

USER MANUAL

The design and function of the product may be changed without prior notice due to the company's circumstances.

Caution The product should be installed indoor only. Do not install outdoor and direct weather affect place. In case of installation outdoor and direct weather affect place, the manufacturer or supplier does not have any responsibility.

Functions are subject to change without notice. Refer to the manual provided on the official website.

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This product should be installed by a skilled installer only. To receive full coverage of the product warranty, Please do not install by yourself, For safety purposes.

REV.09

Smart Card Auto Recognition / Manual Recognition

1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by the [#] button once.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [1] button or [4] button.
4. Press the [Registration] button to complete the setting.



- Note**
- LED [1] : Card Auto Recognition / LED [4] : Card Manual Recognition.
 - Card Auto Recognition : Place the Smart Card on the card reader and the door will open.
 - Card Manual Recognition : Touch the number pad, place the Smart Card on the card reader and the door will open.

Deadbolt Auto Lock / Manual Lock

Caution An optional feature that lets you set the lock in automatic and manual lock mode

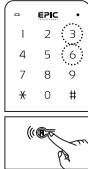
1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by, the [#] button once.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [2] button or [5] button.
4. Press the [Registration] button to complete the setting



- Note**
- LED [2] : Deadbolt Auto Lock / LED [5] : Deadbolt Manual Lock.
 - When deadbolt auto lock is set, the operation is executed automatically according to the state of the sensor.
 - When deadbolt manual lock is set, touch the number pad for 2 seconds to execute the lock action.

Sound Setting (Voice, Buzzer, Warning, Door Open Alarm)

1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by, the [#] button once.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [3] button or [6] button.
4. Press the [Registration] button to complete the setting.



- Note**
- LED [3] : Increase Volume / LED [6] : Decrease Volume
 - Controls all volume except [Alarm Notification, Door Opening Melody]
 - Volume can be set to 8 levels. (1 level : Silent ~ 8 level : 80dB)

TYPE	MODEL	1 2 3 4 5 6 7 8 9 * 0 #	CARD	Fingerprint	Key	Face ID
RIM	ES-S100Dr	■	■			
RIM	ES-F300Dr ES-F301D	■	■	■		
RIM	ES-F500D(H)r ES-F501D(H) ES-S510D(H)	■	■ (Not ES-S510D(H))	■		■ (ES-S510D(H))
GATE	ES-FF730Gr ES-FF731G ES-S740D	■	■ (Not ES-S740D)	■	■	■ (ES-S740D)
MORTISE	ES-F7000Kr	■	■	■	■	
MORTISE	ES-F9000Kr	■	■	■	■	
PUSH PULL	ES-P8800Kr	■	■	■	■	

Caution Please perform while the door is Open. The default Pin Number is [1, 2, 3, 4]. If you forgot the Pin number, you can not control the Registration Mode and Deletion Mode. The Pin Number that include Random Numbers are not allowed in Registration Mode and Deletion Mode. So, please remember the Correct Pin Number.

- Note**
- Only 1 Pin Number can be registered.
 - Only 1 Guest Pin Number can be registered. It will be deleted after 1 usage.
 - If you register a new Guest Pin Number, the old one will be deleted.
 - Up to 200 Cards can be registered.
 - Up to 100 Fingerprints can be registered.
 - Up to 10 Remote Controls can be registered.
 - Up to 30 Faces can be registered.
 - Even if, Additional registrations (Card, Fingerprint, Remote Control, Face) do not delete the authentication previously registered with the Door Lock.
 - You can not re-register a Card that has already been registered.
 - You can not re-register a Remote Control that has already been registered.
 - You can not re-register a Face that has already been registered.
 - You can re-register if the same Fingerprint that you want to register has already been registered.
 - When an error occurs during registration LED [2] will be blinking.
 - If the Remote Control receiver module is not connected, the number [5] button does not light up, and the Remote Control cannot be registered and deleted.

Door Open Alarm ON/OFF

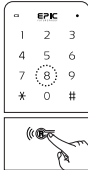
1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by, the [#] button once.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [7] button.
4. Press the [Registration] button to complete the setting.



- Note**
- The settings of Door Open Alarm ON and OFF are repeated through the toggle setting.
 - When the Door Open Alarm Mode On and Deadbolt Auto Lock, If Latch or Magnet sensor disconnected, the buzzer will be sounding 3 times every 7 seconds.

Voice Mode / Buzzer Mode Setting

1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by, the [#] button once.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [8] button.
4. Press the [Registration] button to complete the setting.



- Note**
- The settings of Voice Mode and Buzzer Mode are repeated through the toggle setting.
 - For models without Voice Mode, it is always set to Buzzer Mode.

Internal Forced Lock ON/OFF

..... Inside : Internal Forced Lock ON

1. With the door closed and the deadbolt sensor detected, press the [Open/Close] button for 3 seconds.



..... Outside : Internal Forced Lock OFF

1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by, the [#] button once.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [9] button.
4. Press the [#] button to complete the setting.



..... Inside : Internal Forced Lock OFF

1. Press the [Open/Close] button.
2. Open the door.



- Note**
- This function stops outside authentication.
 - This function can be set when the Latch or Magnet sensor reacts to door closing operation
 - The Internal Forced Lock setting can be released from the outside.

Registration Mode(User)

[R button] → [User Pin Number] → LED [#] →	 LED [1] Pin Number		[New Pin Number] → LED [#] → [Press the New Pin Number once again] → [R button]
	 LED [2] Card	(In-turn)	[Enter the Card to be registered on the card reader] → [R button]
		(one-by-one)	[Placement Number] → LED [#] → [Enter the Card to be registered on the card reader] → [R button]
	 LED [3] Fingerprint	(In-turn)	[Enter the Fingerprint to be registered for 4 times] → [R button]
		(one-by-one)	[Placement Number] → LED [#] → [Enter the Fingerprint to be registered for 4 times] → [R button]
	 LED [4] Guest Pin Number		[New Guest Pin Number] → LED [#] → [Press the New Guest Pin Number once again] → [R button]
+ R Button: Registration Button.	 LED [5] Remote Control	(In-turn)	[Press the Open button of the Remote Control to be registered] → [R button]
		(one-by-one)	[Placement Number] → LED [#] → [Press the Open button of the Remote Control to be registered] → [R button]
	 LED [6] Face ID	(In-turn)	LED [#] → [Stare straight into the Face recognition camera] → [R button]
		(one-by-one)	[Placement Number] → LED [#] → [Stare straight into the Face recognition camera] → [R button]
	Press the [OPEN/CLOSE] Button for a 3 Second Super Admin Pin Number		[New Super Admin Pin Number] → LED [#] → Press the New Super Admin Pin Number once again → [R button]

Deletion Mode(User)

[R button] 3 Sec. → [User Pin Number] → LED [#] →	 LED [2] Card	(all-at once)	LED [#] 5 Sec.
		(one-by-one)	[Placement Number] → LED [#]
	 LED [3] Fingerprint	(all-at once)	LED [#] 5 Sec.
		(one-by-one)	[Placement Number] → LED [#]
	 LED [5] Remote Control	(all-at once)	LED [#] 5 Sec.
		(one-by-one)	[Placement Number] → LED [#]
+ R Button: Registration Button.	 LED [6] Face ID	(all-at once)	LED [#] 5 Sec.
		(one-by-one)	[Placement Number] → LED [#]
	LED [0] User Registered Information & Settings Reset		[Open/Close] → [R button] 10 Sec.

2

External Forced Lock Setting

1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by, the [#] button once.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [0] button.
4. Press the [#] button to complete the setting.



- Note**
- This function stops the [Open/Close] button.
 - This function can be set when the Latch or Magnet sensor reacts to door closing operation
 - When normal authentication is performed such as Pin Number the setting will be released.

Alarm Notification ON/OFF

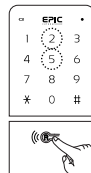
1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by, the [#] button twice.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [1] button or [4] button.
4. Press the [Registration] button to complete the setting.



- Note**
- Controls only the Alarm Notification.

Dual Authentication ON/OFF

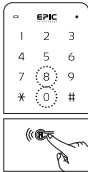
1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by, the [#] button twice.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [2] button or [5] button.
4. Press the [Registration] button to complete the setting.



- Note**
- LED [2] : Dual Authentication ON / LED [5] : Dual Authentication OFF
 - If Dual Authentication is ON, must enter the User Pin Number and perform the second authentication.
 - If Dual Authentication is ON, User Cards, Fingerprints, Faces are not allowed as the primary authentication.
 - If Dual Authentication is ON, unregistered Cards do not respond.
 - Administration Pin Number, Cards, Fingerprints, and Faces are allowed for primary authentication.
 - Administration Pin Number, Cards, Fingerprints, and Faces ignore Dual Authentication.
 - The Remote Control, Guest Pin Number, Bluetooth can unlock the deadbolt without secondary authentication.
 - When the secondary authentication(Cards, Fingerprints, Faces) of the user is not registered (or all of them are deleted), the deadbolt lock is released only by the User's primary authentication(User Pin Number).
 - If the User's secondary authentication is not registered, Dual Authentication cannot be turned ON.
 - Even if Dual Authentication is ON, If the registered information(Cards, Fingerprints, Faces) were all deleted, Dual Authentication will be OFF.

IR SENSOR ON/OFF

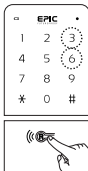
1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by, the [#] button twice.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [8] button or [0] button.
4. Press the [Registration] button to complete the setting.



- Note**
- LED [8] : IR SENSOR ON / LED [0] : IR SENSOR OFF
 - Automatic authentication and manual authentication are possible.
 - Automatic authentication: When the IR sensor is detected in the locked state, authentication starts.
 - Manual authentication: Touch the number pad in the lock state and press the LED [x] button for 1 second to start authentication.
 - The IR sensor can be detected up to 100cm.
 - In the Unlock state, the IR sensor is not detected and is automatically detected after 7 seconds of Lock operation.
 - In the IR SENSOR ON state, manual authentication can be used.

FeliCa Auto-Detection ON/OFF

1. Touch the number pad to turn on all LED.
2. Enter the User Pin Number followed by, the [#] button three times.
(First registration: Initial User Pin Number [1234] + [#] button.)
3. Press the [3] button or [6] button.
4. Press the [Registration] button to complete the setting.



- Note**
- LED [3] : FeliCa Auto-Detection ON / LED [6] : FeliCa Auto-Detection OFF
 - When the Smart Card Auto Recognition setting is turned ON, this setting is valid.
 - When the Smart Card Auto Recognition setting is turned OFF, this setting does not work.
 - When this setting is ON in the state where the Smart Card Auto Recognition setting is OFF, the LED [2] button is blinking and off with the error voice.

Etiquette Mode

1. Touch the number pad to turn on all LED.
2. Press the [#] button once.



- Note**
- Silent mode will be applied to Pin Number, Card, Fingerprint, Face and Guest. Pin Number authentication for 1 time regardless of the previous Sound Setting.
 - A warning volume will occur after a total of 5 consecutive failed authentication.

Random Number Feature

- Up to 20 digits can be entered including the Pin Number
- The Pin Number must be entered after the Random Number

Automatic Re-locking Function

- The door is not opened within 7 seconds after the door is unlocked by authentication, the Automatic Re-locking action will be executed

1 Minute Lock Warning Function

- Total 5 consecutive failed will result in 1 minute suspension of authentication
- After the alarm sound for 7 seconds, operation stops for 1 minute
- During 1 Minute Lock operation, an error sound occurs when authentication is attempted
- During 1 Minute Lock operation, Pin Number, Card, Fingerprint, Face, Guest Pin Number and Remote Control operation will not work
- Press the [Open/Close] button, 1 Minute Lock will be disabled

Low Battery Warning Function

- When low battery is detected, the [Battery Replacement] LED lights up
- When low battery is detected, a warning melody will be heard
- When low battery is detected, authentication operation may not operate normally
- Low voltage : 4.5V (Face Recognition Door Lock: 5.0V)
- When the voltage returns to 5.5V(Face Recognition Door Lock: 5.6V), the alarm will be disabled

Deadbolt Operation Error Warning Function

- When the deadbolt is opened or closed but does not operate normally, the Deadbolt Operation Error Warning Function is activated.
- During Deadbolt Operation Error, the [4] LED lights up.
- During Deadbolt Operation Error, a warning melody will be heard.
- For normal operation, retry for three times.

Intrusion Alarm Function

- If the deadbolt sensor stops responding while the deadbolt sensor is on for more than 7 seconds, an intrusion alarm of more than 80 dB will occur.
- You can disabled the Intrusion Alarm through authentication of Pin Number, Cards, Fingerprints, and Remote Controls.
- When the Door Lock power is off, the Intrusion Alarm Function is disabled.
- During Intrusion Alarm Function, the [5] LED lights up.

High Temperature Alarm Function

- Detect high temperature (If the temperature sensor is at 60°C ± 10°C for 5 seconds) the deadbolt open action will be activated after 10 seconds.
- After opening the door, a High Temperature Alarm of 80 dB is generated for 2 minutes.
- Examine the opening status every 5 seconds. If the deadbolt does not open, retry open operation.
- Pressing any button from inside will execute deadbolt open operation.
- Deadbolt open action are executed, even if the Internal / External forced lock is set.
- You can disabled the High Temperature Alarm through authentication of Pin Number, Cards, Fingerprints, and Remote Controls.
- When the Door Lock power is off, the High Temperature Alarm Function is disabled.
- During High Temperature Alarm Function, the [8] LED lights up.

Locking from Outside

- When the Deadbolt Auto Lock is set, if the deadbolt sensor is detected, the deadbolt will automatically lock after 2 seconds.
- Even if the Deadbolt Auto Lock is set, when you touch the number pad for 2 seconds before the deadbolt auto locks, Lock action will be activated.
- If the Deadbolt Manual Lock is set, touch the number pad for 2 seconds Locking action will be activated.

Locking from Inside

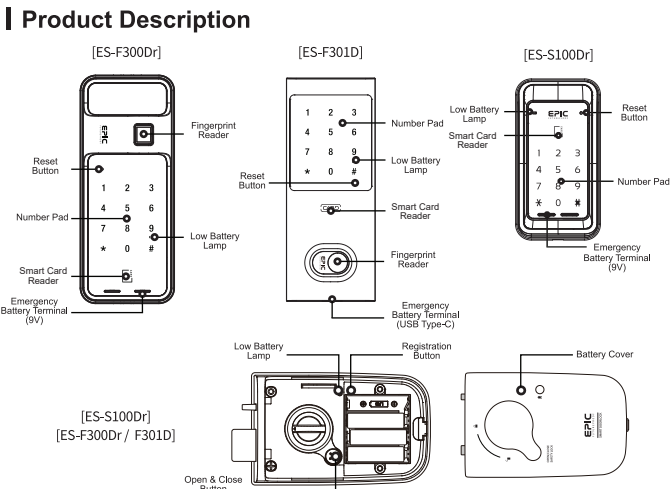
- Sub Type : Press the [Open/Close] Button. Turn the knob.
- Main Type : Press the [Open/Close] Button.
- When the Deadbolt Auto Lock is set, if the deadbolt sensor is detected, the deadbolt will automatically lock after 2 seconds.

Self-Diagnosis

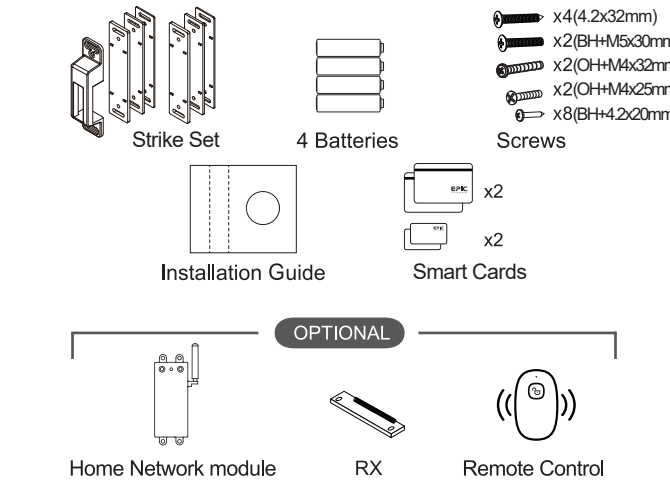
- LED [1] : ▲ [Fel/Car Auto-Detection ON] can not be set.
- LED [2] : ▲ Registration Error. ▲ Deletion Error. [Dual Authentication ON] can not be set. ▲ Setting Error.
- LED [3] : ▲ The number of Cards, Fingerprints, Remote Controls and Face ID registration is "FULL". ▲ No registered Fingerprint or Face ID (Empty).
- LED [4] : Deadbolt Operation Error
- LED [5] : Intrusion Alarm
- LED [6] : Authentication Error (Unregistered Pin Number, Card, Fingerprint, Face, Guest Pin Number)
- LED [7] : An Already Registered Placement Number(Card, Fingerprint, Face, Remote Control)
- LED [8] : High Temperature Alarm
- LED [9] : Internal / External Forced Lock Setting
- LED [0] : Fingerprint / Face recognition device does not operate normally.

* In this case, Try replacing all batteries with new ones first.

[ES-F300Dr & ES-F301D & ES-S100Dr]



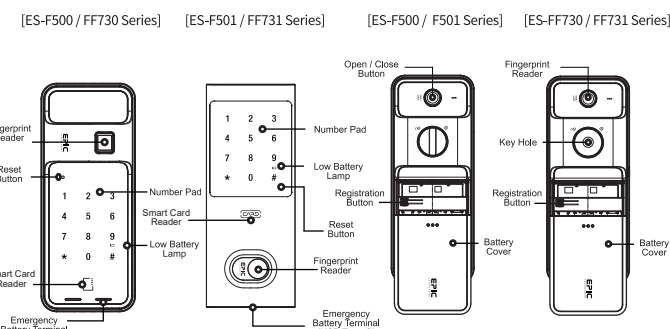
Product Components & Dimension



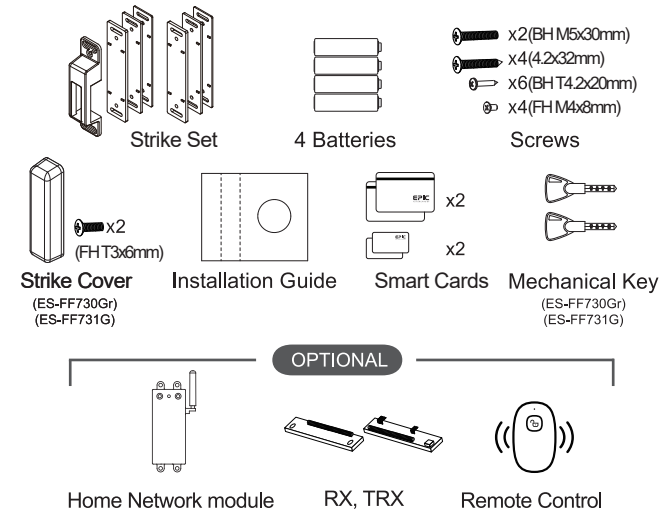
Description	Specification
Door Thickness	30 ~ 50mm
Power Use	DC 6V (4 LR6 1.5V AAAlkaline battery)
Emergency Power	DV 9V Alkaline battery (not included) / USB C-Type
Fire Detection Temperature	60°C ± 10°C
Material	Zn, Al, ABS

[ES-F500D(H)r & ES-FF730Gr]
[ES-F501D(H) & ES-FF731G]

Product Description



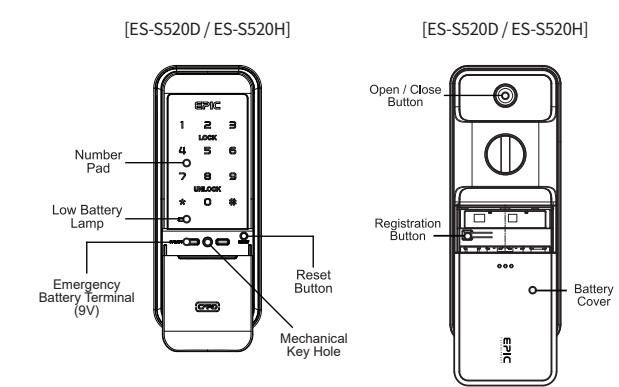
Product Components & Dimension



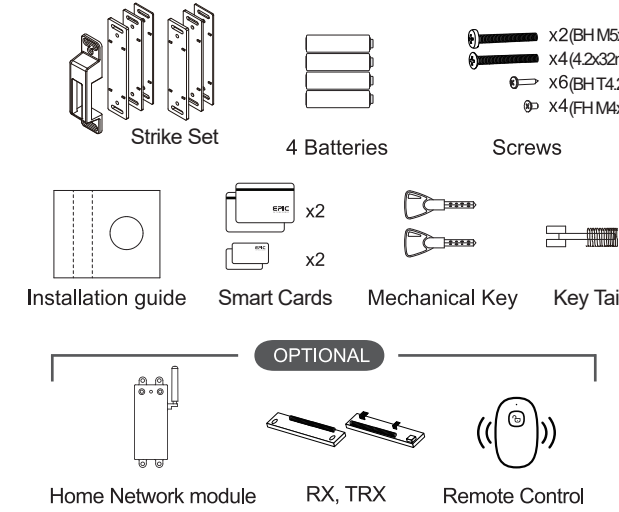
Description	Specification
Door Thickness	30 ~ 50mm
Power Use	DC 6V (4 LR6 1.5V AAAlkaline battery)
Emergency Power	DV 9V Alkaline battery (not included) / USB C-Type
Fire Detection Temperature	60°C ± 10°C
Material	Zn, Al, ABS

[ES-S520D(H)]

Product Description



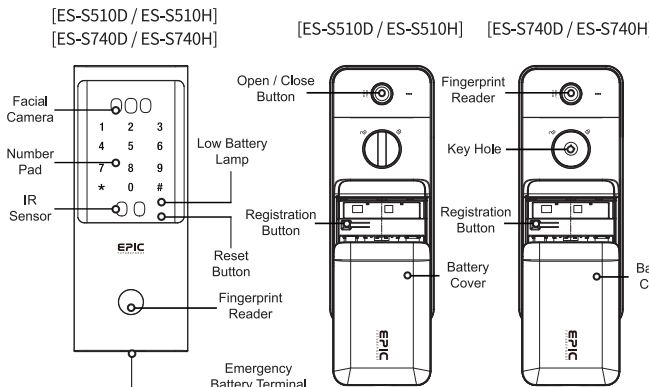
Product Components & Dimension



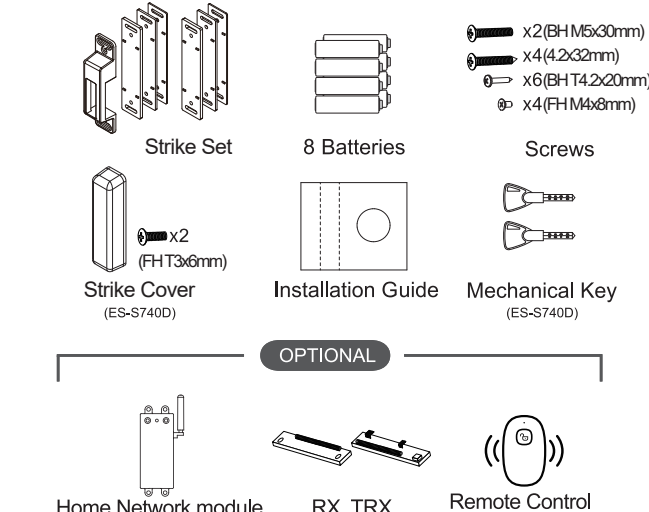
Description	Specification
Door Thickness	35 ~ 50mm
Power Use	DC 6V (4 LR6 1.5V AAAlkaline battery)
Emergency Power	DV 9V Alkaline battery (not included)
Fire Detection Temperature	60°C ± 10°C
Material	Zn, Al, ABS

[ES-S510D(H) & ES-S740D(H)]

Product Description



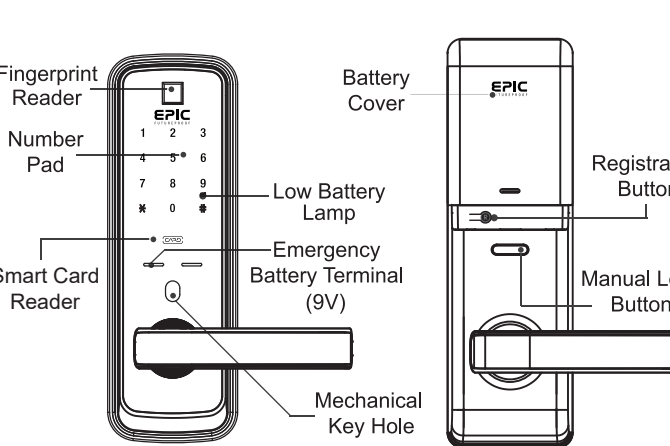
Product Components & Dimension



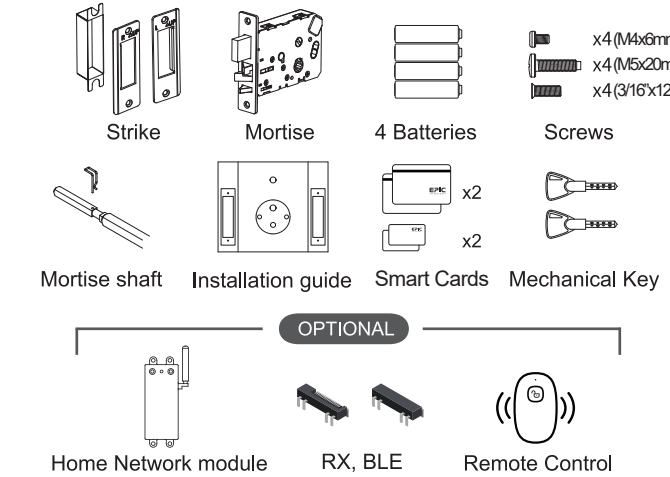
Description	Specification
Door Thickness	30 ~ 50mm
Power Use	DC 6V (8 LR6 1.5V AAAlkaline battery)
Emergency Power	USB C-Type
Fire Detection Temperature	60°C ± 10°C
Material	Zn, Al, ABS

[ES-F7000Kr]

Product Description



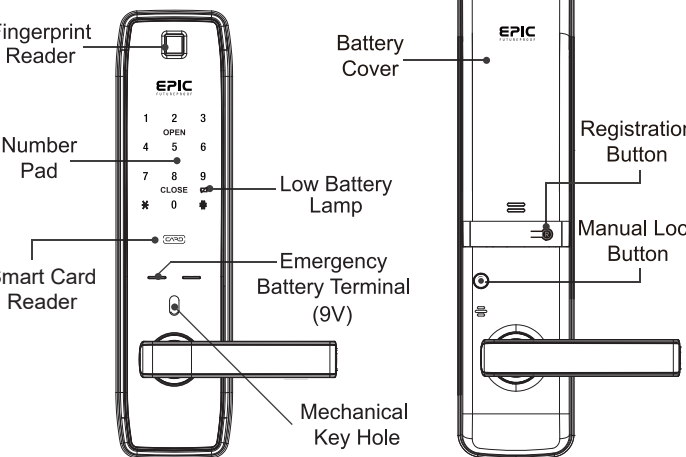
Product Components & Dimension



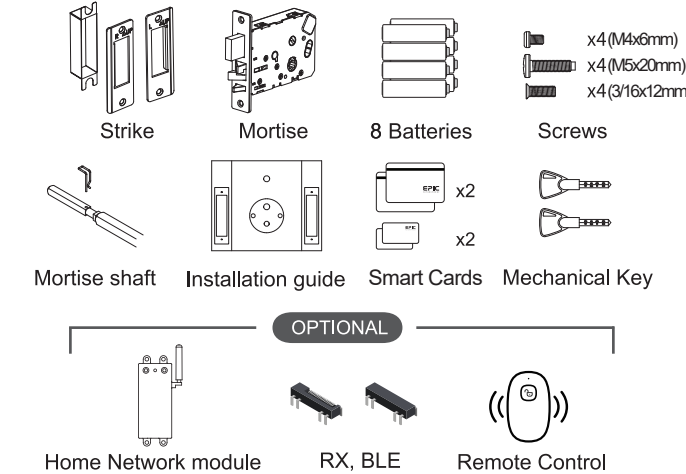
Description	Specification
Door Thickness	40 ~ 50mm
Power Use	DC 6V (4 LR6 1.5V AAAlkaline battery)
Emergency Power	DV 9V Alkaline battery (not included)
Fire Detection Temperature	60°C ± 10°C
Material	Zn, Al, ABS

[ES-F9000Kr]

Product Description



Product Components & Dimension



Description	Specification
Door Thickness	40~50mm
Power Use	DC 6V (8 LR6 1.5V AA Alkaline battery)
Emergency Power	DC 9V Alkaline battery (not included)
Fire Detection Temperature	60°C ± 10°C
Material	Zn, Al, ABS