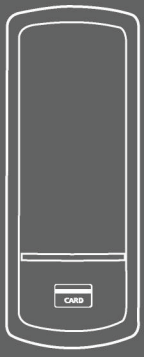
Home Systems
EZON
User Guide

Intelligent Digital Doorlock

The safety section of this manual contains important information to ensure the user's safety and prevent potential damage to property. Please read this section carefully and use the product accordingly.

EZON
SHS-1320



Product Features

The door can be opened with a RF card.

The door can be opened with a transit RF card. Up to 20 cards may be registered.

The door can also be opened with a password.

Once the user's password is registered, the door can be opened without a key by entering the registered password.

The door does not have to be locked manually.

Using the automatic locking function, the door is automatically locked when it closes, eliminating the need to lock it manually.

Double locking function adds security.

The double locking function adds security by preventing the door from being opened from outside at night or at times when extra security is needed.

Pranks played by children and juveniles can be prevented.

When an unregistered card is used, or when an invalid password is entered more than 3 time consecutively, an alarm sound is generated and power to the lock is automatically cut off for one minute.

Fire-monitoring function helps occupants escape in case of fire.

When the inside temperate rises to a certain level due to fire, an alarm is automatically generated and the door is opened.

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Safety Cautions

This section contains important information to ensure the user's safety and prevent potential damage to property. Please read this section carefully and use the product accordingly.

Warning, Caution and Note Explained:

Warning
Information given under this heading is information the user must be aware of to prevent physical harm.

Caution
Information given under this heading is information the user must be aware of to prevent service problems or system damage.

Note
Information given under this heading provides additional information relating to the text in this manual.

Description of Symbols

General warning or caution

Prohibited activity

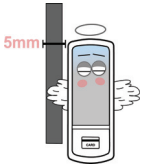
Recommended activity

Cautions during Installation

The user shall not install or repair the product without authorization.. The manufacturer does not assume the responsibility for damage to the product resulting from attempts to the user to install or repair it without authorization.

Do not install the product in the place where the gap between the door and the frame is 5mm or more.

If the gap is too wide, the product may not function properly.



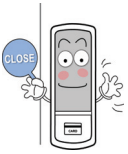
Cautions during Operation

Make sure that no unauthorized person has the access to the password. To minimize the risk of burglary, it is recommended that you periodically change the password.

Do not operate the product with wet hands, and keep liquids such as water or drinks away from the product, or the product may malfunction or be damaged.

Do not use the excessive force or sharp objects to push the door lock buttons, as this can damage the product.

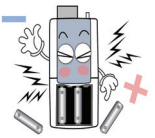
Make sure that the door is completely closed when going outside. The manufacturer does assume the responsibility for any harm caused by engagement of the lock on an improperly closed door.



Cautions during Repair or Maintenance

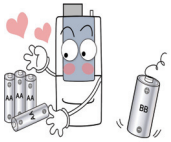
Be sure to correctly match the poles (+/–) when installing the batteries.

Install the batteries with the correct poles (+/–). Improperly installed batteries can cause rupture or battery fluid leakage.



Replace all batteries immediately after they run out of power, and never mix new batteries with used ones.

This can cause reduction of product life or a malfunction in the product.

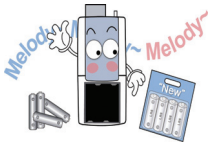


Do not use water, benzene or alcohol when cleaning the product, as these fluids can cause product malfunction.

Use a soft and dry cloth instead.

Replace the batteries within 1 week after the battery replacement alarm sounds.

The product can stop operating if the batteries are not replaced in time.

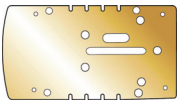


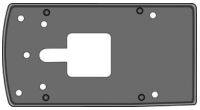
Notes before Operation

Product Components

Outdoor Unit

Indoor Unit


Support Panel


Indoor Rubber Pad

'AA' Batteries (LR6)

Fastening Panel and Outdoor Unit
Fastening Bolts TH+ M5X33 (2EA)

Strike and Fastening Panel Fastening Bolts
BH+ 4.2X20 (8EA)

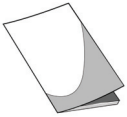
Strike

RF card

Indoor Unit Fastening Bolts
OH+ M4X32 (2EA)

Indoor Unit Fastening Bolts
PH+ M4X33 (2EA)

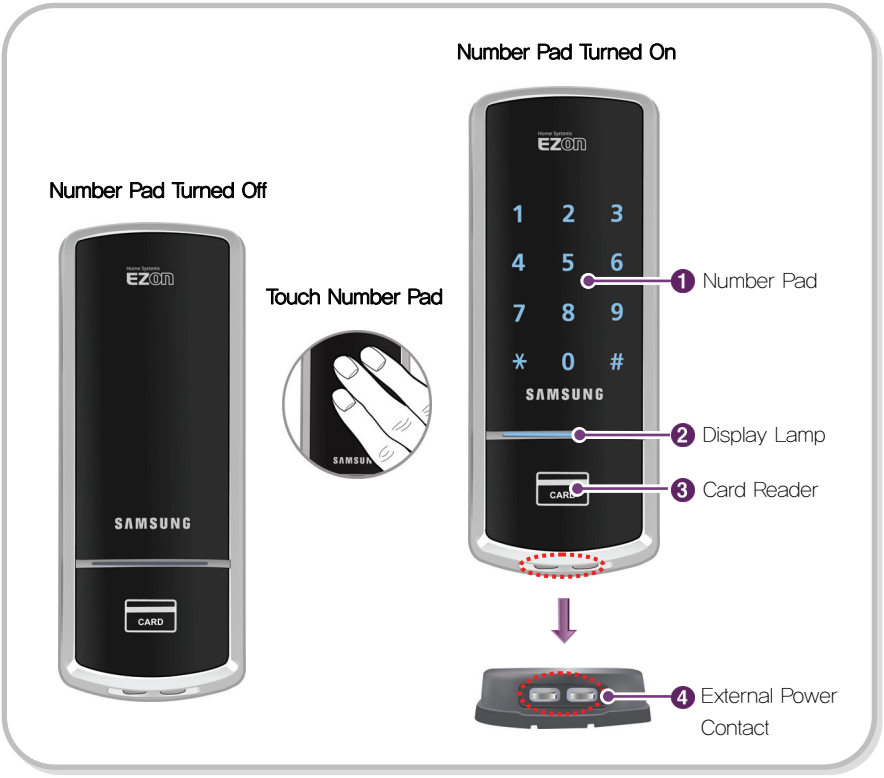
Outbody Fastening
(Rotating Prevention) Bolt
LENCH BOLT M4.0×L4.8


User Guide

Note

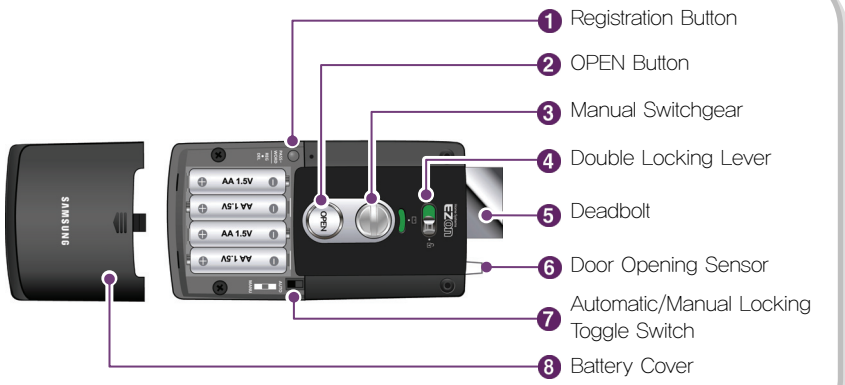
The product components used may vary depending on the installation environment.

Outdoor Unit Parts



No.	Name	Description
1	Number Pad	This is used to enter the numbers when registering, changing or deleting the password. Once registered, users can open the door by entering the registered password.
2	Display Lamp	This lamp displays how the door lock operates, including reading a card.
3	Card Reader	The Card Reader is used to recognize a card before opening the door. Touch the number pad to operate the Card Reader.
4	External Power Contact	Power can be supplied from the emergency battery after the main batteries have been completely discharged (9V battery).

Indoor Unit Parts



No.	Name	Description
1	Registration Button	The Registration Button is used to register or change the password and RF card.
2	OPEN Button	This is one touch button used to open the locked door. (It is also used to lock the door from indoor in manual locking mode)
3	Manual Switchgear	The Manual Switchgear is used to open or lock the door when the batteries are completely discharged.
4	Double Locking Lever	This is a lever to lock the door not to be opened with a password and RF card from indoor or outdoor.
5	Deadbolt	This makes the door hooked into a doorframe and locked.
6	Door Opening ensor	This sensor detects opening and closing of the door in Automatic Locking mode.
7	Automatic/Manual Locking Toggle Switch	This switch is used to switch between Automatic Locking and Manual Locking. If it is set for Automatic Locking, the door is automatically locked when closed. If it is set for Manual Locking, the door is not automatically locked when closed.
8	Battery Cover	The Battery Cover protects the batteries and the registration button.

Replacing the Batteries

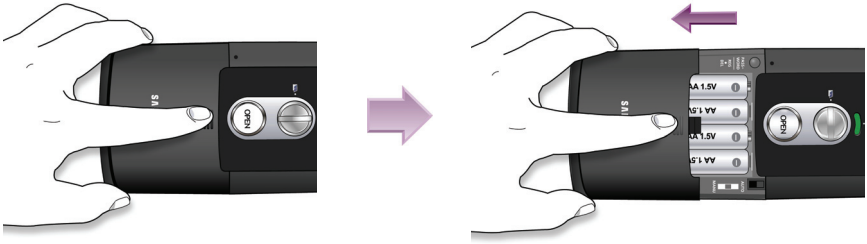
1. Battery Replacement Alarm Generation

If the melody sounds when opening the door using the password or a card, it is time to replace the batteries.

Battery Life

Although actual battery life differs depending on the manufacturer, date of production and operation environment, four 1.5V AA alkaline batteries can last for seven months, based on an average of 10 uses per day.

2. Opening the Indoor Unit Cover



Press lightly on the battery cover of the indoor unit and pull it down in the direction of the arrow mark.

3. Replacing the Battery

4 AA batteries

Replace all 4 batteries within a week of the first alarm sound.

– The unit will stop operating if the batteries are not replaced.

Caution

– If the poles of the batteries are not placed properly, the door lock will not operate normally.
– Liquid leaks from batteries can damage the product. Check the batteries regularly (once every 6 months).
– After the battery replacement melody has sounded, password/card information cannot be registered, changed, deleted, initialized or configured until the batteries are replaced.

Using the Emergency Battery

1. When Lock Fails to Operate Due to Discharged AA Batteries

If the batteries are not replaced after their replacement time comes, they will be completely discharged and the door lock will not operate.

Recognition of a Card

Or

Password Entry

The door is not opened.

2. Using 9V Battery

Buy an emergency battery (9V) at the nearest store.

Caution

As the alkaline batteries offer longer life, they are recommended over the manganese batteries or rechargeable ones.

3. Opening the Door Using the Emergency Battery

Place the RF card on the card reader, or enter the password, while the 9V battery is connected to the external power contact of the outdoor unit.

Basic Functions

This section describes the ways to initialize the information registered in the door lock, to register the password and card data, and to open or close the door.

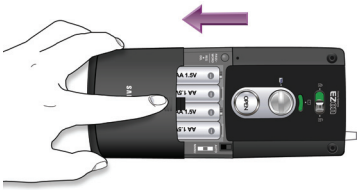
Initialization (Password and RF Card)

All registered data (password and RF card) are deleted. After initialization, the password is set to '12345', and the registered card are erased.

Note

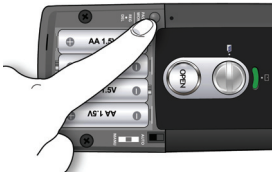
Initialization is available while the door is open.

1. Opening the Cover (from inside)



Lightly press the battery cover and pull it down in the direction of the arrow mark.

2. Pressing the [Registration] Button (from inside)



Press and hold the **[Registration] button** for 10 seconds or longer.

– Successful: "Toot—〉Toot, toot—〉Toot, toot, toot, toot' sounds are generated.

3. Entering the Password (from outside)

Press the registered password, or '4560852580', and then press the **[*] button.**

– Successful: "Too~~~t" sound is generated.

– Failed: "Toot~" sound is generated.

Password Registration and Change

The password can be 5~12 digit number. Only one password can be registered.
Please register a new password after initialization.

Note

Registering or changing the password is available while the door is open.

1. Pressing the [Registration] Button (from inside)

Toot

Open the battery cover of the indoor unit and briefly press the **[Registration] button.**

2. Entering the Current Password (from outside)

Too~~~t, toot,

Enter the current password ('12345' after initialization) and press the **[*] button.**

3. Entering a New Password (from outside)

Toot,

Enter the new password (5 to 12 digits) and press the **[*] button.**

– To prevent burglary, it is recommended to use a password of 6 digits or longer. (Only numbers between 0 and 9 can be used.)

4. Reentering a New Password (from outside)

Too~~~~t

Enter the new password again to check if the new password is accurately configured, and then press the [*] button.

5. Checking New Password Operation (from outside)

Too~~~~t

To make ensure the password has been properly registered, check the new password and close the door.

– Please refer to "Opening the Door from Outside with a Password" on page 17.

Caution

– Manage your password with care so that unauthorized people will not have access to it. Regularly changing your password can reduce the risk of it being leaked.
– A registered password cannot be deleted. Change the password to a new one or initialize it to delete all registered data (password and RF card) and then reregister them.
– Check if the new password works properly while the door is open. When the door opening sensor is pressed and the deadbolt comes out, refer to "Opening the Door from Outside with a Password".

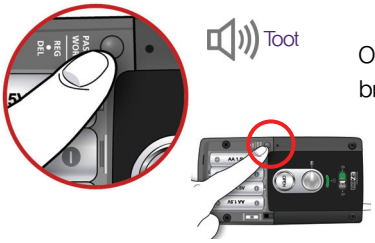
RF Card Registration

A dedicated card can be registered. Up to 20 cards can be registered. (Support for ISO14443A Type)

Note

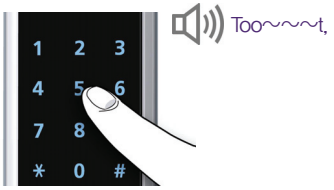
Registering or changing the password is available while the door is open.

1. Pressing the [Registration] button (from inside)



Open the battery cover of the indoor unit and briefly press the **[Registration] button.**

2. Entering the Password (from outside)



Enter the password and press the **[*] button.**

3. Placing the RF Card in Contact (from outside)

Place the RF card to be registered on the card reader on the outdoor unit. You will know the RF card has been registered when a long "too~~~t" sounds.

4. Terminating RF Card Registration

Press the **[Registration] button** on the indoor unit to terminate the registration.

5. Confirming RF Card Registration (from outside)

Touch the **[Number Pad]**, and then lightly press the registered card to the card reader.

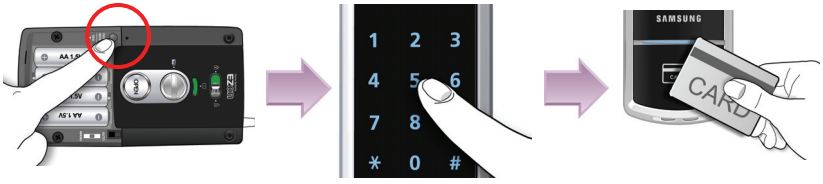
– Please refer to "Opening the Door from Outside with a RF card " on page 18.

Registering Additional RF Cards

Continue Registration

To register multiple RF cards, lightly press another RF card to the card reader within 10 seconds of registering the previous card. If another card is not exposed to the card reader within 10 seconds of registering the previous card, the registration process is automatically terminated.

Registration at another Time



To register an additional RF card after the registration process is terminated, repeat the registration process with the card.

Deleting the Card

Caution

Registered cards cannot be individually deleted. All card information is deleted when the card delete function is used. Previously registered cards cannot be used to open the locked door after they are deleted.

1. Pressing the [Registration] Button (from inside)

"Toot —〉 Toot, toot"

Open the battery cover of the indoor unit and press and hold the **[Registration] button** for 5 seconds.

2. Entering the Password (from outside)

Successful: "Too~~~t" sounds are generated.
Failed: "Toot~" sound is generated.

Enter the password and press the **[*] button**.

Note

- Register new RF cards after deleting the card data.
- To open the locked door from outside after deleting card data, use the registered password.
- Deleting the card is available while the door is open.

Opening the Door from Outside with a Password

Note

The double security mode is set when the product is purchased. Please refer to "Double Security Mode Setting" on page 20 to change the double security mode to the common security mode.

1. Touching the [Number Pad]

Touch the **[Number Pad].**

2. Entering the Password

Double Security

When any two number buttons are lighted, press the buttons one by one.

Successful: "Too~~~t"
Failed: "Toot~"

Enter the password and press the **[*] button** when all the numbers on the pad are lighted.

Common Security

Successful: "Too~~~t"
Failed: "Toot~"

Enter the password and press the **[*] button** when all the numbers on the pad are lighted.

Note

- The password must be entered while the number pad is illuminated. If the light is turned off, touch the **[Number Pad]** and reenter the password.
- If the wrong password is entered, press the **[#] button** to cancel the entry and start from the beginning.
- If the wrong password is entered 3 times consecutively, a "too~t too~t too~t" alarm will sound for 10 seconds and the door lock will stop operating for 1 minute. While the door is in this inactive mode, a single "toot" sound is generated every 10 seconds and seven consecutive "toots" will sound after 1 minute. Following this, the lock is released from inactive mode.

Opening the Door from Outside with a RF Card

The door can be opened from outside using a RF card. Touch the **[Number Pad] button** and place the registered card or key tag on the card reader.

Applying the RF Card

Touch the [Number Pad]

Place the card on the card reader.

The door will be opened after 1 second.

Note

- The card reader will operate properly when the RF card is placed within 30mm, 20mm and 10mm of the card reader, respectively.
- The recognition distance may differ depending on the card manufacturer.
- A "toot~" alarm sound is generated when an unregistered card is placed or the card is not recognized.

Opening/Locking the Door from Inside

Opening the Door Automatically

Press the **[OPEN] button** in the indoor unit to open the door when it is locked.

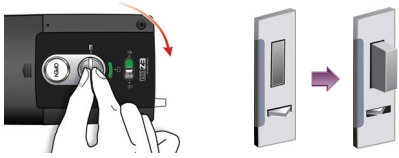
Locking the Door Automatically

Press the **[OPEN] button** to lock the door when it is closed in Manual Locking mode

Opening the Door Manually

Turn the manual switchgear counterclockwise() to make its green part appear, while the door is locked.

Locking the Door Manually

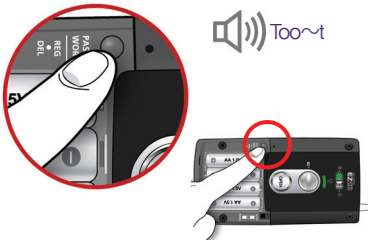


Turn the manual switchgear clockwise() to make its red part appear in Manual Locking mode, while the door is closed

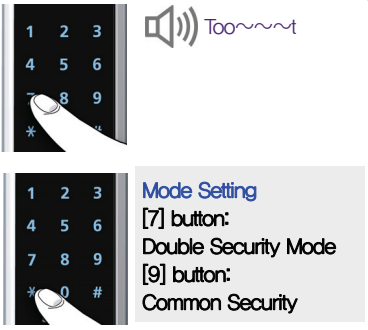
Additional Functions

Double Security Mode Setting

When you open the door using a password, you can set an authentication mode.



Briefly press the **[Registration] button** on the indoor unit.



Press the [7] or [9] buttons, and then press the **[*] button** to set an authentication mode.

Note

Double Security Mode

This can prevent the password from being exposed by pressing any two numbers for authentication before pressing the password.

Note

– Setting the Double Security Mode is available while the door is open.
– The double security mode is set when the product is purchased.

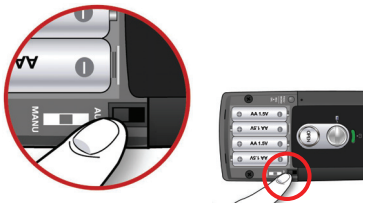
Automatic/Manual Locking Setting

Automatic locking mode allows for automatic locking of the door when it is closed.

Automatic Locking Setting

Set the **[Automatic/Manual Locking] toggle switch** of the indoor unit to the 'Automatic' position.

Manual Locking Setting



Set the **[Automatic/Manual Locking] toggle switch** of the indoor unit to the 'Manual' position.

Difference between Automatic and Manual

- Automatic Mode: The door is automatically locked 2 seconds after being closed. This mode is not activated when the batteries are completely discharged.
- Manual Mode: The door is not automatically locked after being closed. It is locked only when the **[OPEN] button** of the indoor unit is pressed or the **[Card Reader] button** of the outdoor unit is pressed, or when the number cover is pushed up and then pulled down.

Caution

For security reasons, ensure that the door is locked after locking the door in Manual Lock mode, since it is not automatically locked after being closed.

Note

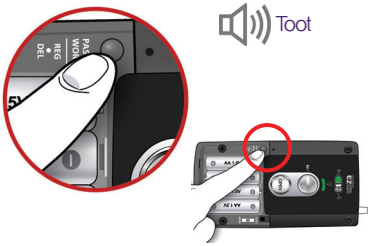
- The door lock is set for Automatic Locking mode if the deadbolt is automatically pushed out when the door opening sensor on the indoor unit is pressed by hand while the door is open.
- If the door remains open while the Automatic Locking mode is set, two alarm sounds of "toot~, toot~, toot" are generated every 15 seconds. (This alarm sound is not generated in Manual Locking mode.)
- The door is automatically locked again if the closed door is not opened within 7 seconds of being unlocked using the password or card.

Sound Setting and Releasing

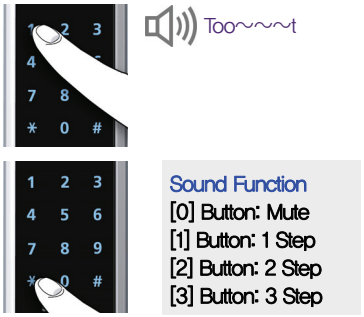
The sound that is generated when the number buttons are pressed, when the door is locked, or when the locked door is unlocked, can be set according to the user's preference.

Sound Function Setting

The product is set to generate all sounds at the factory. (Set in 2 steps)



Briefly press the **[Registration] button** on the indoor unit.



The sound function is set when the **[*] button** is pressed after the **[0] ~[3] button** is pressed.

Sound Function Operation

- **[0] Button**: All sounds except the alarm sound are deactivated.
- **[1]~[3] Button**: All sounds are activated and the sound gets louder as the step goes up.
- In registration mode, sound is generated regardless of the current setting. The setting is in effect when registration is completed.
- The sound function is set in two steps after initialization.

Alarm Sound/Emergency Sound

Alarm Sound (Prank Prevention Function)

This function generates an alarm sound and deactivates door lock operation when it is improperly handled from outside.

Card or Password Error

"Too~t too~t too~t" (for 10 seconds)

This alarm will sound if an attempt is made to open the door with an unregistered card, or if a wrong password is entered three times in a row. (The alarm sound is generated, and the door lock is deactivated for 1 minute. While the door is in this inactive mode, a single "toot" sound is generated every 10 seconds and seven consecutive "toots" will sound after 1 minute. Following this, the lock is released from inactive mode.)

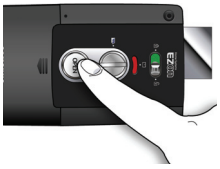
Number Pad Operation Error

"Too~t too~t too~t" (for 10 seconds)

This alarm will sound if the number cover opened and closed for three times without entering the password or placing the card. (The alarm sound is generated and the door lock is deactivated for 1 minute. While the door is in this inactive mode, a single "toot" sound is generated every 10 seconds and seven consecutive "toots" will sound after 1 minute. Following this, the lock is released from inactive mode.)

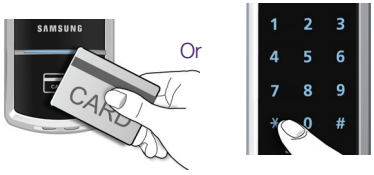
Releasing the Alarm

[Inside]



Press the **[OPEN] button** or the **[Registration] button** on the indoor unit, or take out batteries.

[Outside]



Expose the registered card to the card reader, or enter the password. (The alarm must be released within 10 seconds of its activation.)

Setting the Security Function

This function prevents intrusion from outside while the residents are out. Once set, it generates an alarm sound when the door lock is operated from inside.

Setting the Security

"Too~~~t, too~~~t"

Press and hold the **[#] button** on the outdoor unit for 3 seconds while the door is being locked.

"Too~~~~t"

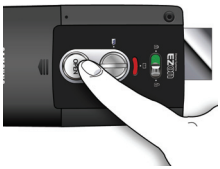
Enter the password and press the **[*] button** to set the security function.

Note

The security function is automatically released when the locked door is opened from outside by entering the registered password or exposing the card to the card reader.

Activating the Security

[Inside]



"Toot~, toot~, toot~" (for 5 minutes)

This alarm sounds if the **[OPEN] button** is pressed, or the manual switchgear is turned counterclockwise while the security function is being activated.

Releasing the Security

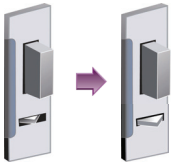
[Outside]

Or

Expose the registered card to the card reader, or enter the password, and then press the **[*] button**.

Intrusion Detection Function

This function generates the alarm sound when an attempt is made to forcefully open the door from the inside or the outside.
(This is a basic function of the lock, and cannot be separately set or released.)

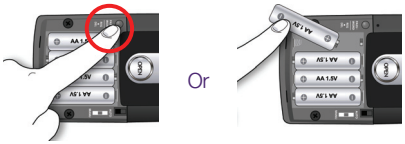


"Toot~, toot~, toot~"
(for 5 minutes)

If the door is forcefully opened while locked, the door opening sensor detects it and generates the alarm sound.

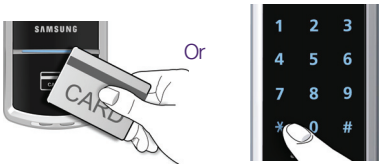
Releasing the Emergency Sound

[Inside]



Open the battery cover of the indoor unit and take out the batteries, or press the **[Registration] button.**

[Outside]



Expose the registered card to the card reader, or enter the password and then press the **[*] button.**

Fire Detection Function

This function generates the alarm sound when fire is detected so that the residence can quickly respond.
(The fire detection function is a basic function of the lock, and cannot be released by the user.)

"Toot~, toot~, toot~"
(for 15 seconds)

When fire occurs, the temperature sensor detects it and flashes the **[OPEN] button** while generating the alarm sound.
The door is automatically opened after the alarm sound has stopped.

Note

The fire detection function is activated when the temperature rises up to about 55℃. Actual temperature can differ depending on the installation environment.

Double Locking

The double locking function prevents opening of a locked door from outside.

Setting Double Locking

[Inside]

Push the double locking lever up until its red part(🔒) appears while the door is locked.

Activating Double Locking

[Inside]

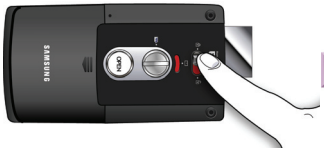
The door cannot be opened even if the **[OPEN] button** is pressed from inside while the double locking function is set. But, the door can be opened if the manual switchgear is turned counterclockwise (🔓)

[Outside]

When the **[Number Pad]** is touch, the door cannot be opened while the alarm sound is generated.

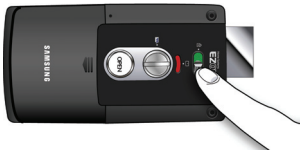
Releasing Double Locking

[Inside]



Make sure the double locking lever is placed so that its red part(🔒) can be seen.

[Outside]



Push the double locking lever so that its green part(🔓) can be seen.

Caution

Please be cautious since the door cannot be opened from outside when this function is set. Particularly be careful of children accidentally setting this function from inside. The alarm sound (too~t, too~t, too~t) is generated for 1 minute and the door cannot be locked even if the door is closed after this function is set when the door is opened. Try to close the door again after releasing the function.

Troubleshooting

Please refer to the following if the door lock does not operate properly. If the problem can still not be solved, contact the nearest service center.

Power Source

Problem	Solution	Remark
There is no power.	– Check to ensure the batteries are in good condition, with the poles (+/–) correctly placed. – Check to see if the batteries are discharged, or have been inserted improperly.	P 9~10

Password/RF Card

Problem	Solution	Remark
The password cannot be changed.	– This may be a case of delayed password change. The password must be changed while the number pad is illuminated. Furthermore, the new password must be entered within 10 seconds of entering the previous one. – Replace the batteries if they are discharged. – Repeat the procedure again, referring to "Password Registration and Change" in the user guide.	P 12~13
The RF card cannot be registered.	– When registering multiple cards continuously, the next card must be placed on the card reader within 10 seconds of the previous card.	P 14~15
The door cannot be opened even after entering the password followed by the **[*] button.**	– Check that the registered password has been correctly entered. – If number buttons are not illuminated while the password is being entered, then the entry will not be accepted. Reenter the password from the beginning when the number pad is illuminated after touching the **[Number Pad].** (The light on the number pad is automatically turned off if an entry is not initiated within 5 seconds.)	P 17
The door cannot be opened with the RF card.	– This may be a case of an unregistered card being used, or of the card not being recognized. Register the card and try to open it again. – The card must be properly placed on the card reader.	P 18

Problem	Solution	Remark
The door cannot be opened with the password or RF card	– The door cannot be opened from the outside using the password or card if the double locking function has been activated. A "too~~t, too~~t" sound is generated if the **[Number Pad]** is touched when the double locking function is activated. – The double locking function is being activated if the double locking lever is in the [Lock](🔒) direction)	P 26
The password or card registration data can be verified, but thedoor cannot be opened.	This could be a malfunction of the door lock. Please call the nearest service center.	–

Automatic Locking

Problem	Solution	Remark
The door does not lock automatically after being closed.	– Check to ensure that Automatic Locking mode has been set. If the operation mode is set to Manual Locking, touch the **[Number Pad]** to lock the door. – If the door does not automatically lock when in Automatic Locking mode, then the door lock is installed improperly. Contact the digital door lock distributor to have it reinstalled. – The automatic locking function will not work if the batteries are completely discharged. Check the batteries.	P 21

Alarm Sound

Problem	Solution	Remark
The "too~~t, too~~t" alarm sound is generated when the **[Number Pad]** is touched.	The alarm sound is generated if the **[Number Pad]** is touched while the double locking function is activated. Release the double locking function before using the door lock.	P 26
Melody occurs when the door lock operates.	It is notifying you that the batteries need to be replaced. Please change the batteries within 1 week.	P 9

Malfunction

Problem	Solution	Remark
There's no response when the **[Number Pad]** is touched.	– Press the hole on the right side of the external power contact on the outdoor unit with a pin. – If there's still no response after taking the measures above, please call the nearest service center.	–

Operating Method Summary

※Make sure if a door is open to initialize, register, change or delete registered data.

Function	Default	Setting or Releasing (Press the buttons in the given order.)
Initialization (Password and RF card all deleted.)	–	Press and hold the **[Registration]** ● **button** for 10 seconds → Enter the current password or '4560852580' → Press the ✱ **button** ※ The password is set to '12345' after initialization.
Password Registration/Change	Current Password or '12345'	**[Registration]** ● **button** → Current password entry + ✱ **button** → New password entry + ✱ **button** → New password reentry + ✱ **button**
RF card Registration	None	**[Registration]** ● **button** → Password entry + ✱ **button** → RF card recognition → ✱ **button**
RF card Delete	None	Press and hold the **[Registration]** ● **button** for 5 seconds → Password entry + ✱ **button**
Opening the Door from Inside	–	Automatic Mode: Press the **[Open]** (Open) **button** while the door is locked → The door opens. Manual Mode: Turn the manual switchgear counterclockwise(↑) → The door opens.
Closing the Door from Insider	–	Automatic Mode: Press the **[Open]** (Open) **button** while the door is opened → The door locks. Manual Mode: Turn the manual switchgear clockwise(↓) → The door locks.
Opening the Door from Outside	Double Security Mode	RF card: Touch the [Number Pad] → Expose the card to the reader within 5 seconds. Password: Touch the [Number Pad]. → Enter any two numbers. → Enter the password. → ✱ button
Closing the Door from Outside	–	Automatic Locking: Close the door. Manual Locking: Touch the [Number Pad].
Double Security Mode Setting	Double Security Mode	Press the **[Registration]** ● **button** → Press 7 **or** 9 **button** + ✱ **button**
Automatic Locking Setting	Automatic Locking	Place the [Automatic/Manual Locking] toggle switch in the 'Automatic' position.
Manual Locking Setting		Place the [Automatic/Manual Locking] toggle switch in the 'Manual' position.
Sound Setting/Releasing	2 Steps	Press the **[Registration]** ● **button** → Press 0, 1, 2, **or** 3 + ✱ **button.**

Security Function Setting	_	Press and hold the [#] button for 3 seconds while the door is locked. ➡ Password entry + [*] button
Security Function Release		Enter the password or place the card.
Emergency Sound Deactivation from Inside	_	Press the [Registration] ● button.
Emergency Sound Deactivation from Outside		Enter the password or place the card.
Double Locking Setting	_	Turn the double locking lever to the 🔒 direction
Double Locking Release	_	Turn the double locking lever to the 🔓 direction.

Product Specifications

Item	Specifications	
Voltage	4 AA Alkaline 1.5 Batteries (LR6) (6V)	
Emergency Power Source	9V Battery (6LF22) (Separately purchased)	
Operating Method	Electronic Control Method (Password entry or RF card reading)	
Weight	1.8Kg (including both indoor and outdoor units)	
Product Dimensions	Outdoor Unit	68.7 mm(W)×175.1 mm(H)×21.5 mm(D)
	Indoor Unit	180.7 mm(W)×91.5 mm(H)×48 mm(D)
	RF card	25.0 mm(W)×35.0 mm(H)×4.0 mm(D)

The content of this manual is subject to change without prior notice to the user in order to enhance performance of the product.

MIC	
Product Name (Model Name)	Wireless device using extremely low power radio (SHS-1320)
Certificate Number	SCT-SHS-1320
Trade Name of Certificate Grantee	Seoul Commtech
Country of manufacturing	Republic of Korea