare key cards



Leo Remocon unit

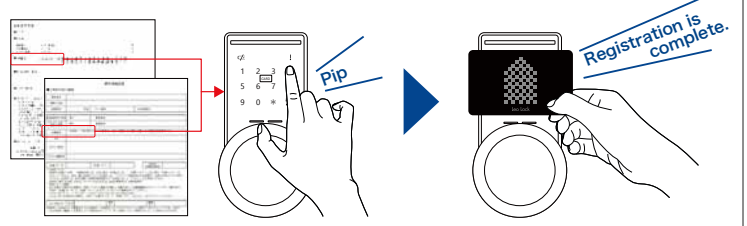
3. How to Use Leo Lock

You can start using Leo Lock after registering 3-1 and 3-2.

3-1 Registering the primary key

P.8

Enter the six-digit registration PIN on the Key Issue Certificate to register the primary key.

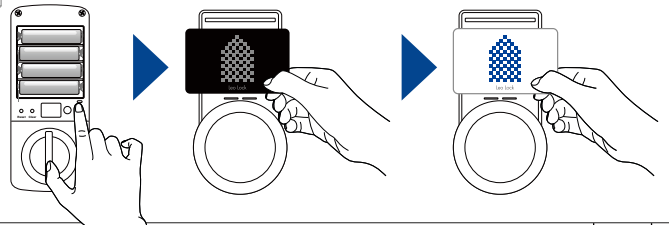


3-2 Registering and deleting spare keys

P.9

You can register spare keys using the registered primary key.

- Registering a spare key
- Deleting a spare key



*Only if you want to change the unit settings.

3-3 Changing Leo Lock unit settings

P.10

- Beep volume
- PIN entry protection mode
- Auto unlock in the event of fire
- Anomaly alert
- Mischief prevention function



*Only if you are using your smartphone as the key.

Setting up the Leo Remocon App

P.14

You can control Leo Lock from the Leo Remocon App.

- Setting up the Leo Remocon App
- Changing Leo Lock unit settings from the Leo Remocon App
- Issuing a PIN
- Deleting a spare key
- Checking Leo Lock unit operation history
- Upgrading the Leo Lock unit firmware



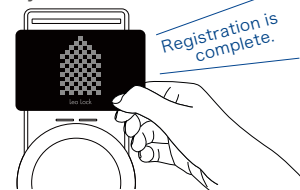
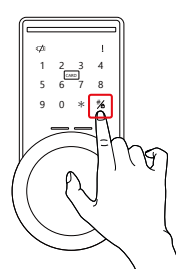
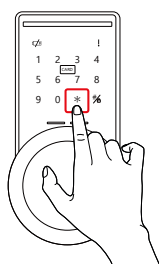
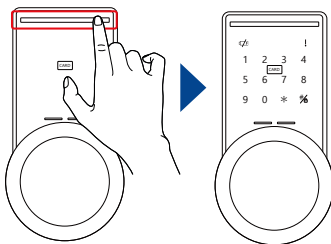
Start using

3-1 Registering the primary key

Enter the registration PIN to register the primary key.

[Procedure]

1. Touch the [Wake-up] button of the Leo Lock unit to activate the input.
2. Touch [*] on the ten key pad to start input mode.
3. Enter the registration PIN and touch [# / Key].
4. When you hear "You need to register the primary key. Touch the card reader with the authorized card," touch the card reader with the primary key card.



You need the primary key card to create and delete spare keys and change the settings of the Leo Lock unit.
Keep the primary key card at home after registering the primary key and use a spare key for day-to-day locking and unlocking. See 3-2 (1) "Registering a spare key" on p. 9 for how to register a spare key.

Settings are complete when you hear "Registration is complete."

3-2 Registering and deleting spare keys

You can register a spare key using the primary key.

3-2 (1) Registering a spare key

You can also register your smartphone or card as a spare key. This is a useful feature to register a spare key with simple operations. You can use the following as a spare key:

*You can register up to nine spare keys per room.

[What you can register as a spare key]

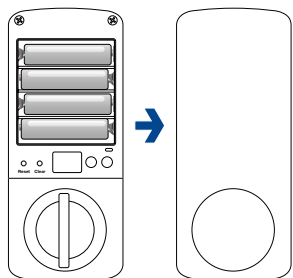
- (1) Spare key card issued by Leo Palace 21.
- (2) FeliCa card
- (3) Android device with FeliCa support
- (4) iPhone with FeliCa support*¹
- (5) Android device with NFC-HCE support*²

*¹ As of October 2017, iPhone 7/7 Plus and later models that have been registered with the FeliCa card will be supported.

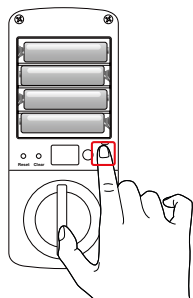
*² This combination provides a higher security level than those with FeliCa support. You need to register with Leo Remocon using the Leo Remocon App in advance.

[Procedure]

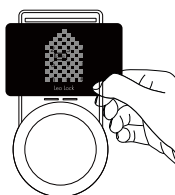
1. Press and hold down the [Unit Cover Detach] button on the Leo Lock inside unit and remove the unit cover.



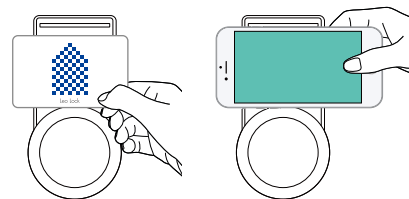
2. Press the [Key Registration] button on the inside unit.



3. When you hear "Touch the card reader with the primary key card," touch the card reader on the outside unit with the primary key card.



4. When you hear "Touch the card reader with the card you want to register," touch the card reader with the card or smartphone.



*If you are using an iPhone as a spare key, prepare the iPhone by setting up the FeliCa card in Apple Pay, and touch the card reader with the iPhone with your finger on the [Home] button (when Touch ID is enabled).

Settings are complete when you hear "Registration is complete." You can continue to register more spare keys.

3-2 (2) Deleting a spare key

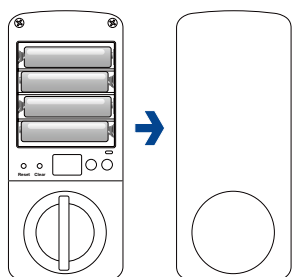
You can delete spare key information from the Leo Lock unit.

This operation deletes information on all registered spare keys. See "5-2 (4) Deleting spare keys from ".Leo Remocon App" on p. 16 for how to delete individual spare keys.

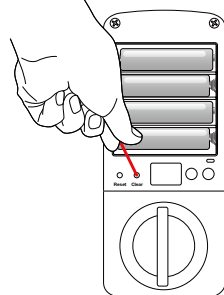
*Information on the primary key will not be deleted by this operation.

[Procedure]

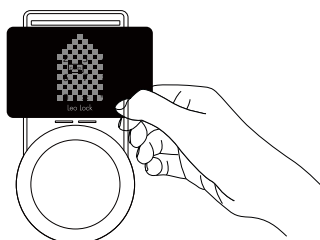
1. Press and hold down the [Unit Cover Detach] button on the Leo Lock inside unit and remove the unit cover.



2. Press and hold down the [Clear] button on the inside unit for 3 seconds. (Use a thin stick such as a pin)



3. When you hear "Touch the card reader with the primary key card," touch the card reader on the outside unit with the primary key card.



Deletion is complete when you hear "All registered keys are deleted."

3-3 Changing Leo Lock unit settings

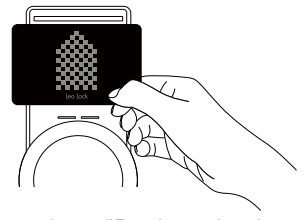
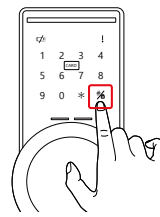
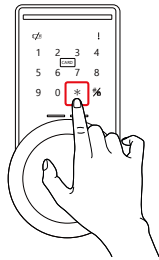
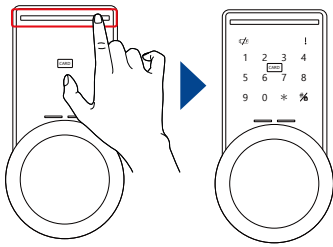
You can change Leo Lock unit settings. You can change settings for the following functions:

[Configurable functions]

- (1) Beep volume (4) Forcible unlocking attempt alert
 (2) PIN entry protection mode (5) Mischief prevention function
 (3) Fire auto unlock

[Procedure]

1. Touch the [Wake-up] button to activate the unit.
2. Touch [*] on the ten key pad to start input mode.
3. Touch [# / Key], enter "Mode number" and "Setting value" and then touch [# / Key].
4. When you hear "Touch the card reader with the primary key card," touch the card reader with the primary key card.



Settings are complete when you hear "Registration is complete."

Changing settings from the Leo Remocon App

You can also change Leo Lock unit settings from Leo Remocon App. See 5-2 (5) "Changing Leo Lock unit settings from Leo Remocon App" on p. 17.

[Unit settings]

Function name	Functions	Mode number	Setting value
(i) Beep volume	Adjusting the volume of the beep that sounds when the operation is recognized.	01	Specify a number between 0 (minimum) and 7 (maximum). 7 is set as the default.
[Example] Setting the beep volume to 4. * 0 1 4 Primary key			
(ii) PIN entry protection mode	This mode allows you to enter any numbers without restriction before entering the registered PIN at the end. This function makes it difficult to steal the PIN even if someone else is looking while you are typing.	02	Enable (ON): 1 Disable (OFF): 0 The function is disabled as the default.
[Example] Enabling the PIN entry protection mode. * 0 2 1 Primary key			
(iii) Fire auto unlock	This function sounds the voice message "Fire in the room," activates an alarm, and automatically unlocks the door in the event of fire. This allows you to get out quickly when a fire occurs. (Fire detection = When the temperature of the inside unit becomes 55°C or higher) (The voice message and alarm continues 1 minute)	04	Enable (ON): 1 Disable (OFF): 0 The function is disabled as the default.
[Example] Enabling fire auto unlock. * 0 4 1 Primary key			
(iv) Anomaly detection alert	This function sounds the voice message "Anomaly detected" and activates an alarm for 1 minute when an attempt is made to forcibly remove or destroy the unit. This is useful for preventing intruders.	07	Enable (ON): 1 Disable (OFF): 0 The function is disabled as the default.
[Example] Enabling anomaly detection alert. * 0 7 1 Primary key			
(v) Mischief prevention function	This function stops authentication for 2 minutes if the card reader is touched with an unregistered card for five consecutive times. This is useful for preventing intruders.	08	Enable (ON): 1 Disable (OFF): 0 The function is disabled as the default.
[Example] Enabling mischief prevention function. * 0 8 1 Primary key			

4. Locking and Unlocking

You can lock and unlock Leo Lock using the registered key.

4-1 Locking and unlocking from outside

The following describes how to lock and unlock from outside the door.

[Outline]

- Locking and unlocking with a card key
- Locking and unlocking with a smartphone
- Locking and unlocking with a PIN

4-1 (1) Locking and unlocking with a card

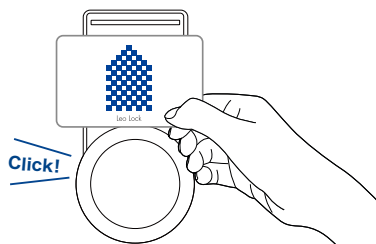
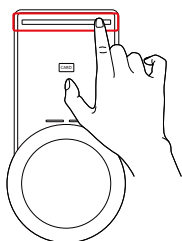
You can lock and unlock with the registered card key.

[Supported keys]

- Primary key card
- Spare key card
- FeliCa card

[Procedure]

1. Touch the [Wake-up] button on the Leo Lock unit.
2. Touch the card reader with the card key. When you hear a click inside the lock knob, turn the lock knob in the intended direction.



4-1 (2) Locking and unlocking with a smartphone

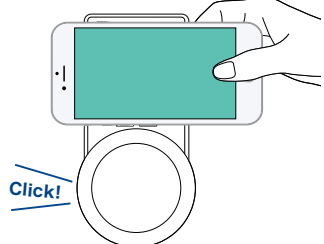
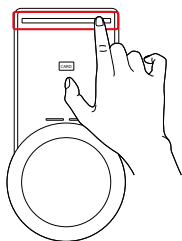
You can lock and unlock with the registered smartphone.

[Supported smartphones]

- Android device with NFC-HCE support
- Android device with FeliCa support
- iPhone with FeliCa support

[Procedure]

1. Touch the [Wake-up] button on the Leo Lock unit.
2. Touch the card reader with the smartphone. When you hear a click inside the lock knob, turn the lock knob in the intended direction.

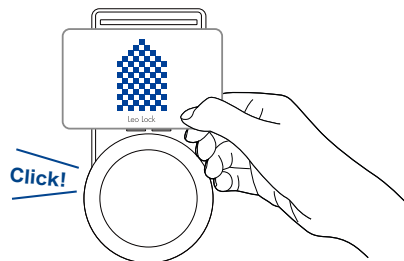


You cannot lock or unlock when the smartphone battery has run out and the smartphone is turned off.

*If you are using an iPhone as a spare key, touch the card reader with the iPhone with your finger on the [Home] button (when Touch ID is enabled).

Direction to turn the lock knob for locking and unlocking from outside the door

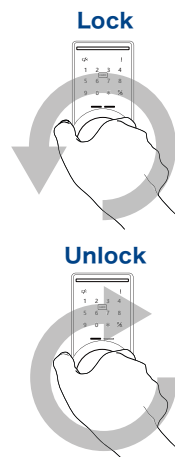
When you are authenticated with the correct key information, you will hear a click and then you can lock or unlock Leo Lock by turning the lock knob in the intended direction.



[From outside of the door]

Facing to the door from outside, Leo Lock is installed on the right hand side of the door.

- Turn the knob counterclockwise for locking
- Turn the knob clockwise for unlocking



Facing to the door from outside, Leo Lock is installed on the left hand side of the door.

- Turn the knob clockwise for locking
- Turn the knob counterclockwise for unlocking

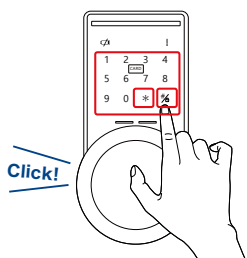
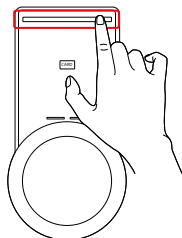


4-1 (3) Locking and unlocking with a PIN

You can lock and unlock the door with a PIN issued from Leo Remocon App as described in 5-2 (3) "Issuing a PIN" on p. 16.

[Procedure]

1. Touch the [Wake-up] button on the Leo Lock unit.
2. Touch [*] on the ten key pad, enter the issued PIN using the ten key, and then touch the [# / Key] button. When you hear a click inside the lock knob, turn the lock knob in the intended direction.



4-2 Locking and unlocking from the inside

The following describes how to lock and unlock from the inside the door.

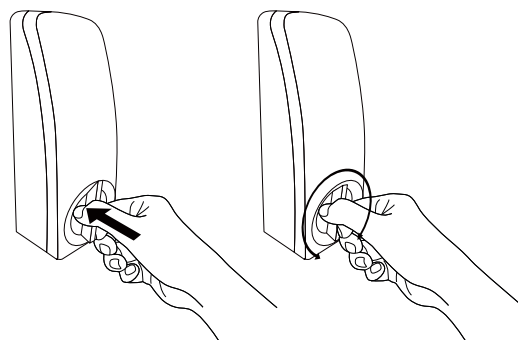
You do not need to be authenticated using the registered card, smartphone, or PIN for operating from the inside.

[Procedure]

Facing the door from the inside, Leo Lock is installed on the left hand side of the door.

- Press and turn the lock dial clockwise to lock.
- Press and turn the lock dial counterclockwise to unlock.

Turn the dial the other way around to lock and unlock when Leo Lock is installed on the right hand side of the door.



4-3 What to do when batteries have run out

Batteries are low when you hear repeated pips and the voice message "Batteries are low. Please replace them," and the battery run-out icon is lit after you have just locked or unlocked Leo Lock.

Replace batteries in the unit immediately. (The cost of the batteries is to be borne by the residents.)

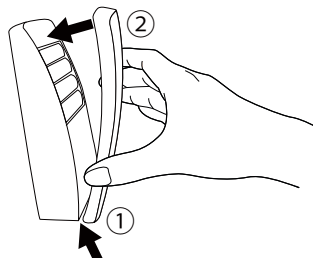
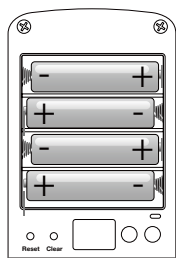
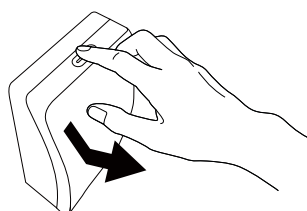
4-3 (1) Replacing the batteries

The following describes how to replace batteries in the unit. Batteries are stored in the unit inside the door. Replace them as follows.

[Procedure]

1. Press and hold down the [Unit Cover Detach] button and pull the unit cover to open. Batteries are inside the cover. Remove all of them.
2. Install new batteries in the battery compartment taking care to set them in the correct direction. (Use four AA batteries)
3. Align the bottom of the cover with the bottom of the unit, and then attach the cover over the unit.

Replacement of the batteries is complete if the battery run-out icon disappears. Check if you can lock and unlock with your key without a problem after replacing the batteries.



4-3 (2) Emergency measures for battery run-out

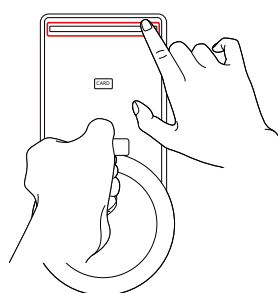
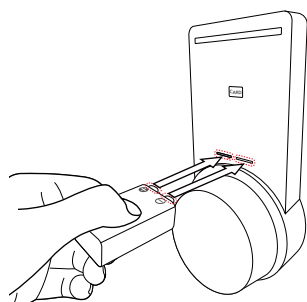
You can use a commercially available 9 V battery as an emergency measure to lock or unlock from outside when batteries in the unit have run out.

The following describes how to use the 9 V battery.

[Example] Unlocking Leo Lock with the card key when batteries in the unit have run out.

[Procedure]

1. There are terminals for a 9 V battery below the key operation section on the outside unit. Touch these terminals with the terminals of the 9 V battery. The direction of the positive and negative terminals does not matter.
2. Touch the [Wake-up] button on the Leo Lock unit while the battery is touching.
3. Touch the card reader with the card key. When you hear a click inside the lock knob, turn the lock knob in the intended direction.



4-4 Resetting Leo Lock unit settings

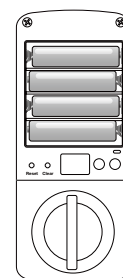
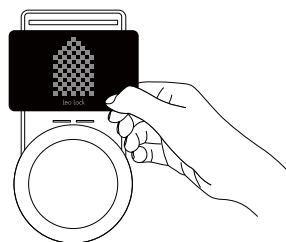
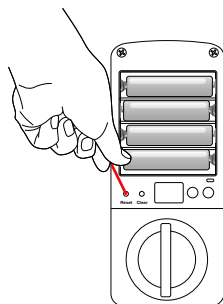
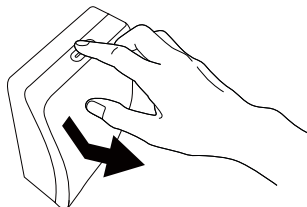
You can reset Leo Lock unit settings. This operation deletes information on spare keys registered as described in 3-2 (1) "Registering a spare key" on p. 9 and 5-2 (3) "Issuing a PIN," and any changes made as described in 3-3 "Changing Leo Lock unit settings" on p. 10 revert to the default values.

*Information on the primary key will not be deleted.

4-4 (1) How to reset Leo Lock unit settings

[Procedure]

1. Press and hold down the [Unit Cover Detach] button on the Leo Lock inside unit and remove the unit cover.
2. Press and hold down the [Reset] button on the inside unit for 3 seconds. (Use a thin stick such as a pin)
3. When you hear "Touch the card reader with the primary key card," touch the card reader on the outside unit with the primary key card.



All registered keys and setting information are deleted

5. Using Leo Lock from Leo Remocon App

5-1 About Leo Remocon

Leo Remocon is a high performance remote controller that allows you to control your household appliances and check the room environment (temperature, humidity, and brightness) using a smartphone or tablet.

In addition to controlling household appliances and checking the environment while you are at home, you can also do so while you are out.



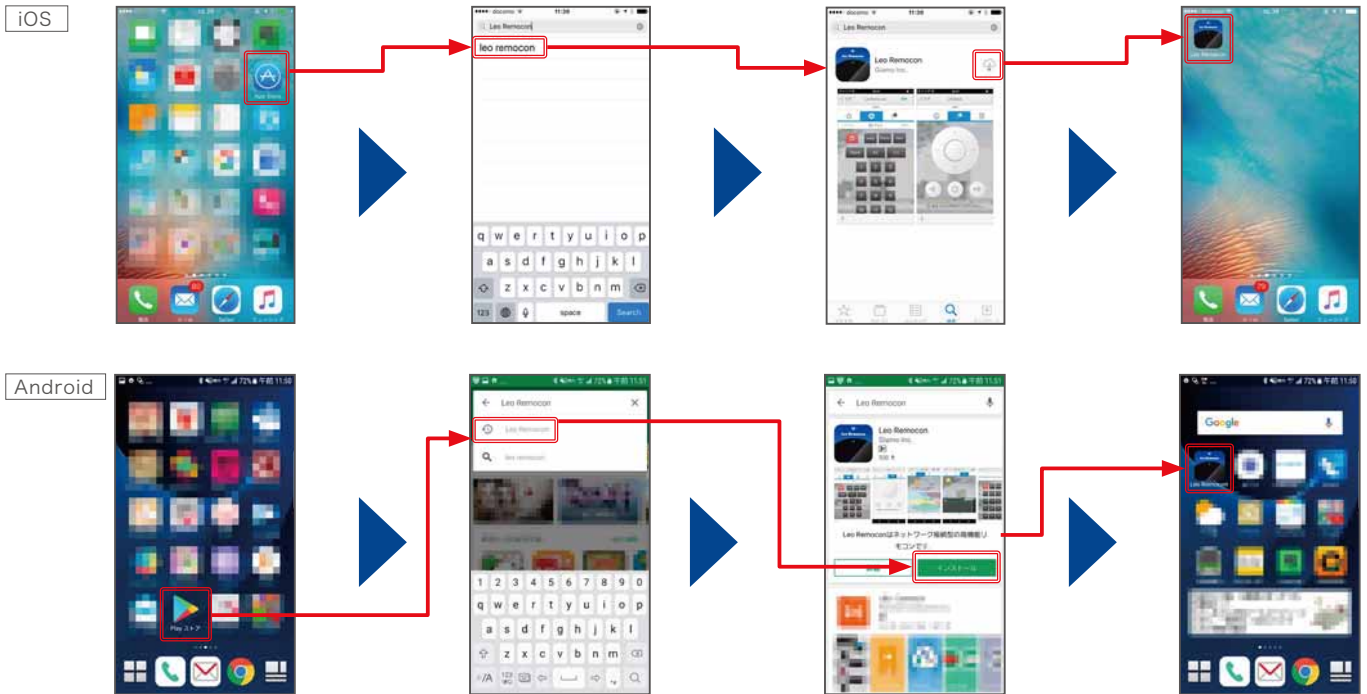
*You cannot unlock by touching Leo Lock after installing the Leo Remocon App.

5-1 (1) Setting up Leo Remocon App

You can set up the Leo Remocon App as follows. *See the Leo Remocon App manual for details.

[Procedure]

1. Obtain Leo Remocon App from an app store that supports your terminal and install the app.



2. Complete the initial setup following the instruction displayed in the app.

- Device code of Leo Remocon: Printed on the Key Issue Certificate. (See 2-1 "What you need to use Leo Lock" on p. 7)
- Member information: You need to register as a member to complete the setup. If you have not, registered [Register as a member].

After the registration, you can log in using the iRemocon member ID.



3. The setup is complete when you have registered correctly. Now you can use Leo Lock; however, you may need to set additional items on the following pages as necessary.

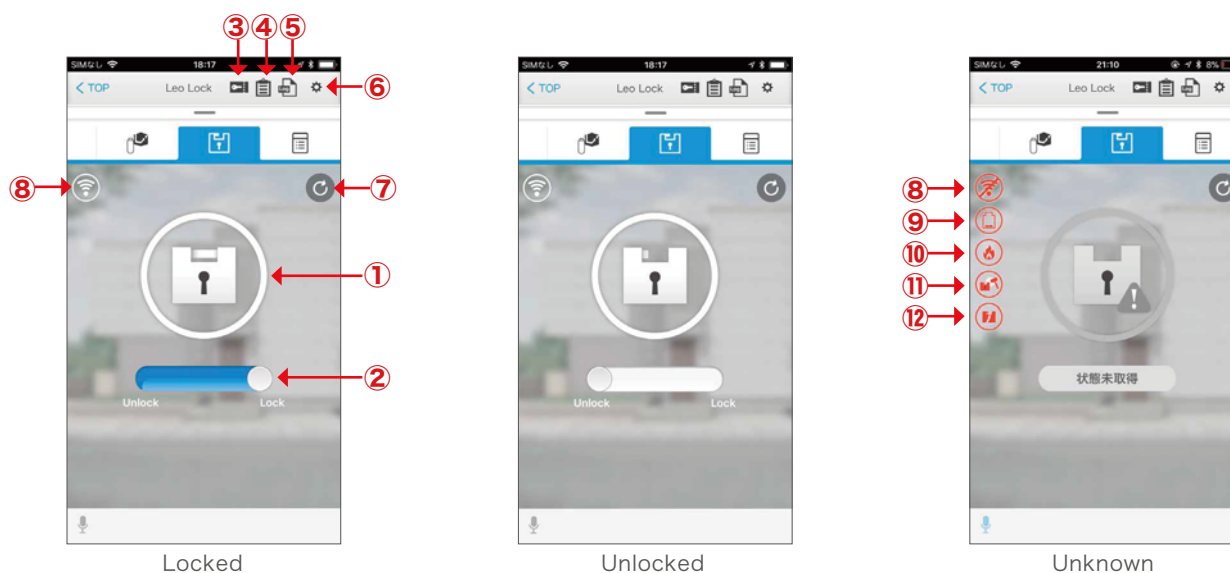
5-2 App functions

The following describes functions of the Leo Remocon App.

Start the Leo Remocon App, touch the menu button at the top left of the screen, and select "Remote control" to display the remote control screen. Move tabs at the top of the remote control screen and touch the tab with a lock icon to display the Leo Lock screen.



5-2 (1) Leo Lock screen



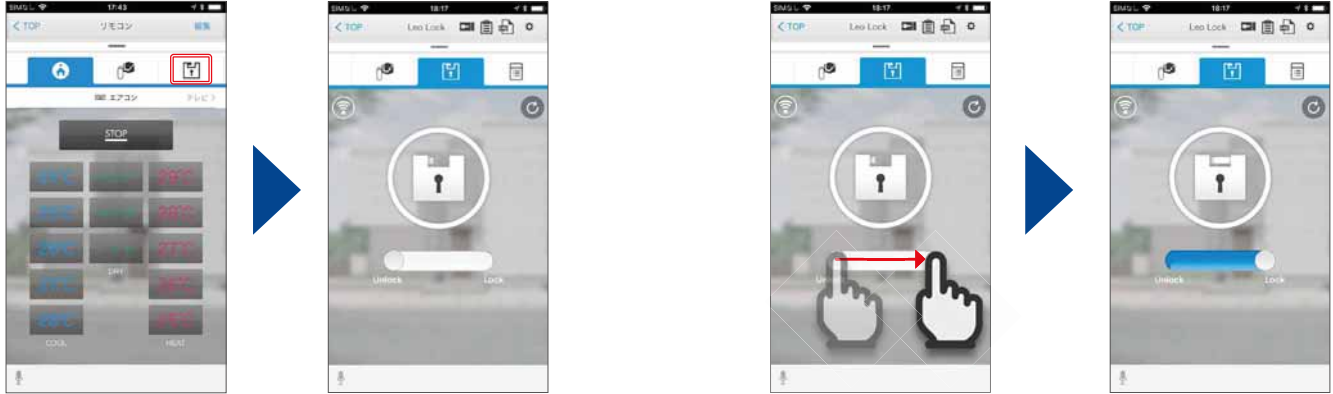
Function name	Function descriptions
(i) Leo Lock status display	This displays if Leo Lock is locked or unlocked.
(ii) Lock slider	You can lock Leo Lock by moving the handle to the right.*You cannot unlock from this app.
(iii) PIN issue button	You can Issue a PIN that can be used with Leo Lock.
(iv) Registered key list display button	You can display a list of information on currently registered keys. You can also delete spare keys from this screen.
(v) Operation history display button	You can display operation history list, such as locking and unlocking Leo Lock and changing settings.
(vi) Setting button	You can display the Leo Lock setting screen. You can display the device information and upgrade Leo Lock firmware.
(vii) Update button	You can obtain the latest status of Leo Lock and display it on the screen.
(viii) Communication status	This indicates the status of communications between Leo Lock and Leo Remocon. The icon is displayed in red when communications are unstable.
(ix) Battery low alert	This icon is displayed when batteries in the Leo Lock unit are low.
(x) Fire alert	This icon is displayed when an abnormal temperature in the Leo Lock unit is detected.
(xi) Anomaly detection alert	This icon is displayed when the Leo Lock unit is forcibly unlocked.
(xii) Leo Lock unit error alert	This icon is displayed when the Leo Lock unit has developed a fault.

5-2 (2) Locking from Leo Remocon App

You can lock Leo Lock using the Leo Remocon App*. You cannot unlock in this way.

[Procedure]

1. Start the Leo Remocon App and open the Leo Lock screen.
2. Move the handle in the lock slider under the lock icon to the direction of "Lock" to lock.

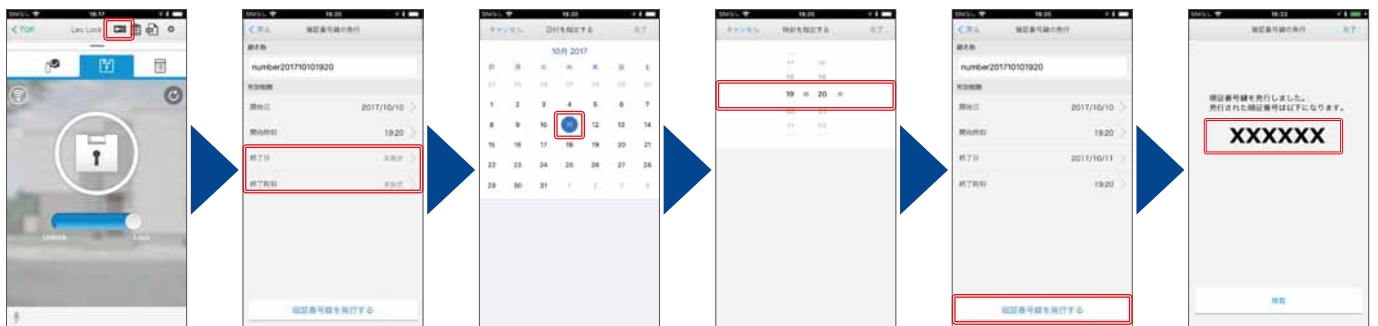


5-2 (3) Issuing a PIN

You can issue a PIN that expires from the Leo Remocon App.

[Procedure]

1. Start Leo Remocon App, open the Leo Lock screen, and touch the PIN issue button.
 2. Enter the start date and time and end date and time, and touch [Issue PIN].
- * Specify the end date and time within 24 hours of the start date and time.



When you have finished, test if Leo Lock can be locked and unlocked with the issued PIN.

You can touch the [Share] button on the screen where the PIN is displayed to send the PIN to someone you want to notify of the PIN via e-mail or SNS. Follow the instructions displayed by the OS to set it up. You can also share later. (See 5-2 (4) "Managing spare keys from Leo Remocon App" on p. 17)



5-2 (4) Managing spare keys from Leo Remocon App

You can manage spare keys registered with Leo Lock from the Leo Remocon App.

You can edit spare key names, delete spare keys individually, and edit the expiry of PINs.

[Procedure]

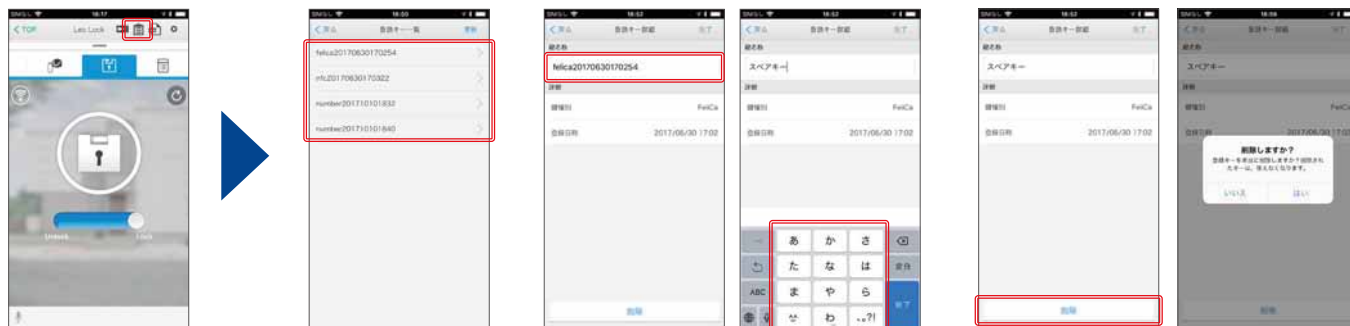
1. Start the Leo Remocon App, open the Leo Lock screen, and touch the registered key list display button.
2. Check the Registered key list screen.

[Editing a key name]

You can edit the spare key name by touching the name entry field.

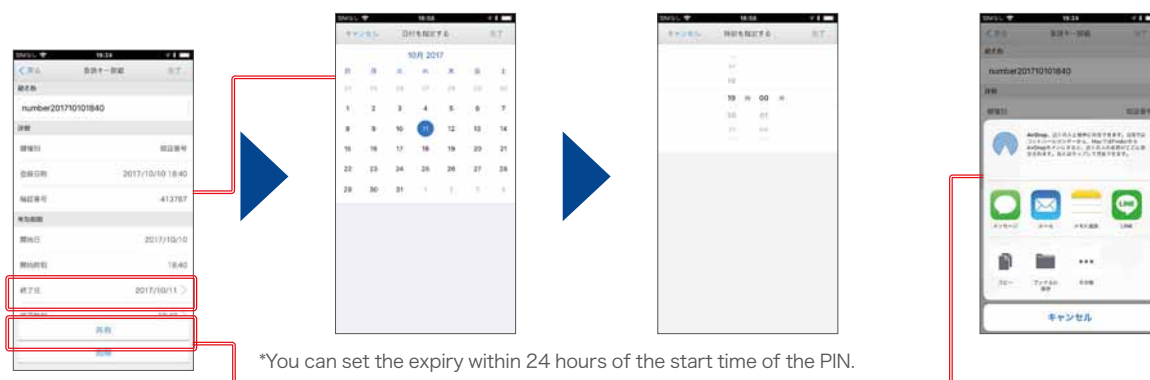
[Deleting a spare key]

You can delete the spare key by touching the [Delete] button.



[Editing a PIN]

You can edit the expiry of the PIN and share the PIN with someone else in the PIN edit screen. (See 5-2 (3) "Issuing a PIN" on p. 16 for information on sharing.)



5-2 (5) Changing Leo Lock unit settings from Leo Remocon App

You can change Leo Lock unit settings from the app as described in 3-3 "Changing Leo Lock unit settings" on p. 10.

[Procedure]

1. Start Leo Remocon App, open the Leo Lock screen, and touch the setting button.
2. Touch [Device setting] to open the Device setting screen and update the Leo Lock unit settings.



5-2 (6) Checking Leo Lock unit operation history

You can check Leo Lock unit operation history (log) from the Leo Remocon App.
The time and detail of operation are displayed in the history.

[Logged items]

- Locking and unlocking Leo Lock
- Alert from Leo Lock
- Leo Remocon connection information
- Registering and deleting keys
- Changes to Leo Lock unit settings

[Procedure]

1. Start the Leo Remocon App, open the Leo Lock screen, and touch the operation history button.

The Operation log screen displays 100 items. If you want to display items on previous pages, scroll down the screen and touch the [Next] button. The history can be displayed for up to 10 days.



Logged items	Logging timing	Description
Locking and unlocking	When Leo Lock is locked or unlocked.	When Leo Lock is locked or unlocked with which key.
Registering and deleting keys	When a key is registered with Leo Lock.	When and which key is registered to or deleted from Leo Lock.
Alert	When Leo Lock issued an alert.	When Leo Lock issued the alert such as battery low and other alerts.
Changing settings	When the change is made to Leo Lock unit settings.	When Leo Lock settings is changed.
Connection information	When a change occurred in the connection with Leo Remocon.	When a change occurred in the connection with Leo Remocon.

5-2 (7) How to upgrade Leo Lock unit firmware

You can upgrade the firmware of the Leo Lock unit using the Leo Remocon App.
You can upgrade the firmware only from the Leo Remocon App.

*App operations become temporarily unavailable while upgrading the firmware.

[Procedure]

1. Touch [Other settings] in the menu.
2. Touch [Firmware upgrade].
3. Touch [Yes] when a dialog box to prompt the upgrade is displayed.

- * Make sure that the remaining power in the batteries is sufficient when upgrading the firmware.
Never remove batteries in the Leo Lock unit and never unplug the power supply to the Leo Remocon unit while upgrading the firmware.
The upgrade does not occur if your firmware is already the latest.
- * Locking and unlocking on the unit may not be possible during the firmware upgrade. Wait for about 1 minute and try locking or unlocking again.



Appendix

Voice message list

Leo Lock plays a voice message in the following cases.

No.	Voice message	Case
1	There is a fault. Please contact a manager.	You have tried to lock or unlock when the unit has developed a fault.
2	Batteries are low. Please replace them.	You have tried to lock or unlock while the batteries are low.
3	Fire in the room!	The temperature of the unit inside the room has reached 55°C .
4	Anomaly detected!	You have attempted to forcibly unlock or destroy Leo Lock.
5	This PIN is for the temporary use. You need to register the primary key. Touch the card reader with the authorized card.	You have used a registration PIN.
6	Attention please, this PIN will expire soon. You need to register the primary key. Touch the card reader with the authorized card.	You have used a registration PIN that will expire within 3 days.
7	You cannot operate Leo Lock because the primary key has not been registered.	You have used an expired registration PIN.
8	Touch the card reader with the card you want to register.	You have held over the additional key while registering an additional key.
9	This is not a valid primary key.	You have used an incorrect primary key while registering a card.
10	Registration is complete.	You have completed registration of an additional key.
11	You cannot register this card.	You have tried to register a card that cannot be used.
12	Failed to register.	You have failed to register an additional card.
13	All registered keys and setting information are deleted.	You have cleared information on all registered cards.
14	All registered keys and setting information are deleted	You have completed a reset of the settings.
15	Pairing is complete.	You have completed pairing devices.
16	Unpairing is complete.	You have completed unpairing the devices.
17	Touch the card reader with the primary key card.	You are trying to change settings.
18	You cannot register any more card.	You have already registered 10 keys including the primary key.

*The voice message is in Japanese.

Pairing Leo Lock and Leo Remocon

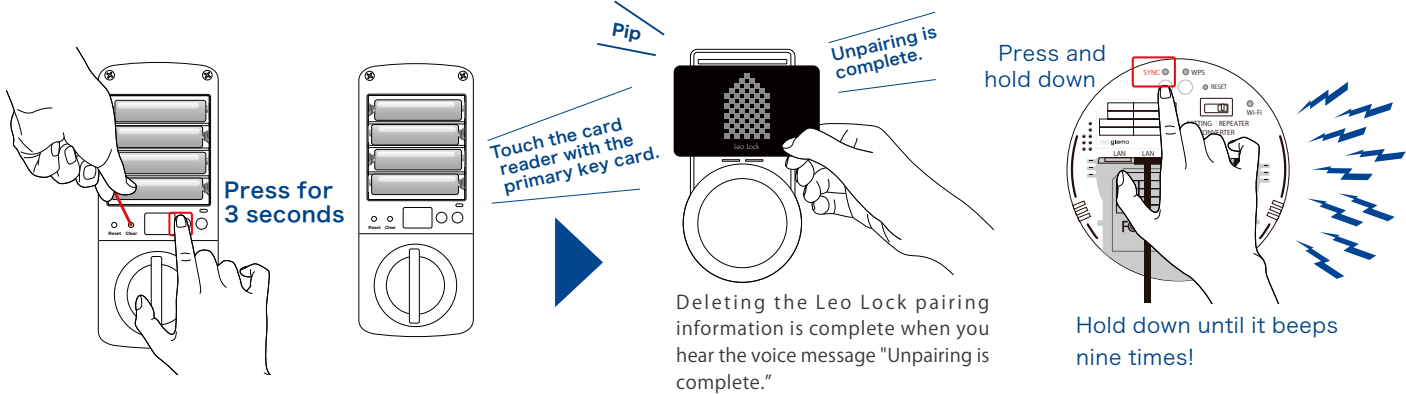
The following describes how to pair Leo Lock and Leo Remocon.

This operation is required when you have replaced Leo Lock or Leo Remocon device because of a fault or other reasons. Normally this is not required because they are already paired by the time you move in.

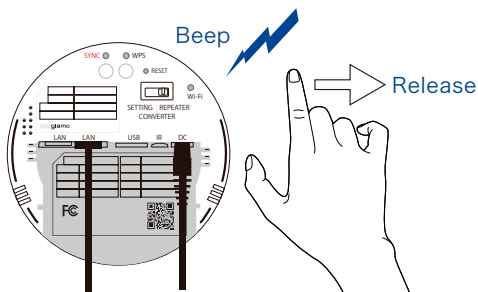
Unpairing Leo Lock and Leo Remocon

[Procedure]

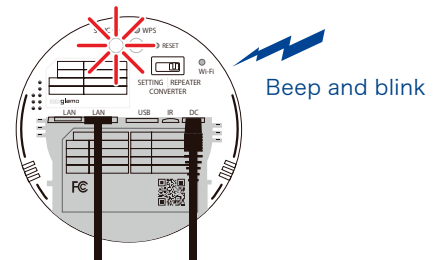
1. Press and hold down the [Clear] button and [Pair] button on the Leo Lock unit together for 3 seconds.
2. When you hear "Touch the card reader with the primary key card," touch the card reader with the primary key card.
3. Press and hold down the [SYNC] button on the back of the Leo Remocon unit until it beeps nine times.



4. Release the button and confirm that it beeps again.



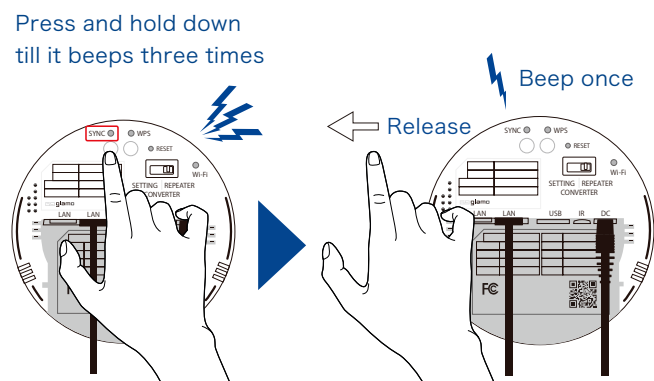
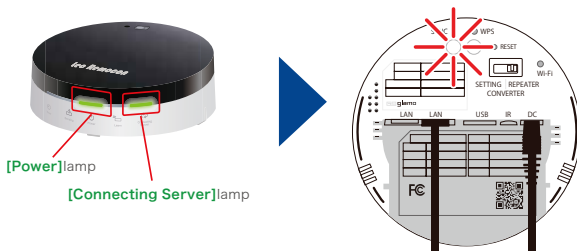
5. Deleting the Leo Remocon pairing information is complete when it beeps again after a few seconds and the [SYNC] lamp blinks.



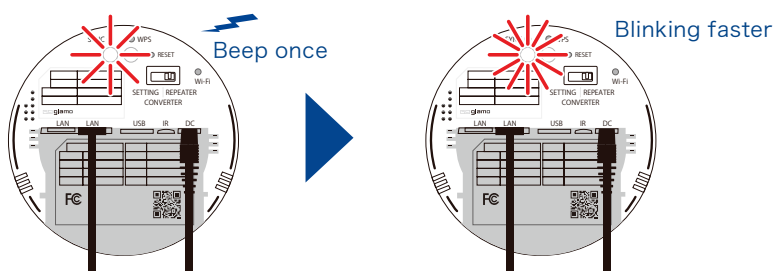
Pairing Leo Lock and Leo Remocon

[Procedure]

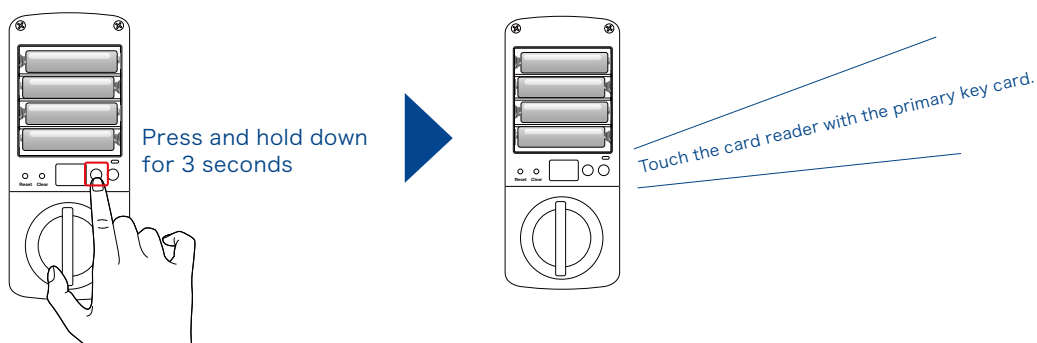
1. Check that the [Power] lamp and [Connecting Server] lamp on the front of the Leo Remocon unit are lit and the [SYNC] lamp on the back of the Leo Remocon unit is blinking.
2. Press and hold down the [SYNC] button on the bottom of the Leo Remocon unit until it beeps three times. Release the button and confirm that it beeps once.



3. The unit beeps once more after a few seconds. Confirm that the [SYNC] lamp is blinking faster than it did in Step 1.

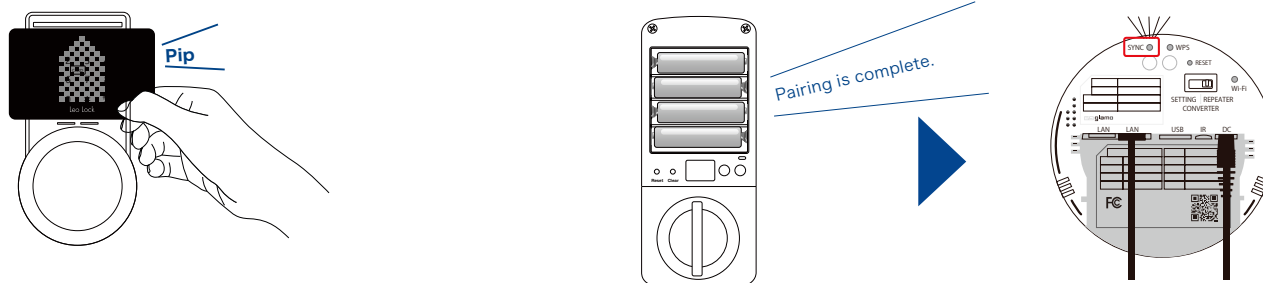


4. Press and hold down the [Pair] button on the Leo Lock unit for 3 seconds.



5. When you hear "Touch the card reader with the primary key card," touch the card reader with the primary key card.

6. Pairing is complete when you hear "Pairing is complete." from Leo Lock and the [SYNC] lamp on the back of Leo Remocon is lit without blinking.



If you cannot pair by following the above procedure, it is possible that the previous pairing information has not been deleted.

Repeat from Step 1 of "Unpairing Leo Lock and Leo Remocon" on p. 20.

Cautions for using Leo Lock

- Take care not to damage the cards.
- The Leo Lock unit may develop a fault if handled violently. Handle the unit carefully.
- You cannot use Leo Lock when batteries in the unit have completely run out.
Check 4-3 "What to do when batteries have run out" on p. 12 to see what to do.
- You cannot lock or unlock Leo Lock if the battery of your smartphone has completely run out even if the phone is registered as a spare key. Keep your eye on the battery level if you are using the smartphone as your spare key.

FAQ

The following are frequently asked questions.

[Functions]

What can I use as the Leo Lock key apart from the distributed primary key card and spare key cards?

You can use an Android device with NFC-HCE or FeliCa support, iPhone with FeliCa support, FeliCa card that you use to travel, and PIN that expires as the keys.

How many spare keys can I register?

You can register up to nine spare keys. (This does not include the primary key.)

Can I register more than one PIN?

You can register more than one as long as you do not exceed the maximum number of spare keys (nine). However, PINs are set with expiries so make sure you use them within this period.

I cannot register my iPhone as a spare key.

In order to register an iPhone as a spare key, you need to register FeliCa card to your iPhone's Apple Pay in advance.

How long can I use a PIN issued from the Leo Remocon App?

PINs are valid for 24 hours after the issue. Display the Registered key list in the Leo Remocon App to see the expiry for the PIN.

Can I unlock Leo Lock while I am away using the Leo Remocon App?

You cannot unlock with the app. Only locking is possible.

Can I control the volume of the beep?

You can specify in eight volume levels for the beep. See "Changes to Leo Lock unit settings" on p. 10 for how to specify it.

Is there any function to prevent misuse?

The product is equipped with the mischief prevention function. This function stops authentication for 2 minutes if the card reader is touched with an unregistered or deleted card for five consecutive times.

What is operation history?

You can check the Leo Lock unit operation log from the Leo Remocon App. The log information includes "locking and unlocking," "registering and deleting keys," "alert from Leo Lock," "changing unit settings," and "connection with Leo Remocon."

[Operations]

If I use my smartphone as a spare key, can I lock and unlock even when the battery in the phone is flat?

You cannot lock or unlock when the battery in the smartphone has run out. Keep your eye on the battery level.

Is the door automatically locked when I go out?

The door will not be automatically locked. Be sure to lock it using the registered key.

Can I delete a specific key in the registered spare keys?

You can delete a specific spare key using Leo Remocon App. See 5-2 (4) "Managing spare keys from Leo Remocon App" on p. 17 for how to delete it.

I have forgotten the registered PIN. Can I check it?

You can check issued PINs from Leo Remocon App. See 5-2 (4) "Managing spare keys from Leo Remocon App" on p. 17 and check the PIN from the Registered key list.

How can I lock and unlock using the FeliCa function on my iPhone?

Register FeliCa card to your iPhone's Apple Pay, and then touch the card reader with the iPhone with your finger on the [Home] button (when Touch ID is enabled).

[Troubleshooting]

[Others]

I have lost the primary key. What can I do?

Contact Leo Palace 21 Service Center and follow the instruction.

I cannot unlock with the spare key. Is this a fault in the Leo Lock unit?

Contact Leo Palace 21 Service Center and follow the instructions.

(If you have access to the Leo Remocon App, you can unlock by issuing a PIN and use the number.)

I can no longer check the Leo Lock status from the app. I cannot operate either.

First, check whether the [SYNC] lamp on the back of the Leo Remocon unit is lit. If not, check whether the [Power] lamp is lit and if batteries in the Leo Lock unit are low.

The Leo Lock unit is not responding (the touch panel is not responding, the lock knob does not move).

It is likely that batteries in the Leo Lock unit have run out. As an emergency measure, enable operations using a 9 V battery, and then replace the batteries in the unit immediately.

The Leo Lock unit is not responding even after replacing batteries.

The Leo Lock unit may have developed a fault. Contact Leo Palace 21 Service Center and follow the instructions.

A red "!" icon is displayed on the display panel on the outside unit after operating the Leo Lock unit.

The Leo Lock unit may have developed a fault. Contact the Leo Palace 21 Service Center and follow the instruction.

*Notes on replacing the unit.

When a Leo Lock unit develops a fault, it will partly be replaced with another type of key, and the unit is replaced on a later day.

Attendance of the resident is required for this work.

Can I lock remotely if I realize I forgot to lock the door while I am away?

You can lock remotely if you have access to the Leo Remocon App.

See 5-2 (2) "Locking from Leo Remocon App" on p. 16 for how to lock it.

Can a third party issue a PIN by operating the unit?

A PIN cannot be issued from the unit.

PINs can be issued only from the Leo Remocon App set up by the resident.

What happens if I uninstall the Leo Remocon App?

Key information on the Leo Lock unit is not lost even if you have uninstalled the Leo Remocon App so that you can still lock and unlock the unit. However, it is recommended to reinstall the app because there are functions that can only be carried out by the app.

What happens if I upgrade my smartphone to another model after registering it as a spare key?

FeliCa IDm (card ID number) changes if you upgrade the smartphone. Register your new phone again as a spare key.

Can my smartphone be registered as a spare key?

You can register your smartphone as a spare key if it supports FeliCa. Check your carrier's website.

The registration PIN has expired before registering the primary key. What can I do?

Contact the Leo Palace 21 Service Center and follow the instruction.

Contact the Leo Palace Service Center at 0120-590-080 if you have any queries on operations, and press [*] → [2]. (Opening hours: 10:00 a.m.- 7:00 p.m.)

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