



Realand Bio Co., LTD.

Fingerprint Access Control Product

Hardware User Manual M-F151

Date: June 2013

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1 Notice for using

Thanks for purchasing our Fingerprint Time Attendance Terminal. Please refer to this user manual carefully before using, which helps you improve the efficiency of using this product.

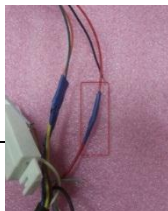
1.1 Operating environment

- Avoid installing the Access Control Device at places where irradiated by strong light directly. The strong light affects the collecting of fingerprints which would lead to the failure of the fingerprint authentication.
- The operating temperature of Access Control Device is 0°C–60°C. Avoid the long-term outdoor usage of the terminal. The normal working of the Access Control Device will be affected by the long term outdoor usage. If it is necessary to use outdoor, the sunshade and cooling equipment are recommended in summer and warm keeping facility is recommended in winter to protect the Access Control Device.

1.2 Note for Installation

Please go through the installation manual before the install the device. The correct installation method will lead you finish the successful installation in a short time. If install in a incorrect way, it will damage the device.

1. Make sure your power supply is on “OFF” status. Else it may damage the device or the core part of the device if you turn on the power during the installation.
2. For all the connection cable, the core should not be exposed for longer than 5MM. It's better to use the insulating tape on the connection area, and use different color cable to differentiate the cables. Refer to the following picture:



3. When installing in electrostatic environment or dry weather, Please connect the GND cable first to avoid the device damage from excessive static electricity.
4. **Please connect the power cable after connecting all other cables.** When you found that the device cannot work normally, please cut off the power and check all the connection. Note: all wiring operation with live may lead to damage the device. Warranty does not apply under this damage.
5. It's recommended to install the device on height of 1.4 – 1.5Meter.
6. Please make sure someone is outside the door during you testing the door opening function to avoid any accident that you cannot open the door.
7. It's recommended to use the 12V/2A power supply for this access control device. PS: it's recommended to use the 2A/12V DC door lock. If the electric lock spec is lower than this spec, please consult the engineer. If the power supply does not meet the above requirement, the lock may not be active normally.

Please strictly follow the “installation manual” to install the device. Otherwise, any device damage coz the incorrect wiring is not under the warranty.
9. If the power supply is far from the device, please do not use the Ethernet Cable to connect the power supply and the device. During installation, please do not install the power supply far from the access control device, otherwise, the long transmission distance might cause the voltage attenuation.
10. (Optional) when use the RS485 connection, please use the professional 485 communication cable and the active converter RS485 with bus structure wiring. When the RS485 transmission distance is longer than 100 meter, need to add a matching resistance at the beginning terminal and the end terminal of the RS485 Bus. (R is around 120Ω.)
11. Please refer to the installation manual for more details.

Chapter 2 Quick Reference



Picture 1 Fingerprint Time Attendance & Access Control





2.1 Key Button

Keypad Layout as below picture:

F1	F2	F3	F4
1	2	3	ESC
4	5	6	MENU
7	8	9	▲
⊙	0	OK	▼

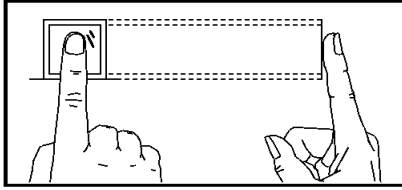


Keypad description as below picture:

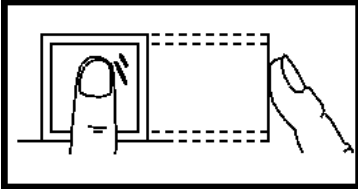
- ESC Exit or cancel when in Menu
- MENU Enter to MENU
- OK Confirm option
-  Turn on / Turn off device
-  Page Up
-  Page Down
- 0...9 Number, enter the number when operate or
select menu.
- F1 Clock In
- F2 Clock Out
- F3 OT In
- F4 OT Out
-  Door Bell

2.2 Description of Pressing Fingerprint

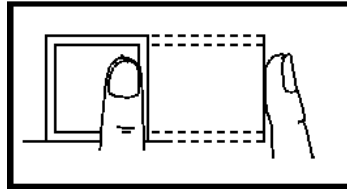
Correct pressing method: Press with your finger right on the fingerprint collecting window, with the fingerprint's center aligning to the center of the gathering window as much as possible. Finger pressing method is shown as follows:



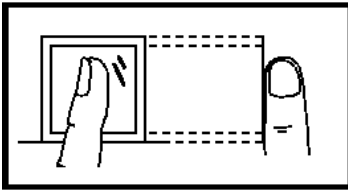
Correct



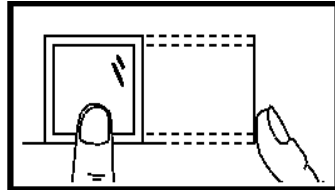
Too perpendicular



Too Defective



Tilting



Too Low

2.3 Menu

When the device is in standby status, press [MENU] key to the main Menu. If you need operate specific item, you can press the function key and number key directly so that you could select the menu and enter the number ect operations quickly.

[Main menu]

Include 6 items:

1.User, 2.LogData, 3.U-Disk, 4.Setting, 5.ACS, 6.About. As the following:

These six menu include second level menu and third level menu, some even have forth level menu for operating corresponding function.



➤ User Management:

Two submenu are:【Enroll】 &【Delete】, you can enroll or delete fingerprint, password and card for the employee. And you can set the admin to allow whom could enter the device MENU.

➤ Log Data:

Five submenu are: 【View Log】 , 【Log Setup】 , 【Message】、【Log Info】、【t Segment】 .

You can check record, setup device and setup notification and so on. More details please refer to Chapter 4.

➤ U Disk

Two submenu are: **【Download】** & **【Upload】** . With these two functions, you can backup and restore data. More details please refer to Chapter 5.

➤ Setting:

Six submenu are: **【System】**, **【Comm.】**, **【Sensor】**, **【Alarm】**, **【Power】**, **【S-Test】** .

➤ ASC:


Six submenu are: **【D-Lock】**, **【User Control】**, **【Hi Jack】**, **【p Segment】**, **【p Group】**, **【p Zone】** .

➤ About:

From these menu, you can check S/N, manufacture date, the version of the soft and engine, number of the fingerprint and log for the device.

2.4 Basic Operation

Power On

Connect the device to power cord, then press  Button(the device is defaulted Auto Power On, you can setup No for Auto Power On), the LCD shows the power on interface accompanying with a long music.

 **Note: This Fingerprint Door Opener applies 12V D/C power.**

Menu

Press **【MENU】** button to main menu, you can then select to enter **【User】**, **【Log Data】**, **【U Disk】**, **【Setting】**, **【ASC】** & **【About】** Menu.

Note:

- ☑ If the device has been registered admin, user need to be validated when enter to main menu.
- ☑ If user could not enter to main menu, the device should be connected to software and cancelled the admin privilege. *(Two methods for removing privilege, please refer to details from Chapter 9.)*

➤ **User**

In the main menu, scroll down **【▼】**to select [User] menu and press [OK] to enter(or key in 1 to enter directly). It contains two submenu [Enroll] & [Delete], you can enroll or delete fingerprint, card number and password accordingly.

In the [Enroll] menu, you can register [User ID], [Name], [Role], [Notes]. After logging above information, you can select to register fingerprint, password, card, fingerprint + password & fingerprint + card.

In the [Delete] menu, you can enter User ID to delete registration. If the device is setup admin privilege, only admin can delete registration.

Please refer to Chapter 4 for further details.

➤ **Log Data**

In the main menu, select [Log Data] by pressing [OK] button. It contains six submenu, **【View Log】**, **【Log Setup】**, **【Message】**, **【Log Info】**, **【t Segment】**.

Two methods to enter [Log Data] menu:

- 1> In the main menu, key in 2 ;

2> In the main menu, press **【▼】** button to select [Log Data] then press [OK] button.

Six submenus as follows after entering [Log Data]:

【View Log】: Can query access or manage log by entering the User ID or fingerprint verification.

【Log Setup】: Can setup numbers for SLog warning and GLog warning, time(min.) for re-verifying and delete GLog, Slog and enrollment.

【Message】 : Can setup 10 group of notice message with specific time and content, when reach the specific time, the device will notify with sound & content display accordingly. Can upload notice message by software as well.

【Log Info】 : Can query the numbers of all records of the device.

【t Segment】 : Can set 24 different duty time for the attendance, such as: 08:00-12:00 (Duty On); 13:00-17:00 (Duty Off).

➤ **U Disk**

In the main menu, press 3 directly or scroll down to select [U Disk] by pressing OK, then enter this menu, and two below submenus display.

Download】 and **【Upload】**

【Download】 Can download New Glog, Historic Glog, New Slog, Historic Slog, All Enroll Info, Personnel Enroll Info, Sound.

【Upload】 Can upload All Enroll Info, Personnel Enroll Info, Sound, Settings and upgrade Firmware.

➤ **Setting**

In the main menu, press 4 directly or scroll down to select [U Disk] by pressing OK, then enter this menu, and below six submenus appear.

【System】: Can setup display language, UI-Themes, Date & Time, Date Format, Volume Level, Admin, User ID Length, Verify Mode and Initiate Device.

【Comm.】: Can set Device ID, Comm. Key, Port No., IP Address, Subnet Mask, Default Gateway, Sever IP, Sever Port No., RS485 Com, Baud Rate & Glog RT Push.

【Sensor】: Can auto fingerprint learning and bright adjusting.

【Alarm】: Can set 24 groups time bells.

【Power】: Can set Auto Return Time, Power Off Time, Auto Off, Standby Time(min.), Alarm in Standby, Auto Power On & Enable Shut Down.

【S-Test】: Can check Sensor, RFID, LCD, Sound, Keyboard working well or not.

➤ **ACS**

In the main menu, press 5 directly or scroll down to select [ACS] by pressing OK, then enter this menu, and below six submenus appear.

【D-Lock】: Door lock settings.

【User Ctrl】: User-specific setting.

【Hijack】 Settings for the hijack.

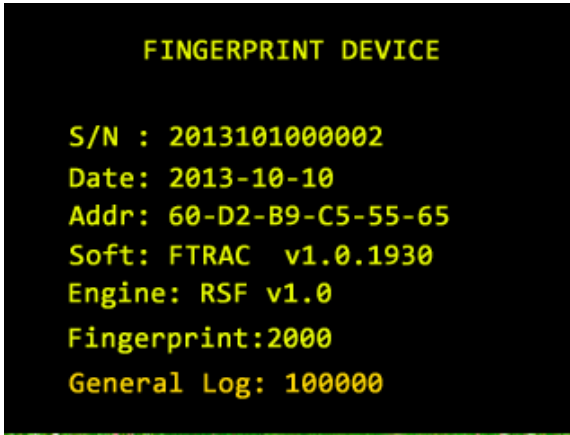
【PSegment】 Duty time for pass through.

【PGroup】 Group time for pass through

【PZone】 Zone time for pass through.

➤ **About(System Info.)**

In the main menu, press 6 directly or scroll down to select [About] by pressing OK, then enter this menu as follows.



NOTE: Fingerprint: For some models, standard is 1000. Some is 2000. Different models, different fingerprint capacity.

Chapter 3 User Management

When device in homepage window, press **【MENU】** to enter the device MENU (if you've set the admin to the device, need get through the admin verification first.):



Operation: Press 1 or scroll ▼ keys to select [User] and press [OK] button, then enter to the menu. Two second-level menus are [Enroll] & [Delete] as below.



3.1 Enroll User

5 validation modes for the Access Control Device: Fingerprint, Password, RFID Card, Fingerprint + Password, Fingerprint + RFID card.

Every employee can enroll one User ID only. The User ID is the unique marking for the employee. The User ID from the Device and Software, must be consistent.

Fingerprint Enroll

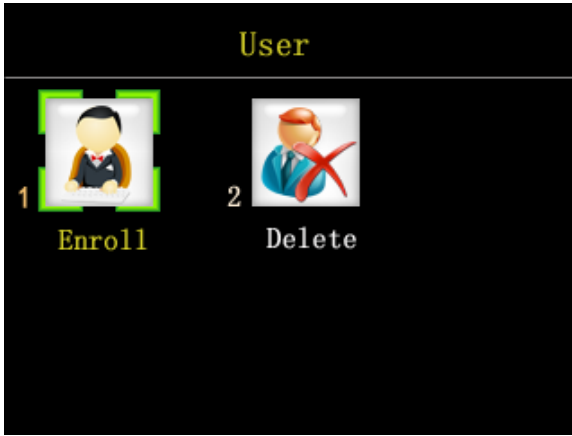


Steps:

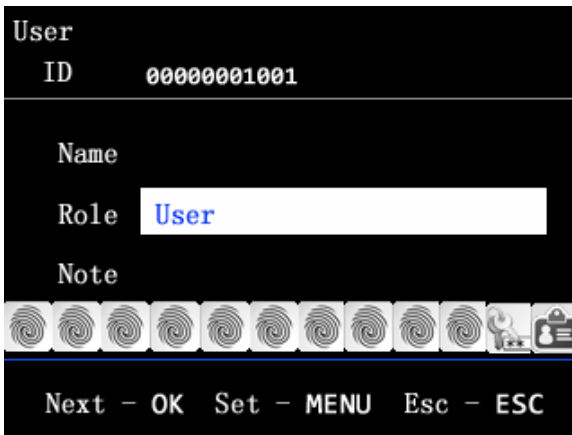


Refer to the following details:

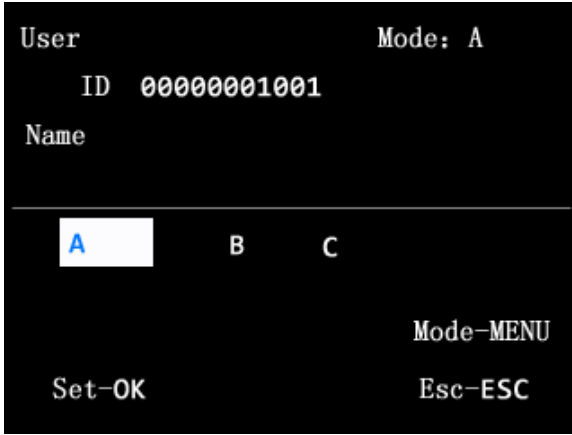
1. Enter the User window.



2. Press 1 or scroll down to select [Enroll], enter to [User].



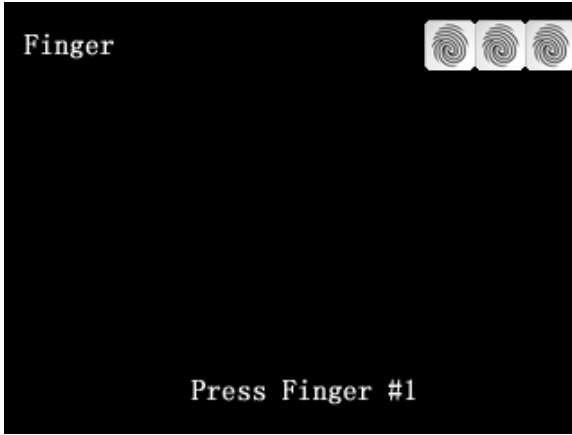
3. Press the number key to enter number, then press [OK] button to complete the input. Press **▲** **▼** key to select **Name** **Role** **Notes** enrollment, press **MENU** button to enter those interfaces and register information. Such as enroll **Name** , see below illustration.



4. Press **【OK】** button to complete the input and save. Press **【OK】** button again to select validation mode. See below.



5. Press 1 or press **【▲】【▼】** button to select **【Finger】**. Press the same finger on the sensor for 3 times. After the device prompts the “Beep Beep Beep” sound, the device auto save the enrolled info. See below picture.

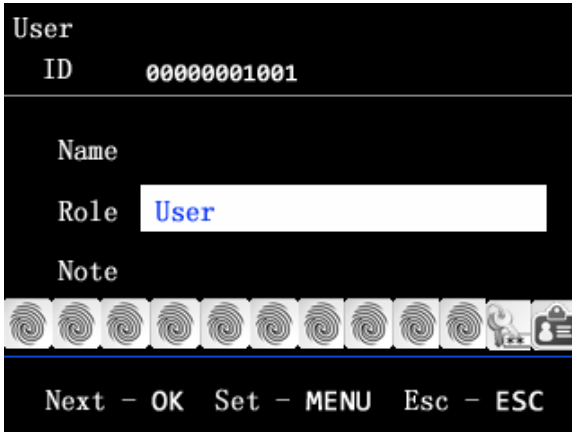


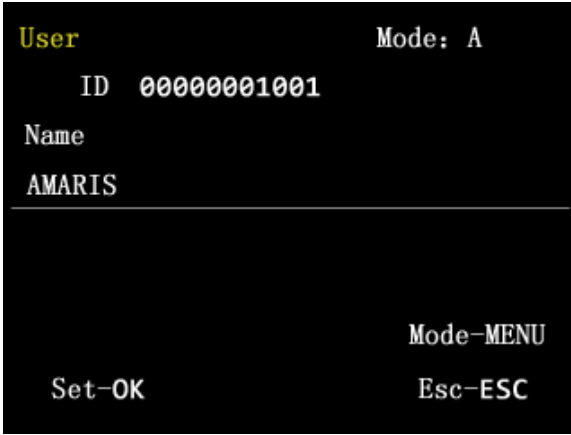
6. If need register more finger for this user, press **【OK】** button again and repeat operation of 5. for registering the 2nd and 3rd finger. If need register other validation mode, press **【ESC】** button to exit to interface and operation of 4., like following screen.



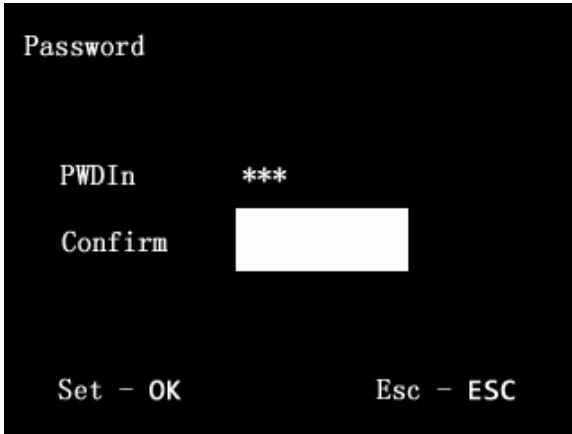
Password Enroll

Same step as 1-4 of above Finger enroll. Same step as 1-4 of above Finger enroll.
See below screens of these 4 steps.



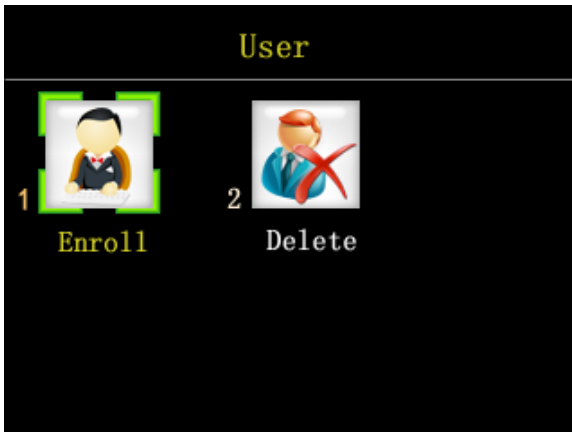


5. Press **【2】** key or press **【▲】【▼】** button to select **【Password】** enroll. Then input numbers for the password setting, and press **【OK】** button to confirm and repeat input the numbers. Finally, press **【OK】** button to save. See below picture.



Card Enroll

Same step as 1-4 of above Finger enroll. See below screens of these 4 steps.




User

ID 00000001001

Name

Role

Note



Next - OK Set - MENU Esc - ESC

User Mode: A

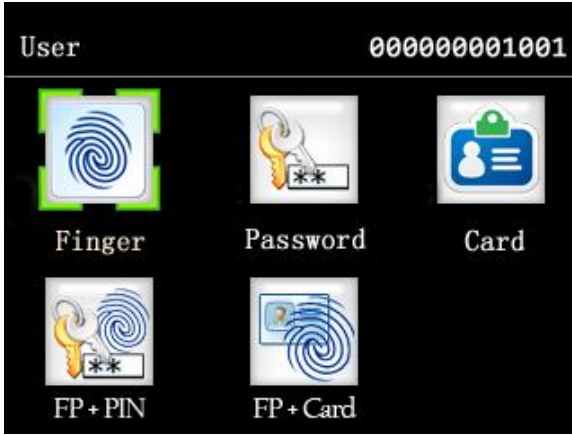
ID 00000001001

Name

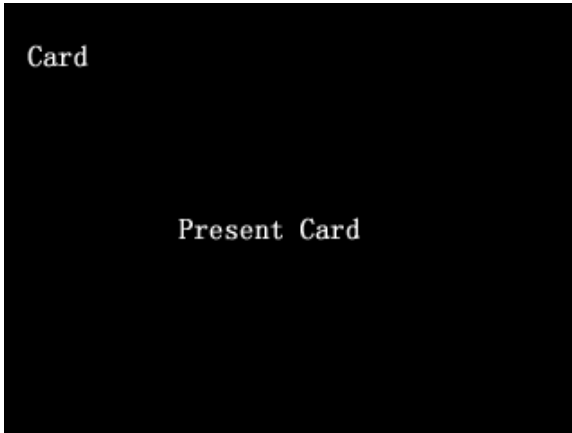
AMARIS

Set-OK Mode-MENU

Esc-ESC



5. Press **【3】** key or press **【▲】【▼】** button to select **【Card】** enroll. Put the card on the sensing area, the device detects the card and shows card number, when the device plays DDD sound, means the device saves the card automatically. See below screen.



 **Notes:**

☞ If you don't enroll any admin to the device, so anybody could enter the device MENU to change the settings. If you've enroll the admin to the device, only admin could enter the MENU after get through the admin validation.

☞ [Manager] has the highest authority, you can operate all functions of the device MENU.

☞ **【Log Query】** can only enter the MENU – Log Data menu (including check the attendance logs and delete the attendance logs) and [Device Information].

☞ **【Registrar】** can only enter the MENU – User to enroll new user and delete the user info.

When query enrolled user ID, you only need to input the latest non-zero number(s). E.g., ID 0000000050, you can just key in “50”. In addition, you can go through the validation mode to enter the user ID.

FP+ Password Enroll

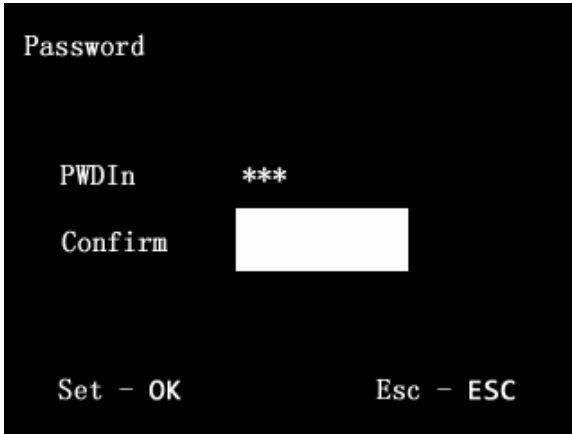
Step 1-5 are same as Fingerprint Enroll. See below screens of these 5 steps.





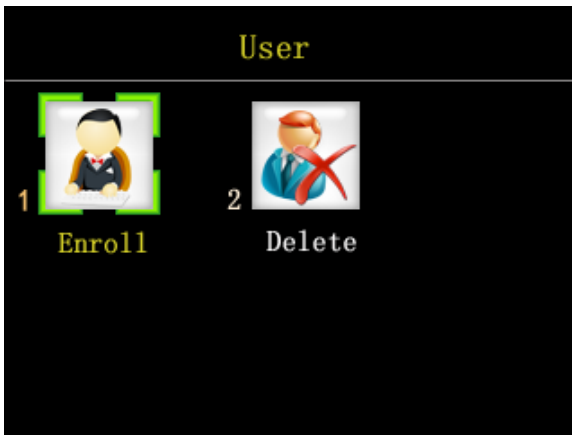
6. After registering fingerprint successfully, press **【ESC】** button, then the device switches to “Password Input”. (If press **【OK】** button after registering the first fingerprint, means continues to register more fingerprint. Details operation please refer to Chapter4).

Screen for Password Input as follows:




Fingerprint + Card Enroll

Same step as 1- 5 of above Finger enroll. Same step as 1-5 of above Finger enroll. Please see below screens of these 5 steps.



User
ID 00000001001

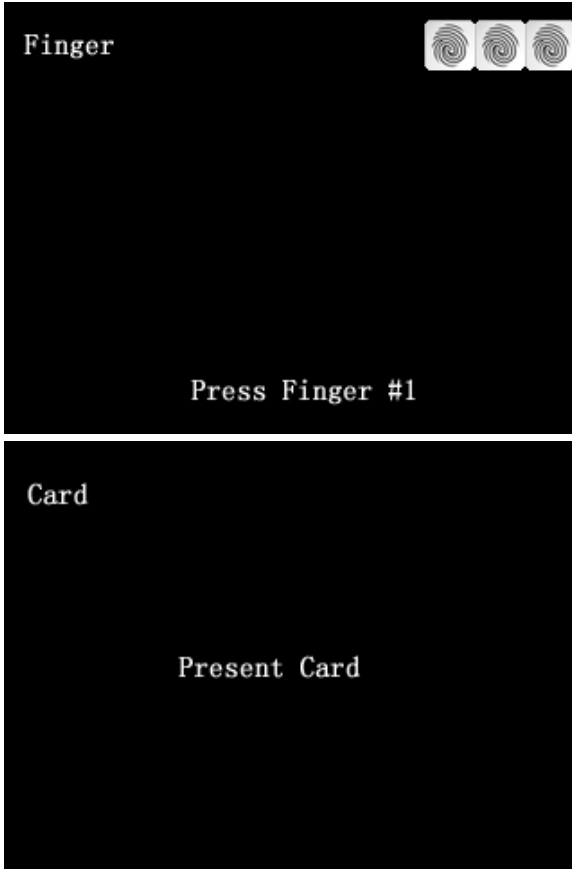
Name
Role
Note



Next - OK Set - MENU Esc - ESC

User Mode: A
ID 00000001001
Name
AMARIS

Set-OK Mode-MENU
Esc-ESC



6. After registering fingerprint successfully, press **【ESC】** button, then device prompts “ present card”. (If press **【OK】** button after registering the first fingerprint, means continues to register more fingerprint. Details operation please refer to [Chapter 4](#)).

Put the card on the sensing area, the device detects the card and shows card number, when the device plays DDD sound, means the device saves the card automatically. See below screen.



3.2. Delete Enroll

Tips: the Access Control Device has the max capacity for the fingerprint enrollment. When it comes to the max, there's a warning from the device. When the employee resigns, please delete his/her enroll info.

Follow below steps to operate the [Delete].



Get the User ID you need to delete by “validation” or press the number key, click the **【OK】** → **【OK】** to confirm the delete.

3.3 User Authentication

➤ Fingerprint verify

Verify the fingerprint in 1:N mode. Press the finger on the sensor directly and correctly.

When verify successfully, device voices prompt “Thank you”. And display “Verify OK” on LCD. If fail, it prompts “Press again” by display and voice at the same time.

➤ Password verify

In the homepage window, press number key to enter the ID number and press **【OK】** button, then input the password and press **【OK】** button to confirm.

When verify successfully, device voices prompt “Thank you”. And display “Verify OK” on LCD. If fail, it prompts “Incorrect Password” by display and voice at the same time.

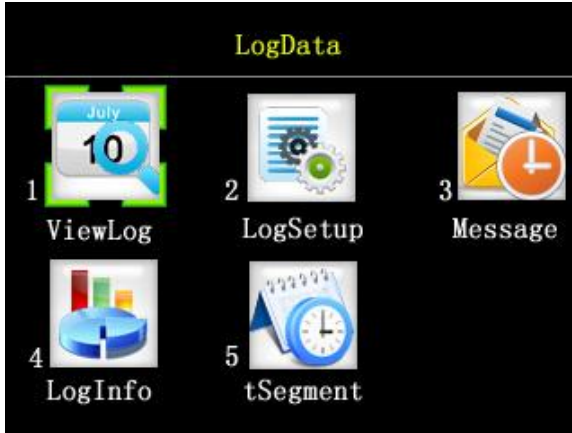
➤ Card verify

Present card on the Card induction area.

When verify successfully, device voices prompt “Thank you”. And display “Verify OK” on LCD. If fail, it prompts “Invalid card” by display and voice at the same time.

4 Chapter 4 Log Data

When device in homepage window, press **【MENU】** enter the device MENU (if you've set the admin to the device, need get through the admin verification first.),
→ **【Log Data】** :



4.1. View Log (Query Log)






➤ View GLog (check attendance logs)

【View GLog】 → 【OK】 → Enter the User ID in the window → 【OK】 to confirm.



➤ View Slog

【View SLog】 → 【OK】 → Enter the User ID in the window → 【OK】 to confirm.

 **Slog:** is the records of people that enter the MENU and record of the MENU operation. Each time, the admin enter the MENU, and change the settings, it will keep a record of this operation.

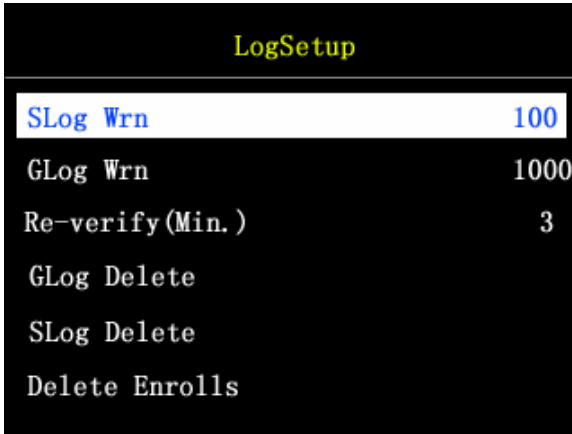
Form 1 Description for the Slog

Item	Description	Item	Description
V-F	Fingerprint verify	CI	Clock In
V-P	Password verify	CO	Clock Out
V-FP	FP+ RFID Password verify	OI	Over time IN
V-C	RFID Card verify	OO	Over time OUT
V-FC	FP + Card verify	O	OUT
V-FPC	FP+ Password+ ID Card Verify	I	BACK
AA	Duress verify	U1	Definition 1
N	Attend	U2	Definition 2

Form 2 Description for GLog

Item	Description	Item	Description
E_U	Enroll user	D_GL	Delete Glog
E_SM	Enroll super admin.	D_SL	Delete admin log
E_EM	Enroll registrar	D_EL	Delete all enroll
E_VM	Enroll log query	S_S	System setting
E_DF	Delete fingerprint	S_T	Time setting
E_DC	Delete card	S_L	Log setting
E_DP	Delete password	S_C	Comm. setting

4.2. Log Setup



Log Setup description

Item	Description
Slog wrn (admin. Log warning)	Admin log capacity is 1000, when it rest 100, and admin enter the MENU, device will prompt “Slog overflow”. The Slog Wrn is defaulted to “100”, we can press 【OK】 to change it.
Glog wrn (attendance log warning)	Attendance record capacity is 50,000. When it rest 1000, and employee verify, it will prompt “GLog overflow”. The “GLog wrn” is defaulted to “1000”. We can press 【OK】 to change it.
RE-verify (min.)	Interval time for the same User ID to take the attendance. It’s defaulted to 3mins. Max is 255mins. If we set it to 3mins, that means we cannot take the attendance more than 1 time in 3 mins.

GLog Delete	Delete all attendance records in the device. Please backup the data by USB flash drive or software first, before you delete them.
Slog Delete	Delete all the admin MENU operation records.
Delete Enrolls	Delete all the enroll info on the device, including the fingerprint, RFID card no, etc.

4.3. Message



Select the message group by pressing the **【▲】【▼】** button. See below picture.

Message			
01.	2012/01/01	00: 00	NO
02.	2012/01/01	00: 00	NO
03.	2012/01/01	00: 00	NO
04.	2012/01/01	00: 00	NO
05.	2012/01/01	00: 00	NO
06.	2012/01/01	00: 00	NO
07.	2012/01/01	00: 00	NO

Press **【▲】** or **【▼】** button to select the message, then press **【OK】** button to confirm the revision. Then key the numbers button or press **【▲】【▼】** to revise, press **【OK】** button to confirm the change. After setting the message, you need press **【⊙】** button to and press **【ESC】**, the setting is saved then.

Message		No. 01
Content	<input type="text"/>	
Begin	2012/01/01	00: 00
End	2012/01/01	00: 00
Enable	NO	
Sound	Default	
Target	All	

4.1 Log Info



Log Info	
User	68
Admin	1
Fingerprint	68
Password	68
RFID Card	68
G_Log	88

- User: user amount that already enrolled in the device.
- Admin: admin amount that already enrolled in device.
- Fingerprint: fingerprint amount that already enrolled in device.

- RFID card: RFID card amount that already enrolled in device.
- GLog: attendance records that stored in the device.
- Slog: admin menu operation log amount.

4.2 T Segment

tSegment (Clock in/clock out status on homepage) it is the setting for the device auto change the status Clock in, Clock out, overtime in, overtime out, etc. status on the homepage. And this status will be along with the attendance records on the software report.

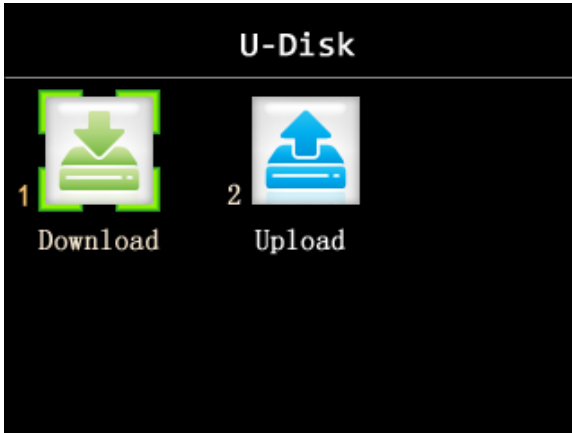
Press ▲、▼ keys or dial in number to select the item and press **【OK】** to change the status according to your requirement → press **【OK】** to esc the settings. Device will auto save the settings.

For example: when I set it to 8:00-9:00 CLK-IN, the device homepage will shows “CLK-IN” during 8:00-9:00.

tSegment	
Time	Status
01 00:00-00:00	ClockIn
02 00:00-00:00	ClockIn
03 00:00-00:00	ClockIn
04 00:00-00:00	ClockIn
05 00:00-00:00	ClockIn

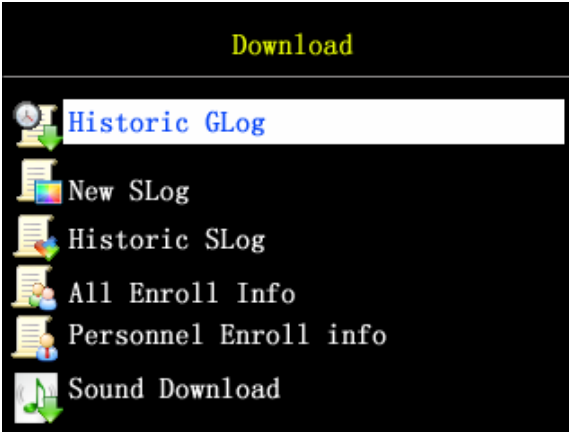
Chapter 5 U Disk

When device in homepage window, press the **【MENU】** to enter the device MENU (if you've set the admin to the device, need get through the admin verify first.) → **【U-Disk】** :



5.1 Download:

Plug the USB flash drive to the device → U-Disk → download:



➤ New GLog

Download the new attendance records that have never been download before. When finish downloading, there's a "LogData" folder on your USB flash drive. And in this folder, there's a file "NewGlog_0001_20130216110320.csv". the file name would be changed according to different date.

➤ Historic GLog

Download all the attendance records that stored in the device. When finish downloading, there's a "LogData" folder on your USB flash drive. And in this folder, there's a file "HisGLog_0001_20130216.csv". the file name would be changed according to different date.

➤ NEW Slog

Download the new admin menu operation logs that never been downloaded before. Download the latest management records, When finish downloading, there's a "LogData" folder on your USB flash drive. And in this folder, there's a file "NewSlog_0001_20130216110320.csv". the file name would be changed according to different date.

➤ Historic Slog

Download all the admin menu operation logs that stored in the device. When finish downloading, there's a "LogData" folder on your USB flash drive. And in this folder, there's a file "HisSLog_0001_20130216.csv". the file name would be changed according to different.

➤ All Enroll Info

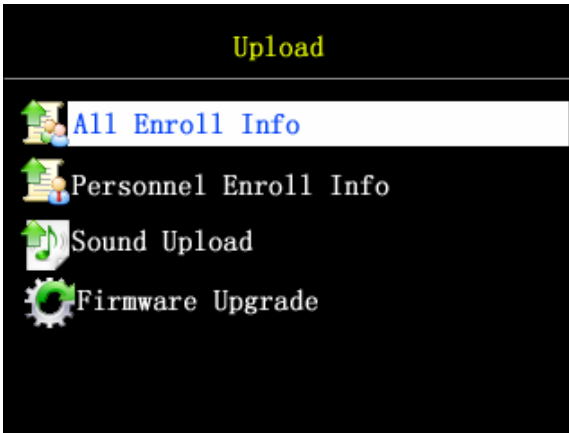
Download all the enroll info on the device, including the fingerprint, RFID card no., etc. When finish downloading, there's a "UserData" folder on your USB flash drive. And in this folder, there's a file "AllEnrollData.fps".

➤ Personnel enroll info

Download personnel enroll info. For example, Amaris 00000000001, after downloading Amaris's enroll info, there's a "UserData" folder on your USB flash drive. And in this folder, there's a file "OD_000000000000000001.db".

5.2 Upload

Plug the USB flash drive to the device → U-Disk → upload:



➤ All Enroll Info

Upload the enroll info data on the USB flash drive to the Access Control device.

➤ Personnel Enroll Info


Upload someone's enroll info from the USB Flash Drive to the Access Control device. After upload successfully, the device LCD will display his/her User ID. For example, 00000000001, it upload USER=1 enroll info..

➤ Sound Upload

Upload the sound from the USB Flash Drive to the Access Control device.


➤ Upload Settings

Upload the settings from the USB Flash Drive to the Access Control device.

 Note: It may cause damage with this operation, be carefully to use this function.

➤ Firmware Upgrade

Upgrade the firmware to the device via the USB Flash drive. Before upgrade, please backup the enroll info and attendance records of the device. This action may cause the device clear up all the info on the device.

 Note: there's risk for upgrade the firmware. If you are not profession, it's suggested not to upgrade the firmware. During upgrade, you must keep the device energized – power on, cannot enter the MENU, cannot plug off the USB Flash drive before finish the upgrade. Else, it would damage the device and may cause the device could not power on.

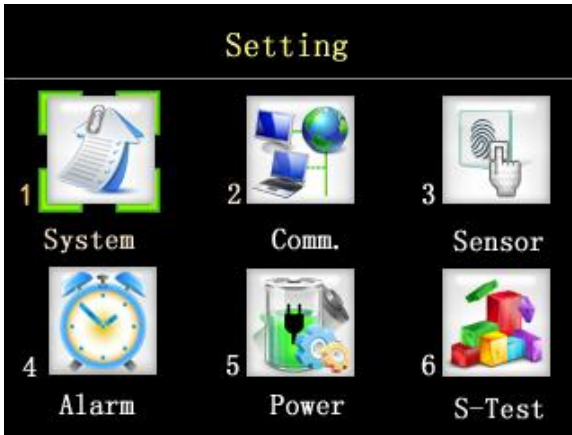
5.3 Download/Upload the data by the Attendance Management Software

Details please refer to user manual of the Attendance Management Software

Chapter 6 Setting

6.1 System

When device in homepage window, press the **【MENU】** enter the device MENU (if you've set the admin to the device, need get through the admin verify first.), → **Setting】** → **【Setting】** :



NOTE: Press ▲ or ▼ keys to select the item, and press **【OK】** to enter the setting window.

➤ Language

Form 3 LCD display Language Setting


Item	Description
language	Set device LCD display language
Defaulted	English


➤ UI-theme (optional)

System	
Language	English
UI-Themes	
Date & Time	
Date Format	YMD
Lunar Calendar	NO
Volume level	6

Form 4 UI- Themes settings Descriptions

UI-Theme settings	Descriptions
Background	There's defaulted to be 3 different background here. And it's defaulted to be the NO.2 background.
Time Font	There's defaulted to be 3 different time font. And it's defaulted to be the NO.3 font.(the time showing on the home page of the LCD)
Set main title	Set the title of the LCD homepage. It's defaulted to "Welcome" on the top left corner of the LCD homepage.
Set standby title	Set the title of the standby page.
Main title color	Set the color for the LCD homepage title by modifying the RGB color value. (that is change the color of the "Welcome" color)
Time color	Set the color for the time (hour and minute font color) by modifying the RGB color value. Such as, the time is 11:12:35 now, and this item will change the color for the 11:12

Second color	Set the color for the time (second font color) by modifying the RGB color value. Such as, the time is 11:12:35 now, and this item will change the color for the 35.
Date color	Set the color for the date (date font color) by modifying the RGB color value. Such as, the date is 2012/11/14 WED now, and this item will change the color for the 2012/11/14.
Week color	Set the color for the date (week font color) by modifying the RGB color value. Such as, the date is 2012/11/14 WED now, and this item will change the color for the WED.
Lunar color	The lunar item only defaulted for the Chinese devices. Others language are defaulted to NO.
Menu title color	Set the color for the title of the submenu by modifying the RGB color value.
Menu item color	Set the color for the item name of the submenu by modifying the RGB color value.
Checked color	<p>Set the color for the selected item. Example: we select "1.System", so the color is different from other items.</p> 
V-ID color	Set the color for the ID number when in attendance.
V-name color	Set the color for the employee name when in attendance.
V-message color	Set the color for the message. (Available for some models only.)

	<p>The message will show in the following window during attendance. for example “Happy Birthday!”, the defaulted color is blue.</p>  <p>The screenshot shows a blue background with a green hill and a house. Text includes: 'FP Verify' (top left), '11:37:26' (top right), '00000001001' (middle), 'AMARIS' (middle), 'Verify OK!' (on the hill), 'Smart Update' (yellow text), and 'HappyBirthday!' (bottom).</p>
Standby Bg-color	Set the standby background color.
Standby Font-color	Set the color for the font in standby background.

➤ Date & Time

Form 5 Date & Time Setting

Item	Description
Date & Time	Set the correct date and time according to your local time zone.

➤ Date format

Form 6 Time Format Setting Description Table

Item	Description
Time format	Set Time format : YMD, DMY,MDY.

Default	Y/M/D
---------	-------

➤ Volume Value

Form 7 Volume value setting

Item	Description
Volume value	Volume from 0-6
default	3

➤ Admin. amount

Table 8 Total amount for the admin

Item	Description
Admin.	Max amount for enroll the admin on device. Max:10
Default	5

➤ User ID Length

Form 10 User ID length

Item	Description
User ID Length	Set the User ID length, you could set from 1-18.
Default	11

➤ Verify mode

Table 11 Verify Mode

Item	Description
Verify mode	F / C: can use fingerprint or card for verify. F + C: must use fingerprint and card together. C: can use card verify only.
Default	Any (could be Fingerprint / Card)

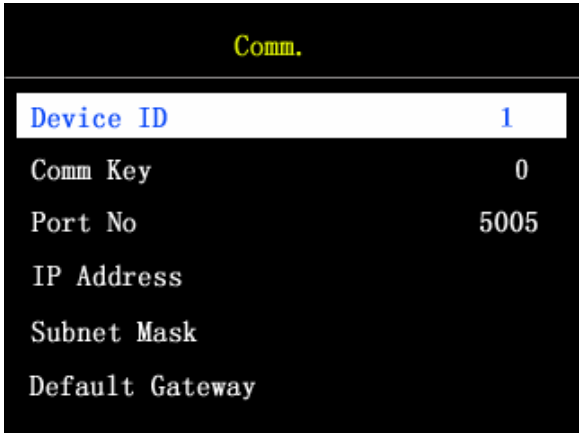
➤ Initial

Table 12 Initial device

Item	Description
------	-------------

Initial When initial the device, it will clear up all the data from device, including the enroll info and the attendance records.


6.2 **Comm.**When device in homepage window, press the **【MENU】** enter the device MENU (if you’ve set the admin to the device, need get through the admin verify first.), → **【Setting】** → **【Comm.】** :



➤ Device ID

Form No. 13 Device ID.

Item	Description
1~9999	Set fingerprint door openers identification number.
Default	1

 **Note:** Device ID is the unique mark for different Access Control Devices. When you need to connect your software to more than 1 device, the Device ID is the mark for different devices. And differentiate the data and records from different devices.

➤ Com. key

Form 14 Comm. Key setting


Item	Description
0~99999999	Set TCP / IP communication access password.

default	0 (means no password)
---------	-----------------------

- Port NO. (optional)

Form 15 TCP / IP port number settings


Item	Description
1~65534	Set device TCP / IP communication port.
Default	5500

 Note: when you connect software to the Access Control Device, need to put this port to the software connection setting. Else, it cannot connect successfully.

- IP address (optional)

Form 16 IP Address Setting

Item	Description
192.168.1.225	Set the IP address for TCP/IP communication
default	192.168.1.225

 Note: The IP address of device must be unique on your local LAN.

- subnet mask (optional)


Form 17 subnet mask Description Table

Item	Description
255.255.255.0	Set subnet mask for the TCP/IP communication.
default	255.255.255.0

- default gateway (optional)

Form 18 Default Gateway Setting

Item	Description
192.168.1.1	Set default gateway for the TCP/IP communication.
default	192.168.1.1

 Note: The subnet mask and default gateway must be corresponding to your local LAN subnet mask and default gateway.

- server IP(optional)

Form 19 servers IP Setting

Item	Description
192.168.1.083	Set the server IP address. when you need to use the UDP – real-time monitoring function, need to set your computer IP address to the “Server IP”. For example, my Computer IP is 192.168.1.160, and I need to connect software from my computer to the device, and use the UDP function, so I need set Server IP= 192.168.1.160. please refer to push technology
default	192.168.001.083

- server port (optional)

Item	Description
0~65534	Server port for TCP/IP communication
default	5055

- RS485(optional)

Form 20 RS485 communication setting

Item	Description
YES/NO	Enable RS485 or not
default	NO

- baud rate (optional)

Form 21 Baud Rate Setting

Item	Description
9600	Baud rate for TCP/IP communication
19200	Communication port baud rate is set to19200bps

38400	Communication port baud rate is set to38400bps
57600	Communication port baud rate is set to57600bps
115200	Communication port baud rate is set to115200bps
default	115200

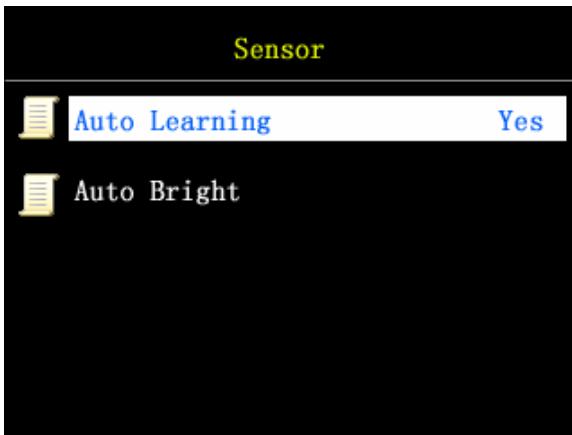
- GLog RT Push (optional)

Form 22 Live Upload Settings Description Table

Item	Description
RS485/UDP	Support real time upload or not
default	NO

6.3 Sensor

When device in homepage window, press the **【MENU】** enter the device MENU (if you've set the admin to the device, need get through the admin verify first.), → **【Setting】** → **【Sensor】** :



- Automatic learning

Form 23 sensor setting

Item	Description
YES	Device will auto refresh user's fingerprint to the latest.
default	YES

➤ Auto bright

When the Device is being using for a long time, and the sensor is not sensitive as beginning, we can use this sensor to adjust it.

6.4 Alarm

When device in homepage window, press the **【MENU】** enter the device MENU (if you've set the admin to the device, need get through the admin verify first.), → **【Setting】** → **【Alarm】** :

Alarm		
Time	Cycle	Delay
01. 00:00	Day	000
02. 00:00	Day	000
03. 00:00	Day	000
04. 00:00	Day	000
05. 00:00	Day	000

Timing bell Settings: set a time, and the device will ringing at that time.

Method 1 :

Select the group by the key ▲, ▼ and set the time according to your requirement.

For example, I set it Time=11:45 cycle=Day, Delay=005. So every day the device will ring for 5 seconds at 11:45.

Method 2 :

We could connect the device to the software and set it through the software:
 Device management – add device – device control – bell and set the time and
 upload to the device.

6.5 Power

When device in homepage window, press the **【MENU】** enter the device
 MENU (if you’ve set the admin to the device, need get through the admin verify
 first.), → **【Setting】** → **【Power】** :

Power	
Auto Return Time	20
Power Off Time	
Auto Off	No
Standby Time (Min.)	No
Alarm in Standby	Yes
Auto Power On	Yes

➤ Auto return time (seconds)

Item	Description
5~255	For example, we set it to 25 seconds. When you enter the MENU and 25seconds without any operation, the device will ESC the menu to the Homepage of the LCD automatically.
default	9

➤ Power off time

You could set 24 shutdown times.

For example, when you set it to 19:00, the device will shut down at 19:00 automatically.

➤ Auto off

Item	Description
0~255 (min)	When set it to 50mins, the device will turn off after turn on for 50minutes.
default	No

➤ Sleep Time (min)

Item	Description
0~255 (min.)	Set how many minutes after the door opener still goes to sleep
Factory setting	No

➤ Alarm in sleep mode

Item	Description
YES	When the device is on standby mode during the alarm time, enable the alarm or not?
default	Yes

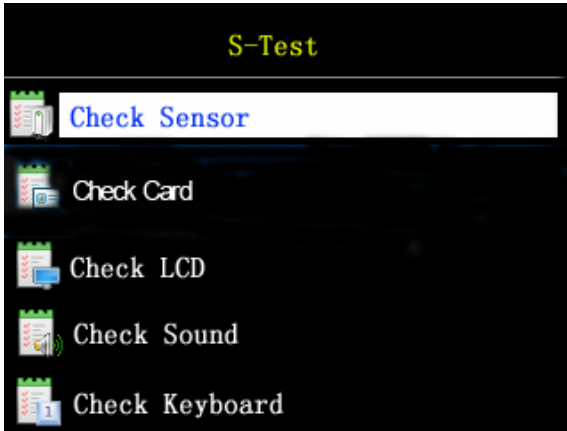
➤ Enable shutdown

Item	Description
Yes	Enable the power key or not? When you disable it, and people press the power key“ESC”, s/he cannot turn on the

	device.
default	yes

6.6 S-Test

When device in homepage window, press **【MENU】** to enter the device MENU (if you’ve set the admin to the device, need get through the admin verify first.),
 → **【Setting】** → **【S-test】** :



➤ **Check Sensor**

Move the cursor to the “Check Sensor” and press “OK” to check the sensor. Press the finger on the sensor according to the LCD tips. When there’s the fingerprint image on the LCD, that means the sensor works well.

➤ **Check Card**

Move the cursor to the “Check RFID Card” and press “OK” to check the RFID detection. Put the RFID card on the detection zone according to the LCD tips. When the RFID numbers shows on the LCD , that means the RFID function works well.

➤ Check LCD

Move the cursor to the “Check LCD” and press “OK” to check the LCD. Check the LCD color according to the tips. When all the color matches the LCD tips, that means the LCD works well.

➤ Check Sound

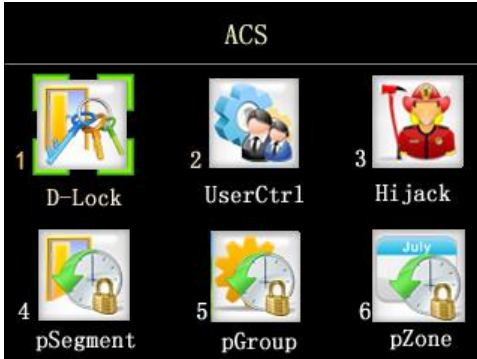
Move the cursor to the “Check Sound ” and press “OK” to check the sound. Check if there’s the sound comes out, if yes. That means the speaker works well.

➤ Check keyboard

Move the cursor to the “Check Keyboard” and press “OK” to check the keyboard. Press the keyboard according to the LCD tips.

Chapter 7 ACS

When device in homepage window, press **【MENU】** to enter the device MENU (if you've set the admin to the device, need get through the admin verify first.),
 → **【ACS】** :



7.1 D-Lock (door lock)

When device in homepage window, press the **【MENU/OK】** to enter the device MENU (if you've set the admin to the device, need get through the admin verify first.), → **【ACS】** → **【D-lock】** :

D-Lock	
Open Delay	5
Check Door Status	NO
Open overtime alarm	NO
Illegal open alarm	NO
Enable relay alarm	NO
Fire alarm	NO
Wiegand	34

D-Lock	
Auto. unlock1pGroup	No
2nd Lock	
Lock Control	
Linkage	
A. P. B	No
Mult-Open	No
Mult-Open Settings	

➤ Open delay

Item	Description
1-255	open delay(s) After this value, the device send a close door signal to the door.
No	Device sends out the close door signal immediately after sending out the open door signal.
default	5

➤ Check door status

Item	Description
YES	Detect door sensor status. (if need to set a time out alarm/ illegal open alarm, need to set "check door status" to "YES")
NO	Not detect door sensor status.
default	NO

➤ Open overtime alarm


Item	Description
1-255	Detect the door sensor status within the setting time. If the door sensor status is not same as the door sensor setting status, Device will send out a alarm signal. For example, if we set it to 5s, when door keep open for more than 5s, the device will send out an alarm. And the Alarm that connected to the "ALM0" and "ALM1" will be active.
No	No alarm signal.
default	No

➤ Illegal open alarm

Item	Description
1-255	Detect the door sensor status within the setting time. If the door sensor status is not same as the door sensor setting status, Device will send out a alarm signal. For example, if we set it to 1s, when door is opened illegally for 1s, the device will send out an alarm. And the Alarm that connected to the "ALM0" and "ALM1" will be active.
No	No alarm signal.
default	No

➤ Enable Relay Alarm

Item	Description
Yes	When set to [Yes], the timing bell will send to the connected external alarm which is connected to the “ALM0” and “ALM1”.
No	The timing bell can be ringing in the device speaker only. It cannot send the signal to the external alarm.
Factory setting	No

 Note: ALM0 & ALM1 can connect to one equipment only. For example: when this interface is connected to the Belling, the “Fire alarm” function will not be active. If you need connect to the fire alarm, please set the “external bell” to “NO

➤ Fire alarm

Item	Description
YES	Set to “YES”, and the interface “CTL1” connect to the fire alarm (low-level input). Device will open the door automatically and send out the signal to the alarm that connected to the “ALM0” and “ALM1”. <u>(NOTE: the open delay cannot set to “NO”)</u>
No	This function is disabled.
default	No

➤ Wiegand

Item	Description
26	Wiegand 26 signal on Wiegand 26 interface.
34	Wiegand 34 signal on Wiegand 34 interface.
66	Wiegand 66 signal on Wiegand 66 interface.
default	34


➤ Auto. unlock lock 1 pGroup

Description: After verifying, in the available passing through time, the Lock 1 will keep open / keep closed. Please refer to the installation manual for the NO/NC lock connection.

Item	Description
1—30	It's the pass through group
Default	No

➤ 2ND Lock

Item	Default	Option	Description
Open Door Delay	5	0—255	Time from unlock to lock
Enable Magnetic door Detect	No	Yes/No	Yes – Enable this function; No – Disable this function Remark: when this item is enable, open door overtime and illegal open are effective.
Open overtime alarm	No	Yes/No	Yes – Enable this function; Enable condition: door magnet detection is [Yes]. No – Disable this function.
Illegal Open Alarm	No	Yes/No	Yes – Enable this function; Enable condition: door magnet detection is [Yes]. No – Disable this function.
Auto. Unlock2 pGroup	No	0 - 30	Select the no. of pGroup. Remark: Inner lock2 in the pZone of the pGroup is normally closed/normally open.

 Note: When reader/slave connect to the AC terminal and need setup auto. control for lock2 by reader/slave, please refer to below summary for the operation and ensure the setting for AC terminal and the connection with the reader/slave correctly.

Setti	Reader/Slave	Reader/Slave	Reader/Slave	Reader/Slave
-------	--------------	--------------	--------------	--------------

ng	Input Wiegand group0 to unlock	Input Wiegand group1 to unlock	Input Wiegand group2 to unlock	Input Wiegand group3 to unlock
master	Lock2: slave and AC terminal unlock	Lock2: AC terminal unlock		
	Lock1:Slave/AC terminal unlock	Lock1: AC terminal unlock		
Slave	Lock2: No	Lock2: Slave unlock		
	Lock1:Slave/AC terminal unlock	Lock1: AC terminal unlock		
Master/Slave	Lock2:Slave/AC terminal unlock	Lock2:Slave/AC terminal unlock		
	Lock1:Slave/AC terminal unlock	Lock1: AC terminal unlock		
Summary:	Wiegand group0 and lock1:Slave and AC terminal both could unlock	Wiegand group1-3 and lock1: AC terminal could unlock		
	Wiegand group0 and lock2: Lock2 as "Slave": invalid; Lock2 as "Master": Slave and AC terminal both could unlock	Wiegand group1-3 and lock2: Lock2 as "Master": AC terminal could unlock; Lock2 as "Slave": Slave could unlock		

➤ Lock control

Item	Description
status	Displays the current state of the lock settings
Lock control	Default to " master" (" slave " invalid, do not set)
NO	Normally open
NC	Normally closed
Normal	Normal status

➤ Linkage

	Content	Description
Open Door	Master	When AC terminal as [Master], port CTL2 connect the device of linkage signal (with low level),the AC terminal enable lock port COM1/NC1/NO1. Remark: Open overtime could not set as NO.
	Slave	When AC terminal as [Master], port CTL2 connect the device of linkage signal (with low level),the AC terminal enable lock port COM2/NC2/NO2. Remark: Open overtime could not set as NO.
	Master/Slave	When AC terminal as [Master/Slave], port CTL2 connect the device of linkage signal(with low level),the AC terminal enable lock port COM1/NC1/NO1 and COM2/NC2/NO2 at the same time. Remark: Open overtime could not set as NO.
	(factory default):No	Disable the function
Alarm	Master	Connect to ALM10/ALM11 for output alarm
	Slave	Connect to ALM20/ALM21 for output alarm
	Master/Slave	Port ALM10/ALM11 and port ALM20/ALM21 output alarm at the same time
	(factory default):No	Disable the function

➤ Anti-Pass Back

Content	Description
Master	AC terminal (call A in below) as Master, connect to another AC terminal/reader(call B in below) which is as Slave. Then the lock only can be released by one to one validation. Relationship between A and B: A validate to unlock → B validate to unlock →A → B. Once A validate to unlock, B does not validate for unlock, then A could not validate next time.

Slave	Set AC terminal as Slave and as B.
No	Disable this function
Factory Default	No

➤ Multi-Open

Content	Description
Yes	Enable this function
Factory Default	No

➤ Multi-Open Setting

Content	Range	Description
00	000-999	See detail in below brief description
...	...	
09	000-999	See detail in below brief description
Factory Default	000(for all)	Disable this function



Brief Description:

- a) Lock total have 10 combinations, from 0 to 9.
- b) The whole figure standards for a combination, the range is from 0 to 999.
For example: combination 156, it includes group 1, group 5 and group 6, the door only could be accessed when at least one member of these three groups validate at the time. If set 651 for the combination, is it's same as 156, these 3 groups are not limited by sequence.
- c) **Another example:** Like combination 78 and 7; when it's 78, one member of group 7 and group 8 respectively validate at the same time for door access;

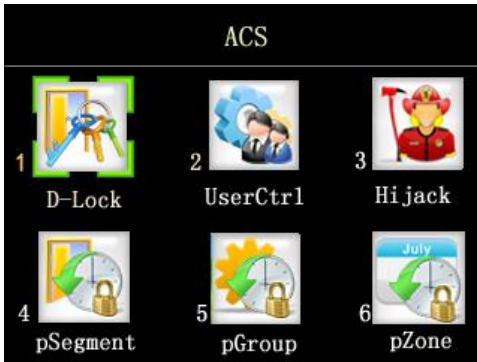
When 7, anyone from group 7 validates to access door successfully.

- d) If the combination of repeat group number, anyone of the group could access the door by validation. **For example:** Combination 666 and 33; 666 belongs to members of group 6, then the door could be accessed when any 3 members from group 6 validate at the same time; 33 one is door could be accessed when any 2 members from group 3 validate at the same time.
- e) Group 0 could not be used for combination. When user does not set any group, the AC terminal default as 0; if the combination with 0, 0 will be omitted.
- f) [Multi-Open] function defaults Lock 1 and this AC terminal for valid validation. If you need connect to Lock 2, reader or other more AC terminals for multi-open setting, please refer to below table.

Multi-Open	Lock 2 Setting	AC terminal	Reader/Slave
Connect to Lock 1	No	AC terminal--unlock	AC terminal+ reader--invalid reader+ AC terminal—invalid
	Slave	AC terminal--unlock	AC terminal+ reader--invalid reader+ AC terminal—unlock
	Master	AC terminal--unlock	AC terminal+ reader--invalid reader+ AC terminal—invalid
	Master/Slave	AC terminal--unlock	AC terminal+ reader--invalid reader+ AC terminal—unlock
	Lock 2 setting	AC terminal	Reader/slave
Connect to Lock 2	Slave	AC terminal --invalid	AC terminal+ reader--invalid reader+ AC terminal—invalid
	Master	AC terminal --invalid	AC terminal+ reader--unlock reader+ AC terminal—invalid
	Master/Slave	AC terminal --invalid	AC terminal+ reader--invalid reader+ AC terminal—invalid
	Slave	AC terminal --invalid	AC terminal+ reader--unlock reader+ AC terminal—invalid
Remark: Invalid is could not unlock the door.			

7.2 User control

When device in homepage window, press the **【MENU】** enter the device MENU (if you've set the admin to the device, need get through the admin verify first.),
 → **【ACS】** → **【User Ctrl】** :



Setting	Default setting	Description
User Control	0000000000 1	Set the settings to the selected User ID.
User group	0	Set the current User ID to a Pass group. Manager could set the “ACS”→ “pSegment””pGroup”and”pZone” according to the requirement.
Validity period	No	Select [Yes]. And active the access control to the current User ID.
Begin	2010/01/01 00: 00	The user's valid range.
End	2090/12/31 00: 00	
Locks Permission	Master-slave (options are divided into: Master, slave,	Determine whether the user has the privilege to open the door.

	master-slave , and no.)	
--	----------------------------	--

7.3 Hi-Jack

When device in homepage window, press the **【MENU】** to enter the device MENU (if you've set the admin to the device, need get through the admin verify first.), → **【ACS】** → **【Hijack】** .See below picture.

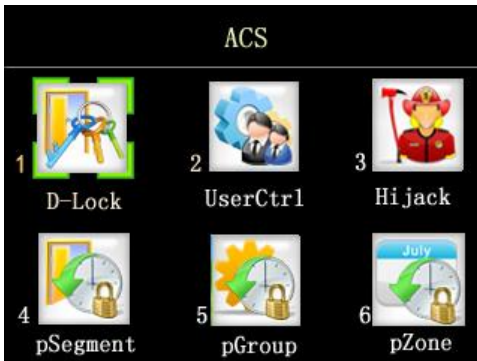


Item	Default	Description
Enable anti-Hijack	No	Enable anti-hijack or not
Hijack FP NO.	2	For example: Amaris (ID=001), enroll 5 fingerprint. And when she registered the second fingerprint (00000000001-2), this fingerprint I the Hijack FP. When we enable the anti-hijack function on the Access Control Device, and some stranger forced her to open the door, she use the NO=2 fingerprint to verify. The device will mark this record as the anti-hijack. If we enable the alarm, the device will send out a signal to the alarm
Open	Yes	When people use the hijack fp to verify,

		the door will open or not?
Alarm	No	When people use the hijack fp to verify, the Access control device will send out a signal to the alarm? If we set it to "YES", then the device will send out the alarm signal, and the alarm connected to "ALM0"&"ALM1" will be active.


7.4 pSegment

When device in homepage window, press the **【MENU】** to enter the device MENU (if you've set the admin to the device, need get through the admin validation first.), → **【ACS】** → **【pSegment】** .See below picture.



According to users' access control rule, you can set up total 32 groups for access from group 0 – 31.

p. Segment	
01.	00:00-23:59
02.	00:00-23:59
03.	00:00-23:59
04.	00:00-23:59
05.	00:00-23:59

 Note: it's not editable for the group0 and group 31. Group0: 00:00-23:59 (it means it's available to pass through all day long). Group31:00:00-00:00 (it means it's unavailable to pass through all day long).


00.	00: 00-23: 59
01.	6: 00-9: 00
02.	11: 00-14: 00
03.	17: 00-19: 00
...	...
Pass-time 31	00: 00-00: 00

7.5 P Group

There're 32 groups (0-31 groups) for pass group. Every pass group can set with 10 pass Segment.

p. Group	NO. 00
01.	00:00-23:59
02.	00:00-23:59
03.	00:00-23:59
04.	00:00-23:59
05.	00:00-23:59

Select any Group NO. and press **【MENU/OK】** to set the 10 p.segment to that pass group.

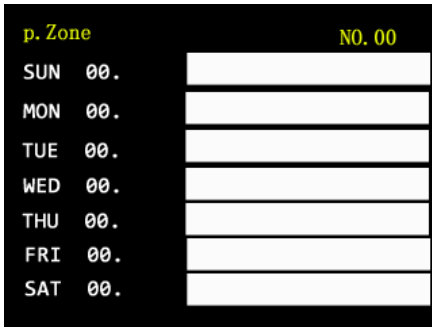
 Note: in the selected Group, you can press **【MENU/OK】** to set different p.segment to it. Group0 and Group31 are not editable. 10 P.Segment set to Group0 is P.Segment0(00:00-23:59), that means can pass through all day long. 10 P.Segment set to Group31 is P.Segment31(00:00-00:00), that means cannot pass through all day long.

	1	2	3	4	5	6	...
0	P.Seg ment0	P.Segm ent0	P.Se gme nt0	P.Seg ment 0	P.Seg ment 0	P.Segm ent0	...
1	P.Seg ment1	P.Segm ent2	P.Se gme nt6	P.Seg ment 7	P.Seg ment 31	P.Segm ent31	...
2	P.Seg ment2	P.Segm ent4	P.Se gme nt6	P.Seg ment 31	P.Seg ment 31	P.Segm ent31	...
3	P.Seg ment2	P.Segm ent3	P.Se gme nt4	P.Seg ment 5	P.Seg ment 6	P.Segm ent31	...


...							
3	P.Seg	P.Segm	P.Se	P.Seg	P.Seg	P.Segm	...
1	ment31	ent31	gme	ment	ment	ent31	
			nt31	31	31		

7.6 PZone

P.Zone, we could set 32 P.Group to every P.Zone. and in every P.Zone, there's setting for Monday to Sunday. We could set different P.Zone according to different requirement.



Select any PZone NO. and press **【MENU/OK】** to set the p.Group to that pass Zone.

 Note: in the selected P.Zone, you can press **【MENU/OK】** to set different p.Group to it. p.Zone0 and p.Zone31 are not editable. P.Zone0 : 7days set to p.Group0, means can get through all the whole week. P.Zone31 : 7days set to p.Group31, means cannot get through all the whole week.

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
P.Zone 0	P.Group	P.Group	P.Group	P.Group	P.Group	P.Group	P.Group
	0	0	0	0	0	0	0

P.Zone 1	P.Group 1	P.Group 1	P.Group 1	P.Group 1	P.Group 1	P.Group 1	P.Group 1
P.Zone 2	P.Group 31	P.Group 2	P.Group 2	P.Group 2	P.Group 2	P.Group 2	P.Group 31
P.Zone 3	P.Group 3	P.Group 3	P.Group 3	P.Group 3	P.Group 3	P.Group 3	P.Group 3
...							
P.Zone 31	P.Group 31	P.Group 31	P.Group 31	P.Group 31	P.Group 31	P.Group 31	P.Group 31

➤ How to set the pass through time to the Users?

We could set the pass through time to different users according to different requirement, so we could have strict limit that which users can get through the door at what time.

For example:

User A. work for night shift all the week, she cannot get through the verification at day time.

User B. normal work at day shift, can get through during his working time. Saturday & Sunday rest.

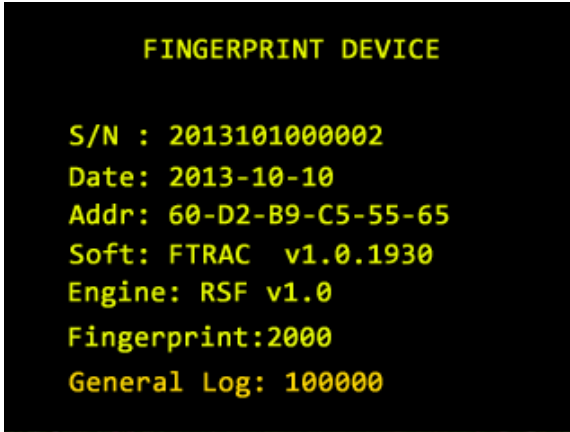
User C. work for day shift all the week, cannot get through the verification at night.for the entire week on duty day and cannot access in night.

No.	P.Zone	Pass through time
A	1	00:00-9:00;17:00-23:59
B	2	6:00-9:00;11:00-14:00;17:00-19:00

C	3	6:00-19:00
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Chapter 8 Device Information

When device in homepage window, press the **【MENU】** to enter the device MENU (if you've set the admin to the device, need get through the admin verify first.), → **【ACS】** → **【About】**



Item	Description
S/N	Device serial number
Date	Equipment production date
Addr	Device MAC address
Soft	Device firmware version
Engine	Device Algorithm version
Fingerprint	Device Fingerprint capacity
General Log	Device record capacity

Chapter 9 FAQ

1. How to remove the admin privilege on the device menu?

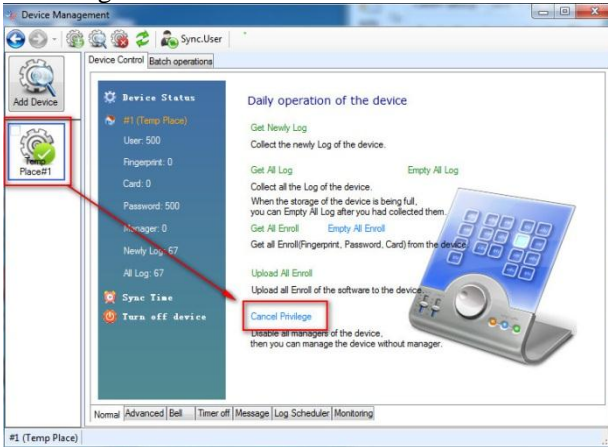
➤ We could remove the privilege through the software (Method 1)

It's recommend that enroll at least 2 admin to the device. so when lose one admin, still can enter the menu of the device.

When you lose the only one admin, and cannot enter to the Device MENU, please connect the device to the software, and cancel the privilege on the software.

Details:

- 1) Connect the device to the software through the USB connection. (if your device supports TCP communication, you could use the TCP connection also.)
- 2) Run the software, enter the “Device Management” window, connect the device to the software, and click “Cancel privilege”, as the following:

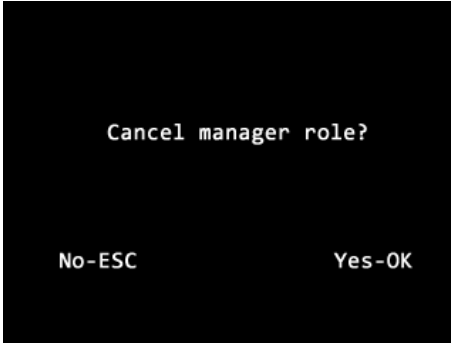


When you need to enroll the admin to the device again, please refer to the enrollment details above.

➤ We can also remove the admin privilege by pressing a key on the mainboard. (Method 2)

- 1) Turn off the device

- 2) Open the back case, find the SW2 key on the mainboard.
- 3) Turn on the device, and press the SW2 key again.
- 4) And there's a tips on the LCD now:



And press "OK" to remove the admin privilege.