

Simplest Fingerprint AC Module
Hardware Manual

1.Features

- Safe, Low Cost, Durable
- All in One, Tiny Size
- High Speed, High Performance Fingerprint Algorithm
- Manage User Database by Excel Table, very flexible
- Voice Controlled Interface, No LCD

2.User Guide

Recommended Usage Steps

- 1: Install and Supply power
- 2: Verify admin password and modify admin password. Enroll user fingerprint, card, or password
- 3: Device Settings, Including Set Device ID, Device time, door open passwords (8 passwords), Door open interval, Verification mode, Door sensor mode, Alarm mode, and upload/download user database by Excel.

Menu Structure

Menu

1. User Management

- | 1. Enroll User
- | 2. Delete User
- | 3. Delete All Users
- | 4. Delete All Logs

2. AC (Access Control) Management

- | 1. Set Device ID
- | 2. Set Device Time
- | 3. Set door open passwords (8 passwords)
- | 4. Set Door Open Duration
- | 5. Set Verification Mode
- | 6. Set Door Sensor Mode
- | 7. Set Alarm
 - | 1. Alarm Function On/Off
 - | 2. Invalid Alarm On/Off
 - | 3. Tamper Alarm On/Off
 - | 4. Door Open Overtime On/Off

3. USB Disk Management

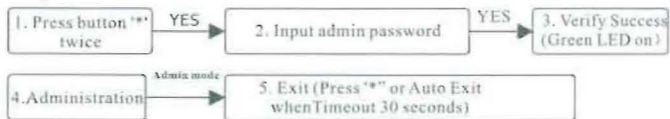
- └─1. Synchronize User database
- └─2. Download Log Table
- └─3. Firmware Upgrade
- └─4. Set Volume
- └─5. Set Fingerprint Sensor Touch
- └─6. Set Admin Password
- └─7. Adjust Fingerprint Sensor
- └─8. Open the Door

Keypad



Menu

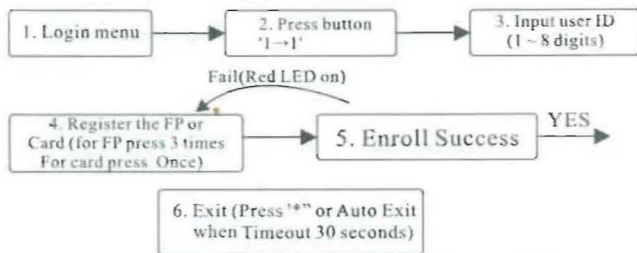
- Login



Note:

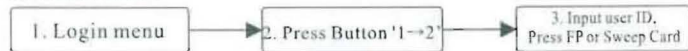
1. Initial Admin password is 12345678.
 2. Passwords need to be 8 digits, when input 8 digits, it is completed automatically. If Password less than 8 digits, please finished by pressing '#'.
 3. When the user press button '*' twice, "Please input admin password" voice will be played, the user should input the password within 20 seconds. Red LED will be blinked to prompt the user.
- Admin password is forgotten
 Disassemble the device, press tamper 3 times within 60 seconds. (There will be tampering beep in 30 seconds.)

1) Enroll User



➤Note: Press '#' to complete the input of the user ID. When pressed 8 digits, it is completed automatically.

2) Delete a User

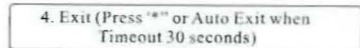
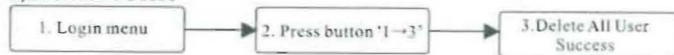


Fail (Red LED on)

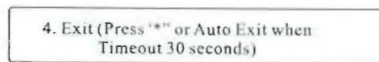


YES

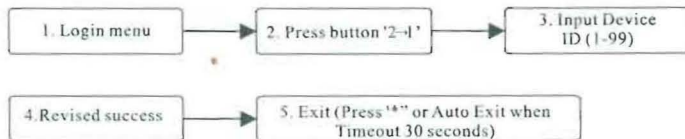
3) Delete All Users



4) Delete All Logs

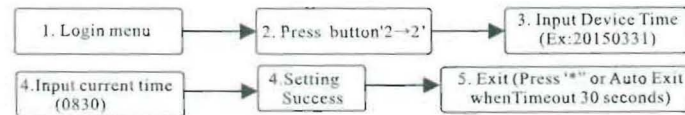


5) Set Device



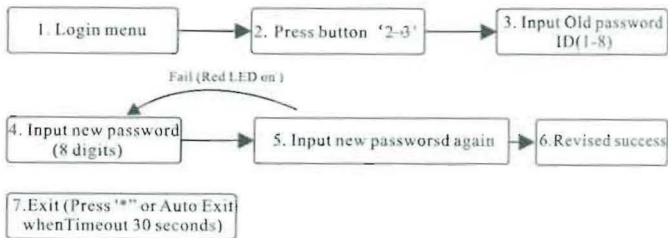
➤Note: The default Device ID is 1

6) Set Device Time



➤Note: should be input time format as in format of "YYYYMMDD", or it will be failed
And current time should be 0830 if 8:30AM

7) Set Door Open Passwords (8 digits password)

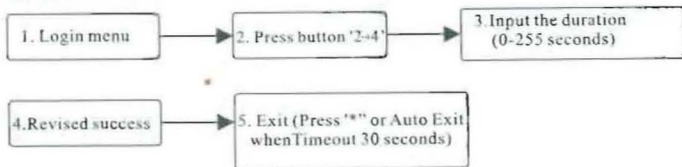


➤Note: 8 passwords are available

Set password to "00000000" is not useful

By default, the first password is "88888888"

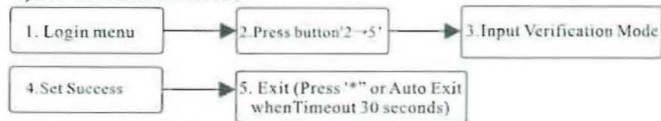
8)Set Door Open Duration



➤Note: Press '#' button to finish setting door open duration time. When pressed 3 digits for door open time, it is finished automatically. If less 3 digits for door open time, need to press '#' button to finish

Door open duration time can't be more than 255 (second), default door open duration time is 5 (seconds)

9)Set Verification Mode



ØNote: The verification mode is as follows

NO.	Verification Mode	Description
Mode 1(button "1")	PW	By Password
Mode 2(button "2")	RF	By Card
Mode 3(button "3")	FP	By Fingerprint
Mode 4(button "4")	FP/PW/RF	By Fingerprint or Password or Card
Mode 5(button "5")	RF&PW	By Card and Password
Mode 6(button "6")	FP&PW	By Fingerprint and Password

The default mode is 'FP/PW/RF'.

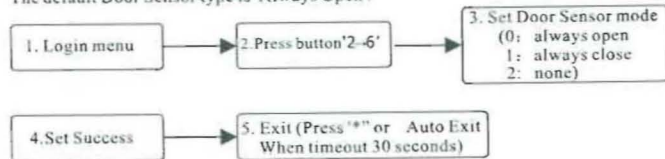
In the combination verification modes (RF&PW, FP&PW), the second verification must be done within 30 seconds after the first verification. (during first verify, the Red LED is on)

10) Set Door Sensor Mode

The Door Sensor mode is as follows;

- 'Always Open' : the door sensor is in open state.
- 'Always Close' : the door sensor is in close state.
- 'None' : no door sensor is there.

The default Door Sensor type is 'Always Open'.



➤Note: The Door Open Overtime Alarm is based on this setting.

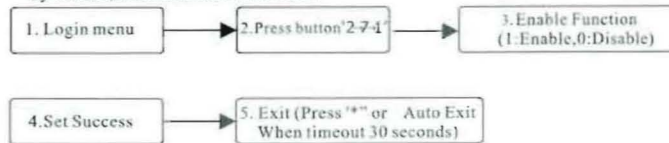
11) Set Alarm

Note : When alarm is started, the buzzer of the device is alarm, and after 30 seconds, the external Alarm Machine runs.
Verification must be done to stop alarm.

◇Alarm Switch On/Off

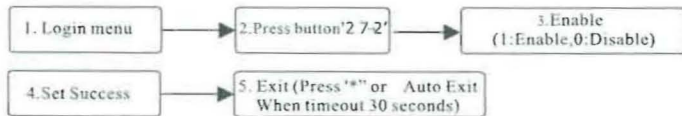
It enables/disables the alarm function for all types. (Invalid Alarm, Tamper Alarm, Door Open Delay Alarm)

By default, alarm function is enabled.



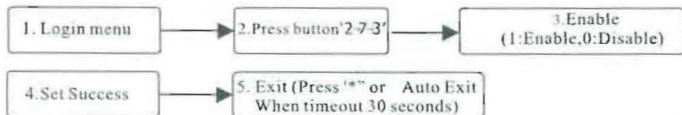
❖ Invalid Alarm ON/Off

It enables/disables the alarm that is started when the wrong password is inputted 3 times. By default, this alarm is enabled.



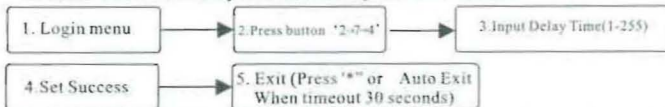
❖ Tamper Alarm ON/Off

It enables/disables the alarm that is started when the device is disassembled. By default, this alarm is enabled.



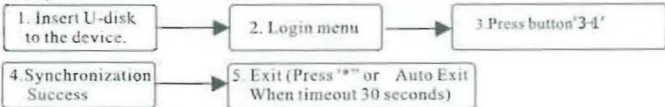
❖ Door Open Delay Alarm

If the door is still opened after the delay time from the door was opened, the alarm will be started. By default, the delay time is 10 seconds.

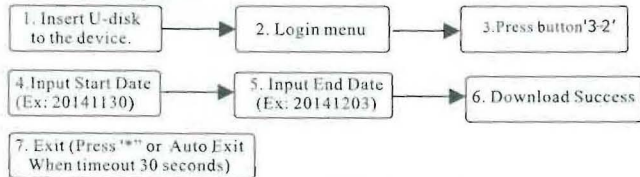


➤ Note : Press '#' to finish the input. When pressed 3 digits, it is completed automatically. If less 3 digits, need to press '#' button to finish. If the input value for delay time is more than 255 (seconds), it is not working. 5 (seconds) is the duration time for settings.

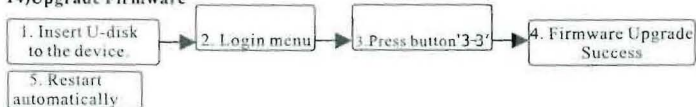
12) Synchronize User Database



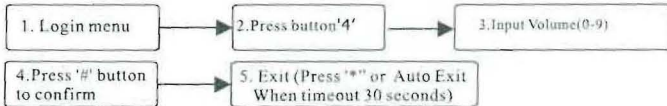
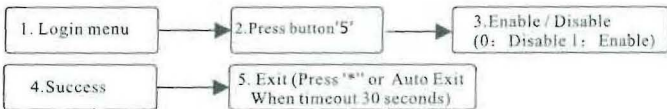
➤ Note : the format of user enroll data is Excel table. It may take a few minutes to synchronize the user enroll data. While synchronizing, Green LED is on. Please don't take off the U-disk.

13)Download Log Table

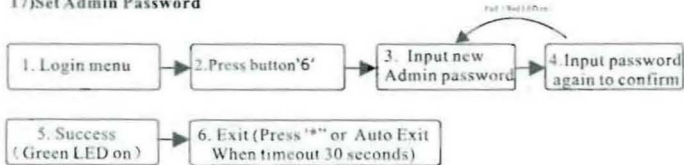
➤Note : Log table is downloaded as in Microsoft Excel file.
It may take a few minutes to download log table.
While downloading, green LED is blinking. Please don't take off the U-disk.
If start time is later than end date or end date is later than current date,
input date will be failed.

14)Upgrade Firmware

➤Note : It may take a few minutes to synchronize the user enroll data.
While upgrading the firmware, Green LED is on. Please don't take off the U-disk or power off.

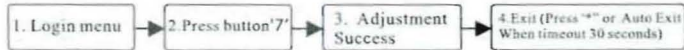
15)Set Volume**16)Set Fingerprint Touch Sensor**

17) Set Admin Password



➤ Note : When input 8 digits, it will be finished automatically. If less 8 digits, Press '#' to finish the password input..

18) Adjust Fingerprint Sensor



➤ Note : For the best result, before the operation, clean the surface of the fingerprint sensor, and then do the calibration keeping off the external light or in the darkroom.

19) Open the Door



➤ Note : This function can be open the door directly.

User Verification (Fingerprint/Card/Password)

The device is in the user verification mode from power on, the user can do the verification and open the door.



➤ Note : When the user pressed 8 digits in the password verification, the password is automatically accepted. Otherwise, '#' must be pressed to finish the input. By default, password "88888888" is available, and the manager must be change the default password, (See Menu 5)

Wiegand In

Wiegand 26 and wiegand 34 are supported and detected automatically.

Wiegand Out

User ID is outputted in wiegand 34.

When verified by password, 0 is outputted.

Notes1:

USB Flash Disk Management & Details:

In order to manage personnel management well, backup fingerprint, RFID card data,, after finished input all employees info, we have to USB flash disk management as below: Please insert USB flash disk on the device and enter menu to select '3'(USB flash disk management)---Select 1(Synchronize User database). access control device and USB disk exchange personnel info syn.

If first time to use USB flash disk to sync user info, please download "UserInfo.xls" to add/delete user info. As below: (Notes: please use OFFICE-EXCEL to open or edit this excel. If use WPS to edit this EXCEL, when sync info in device, it will be met error or data is wrong.

User Information							
UserID	Name	Dept	Fp	Card	Pwd	DeviceID	Remark
1	May	Sales	1			1	
2	Jane	HR	1			2	
3	Sam	Tech	1			1	
4	Victor	Support	2			1	
5	Ivy	Production	1			1	

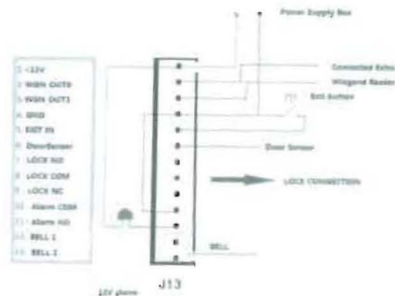
When we open the excel report to edit, Please input user name, dept, device ID. If we used multi-device, we must input device ID. and Please sync info, as below:

User Information

UserID ^a	Name	Dept.	Fp	Card	Pwd	DeviceID ^b	Remark
1	May	Sales	2			1	
2	James	HR	1			1	
3	Sam	Tech	1			1	
4	Victoria	Service	2			1,2,3,4,5,6,7,8	
5	Ivy	Production	1			1	
Every user can be enrolled onto 10 devices at most. ex: "1" or "1, 2, 5", ""(all)							

If we accidentally deleted the personnel in the machine, you can use this report to synchronize and backup this report.

Access Control Connection Details as below:



● Connector Note

J8



1.5mm pitch/13pin

Pin	Name	I/O	Description
1	12V	—	12V Power
2	WGN-OUT0	O	Wiegand Output
3	WGN-OUT1	O	Wiegand Output
4	GND	—	GND
5	EXIT-IN	I	Exit button input signal.
6	Door-sensor	I	Door_sensor input signal
7	NO		Lock relay's N.O(normal open) terminal.
8	COM		Lock relay's COM(common) terminal.

Pin	Name	I/O	Description
9	NC		Lock relay's N.C(normal close) terminal.
10	BELL COM (Alarm COM)		Bell relay's COM(common) terminal.
11	BELL NO (Alarm NO)		Bell relay's N.O(normal open) terminal.
12	BELL1		This pin is directly connected to KEY13 button
13	BELL2		This pin is directly connected to KEY13 button

-J3 (internal Wiegand Input)



1.25mm pitch /4pin

J3 is the interface of external card reader module.

This module supports wiiwand26/34.

Pin	Name	I/O	Description
1	+5V	Power	+5V Power supply to card reader.
2	WGNIN1	I	Wiegand input1. Internally pull up.
3	WGNIN0	I	Wiegand input0. Internally pull up.
4	GND	-	Ground.

*** The end ***