FINGERPRINT TERMINAL

HARDWARE USER'S MANUAL
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or email us at info@secunitcn.com
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      4.1.1 POWER ON/OFF
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      4.2.1 PACKING LIST
      4.2.2 FINGERPRINT REGISTRATION
      4.2.3 SOFTWARE INSTALLATION
      4.2.4 SOFTWARE CONFIGURATION
CHAPTER ONE

INTRODUCTION

1.1 SUPPLIED PART LIST

1. Fingerprint Terminal 1pcs
2. 9V/1A Power Supply 1pcs
3. RS232 Cable (1m) 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

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

PRODUCT OVERVIEW

2.1 COMMUNICATION

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

![Communication Interfaces](image)

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

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>ESC</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>5</td>
<td>6</td>
<td>MENU</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
<td>▲</td>
</tr>
<tr>
<td>☺</td>
<td>0</td>
<td>OK</td>
<td>▼</td>
</tr>
</tbody>
</table>

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

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2.4 USER MANAGEMENT

Two User roles are defined in the device, 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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 10</td>
<td>set total number of administrators in</td>
</tr>
<tr>
<td>Factory Default</td>
<td>5</td>
</tr>
</tbody>
</table>

3.1.2 Machine Number

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 255</td>
<td>set an unique address ID to network with multiple machines</td>
</tr>
<tr>
<td>Factory Default</td>
<td>1</td>
</tr>
</tbody>
</table>

3.1.3 Baud Rate

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>
3.1.4 **Language**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>set all display information in English</td>
</tr>
<tr>
<td>Traditional Chinese</td>
<td>Set all display information in Traditional Chinese</td>
</tr>
<tr>
<td>Factory Default</td>
<td>English</td>
</tr>
</tbody>
</table>

3.1.5 **Auto Power Off**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>auto power off function is disabled</td>
</tr>
<tr>
<td>1 - 255</td>
<td>Auto power off when there are no activities on the device. The unit is in minute.</td>
</tr>
<tr>
<td>Factory Default</td>
<td>NO</td>
</tr>
</tbody>
</table>

3.1.6 **Voice Indication**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>Activate the voice indication</td>
</tr>
<tr>
<td>NO</td>
<td>Inactivate the voice indication</td>
</tr>
<tr>
<td>Factory Default</td>
<td>YES</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>There's no warning if there's no administrative event buffer left, and no further administrative events will be logged.</td>
</tr>
<tr>
<td>1 - 255</td>
<td></td>
</tr>
<tr>
<td>Factory Default</td>
<td>100</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>There's no warning if there's no attendance event buffer left, and no further attendance events will be logged.</td>
</tr>
<tr>
<td>1 - 1500</td>
<td></td>
</tr>
<tr>
<td>Factory Default</td>
<td>1000</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>All attendance events will be counted as valid one.</td>
</tr>
<tr>
<td>1 - 255</td>
<td></td>
</tr>
<tr>
<td>Factory Default</td>
<td>NO</td>
</tr>
</tbody>
</table>

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”.

![Diagram]

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.

![Diagram]

(*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.

```
New Enroll / Backup Enroll

1. Finger
2. Password
3. Card
```

“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.

```
Sec Level Set

1. 1:1 Verify
2. 1:N Identify
```

"USB Upload"
The Backup of Menu Setting can be uploaded from USB storage device to the FingerPrint 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
```

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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”.

3.3.3 “Setting” configures the major function of .

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

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“Terminal” configures the settings of machine operation.
“Log” configures the settings of data logging

The sub items are shown below.

### Terminal Set

1. Machine ID
2. Managers
3. Language
4. Voice Out
5. LCD Con
6. Auto Off
7. Lock Ctrl
8. Restore Def
Log Set

1. SLog Wrn
2. GLog Wrn
3. Reverify

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.

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Info View

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

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

Press Finger...
16:21:34
2007-03-18 SUN

Press "Menu"

Without registered Administrator

With registered Administrator

Enter Administrator ID i.e. "4"

1:1 FP Verify
ID 00004
ESC ENTER-Pwd

Press "OK"

MENU
1.Enroll
2.Delete
3.Download

Manager Confirm
Menu Login ...

EnterPassword
and Press "OK"

Press "OK"

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.

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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 you finger on the window

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Press Finger! First

Step 8. Show your finger on the window again

Press Finger! Second

Step 9. Show your finger on the window again

Press Finger! Third

Successful Registration

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

New FP

More New?
ESC ENTER

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”

Enroll Object
1. Finger
2. Password
3. Card

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

Message to (+86) 158 155 010 89
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or email us at info@securicn.com
Step 4 Enter the Password (4 digits) and Press “Enter”

Step 5 Re-enter the password to confirm.

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

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

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

Step 4 Please show Card on the detecting area.

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

Message to (+86) 158 155 010 89
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or email us at info@securiticn.com
Successful Card Registration

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

3.4.5 Delete User

Step 1 Enter the First Level Menu (Refer to Page.)
Step 2 Press “2” to choose “Delete”

Step 3 Enter the User ID and Press “OK”

Step 4 Press “OK” to confirm

Successful Deletion

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

The type of record is indicated by the last digit.
“0” means 1st Fingerprint template.
“1” means 2nd Fingerprint template

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“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”

Step 3 Press “2” to choose “Log View”

Step 4 Press “3” to choose “Log 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”

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

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

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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
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”

Log View
3.GLog View
4.SLog View
5.Delete All Log

Step 3 Press “OK” to confirm the deletion

AllLog Delete

AllLog Delete?
ESC ENTER

Successful Deletion

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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”

<table>
<thead>
<tr>
<th>Terminal Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Machine ID</td>
</tr>
<tr>
<td>2. Managers</td>
</tr>
<tr>
<td>3. Language</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Terminal Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Machine ID</td>
</tr>
<tr>
<td>2. Managers</td>
</tr>
<tr>
<td>3. Language</td>
</tr>
</tbody>
</table>

3.5.8 Voice Indication
Step 1 Press “4” to choose “Voice Out”

<table>
<thead>
<tr>
<th>Terminal Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Voice Out</td>
</tr>
<tr>
<td>5. LCD Con</td>
</tr>
<tr>
<td>6. Auto Off</td>
</tr>
</tbody>
</table>

Step 2 Press “▲” or “▼” to enable or disable the function

- Yes  – Enable
- No   – Disable

Press “OK” to confirm.

<table>
<thead>
<tr>
<th>Terminal Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Voice Out</td>
</tr>
<tr>
<td>5. LCD Con</td>
</tr>
<tr>
<td>6. Auto Off</td>
</tr>
</tbody>
</table>

3.5.9 LCD Contrast
Step 1 Press “5” to choose “LCD Con”

<table>
<thead>
<tr>
<th>Terminal Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Voice Out</td>
</tr>
<tr>
<td>5. LCD Con</td>
</tr>
<tr>
<td>6. Auto Off</td>
</tr>
</tbody>
</table>

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”

<table>
<thead>
<tr>
<th>Terminal Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Voice Out</td>
</tr>
<tr>
<td>5. LCD Con</td>
</tr>
<tr>
<td>6. Auto Off</td>
</tr>
</tbody>
</table>

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”

<table>
<thead>
<tr>
<th>Terminal Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Auto Off</td>
</tr>
<tr>
<td>7. Lock Ctrl</td>
</tr>
<tr>
<td>8. Restore Def</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Terminal Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Auto Off</td>
</tr>
<tr>
<td>7. Lock Ctrl</td>
</tr>
<tr>
<td>8. Restore Def</td>
</tr>
</tbody>
</table>

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”

<table>
<thead>
<tr>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Time Set</td>
</tr>
<tr>
<td>5. Settings</td>
</tr>
<tr>
<td>6. Info View</td>
</tr>
</tbody>
</table>

Step 3 Press “2” to choose “Log”

<table>
<thead>
<tr>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Terminal</td>
</tr>
<tr>
<td>2. Log</td>
</tr>
</tbody>
</table>

Message to (+86) 158 155 010 89
When you use cellphone or dial from other area outside China, please call (+86) 755 8341 8779/8825 7909
or email us at info@securiticn.com
3.5.14 System Log Warning
Step 1 Press “1” to choose “SLog Wrn”

<table>
<thead>
<tr>
<th>Log Set</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.SLog Wrn</td>
<td>100</td>
</tr>
<tr>
<td>2.GLog Wrn</td>
<td>1000</td>
</tr>
<tr>
<td>3.Reverify</td>
<td>No</td>
</tr>
</tbody>
</table>

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”

<table>
<thead>
<tr>
<th>Log Set</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.SLog Wrn</td>
<td>100</td>
</tr>
<tr>
<td>2.GLog Wrn</td>
<td>1000</td>
</tr>
<tr>
<td>3.Reverify</td>
<td>No</td>
</tr>
</tbody>
</table>

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”

<table>
<thead>
<tr>
<th>Log Set</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.SLog Wrn</td>
<td>100</td>
</tr>
<tr>
<td>2.GLog Wrn</td>
<td>1000</td>
</tr>
<tr>
<td>3.Reverify</td>
<td>No</td>
</tr>
</tbody>
</table>

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”

MEUN
4.Time Set
5.Settings
6.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”

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

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TCP---TX+</td>
</tr>
<tr>
<td>2</td>
<td>TCP---TX-</td>
</tr>
<tr>
<td>3</td>
<td>TCP---RX+ / RS485A</td>
</tr>
<tr>
<td>4</td>
<td>RS485B</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
</tr>
<tr>
<td>6</td>
<td>TCP---RX</td>
</tr>
<tr>
<td>7</td>
<td>RS232---R</td>
</tr>
<tr>
<td>8</td>
<td>RS232---T</td>
</tr>
</tbody>
</table>
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.
9. If the connection is fine, a System Message “Connection succeeded” will be shown.
The End

Thank You for Purchasing