Fingerprint Identification System
The Leader of Biometric Technology

Fingerprint
Identification System

VIRDI

VIRDI-400FP

User's Guide

CONTENTS

1. ORGANIZATION

Emergency Key (3pcs)

Battery 8 pcs (AA type)

Door Handle

Battery Case & Cover

Interior Lock Part

Outer Shell

Installation guide paper for hole locations

40mm

8mm in Diameter

60mm in Diameter

228mm

The edge of the door

8mm in Diameter

60mm in Diameter

100mm

The center of the doorlock

100mm

81mm

8mm in Diameter

Plate

(FH M5x20)
Battery Case, Plate Screw 4pcs

(OH M5x35)
Interior Lock Part Screw 3pcs

Lock Control Bracket Screw 4pcs (FH T5x50)

Installation Guide Paper   Outer Shell Rubber Pad   Lock Control Bracket

2. NAME

•Interior Parts   • Exterior Parts

Battery Cover

Auto/Manual Switch

Menu Button

Open/Close Button

Automatic Open/ Close Check Sensor

Lock

Manual Open/Close Lever

Interior Door Handle

Button for Password Registration & Deletion

Lock

Button Cover

Key Pad

Button for Fingerprint Registration & Deletion

Start Button

Fingerprint Sensor

Exterior Door Handle

Emergency Key Cover

3. FUNCTION

1) Exterior operation parts

Name & Image	Description
Start button	• This button is used for starting fingerprint recognition when the door is closed. • This button is also used for locking the door from the outside when the Auto/Manual button is placed in the Manual position.
Emergency cover	• This cover is used to protect the emergency key hole. It will be disclosed if the cover is pushed toward the direction of the door handle.
Emergency key	• This emergency key is used for opening the door in case the VIRDI-400FP is out of batteries or out of order.
Key pad	• This key pad is used for password registration or deletion. • This key pad is used for opening the door. • Please use it after back light-on.

2) Interior lock parts

Name & Image	Description
Menu button	• The Menu button is used for starting registration or deletion of fingerprint/password.
Auto/Manual switch	• When the Auto/Manual switch is placed in the Auto position, the door is closed automatically. • The door will not be closed automatically when the Auto/Manual switch is placed in the Manual position.
Open/Close	• This Open/Close button is used for Open/Close door control inside.
Manual Open/Close lever	• This lever is a spin wheel which is used to Open/Close door manually.

4. ASSEMBLY DIAGRAM

· Exterior

NO.	Part Name
⑧	Outer shell rubber pad
⑨	Sensor cable
⑩	Key pad cable
⑪	Exterior operation part
⑫	Door handle installation screw

· Door
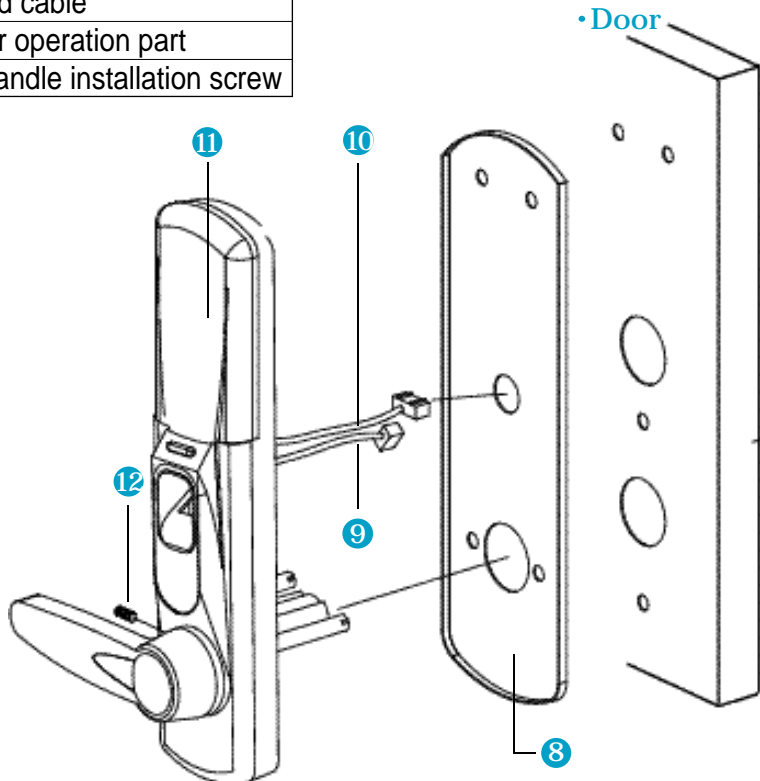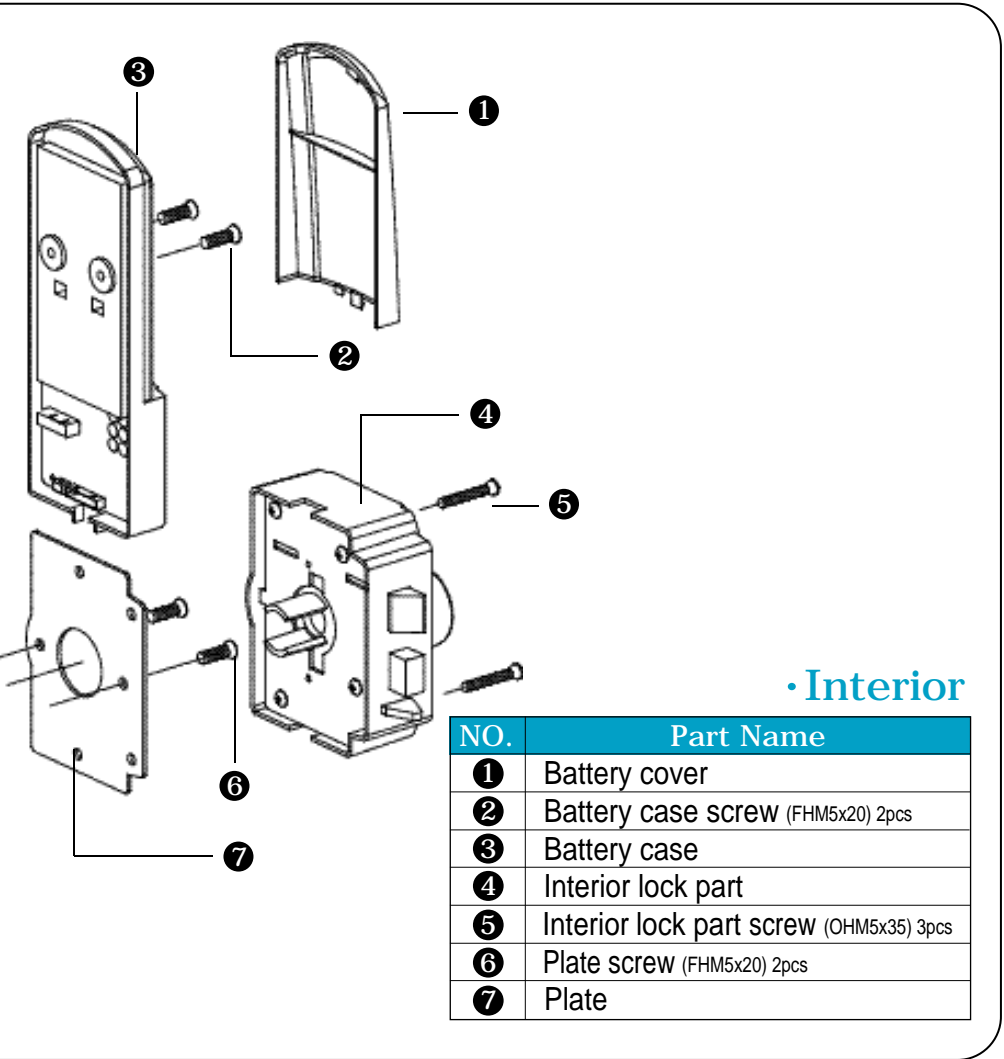
· Interior

NO.	Part Name
❶	Battery cover
❷	Battery case screw (FHM5x20) 2pcs
❸	Battery case
❹	Interior lock part
❺	Interior lock part screw (OHM5x35) 3pcs
❻	Plate screw (FHM5x20) 2pcs
❼	Plate

5. MENU SETUP FOR HOME USE

1. Initial fingerprint registration

When a user uses VIRDI-400FP for the first time,

➡ | Menu | 🔊 "Bik" | (#) | 🔊 "Beririric" | 🌀 Input a new fingerprint | 🔊 "Beririric" | 🌀 Input it once again | 🔊 If succeeded : "Beririric" If failed : "Bebic"

2. Fingerprint registration

After finishing the initial fingerprint registration,

➡ | Menu | 🔊 "Bik" | (#) | 🔊 "Beririric" | 🌀 Input a registered fingerprint | 🔊 If succeeded : "Beririric" If failed : "Bebic" | 🌀 Input a new fingerprint | 🔊 "Beririric"

🌀 Input it once again | 🔊 If succeeded : "Beririric" If failed : "Bebic" | End
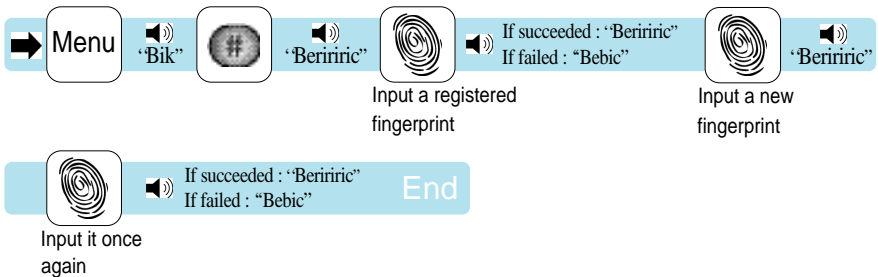
3. Fingerprint deletion

When a user deletes fingerprint data in the system,

➡ | Menu | 🔊 "Bik" | (#) | Until buzzer 🔊 "Be-ic" | 🌀 Input a fingerprint for deletion | 🔊 If succeeded : "Beririric" If failed : "Bebic" | End
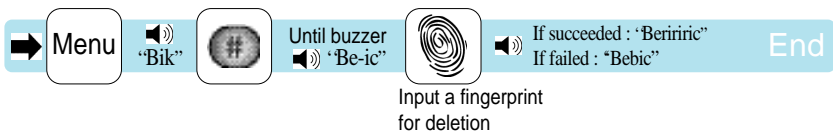
4. Password registration

If no existing passwords in the system, follow "②" instruction directly.

Menu ◀)) "Bik" (⚹) ◀)) "Beririric" ① [keypad] ◀)) If succeeded : "Beririric"
If failed : "Bebic"

Input a registered password

② [keypad] (⚹) ◀)) "Beririric" [keypad] (⚹) ◀)) If succeeded : "Beririric"
If failed : "Bebic" End

Input a
new password

Input it once again
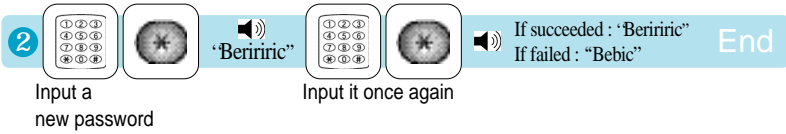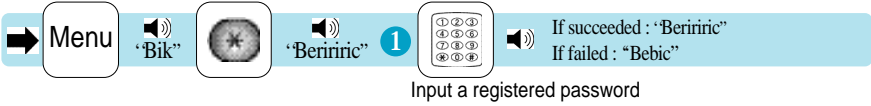
5. Password deletion

When a user deletes a password,

Menu ◀)) "Bik" (⚹) ◀)) Until buzzer "Be-ic" [keypad] (⚹) ◀)) If succeeded : "Beririric"
If failed : "Bebic" End

Input a
registered password
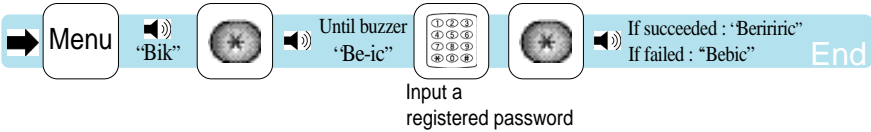
6. Access control setup

- All users can open the door by only an access control number, after setup.
- A registered fingerprint is required in order to use the Access control function.
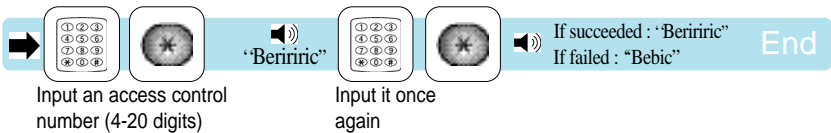
➡ Menu ◀)) 'Bik' 〔7〕 ◀)) "Beririric" 〔〕 ◀)) If succeeded : 'Beririric'
If failed : "Bebic"

Input a
registered fingerprint

➡ 〔〕 〔✳〕 ◀)) "Beririric" 〔〕 〔✳〕 ◀)) If succeeded : 'Beririric'
If failed : "Bebic" End

Input an access control
number (4-20 digits)   Input it once
again

7. Access control discharge

To discharge Access control setup function,

➡ Menu ◀)) 'Bik' 〔8〕 ◀)) "Beririric" 〔〕 〔✳〕 ◀)) If succeeded : 'Beririric'
If failed : "Bebic" End

Input a registered
access control number

8. Fingerprint Test

To check a user's fingerprint quality,
(To start again 〔9〕 button, to finish 〔✳〕 + 〔#〕 button)

➡ Menu ◀)) 'Bik' 〔9〕 ◀)) "Beririric" 〔〕 ◀)) "Beririric" 〔〕 ◀)) If succeeded : 'Beririric'
If failed : "Bebic"(End)
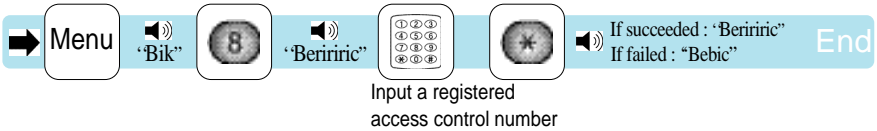
Input a test
fingerprint   Input it once
again

9. Initialization

➡️ Menu 🔊 "Bik" (0) (4) (5) (6) (0) (2) (5) (8) (0) (#)
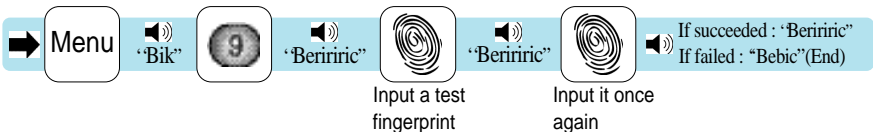
🔊 If succeeded : "Beririric"
If failed : "Bebic"   End

10. Logging out from the menu mode processing

➡️ (*) (#) End

6. MENU SETUP FOR OFFICE USE

1. Initial user registration

When a user uses VIRDI-400FP for the first time, or the system is converted from Home use to Office use,
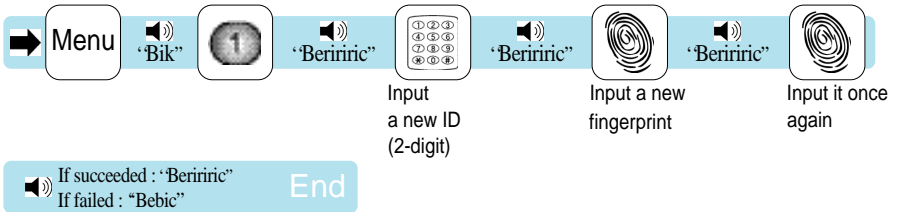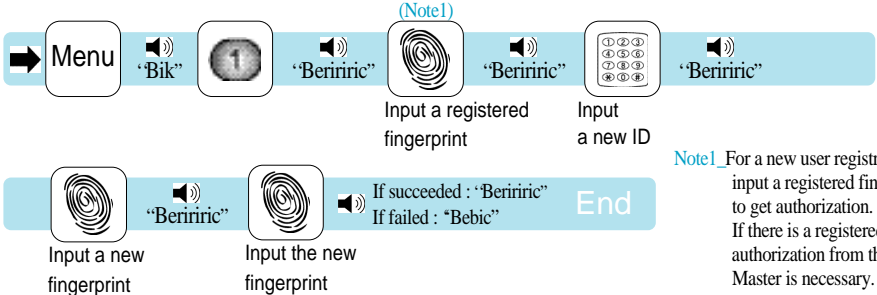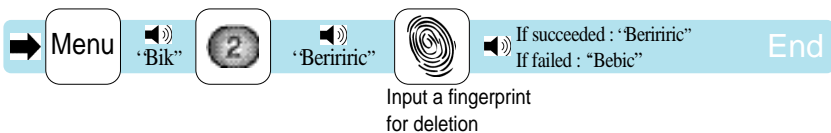
➡ Menu → ◀) 'Bik' → ① → ◀) 'Beririric' → [keypad] → ◀) 'Beririric' → [fingerprint] → ◀) 'Beririric' → [fingerprint]

Input a new ID (2-digit)   Input a new fingerprint   Input it once again

◀) If succeeded : 'Beririric'   End
   If failed : "Bebic"

2. User registration

After finishing the initial fingerprint registration,

(Note1)

➡ Menu → ◀) 'Bik' → ① → ◀) 'Beririric' → [fingerprint] → ◀) 'Beririric' → [keypad] → ◀) 'Beririric'

Input a registered fingerprint   Input a new ID

[fingerprint] → ◀) 'Beririric' → [fingerprint] → ◀) If succeeded : 'Beririric'   End
                                              If failed : "Bebic"

Input a new fingerprint   Input the new fingerprint

Note1_ For a new user registration, input a registered fingerprint to get authorization. If there is a registered Master, authorization from the Master is necessary.

3. User deletion(as using a user's fingerprint)

➡ Menu → ◀) 'Bik' → ② → ◀) 'Beririric' → [fingerprint] → ◀) If succeeded : 'Beririric'   End
                                                        If failed : "Bebic"

Input a fingerprint for deletion

4. User deletion (as using a user's ID)

➡ Menu　◀)） "Bik"　[3]　◀)） 'Beririric'　[keypad]　◀)） If succeeded : 'Beririric' End
If failed : "Bebic"

Input a user ID for deletion
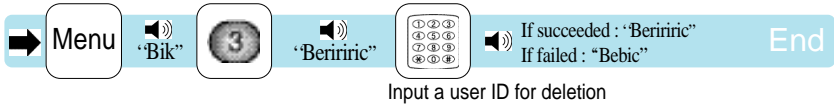
5. Password registration & changing

➡ Menu　◀)） "Bik"　[4]　◀)） 'Beririric'　[keypad]　◀)） 'Beririric'　[keypad]　◀)） 'Beririric'

Input a prior password + [*] button (Note2)

Input a new password + [*] button

[keypad]　◀)） If succeeded : 'Beririric' End
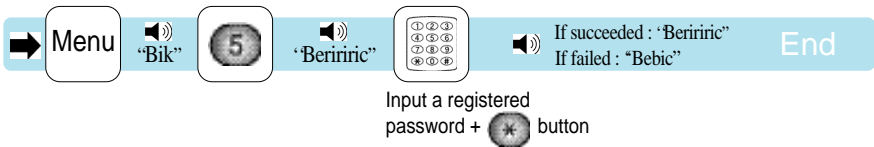If failed : "Bebic"
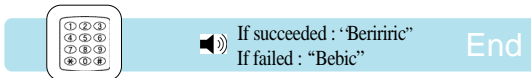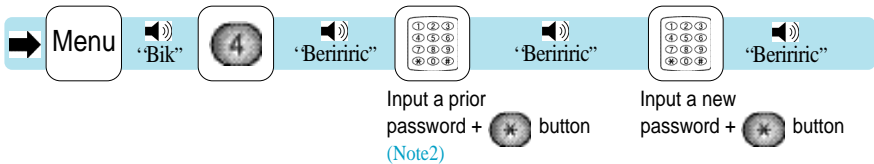
Input the password once again + [*] button

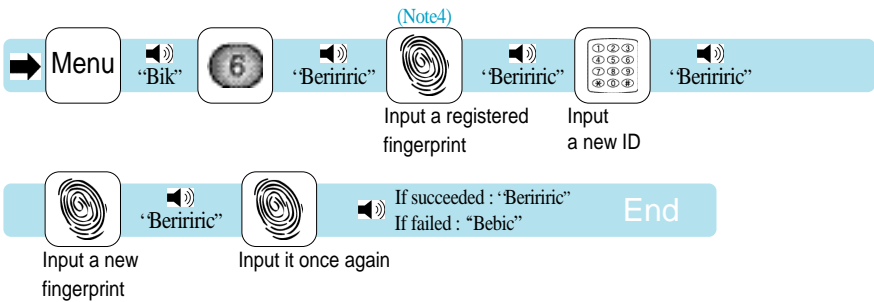Note2 _ In the first time of password registration, please pass this step.

⚠ Caution

- This VIRDI-400FP is for home and office and the initial mode is for Home use.
  When the mode conversion is necessary, please follow the process below.

  [menu] [0] [8] [5] [2] [9] [3] [7] [9] [0] [#]

- The initialization of system is the same as Home use, when the initialization is necessary.
  Please follow the process below.

  [menu] [0] [4] [5] [6] [0] [2] [5] [8] [0] [#]

- When the system mode is converted, All registered data are deleted.A 2-digit user ID is used only in office application.
- After the system mode conversion from Home use to Office use, when a user press the menu button, the buzzer will ring("Bik") with the back light-on in the key pad.

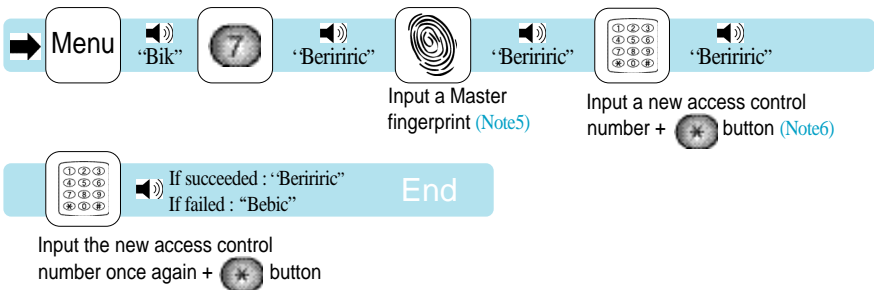- To finish menu mode processing, press the [*] , [#] button together.

6. Password deletion

➡ Menu | 🔊 "Bik" | 5 | 🔊 'Beririric" | [keypad] | 🔊 | If succeeded : 'Beririric" / If failed : "Bebic" | End

Input a registered
password + ✳ button

7. Master registration

➡ Menu | 🔊 "Bik" | 6 | 🔊 'Beririric" | (Note4) [fingerprint] | 🔊 'Beririric" | [keypad] | 🔊 'Beririric"

Input a registered
fingerprint

Input
a new ID

[fingerprint] | 🔊 'Beririric" | [fingerprint] | 🔊 If succeeded : 'Beririric" / If failed : "Bebic" | End

Input a new
fingerprint

Input it once again

8. Access control setup
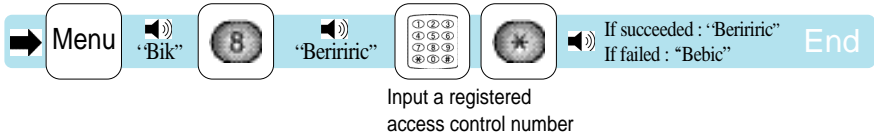
- A Master fingerprint is required in order to use the Access control function.
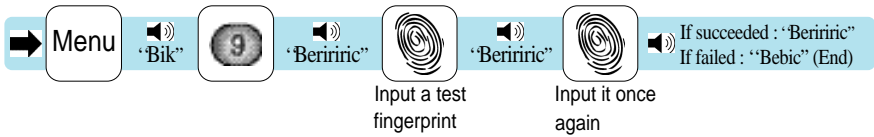 (A Master is an administrator.)

➡ Menu | 🔊 "Bik" | 7 | 🔊 'Beririric" | [fingerprint] | 🔊 'Beririric" | [keypad] | 🔊 'Beririric"

Input a Master
fingerprint (Note5)

Input a new access control
number + ✳ button (Note6)

[keypad] | 🔊 If succeeded : 'Beririric" / If failed : "Bebic" | End

Input the new access control
number once again + ✳ button

9. Access control discharge

To discharge Access control setup function,

➡️ | Menu | 🔊 "Bik" | (8) | 🔊 "Beririric" | [keypad] | (✱) | 🔊 If succeeded : "Beririric" / If failed : "Bebic" | **End**

Input a registered
access control number

10. Fingerprint Test

To check a user's fingerprint quality,
(To start again (9) button, to finish (✱) + (#) button)

➡️ | Menu | 🔊 "Bik" | (9) | 🔊 "Beririric" | [fingerprint] | 🔊 "Beririric" | [fingerprint] | 🔊 If succeeded : "Beririric" / If failed : "Bebic" (End)

Input a test
fingerprint

Input it once
again

Note4_ For a new Master registration, input a registered Master fingerprint to get authorization.
     If there is a registered Master, the Master authorization is necessary to register new Master.
   If succeeded : Beririric, If failed : Bebic

Note5_ First, must register a master to do Access control setup.
     After completing Access control setup, every key pad number is locked
     except '8' for setup discharge.

Note6_ Only the new access control number can open the door after completing Access control setup function.

# 7. HOW TO USE (from Inside)

1) When going outside

To go outside, push the Open/Close button or turn the handle to downwards after turning the Manual Open/Close lever to the right direction.
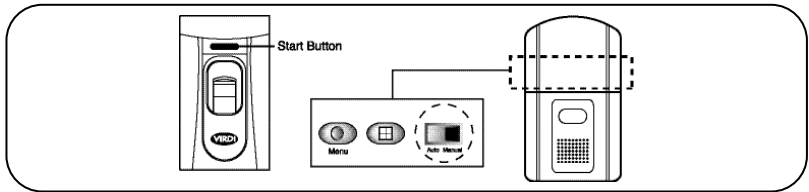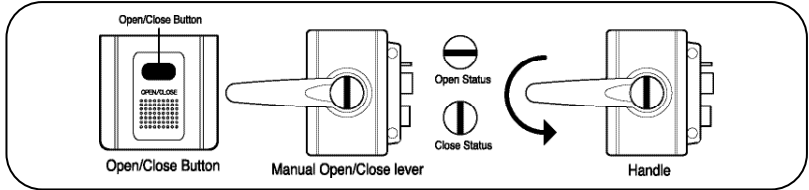
■ Please make sure of closing door when pushing the start button if the Auto/Manual switch is located in the Manual position.

2) To close door

(1)When the Open/Close switch is located in the Auto position, the door is automatically locked after closing the door. However, please check the Manual Open/Close lever's location fromthe Open Status to the Close Status.
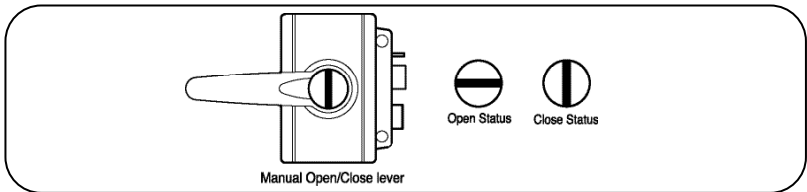

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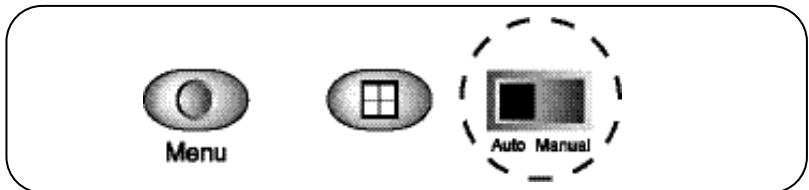
(2)When the Open/Close switch is located at the Manual position, To lock the door, push the Open/Close button or turn the Manual Open/Close lever to the Close Status position.
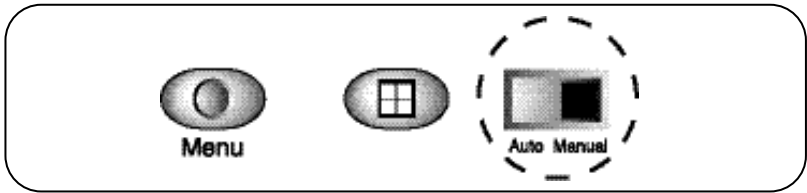
■Notice

Please check the door's Open/Close Status all the time.

8. BATTERY EXCHANGE

VIRDI-400FP only uses AA type batteries (8 pcs).

1)If a battery change signal is ringing with the twinkling red light on the start button, please exchange the batteries on the right position(+,-).

2)Please use an emergency key until the batteries are replaced when the batteries are exhausted.

9. HOW TO USE (from Outside)

Please follow the instruction below, then open the door by turning the handle downward after authorization.

1) Access by fingerprint identification
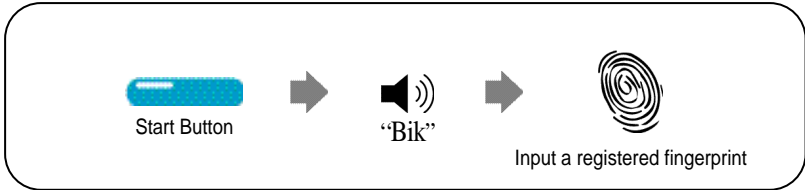
Start Button → "Bik" → Input a registered fingerprint

- If succeeded, the door will be unlocked with the buzzer ringing ("Beriric"), and the blue light on the Start button will twinkle.

- If failed three times, the buzzer will ring ("Bebic"), and the red light on the Start button will twinkle.

- If no fingerprints have been registered, the buzzer will ring ("Bebic") once and the process will end automatically.

- If Access control function is in use, the buzzer will ring ("Bebic") twice and the process will end automatically.

- If VIRDI-400FP has been initialized, the buzzer will ring ("Bebic") three times and the process will end automatically.

2) Access by inputting a password
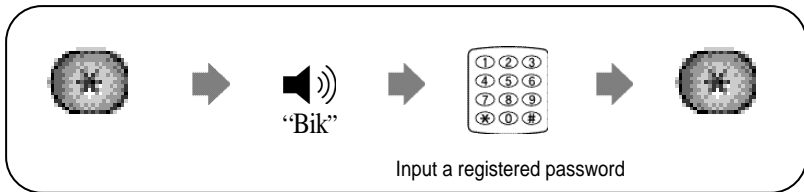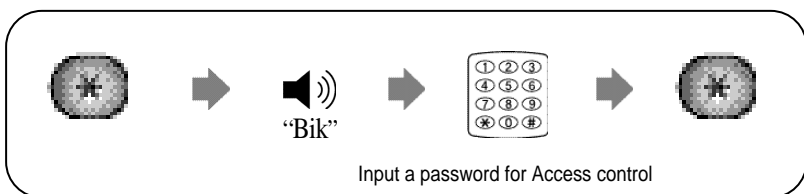

Input a registered password

-If succeeded, the door will be unlocked with the buzzer ringing (Beriric), and the blue light on the Start button will twinkle.

-If failed, the buzzer will ring (Bebic), and the red light on the Start button will twinkle.

-If no passwords have been registered, the buzzer will ring (Bebic) once and the process will end automatically.

3) Access when Access control in use

Input a password for Access control

-If succeeded, the door will be unlocked with the buzzer ringing ("Beriric"), and the blue light on the Start button will twinkle.

-If failed, the buzzer will ring ("Bebic"), and the red light on the Start button will twinkle.

-When Access control is in use, Access by a previous password or fingerprint identification is not possible.

Fingerprint Identification Digital
Door Lock