

FINGERPRINT TERMINAL

HARDWARE USER'S MANUAL

Rev 1.1

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CHAPTER ONE

INTRODUCTION

1.1 SUPPLIED PART LIST

1. Fingerprint Terminal	1pcs
2. 9V/1A Power Supply	1pcs
3. RS232 Cable (1m)	1pcs
4. Hardware User's Manual	1pcs
5. T&A Software CD	1pcs

1.2 ABOUT

The is a flexible and reliable design to meet the market requirement for a robust and secure biometric Time & Attendance solution at a reasonable cost. allows you to register up to 2,000 fingerprints and store up to 50,000 transactions.

1.3 HARDWARE SPECIFICATION

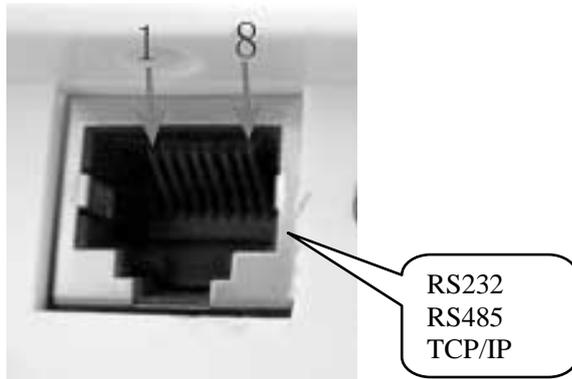
Fingerprint Template Capacity	2,000
Transaction Capacity	50,000
Verification Mode	1:1 or 1:N
Communication	RS232/RS485(up to 32 channels) TCP/IP
Keyboard and Display	128x64 LCD with blue back light and 16-key keypad
Power Supply	9 VDC, standby current: 2.5A, operating current: 400mA
Identification speed	<=2 seconds
FRR (False Rejection Ratio)	<=0.01%
FAR (False Acceptance Ratio)	<=0.0001%
Operating Environment	Temperature: 0°C – 45°C Humidity: 20% – 80%
Language Support	English
Dimension	189(L)*137(W)*50(H)mm

CHAPTER TWO

PRODUCT OVERVIEW

2.1 COMMUNICATION

Provides RS232, RS485 and TCP/IP communication interfaces and depicted below:



2.2 POWER MANAGEMENT

When is in power down mode, the device is brought into operational mode once Power Key is pressed and ready for clocking.

When the device is in operational mode, the device is brought into power down mode once Power Key is pressed and held for 4 seconds.

If the automatic power down has been set, the device will be brought into power down mode according to defined time schedule.

2.3 KEYPAD FUNCTIONS

1	2	3	ESC
4	5	6	MENU
7	8	9	▲
□	0	OK	▼

ESC	Move one level up from the menu hierarchy
MENU	Get into the system setting menu
OK	Confirm the current setting
▲	Move the cursor up
▼	Move the cursor down
0...9	Numeric keys
⊙	Power ON/OFF switch

2.4 USER MANAGEMENT

Two User roles are defined in , namely manager or normal user.

- Normal users can clock on the device but can NOT access the settings.
- Managers can clock on the device as well as do system management:
 1. Register/delete normal users' fingerprints and passwords.
 2. Browser attendance records as well as other system information.
 3. Set up system configurations

2.5 USER ENROLLMENT

Enrollment is the process of creating an ID, assigning a password (optional) and scanning a user's fingers to create the fingerprint templates. All these associated information are stored in the device.

During user verification, the stored fingerprint templates are compared to the current scanned fingerprint to confirm the user's identity.

Enrollment takes approximately 2 seconds for each user. Up to 3 fingers can be enrolled for the same ID number. Ideally, at least one finger on each hand should be enrolled in case of injuries.

CHAPTER THREE

BASIC SETTINGS

3.1 SYSTEM SETTINGS

3.1.1 Total Number of Administrators

Setting	Description
1 -10	set total number of administrators in
Factory Default	5

3.1.2 Machine Number

Setting	Description
1 -255	set an unique address ID to to network with multiple machines
Factory Default	1

3.1.3 Baud Rate

Setting	Description
9600	set the communication speed to 9,600 bps (Bit Per Second)
19200	set the communication speed to 19,200 bps
38400	set the communication speed to 38,400 bps
Factory Default	38400

* Speed setting should be the same with PC, otherwise communication shall fail.

3.1.4 Language

Setting	Description
English	set all display information in English
Traditional Chinese	Set all display information in Traditional Chinese
Factory Default	English

3.1.5 Auto Power Off

Setting	Description
NO	auto power off function is disabled
1 - 255	Auto power off when there are no activities on the device. The unit is in minute.
Factory Default	NO

3.1.6 Voice Indication

Setting	Description
YES	Activate the voice indication
NO	Inactivate the voice indication
Factory Default	YES

3.1.7 Restore Factory Default

If OK key is pressed, all the current setting will lose and restore to the factory default settings.

3.2 EVENT SETTINGS

3.2.1 Administrative Event Full Warning

The machine will give a “FULL” warning signal when the administrative event buffer is below the set threshold.

Setting	Description
NO	There's no warning if there's no administrative event buffer left, and no further administrative events will be logged.
1 - 255	
Factory Default	100

3.2.2 Attendance Event Full Warning

The machine will give a “FULL” warning signal when the attendance event buffer is below the set threshold.

Setting	Description
NO	There's no warning if there's no attendance event buffer left, and no further attendance events will be logged.
1 - 1500	
Factory Default	1000

3.2.3 Valid Attendance Time Interval

If this time interval is set, only ONE attendance event will be logged if there are multiple attendance events within this time interval for the same user.

Setting	Description
NO	All attendance events will be counted as valid one.
1 - 255	
Factory Default	NO

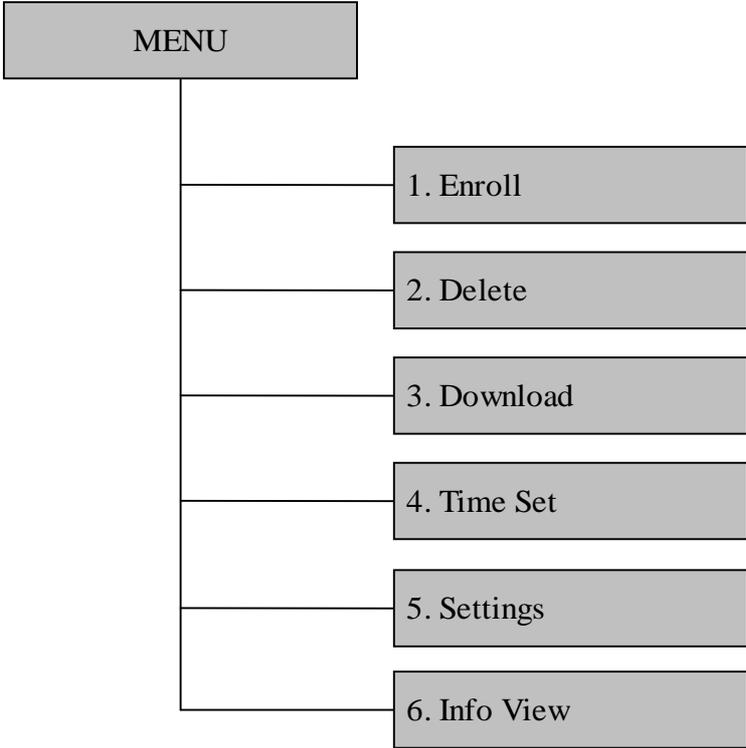
3.3 MENU HIERARCHY

There are three kinds of menus:

- 1. Operation Menu
- 2. Setting Menu
- 3. Status Menu

3.3.1 First Level Menu Items

The first level menu items show up when MENU key is pressed if there's no available administrators, affirmation will be done otherwise.

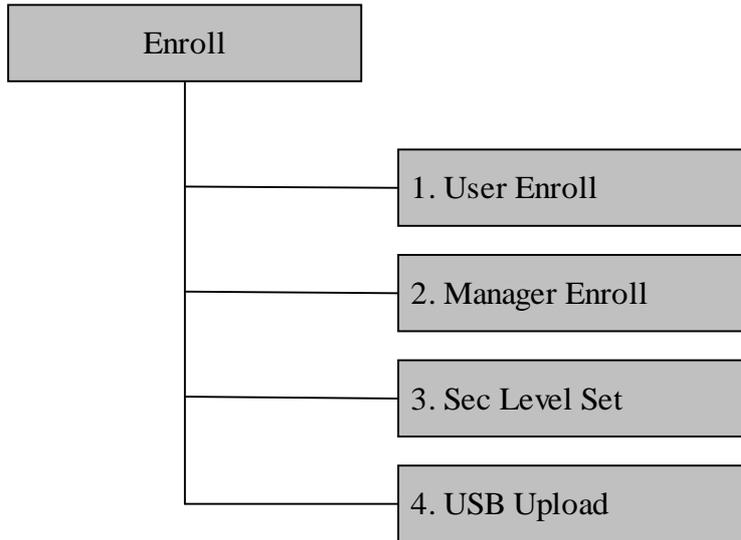


3.3.2 Second Level Menu Items

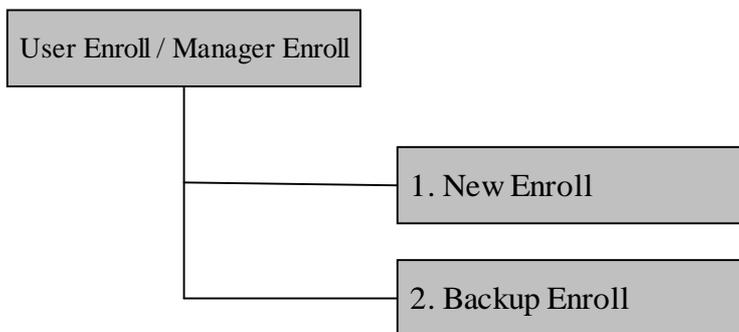
User Registration Management

The Item “Enroll” includes 4 Sub Items which are “User Enroll”, “Manager Enroll”, “Sec Level Set” and “ USB Upload”

The Sub Items will show up after user select “Enroll” ,which under the first level menu, and Press “OK”.

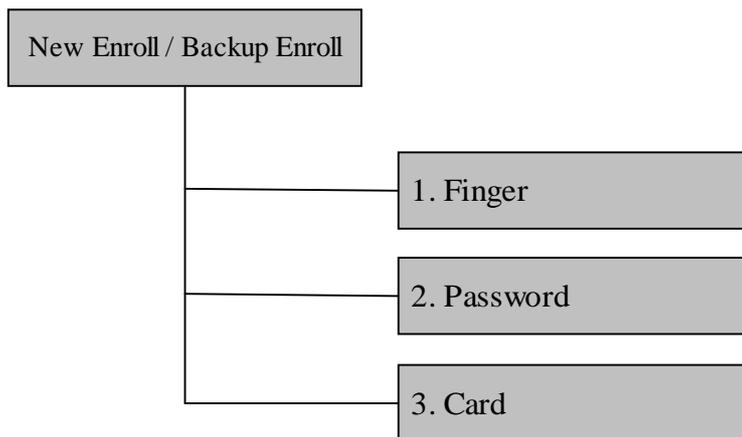


Select the level of user registration (User Enroll / Manager Enroll) and Press “OK”. The Third Level Menu Items show up as the figure below. “New Enroll” is for new user registration. “Backup Enroll” is for enrolling *’Backup Record’ of registered user.



(*p.s.: “Backup Record” means the 2nd or 3rd Finger Print template, Password and ID card”.

The registration method shows up after “New Enroll” or “Backup Enroll” is selected.

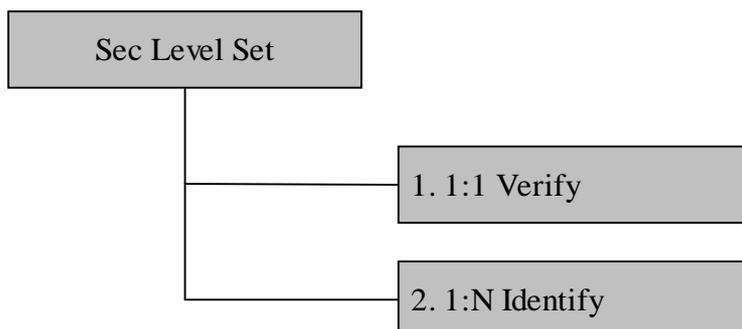


“Sec Level Set”

There are 2 options under “Sec Level Set” which are “1:1 Verify” and “1:N Identify”.

“1:1 Verify” - Compare the user’s fingerprint and the fingerprint template stored in card. (Optional Setting depends on the model)

“1:N Identify” – Compare the user’s fingerprint with the fingerprint template of all registered user stored in machine.



”USB Upload”

The Backup of Menu Setting can be uploaded from USB storage device to the FringerPrint Machine. (Optional Setting depends on the model)

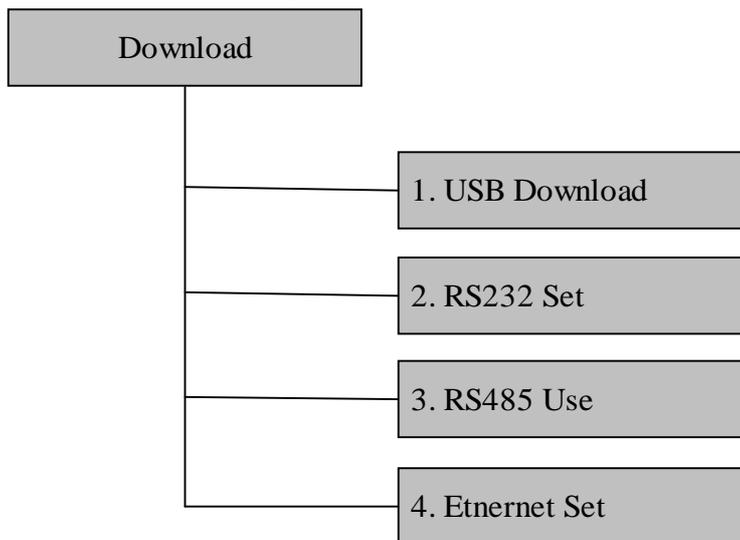
Delete User

The “Delete Menu” shows up after select “Delete” under the First Level Menu and pressed “OK”. Enter the UserID by number or direction key. Press “OK” to confirm the deletion.

Delete	
ID	00001
ESC	ENTER

Data Download

The Sub Items show up after select “Download” user First Level Menu.



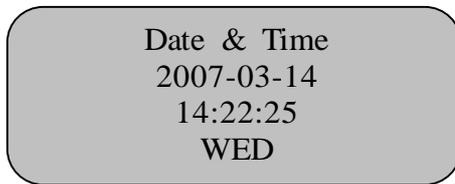
USB Download

There are two options under the “USB Download”, which are “GLog” and “Enroll Data”.(Optional Function depends on the model)

“Glog”	Attendance Record Download
“Enroll Data”	Fingerprint Template Download

Time Setting

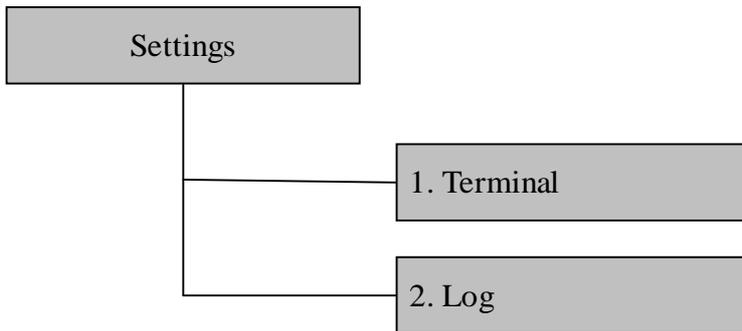
The Time Setting Menu shows up after select “Time Set” under the First Level Menu and pressed “OK”.



Move the cursor location by direction key. Enter the correct value by number key.
(The weekday value is generated by machine automatically).

3.3.3 “Setting” configures the major function of .

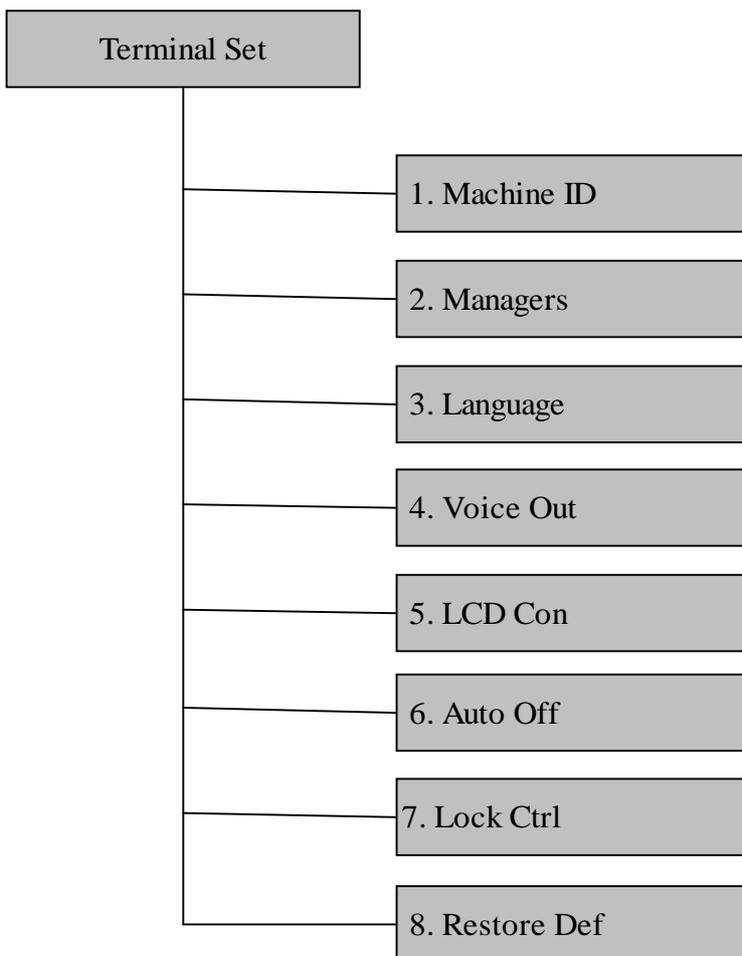
There are two items under “Setting”, which are “Terminal” and “Log”.

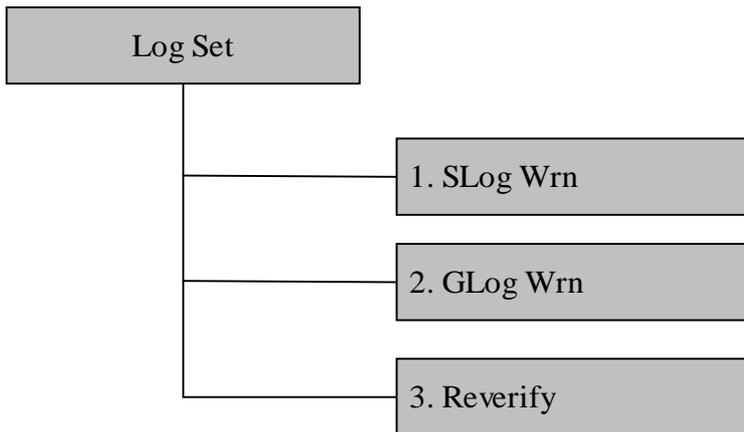


“Terminal” configures the settings of machine operation.

“Log” configures the settings of data logging

The sub items are shown below.





Machine ID: The Unique ID of the machine on the same communication channel.

Managers: The maximum number of machine administrator.

Language: The language of operation menu. supports 2 languages which are Traditional Chinese and English.

Voice Out: Enable or disable the function of voice indication.

LCD Con: The contrast of between the display and back-light.

Auto Off: The machine will shut down after a certain idle time. (The function is disable on the default setting).

Lock Ctrl: The duration of Open door signal.

Restore Def: Restore all settings which under “Settings” to factory default setting.

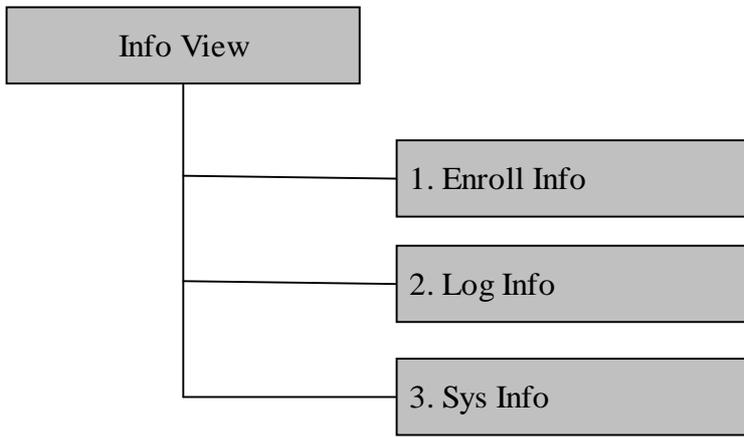
Slog Wrn: To set the limit of residue system log memory. If the number of residue system log memory reach the limit. Warning occurred. (All administrators’ operation is record as system log.)

Glog Wrn: To set the limit of residue attendance record memory. If the number of residue attendance record memory reach the limit. Warning occurred.

Reverify: The duration of 2 successful attendances which from the same fingerprint. All duplicate attendance record doesn’t be recorded.

Detail Information

“Info View” shows the registration code, records, manufacturer and firmware version. The sub items are shown below.



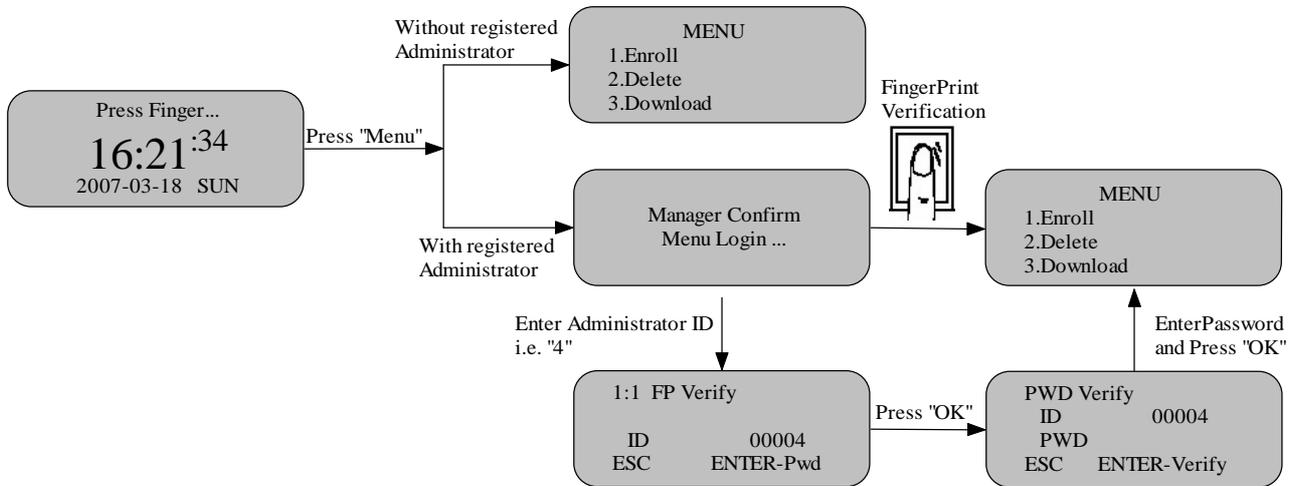
Enroll Info: To show the information about user registration such as the number of registered user, number of registered administrator, number of fingerprint template, number of registered password and number of registered ID Card.

Log Info To show or operate the machine record such as number of attendance record, number of system log, attendance record of user, system log of administrator, and delete all record.

Sys Info: To show hardware information which includes Manufacturer, Machine Name, Release Date, Serial Number, Engine Version and Soft Version.

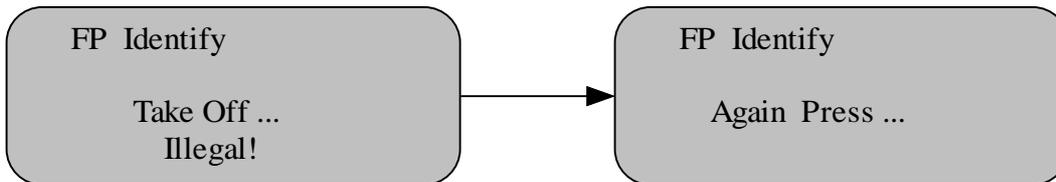
3.4 Machine Operation for administrator

3.4.1 To show the First Level Menu



If the “manager confirm” is requested on the operation and the user didn’t enroll any administrator, please shut down the machine and contact with retailer.

If confirmation is fail, “Illegal” is shown and request the reconfirmation.

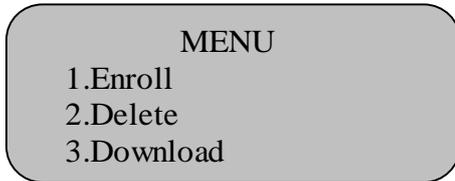


3.4.2 Machine Management

New User Registration / New Administrator Registration

Step 1 Enter the First Level Menu (Refer to Page.)

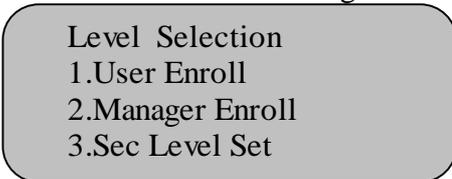
Step 2 Press “1” to choose “Enroll”



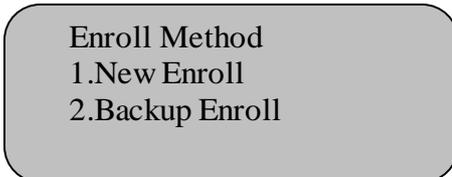
Step 3 Press “1” to choose “User Enroll” for normal user registration

Or

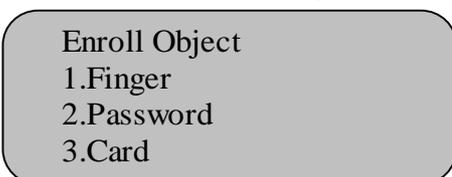
Press “2” to choose “Manager Enroll” for administrator registration



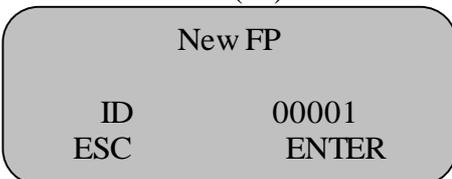
Step 4 Press “1” to choose “New Enroll”



Step 5 Press “1” to choose “Finger” for Fingerprint Enrolling.



Step 6 Enter the User ID (i.e) 00001 and Press “OK”.



Step 7. Show your finger on the window



Step 8. Show your finger on the window again

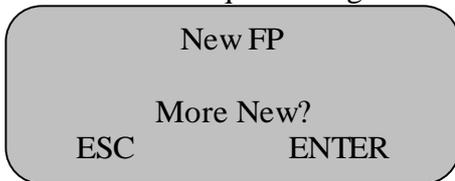


Step 9. Show your finger on the window again



Successful Registration

Step 10 Press "ESC" to quit the registration process.



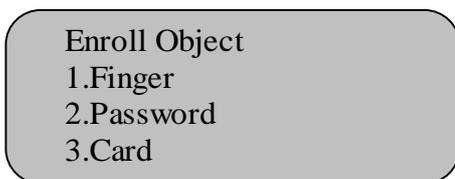
Enrolled User Registration (Backup Enroll)

allow administrator enroll 2 more fingerprint template, password and Card for the same user as Backup.

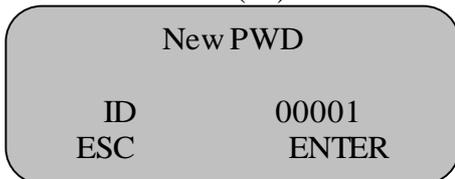
3.4.3 Password Registration

Step 1 Enter the Menu "Enroll Object"

Step 2 Press "2" to choose "Password"



Step 3 Enter the User ID (i.e) 00001 and Press "OK".



Step 4 Enter the Password (4 digits) and Press "Enter"

New PWD	
ID	00001
PWD In	
ESC	ENTER

Step 5 Re-enter the password to confirm.

PWD	Confirm
PWD	ReInput!
PWD	In

Successful Registration

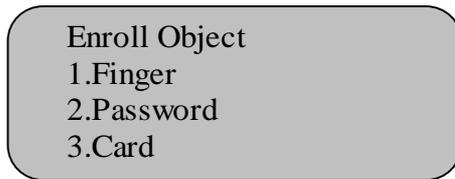
Step 6 Press "ESC" to quit the registration process.

New PWD	
More New?	
ESC	ENTER

3.4.4 ID Card Registration (Optional function for special model)

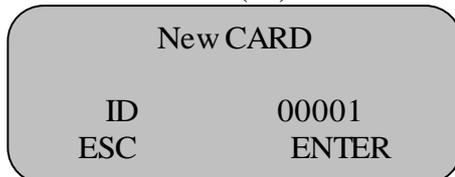
Step 1 Enter the Menu “Enroll Object”

Step 2 Press “3” to choose Card



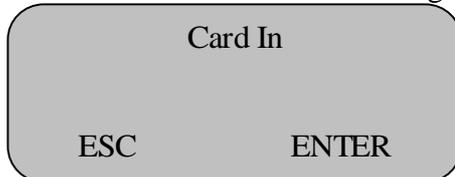
Enroll Object
1.Finger
2.Password
3.Card

Step 3 Enter the User ID (i.e) 00001 and Press “OK”.



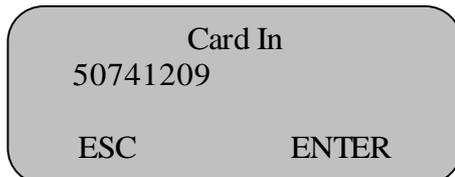
New CARD
ID 00001
ESC ENTER

Step 4 Please show Card on the detecting area.



Card In
ESC ENTER

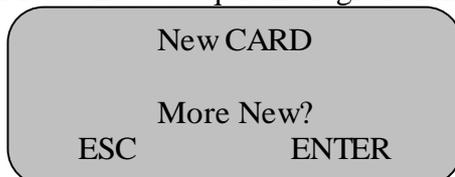
Step 5 Card ID is shown on the screen and Press “OK” to confirm.



Card In
50741209
ESC ENTER

Successful Card Registration

Step 6 Press ”ESC” to quit the registration process.



New CARD
More New?
ESC ENTER

3.4.5 Delete User

Step 1 Enter the First Level Menu (Refer to Page.)

Step 2 Press “2” to choose “Delete”

MENU	
1.Enroll	
2.Delete	
3.Download	

Step 3 Enter the User ID and Press “OK”

Delete	
ID	00001
ESC	ENTER

Step 4 Press “OK” to confirm

Delete	
ID	00001-0
Sure Delete?	
ESC	ENTER

Successful Deletion

If any backup record belong the deleted User ID, the alert of deletion of backup record will show on the screen.

Delete	
ID	00001-1
Sure Delete?	
ESC	ENTER

The type of record is indicated by the last digit.

- “0” means 1st Fingerprint template.
- “1” means 2nd Fingerprint template
- “2” means 3rd Fingerprint template
- “P” means Password
- “C” means Card

3.5 Attendance Log and System Log Management

3.5.1 Query Attendance Log

Step 1 Enter the First Level Menu (Refer to Page.)

Step 2 Press "6" to choose "Info View"

```
MEUN
4.Time Set
5.Settings
6.Info View
```

Step 3 Press "2" to choose "Log View"

```
Info View
1.Enroll Info
2.Log Info
3.Sys Info
```

Step 4 Press "3" to choose "GLog View"

```
Log View
1.GLog      0
2.SLog      0
3.GLog View
```

Step 5 Press "OK" to query all attendance log. (In order by time)

Or

Enter the User ID to query a certain user 's record. Press "OK"

```
Glog View
ID      00000
ESC     ENTER
```

Step 6 Press "▲" or "▼" to view the previous or next record.

```
Glog View      C-00022
                N-00001
07/03/10 13:23 V_F
                00001
ESC            ENTER
```

- C → total amount of attendance record
(C-00022 means there are 22 records)
- N → the sequence of attendance record
(N-00001 means it is the first record)
- V_F → by fingerprint
- V_P → by password
- 00001 → User ID of the current record
- 07/03/10 13:23 → attendance time

3.5.2 Query the System Log

Step 1 Enter the Menu “Log View”

Step 2 Press “4” to choose “SLog View”

Log View	
2.SLog	0
3.GLog View	
4.SLog View	

Step 3 Press “OK” to query all system log. (In order by time)

Or

Enter the User ID to query a certain user’s system log. Press “OK”

Slog View	
ID	00000
ESC	ENTER

Step 4 Press “▲” or “▼” to view the previous or next record.

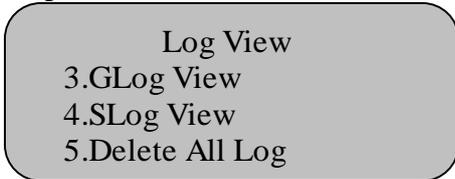
Slog View		C-00022
		N-00001
07/03/10 13:23 E_U		
00004	00001	
ESC	ENTER	

E_U	→	Normal user registration
E_M	→	Administrator registration
E_DF	→	Delete Fingerprint template
E_DP	→	Delete Password
D_L	→	Delete all record
S_T	→	Time Setting
S_S	→	System Setting

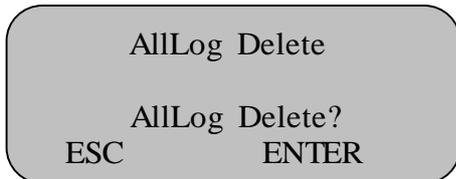
3.5.3 Delete all Record

Step 1 Enter the Menu “Log View”

Step 2 Press “5” to choose “Delete All Log”



Step 3 Press”OK” to confirm the deletion



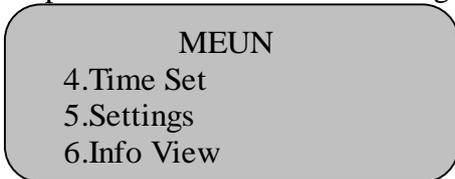
Successful Deletion

3.5.4 Settings

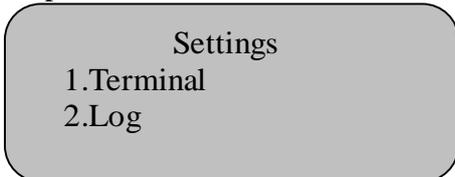
Follow the steps below to access Terminal Setting Menu.

Step 1 Enter First Level Menu

Step 2 Press "6" to choose "Setting"



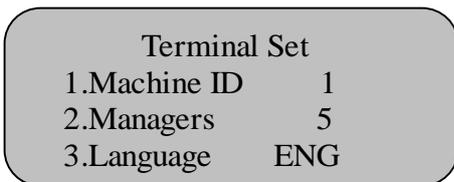
Step 3 Press "1" to choose Terminal



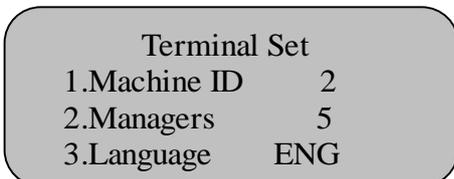
3.5.5 Machine ID

The machine ID of each machine on the same channel should be unique. (No matter Using RS485 or TCP/IP protocol).

Step 1 Press "1" to choose Machine ID

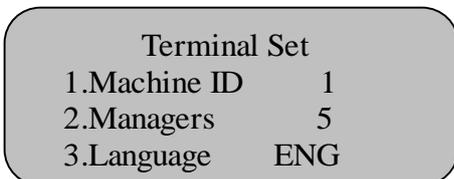


Step 2 Enter the NEW ID with range between 1-255 (i.e "2") and press "OK" to confirm.

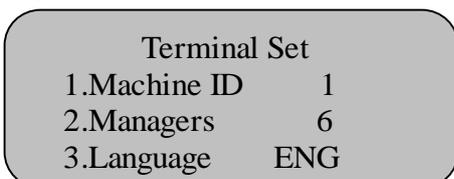


3.5.6 Managers

Step 1 Press "2" to choose "Managers"



Step 2 Enter the maximum no. of machine administrator (i.e. 6) and press "OK" to confirm.



3.5.7 Language

Step 1 Press "3" to choose "Language"

Terminal Set	
1. Machine ID	1
2. Managers	5
3. Language	ENG

Step 2 Press "▲" or "▼" to choose Language and press "OK" to confirm.

Terminal Set	
1. Machine ID	1
2. Managers	6
3. Language	TCHN

3.5.8 Voice Indication

Step 1 Press "4" to choose "Voice Out"

Terminal Set	
4. Voice Out	Yes
5. LCD Con	47
6. Auto Off	No

Step 2 Press "▲" or "▼" to enable or disable the function

Yes - Enable

No - Disable

Press "OK" to confirm.

Terminal Set	
4. Voice Out	No
5. LCD Con	47
6. Auto Off	No

3.5.9 LCD Contrast

Step 1 Press "5" to choose "LCD Con"

Terminal Set	
4. Voice Out	Yes
5. LCD Con	47
6. Auto Off	No

Step 2 Enter the contrast value and press "OK" to confirm

("0" - Blank Display, "63" - Black Display)

3.5.10 Auto Power Off

Step 1 Press "6" to choose "Auto Off"

Terminal Set	
4. Voice Out	Yes
5. LCD Con	47
6. Auto Off	No

Step 2 Press "▲" or "▼" to disable the function or set the delay time (1 - 255mins)

3.5.11 Relay Output Signal (Not for X628U)

Step 1 Press "7" to choose "Lock Ctrl"

Terminal Set	
6.Auto Off	No
7.Lock Ctrl	5s
8.Restore Def	

Step 2 Press "▲" or "▼" to disable the function or set the delay time (1 - 16s)

3.5.12 Restore Factory Setting

Step 1 Press "8" to choose "Restore Def" and confirm the restoring.

Terminal Set	
6.Auto Off	No
7.Lock Ctrl	5s
8.Restore Def	

All setting under terminal settings will be recovered to default factory setting.
(Except System Log and Attendance Log)

3.5.13 Log Management

Follow the steps below to access Log Setting Menu.

Step 1 Enter First Level Menu

Step 2 Press "5" to choose "Setting"

MEUN	
4.	Time Set
5.	Settings
6.	Info View

Step 3 Press "2" to choose "Log"

Settings	
1.	Terminal
2.	Log

3.5.14 System Log Warning

Step 1 Press "1" to choose "SLog Wrn"

Log Set		
1.	SLog Wrn	100
2.	GLog Wrn	1000
3.	Reverify	No

Step 2 Enter the number of residue system log memory (1 – 255) before the warning occur.

And press "OK" to confirm.

(i.e. "100" means the warning will occur if the residue system log memory reach 100.)

3.5.15 Attendance Log Warning

Step 1 Press "2" to choose "GLog Wrn"

Log Set		
1.	SLog Wrn	100
2.	GLog Wrn	1000
3.	Reverify	No

Step 2 Enter the number of residue attendance record (1 - 1500) before the warning occur.

And press "OK" to confirm.

(i.e. "1000" means the warning will occur if the residue attendance log memory reach 1000)

3.5.16 Reverify

Step 1 Press "3" to choose "Reverify"

Log Set		
1.	SLog Wrn	100
2.	GLog Wrn	1000
3.	Reverify	No

Step 2 Press "▲" or "▼" to disable the function

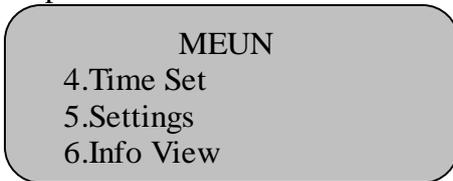
or set the duration between 2 successful attendance (1 – 255mins)

3.5.17 Log Query

Follow the steps below to access Information View Menu.

Step 1 Enter First Level Menu

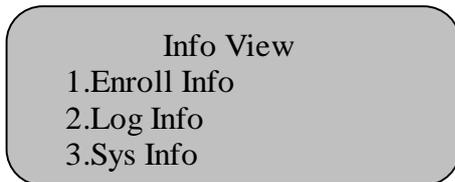
Step 2 Press "6" to choose "Info View"



3.5.18 Enroll Info

It shows all amount of Enrolled record storage such as the number of enrolled user, the number of enrolled administrator, enrolled fingerprint template, enrolled password and enrolled card.

Step 1 Press "1" to choose "Enroll Info"



Step 2 Press "▲" or "▼" to view the information

CHAPTER FOUR
QUICK SETUP GUIDE

4.1 Hardware

□ 4.1.1 Power on/off

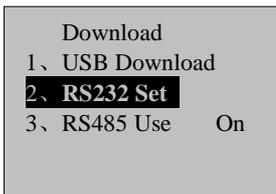
1. Connect the bundled Power Adaptor to a 220V/110V socket.
2. Connect the , and then press Power Button to power on .
3. Hold the Power Button for 2 seconds to power off .

□ 4.1.2 Computer Connection

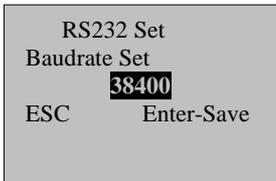
There are three ways to establish the connection between and Computer.

A. Through RS232

1. Press “MENU” to enter menu. Press 3>>2>>1



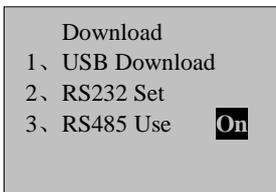
2. Set the baud rate to 38400 by pressing ▲ or ▼ and then press “OK” to save.



- 3.
4. Power off .
5. Connect RS232 cable to the 9-pin port or connect the bundled RJ45-RS232 cable to the RJ45 port on .
6. Connect the other end of RS232/ RJ45-RS232 cable to computer COM-PORT.
7. Power on .

B. Through RS485

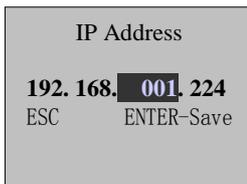
1. Press “MENU” to enter menu. Press 3>>3
2. Set “RS485 Use” to “On” pressing ▲ or ▼ and then press “OK” to save. (**Note: can either enable RS485 connection or TCP/IP connection at the same time**)



3. Power off .
4. Connect RS485 cable to the RJ45 port on . (Note: please refer to **5. RJ45 Port Pin Assignment** for details of the required RS485 cable)
5. Connect the other end of RS485 cable to a RS232/RS485 Converter
6. Connect the other end of RS232/RS485 to computer COM-PORT.
7. Power on .

C. Through TCP/IP

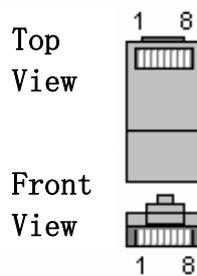
1. Press “MENU” to enter menu. Press 3>>4>>1 to enter IP setup page.



2. Configure the IP according to your network settings. The default IP of is 192.168.1.224. Please make sure that the IP of is within the same network with your computer. Thus, if IP of your computer is 192.168.001.xxx, then IP of must be 192.168.001.xxx also.
3. Power off .
4. Connect computer directly with Ethernet 10/100Base-T Crossover Cable, or connect to network Hub/Switch with Ethernet 10/100Base-T Straight Thru Cable.
5. Power on .
6. Pin Assignment refer to below diagram

RJ45 Port Pin Assignment

Pin	Function
1	TCP---TX+
2	TCP---TX-
3	TCP---RX+ / RS485A
4	RS485B
5	GND
6	TCP—RX
7	RS232---R
8	RS232---T



4.2 Software

4.2.1 Packing List

Finger Print Machine	x1
9V/1A Power Adapter	x1
RJ45-RS232 Connection Cable	x1
Hardware Manual	x1
Software CD-Rom	x1

4.2.2 Fingerprint Registration

1. Connect the Power Adapter to and power socket, power on .
2. Press “MENU”, and followed by 1>>1>>1>>1 to enter staff finger print registration page.
3. Input the user ID and then place the finger on scanner for three times.
4. Press “MENU”, and followed by 1>>2>>1>>1 to enter manager finger print registration page.
5. Once there is a user registered as Manager, the menu function will be locked. Thus no one can access to menu without manager authentication.

4.2.3 Software Installation

1. Put the Software CD-Rom into CD/DVD Drive of Computer.
2. Browse the root directory of the CD-ROM, and then double click on the Setup File.
3. The installation Wizard will guide you through out the whole installation process.

4.2.4 Software Configuration

1. Run the software and then login with User Name / Password: admin/admin.
2. Go to menu Communication >> Machine Management >> Add/Modify/Delete Machine
3. Input “Machine name” and “Machine number”. “Machine number” is 1 by default
4. Select “Communication mode”. It is either “COM mode” or “Network mode”. “COM mode” is for RS232/RS485 connection; “Network mode” is for TCP/IP connection.
5. Input “Port” and “Baud rate” for “COM mode”. “Port” is the number of COM-PORT that the RS232 Cable connected; “Baud rate” is 38400 or refer to the value set in **Hardware >> Computer Connection >> A. Through RS232 >> Step 2.**
6. Input “IP” for “Network mode”. The IP should be the one set in **Hardware >> Computer Connection >> C. Through TCP/IP >> Step 2.**
7. Save the settings upon finished.
8. Right click the saved profile, a menu will appears. Click on “Test Connection” to verify the connection.

Machine name	Machine number	Communication ...	IP	Port	Baud rate	Attendance reco...	Remarks
FP-S0	10	Network mode	192.168.0.201	4370			

- Delete Record
- Modify Record
- Test connection

9. If the connection is fine, a System Message “Connection succeeded” will be shown.



The End

Thank You for Purchasing