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Note: This user manual is written according to V1.3-110224 version, any modification subject to version update without prior notice.

Chapter One Introduction

Please read this user manual carefully which will be helpful for your operation.

1.1 Operating environment

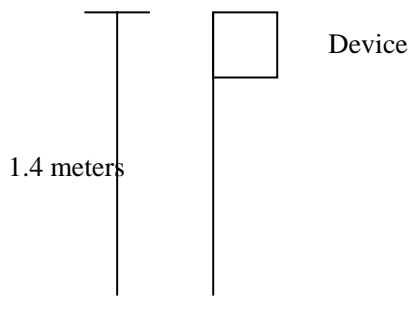
- Please do not place the device under bright and direct light as it will obviously influence fingerprint information acquisition and may cause failed verification.
- The operating temperature of the device is -10°C – 50°C . If possible, please operate the device indoor since long-term operation outdoor is bad for the performance of the device. If it is a must to operate it outdoor, it is suggested to work with support of sunshades or cooling equipments in summer, and thermal facilities in winter.

1.2 About the system

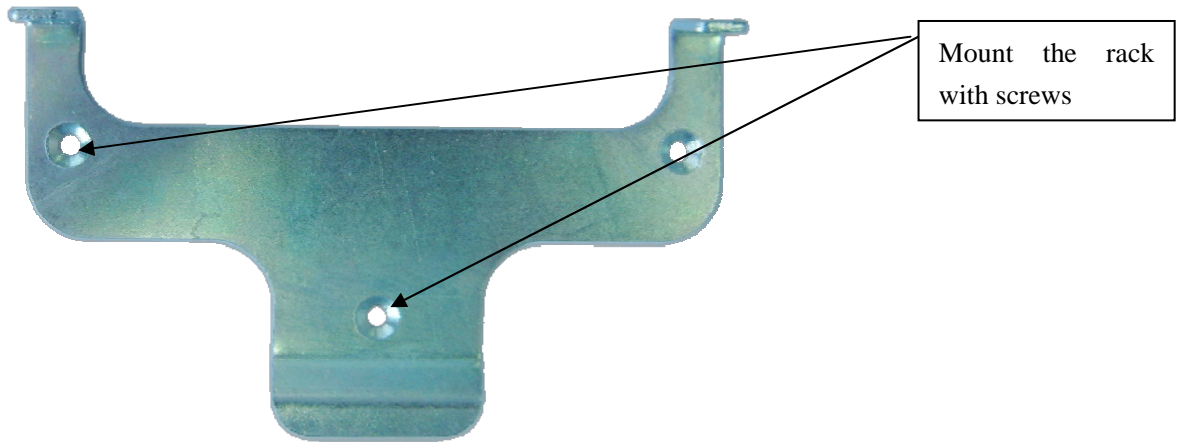
- Fingerprint AT management system can be divided into two parts: fingerprint time attendance (hereafter called device) and time attendance management software (hereafter called software).
- The device is mainly for fingerprint enrollment and attendance logs, while the software for managing logs and generating statistics report according to the attendance settings.
- The communication ways between the device and PC where software is installed are TCP/IP and USB.
- 💡 Note: The device in this manual is AT 230 while software is time attendance management software.

1.3 Installation

Mount the device on the wall, about 1.4 meters above the floor, to avoid bright and direct light.



The metal rack on the back of the device is helpful for mounting the device on the wall.



1.4 Connection



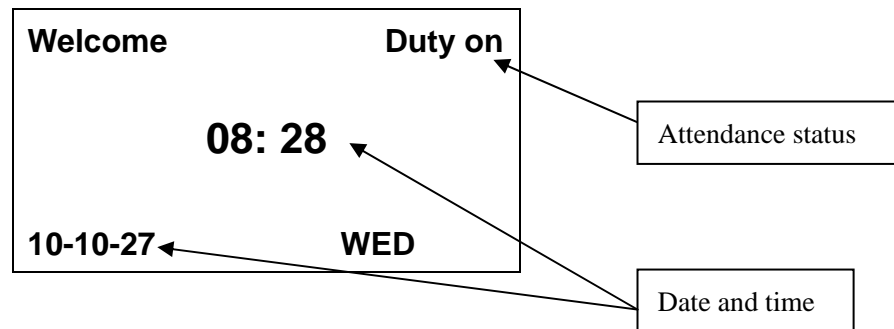
Power cord

TCP/IP

USB cable

SD card

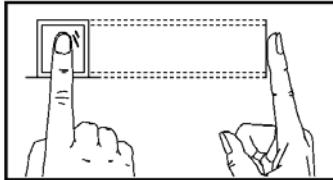
1.5 Startup screen



1.6 Tips for fingerprint enrollment

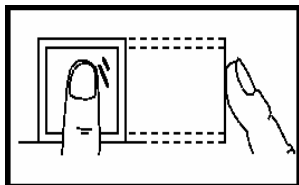
After installation, you can begin fingerprint enrollment (index and middle fingers are recommended) and fingerprint verification.

What you should do?

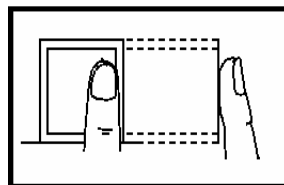


The correct enrollment: place your finger on the reader. Make sure the finger's midpoint is placed at the center of the reader as shown in the figure below.

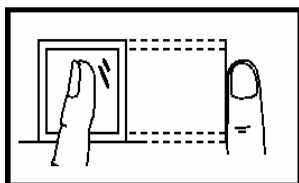
What you should not do?



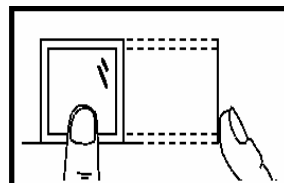
Too Upright



Off Center



Too Askew



Part

Chapter Two Main Menu

2.1 Keypad

Keypad is shown as the figure 2-1:

1	2	3	ESC
4	5	6	MENU
7	8	9	▲
⊙	0	OK	▼

Figure 2-1

Function of keys as shown in figure 2-2:

▪ ESC	Escape/Cancel
▪ MENU	Enter menu
▪ OK	Confirm
▪ ⊙	Power on/off
▪ ▲	Scroll up
▪ ▼	Scroll down
▪ 0...9	No. key (0-9)

Figure 2-2

2.2 Menu

You can operate the device, such as selecting menu items, entering numbers. and so on, with function and No. keys.

The main menu of the device is as follows:

1. User Mgmt

1.1 Enroll N.User

1.1.1 Enroll FP

1.1.2 Enroll PWD

1.2 Enroll MGR

1.2.1 Enroll FP

1.2.2 Enroll PWD

1.3 Delete Info

2. Set

2.1 System Set

2.1.1 Time Set

2.1.2 Format

2.1.3 Advanced Set

2.1.3.1 Factory Default

2.1.3.2 Delete All Log

2.1.3.3 Delete All Info

2.1.3.4 Cancel Priv.

2.1.3.5 Adjust Sensor

2.1.4 Language

2.1.5 Time Zone

2.2 Power Mgmt

2.2.1 Auto Off

2.2.2 Free Time (Min)

2.3 Communication

2.3.1 Device ID

2.3.2 COMM. PWD

2.3.3 Ethernet

2.3.4 IP Add.

2.3.5 Subnet Mask

2.3.6 Gateway Add.

2.4 Log Set

2.4.1 Mgmt Log Warn

2.4.2 AT Log Warn

2.4.3 Reverify (Min.)

3. SD/ U-disk storage (optional)

3.1 Download Logs

3.2 Download User Info

3.3 Upload User Info

4. Sys Info

4.1 Enrolled User

4.2 Enrolled MGR

4.3 Enrolled FP

4.4 Enrolled PWD

4.5 Enrolled Card (custom-made)

4.6 AT Logs

4.7 Mgmt Logs

4.8 Free Space

4.8.1 FP

4.8.2 PWD

4.8.3 Card

4.9 Device Info

4.9.1 FP Capacity

4.9.2 PWD Capacity

4.9.3 Card Capacity

4.9.4 Production Date

4.9.5 Serial No.

4.9.6 Manufacturer

4.9.7 Device Name

4.9.8 Algo Version

4.9.9 F/W Version

Chapter Three Operation Instruction

3.1 User Mgmt

Users include normal users and managers. The privilege can be given to different people who can operate the device according to their requirements.

Normal user: The person who need to be enrolled and verified.

Manager: The person who can view all the information, modify all the settings and enroll or delete normal user information (including the manager)

User management includes normal user enrollment, manager enrollment and deletion of enrolled info.

Verification ways are fingerprint, password and proximity card (custom-made). All devices are with two kinds of verification way, they are fingerprint and password. Proximity card function is custom-made for the device.

Everyone can only get one ID No. in an enrollment. The ID No. shall be the same with that in the software. Everyone can enroll 3 fingerprints and 1 password with the same ID No.

3.1.1 Enroll N.User

It is to enroll a normal user's fingerprint to the device. Its information, including ID No., fingerprint and password, can be set or enrolled in the matching menu item.

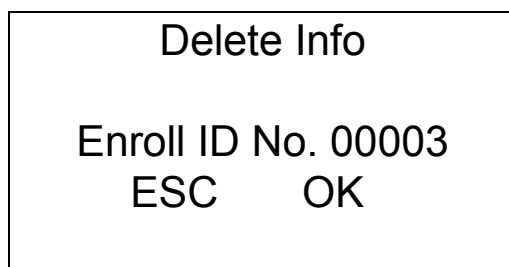
3.1.2 Enroll MGR

Manager set in the device can manage the system. Manager's privilege is beyond that of a user. Its information, including ID No., fingerprint and password, can be set or enrolled in the matching menu item.

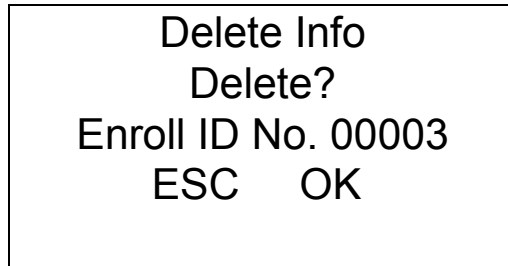
Only the manager can enter the management menu item, download attendance logs, user information to U-disk (SD card) root directory.

3.1.3 Delete Info

This item is for deleting user information. You should select ID NO. to be deleted at first as follows:



After selecting ID No. and pressing OK, the screen will read Confirm deletion as shown in the following figure:



Press OK to delete fingerprint and password information of this user.

3.2 Set

The items are system set, power mgmt, communication setting and log set.

3.2.1 System Set

3.2.1.1 Time set: It is to set time. If the time is slower or faster than the normal time, you can enter this menu item to modify the time, or set the time by software when it is communicating with the device.

3.2.1.2 Format: It is to set time format to be displayed on the screen.

3.2.1.3 Advanced Set

3.2.1.3.1 Factory Default: All the information can be initialized to be the factory default.

3.2.1.3.2 Delete All Log: Attendance logs and management logs will be cleared.

3.2.1.3.3 Delete All Info: Attendance logs, management logs and user information (ID No., user password and fingerprints) can be cleared.

3.2.1.3.4 Cancel Priv.: Management privilege can be canceled and the manager turns to be a user.

3.2.1.3.5 Adjust Sensor: The device can adjust the sensor automatically if you choose sensor adjustment. Information will be read for successful adjustment.

3.2.1.4 Language: It is to select language of the device.

3.2.1.5 Time Zone: Choose the item Attendance Time Zone to set time zones for your different requirements. The system will switch attendance status automatically according to your setting.

3.2.2 Power Mgmt

3.2.2.1 Auto Off: The device can be off automatically at the time you have set in this item. If you set auto off 18:00, the device will be off at 18:00:00.

3.2.2.2 Free Time: To set the time (minute) between operation and system hibernation.

3.2.3 Communication

3.2.3.1 Device ID: This is the device ID No. from 1-255. Every device ID No. shall be the same with that in the software.

3.2.3.2 COMM. PWD: It is to set the access password in communication. The setting shall be 000000~999999, which will be the same as that in the software.

3.2.3.3 Ethernet: Whether or not to open Ethernet communication. If you select Yes, you shall also

set IP address, Mask address and Gateway address.

3.2.3.4 IP Add.: It is to set IP address of the device when communicating by TCP/IP. The default IP is 192.168.1.10, you can change the IP according to your requirement.

3.2.3.5 Subnet Mask: It is to set the mask address of the LAN when communicating by TCP/IP. The default mask address is 255.255.255.0. You can change the address according to your requirement.

3.2.3.6 Gateway Add.: It is to set default gateway address of the LAN when communicating by TCP/IP. The default gateway address is 192.168.1.1. You can change the address according to your requirement.

3.2.4 Log Set

3.2.4.1 Mgmt Log Warn: If the free space of management log is within the setting range, warning signals will be heard at every enrollment or verification and warning information will be noticed. The setting range can be No or 1-99.

3.2.4.2 AT Log Warn: If the free space of attendance log is within the setting range, warning information will be noticed. The setting range can be No or 1-99.

3.2.4.3 Reverify (Min.): This menu item is to set time limits to prevent duplicate verification of the same user. If a person's attendance log has existed in the system, his second verification will not be saved in the system within the setting range, which can be No or 1-99 (minute).

3.3 SD/U-disk storage (optional)

Download or upload enrolled user's fingerprint, password and related user information for storage management.

3.3.1 Download Logs

Download management and attendance logs to SD card/U-disk root directory.

3.3.2 Download User Info

Download the enrolled user's fingerprint, password and related user information to SD card/U-disk root directory.

3.3.3 Upload User Info

Upload the user info in root directory of SD card/U-disk, including enrolled user's fingerprint, password and related user information, to the device.

3.4 Sys Info

View system information and device information in this item.

3.4.1 Enrolled User

3.4.2 Enrolled MGR

3.4.3 Enrolled FP

3.4.4 Enrolled PWD

3.4.5 Enrolled Card (custom-made)

3.4.6 AT Logs

3.4.7 Mgmt Logs

View user, manager, fingerprint, password and card enrollment, attendance and management logs.

3.4.8 Free Space

3.4.8.1 FP

3.4.8.2 PWD

3.4.8.3 Card

View free space of fingerprint, password and card enrollment.

3.4.9 Device Info

3.4.9.1 FP Capacity: View fingerprint template capacity:500

3.4.9.2 PWD Capacity: View password capacity: 500

3.4.9.3 Card Capacity: View card capacity: 500

3.4.9.4 Production Date: View production date

3.4.9.5 Serial No.: View serial No.

3.4.9.6 Manufacturer: View manufacturer's name

3.4.9.7 Device Name: View device name: AT 230

3.4.9.8 Algo Version: View algorithm version

3.4.9.9 F/W Version: View firmware version

Chapter Four F.A.Q

1. When it is in TCP/IP communication, why the device can not be searched?
 - 1) Enter the software: **【Device Management→Add】** , and confirm whether the device type been selected is correct.
 - 2) The communication way must be TCP/IP. The search range is within the device ID No.. For IP address and port No., please refer to related information on the device.
 - 3) The default device communication **【Password】** is 0. If you have to change it, please record it correspondingly.
 - 4) Since the device is designated to communicate with named port No., you have to confirm that the port No. is accepted by firewall or other network equipments. (The port can be set as 80).

2. How to cancel the management privilege in the device?

If you forget management password, you can cancel management privilege by software as the following steps.

 - 1) Communicate PC with the device;
 - 2) Enter the **【User Mgmt】** page→**【Cancel Management Privilege】** in the software. Save and upload the setting. Click OK after successful uploading;
 - 3) Enter **MENU** key again on the device, you can operate on the device.

3. After a period of time, why the time on the device is faster or slower than the normal time? And how to adjust it?

The clock chip is the same as that in other electronic equipments. It is common if the time inaccuracy is ± 3 minutes within one month. You can adjust the time in the menu of the device or by software or adopt synchronous time on the PC. (Please refer to Section 3.2.1.1)

4. When there is no response or it is insensitive during verification, how to deal with the problem?
 - 1) It is may caused by the finger which is too dry or too wet, as optics is applied to the operation of fingerprint sensor. The finger which is too dry or too wet may not be verified or the verification is insensitive. You can slightly wet your finger, which will improve the successful verification rate.
 - 2) If user's fingerprint is poor, it is suggested to enroll a new and clear finger for successful verification.
 - 3) The verification way is incorrect. User's fingerprint to be verified shall be parallel with reader surface so as to improve the search time.(Please refer to Section 1.6 Tips for fingerprint enrollment)
 - 4) Enter the menu of the device and set the menu item **【Adjust Sensor】** .(Please refer to Section 3.2.1.3.5)

5. When no one operates the device, why auto-verification will be done and voice indication will be heard?

1) Move the device to shade as direct sunlight or bright light can influence the device to a large extent.

2) Some dust may be on the reader. Please clean the reader with soft and wet cloth.

3) Enter the menu of the device and set the menu item **【Adjust Sensor】** . (Please refer to Section 3.2.1.3.5)

6. Why the device can not download/upload info to U-disk (SD) although the device with U-disk(SD) upload/download function?

Please select U-disk (SD) brands in good quality since U-disk (SD) in poor quality may influence the performance of our device.