

About This Manual

This document describes the functions and operations of the new firmware of the 3/3.5-inch color screen.

Important Claim

Firstly thank you for purchasing this facial and fingerprint hybrid terminal, before use, please read this manual carefully to avoid the unnecessary damage! The company reminds you that the proper user will improve the use affect and authentication speed.

No written consent by our company, any unit or individual isn't allowed to excerpt, copy the content of this manual in part or in full, also spread in any form.

The product described in the manual maybe includes the software which copyrights are shared by the licensors including our company, Except for the permission of the relevant holder, any person can't copy, distribute, revise, modify, extract, decompile, disassemble, decrypt, reverse engineering, leasing, transfer, sub-license the software, other acts of copyright infringement, but the limitations applied to the law is excluded.

Due to the constant renewal of products, the company cannot undertake the actual product in consistence with the information in the document, also any dispute caused by the difference between the actual technical parameters and the information in this document. Please forgive any change without notice.

About this manual

- Not all the devices have the function with ★.The real product prevails.
- > The photograph in this manual may be different from that of the real product. The real product prevails.

contents

1 Instruction for Use	1
1.1 Finger Placement	1
1.2 Verification Modes	1
1.2.1 1: N Fingerprint Verification	1
1.2.2 1:1 fingerprint verification	1
1.2.3 Password Verification	2
1.2.4 ID Card Verification★	2
1.3 Status Bar Icons.	3
2 Main Menu	5
3. User Management	7
3.1. Adding a User	7
3.1.1 Entering a User ID	7
3.1.2 Entering a Name	7
3.1.3 modifing the user role	8
3.1.4 Enrolling a Fingerprint	8
3.1.5 Enrolling an ID Card ★	
3.1.6 Enrolling a Password	9
3.1.7 Enroll Photo★	
3.1.8 Access Control Role	9
3.2 Query a User in All User	
3.2.1 Query by User ID and Name	
3.2.2 Edit and delete a User	11
3.3 Display Style	12
4 User Role	13
5 Access Control Setting★	14
5.1 Access Control Options	14
5.2 Time Schedle	15
5.3 Holiday setting	15
To check the effective time period of a holiday, enter numbers and	16
5.4Access Groups	17
5.5 Set Combined Verification	18
5.6 anti-pass back	19
5.7 Duress alarm parameter	20
6 IC Card management★	22
6.1 Enroll as ID Card	22
6.2 Enroll as Fingerprint Card	23
6.3 Clear card information	23
6.4 Copy card information	24
6.5 Set card parameter value	25
7 Communication Setting	26
7.1 Ethernet	26
7.2 Serial Comm★	26
7.3 PC Connection	27
7.4 Cellular Data Network★	28
7.5 Wireless Network ★	28

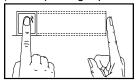
7.6 ADMS★	29
7.7 Wiegand option★	30
7.7.1 Wiegand IN	30
7.7.2 Wiegand OUT	30
8 System	32
8.1 Date/Time	
8.2 Attendance	33
8.3 Fingerprint	34
8.4 Reset.	35
8.5 USB Upgrade	35
9 Personalize	36
9.1 User Interface	36
9.2 Voice	37
9.3 Bell Schedules	
9.4 Punch State Options	39
9.5 Shortcut Key Mappings	39
10 Data Manager	40
10.1 Delete Data	40
10.2Backup Data	41
10.3 Restore Data	41
11 USB Manager	43
11.1 Download	43
11.2 Uplad	44
11.3 Download Options	44
12 Attendance Search	45
13 Print★	46
14 SMS	47
14.1 Add a SMS	47
14.2 Public, Personal and Drafts lists	48
14.3 Message Options	48
14.4 Employee check SMS	48
15 Work Code★	50
15.1 Add a work code	50
15.2 All Work Codes	50
15.3 Set work code	51
16 Auto Test	52
17 System Information	53
Appendix	54
Appendix 1 Description of Text Input Operation★	54
Appendix 2 Image Upload Rules	54
Appendix 3 Print function★	55
Appendix 4 anti-pass back★	55
Statement on Human Rights and Privacy	55
Environment-Friendly Use Description	57

1 Instruction for Use

1.1 Finger Placement

Recommended fingers: The index finger, middle finger or the ring finger; the thumb and little finger are not recommended (because they are usually clumsy on the fingerprint collection screen).

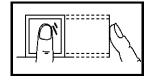
1) Proper finger placement:

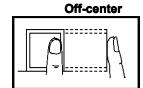


The finger is flat to the surface and centered in fingered guide.

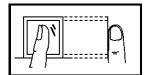
2) Improper finger placement:

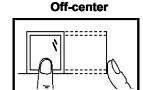
Not flat to the surface





Slanting





1.2 Verification Modes

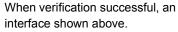
1.2.1 1: N Fingerprint Verification

The terminal compares current fingerprint collected by the fingerprint collector with all fingerprint data on the terminal.

Press your finger on the fingerprint collector by adopting the proper finger placement. For details, see **1.1 Finger**

Placement.







When verification failed, an interface shown above.

1.2.2 1:1 fingerprint verification

In the 1:1 fingerprint verification mode, the terminal compares current fingerprint collected through the fingerprint collector with that in relation to the user ID entered through keyboard. Adopt this mode only when it is difficult to

recognize the fingerprint.



Enter the user ID using keypad on the initial interface. Then press OK. Place the enrolled finger properly on the fingerprint sensor.



When verification successful, an interface shown above.



When verification failed, an interface shown above.

Notes:

1.If it says that the enroll number is wrong, it means that there is no such number or the employee doesn't enroll password.

2.If the device says "Please press again", place the finger on the fingerprint sensor again. You can try another 2 times by default. The repeated times can be set in <u>8.3 Fingerprint option</u>. If it fails after 2 times, return Step 1 for second operation.

1.2.3 Password Verification

In the password verification mode, the terminal compares the password entered with that in relation to the user ID.



Enter the user ID using keypad on the initial interface. Then press **OK**.



Enter password and press **OK**.



When verification successful, an interface shown above.



When verification failed, an interface shown above.

Notes:

If the device says "Invalid ID", enter the password again. You can try another 2 times by default. The repeated times can be set in 8.3 Fingerprint option. If it fails after 2 times, return Step 1 for second operation.

1.2.4 ID Card Verification★

Only the products with a built-in card module support the card verification. The products with a built-in card module

support the following two verification modes:

Verify ID Card Only: Users only need to swipe their ID cards for verification.

ID + Finger Verification: After passing the ID card verification, you also need to perform finger verification.

For the settings of these two verification modes, see <u>6.5 IC Card Settings</u>.

1.Verify ID Card Only

1)If you have your ID card number enrolled in the system, you can pass the verification by swiping your ID card at the swiping area in a proper way.



If the verification is successful, an interface as shown above.



If the verification is not successful, an interface as shown shown above.

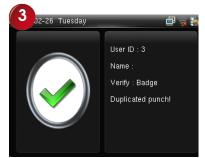
2.ID + Facial Verification



Swipe your ID card properly at the swiping area to enter the 1:1 facial verification mode.



Place the enrolled finger properly on the fingerprint sensor.



If the verification is successful, an interface as shown above.

1.3 Status Bar Icons

Icon		Meaning
G		Indicates whether you are within the coverage of a cellular mobile
E.		network. Signal strength is directly proportional to the number of green
W		bars in the cellular signal icon.
H		G: indicates that the current mobile network is a GPRS network, through
T ₁₁		which the device can access the Internet.
1X	Cellular	E: indicates that the EDGE (GSM) network of your telecom operator is
	signal	available, through which the device can access the Internet.
		W: indicates that the current mobile network is a WCDMA network,
3G	through which the device can access the Internet.	
	H: indicates that the current mobile network is an HSDPA network,	
		through which the device can access the Internet.
		T: indicates that the current mobile network is a TD-SCDMA network,

		through which the device can access the Internet.
		1X: indicates that the current mobile network is a CDMA 1X network,
		through which the device can access the Internet.
		3G: indicates that the 3G UMTS (GSM) network or EV-DO (CDMA)
		network of your telecom operator is available.
×		Indicates that no mobile network is found.
(Alarm	Indicates that you have completed alarm setting.
		Indicates that access control alarm information exists.
<u>-</u>	Ethernet	Indicates that Ethernet is connected.
<u> </u>		Indicates that Ethernet is disconnected.
₽¥	ADMS service	Indicates that the ADMS server is properly connected.
-		Indicates that the ADMS server is disconnected.
- Ar		Indicates that transfer of ADSM communication data is in progress.
\rightarrow	SMS	Indicates that a public SMS exists.
=	- WLAN signal	Indicates that Wi-Fi connection is successful.
(ix		Indicates that a Wi-Fi connection attempt failed.
(A)		Indicates that a Wi-Fi connection attempt failed.

2 Main Menu

When the device is on initial interface, press $^{\text{M/}\leftarrow}$ to open main **menu**, as shown below:





Users: Through this submenu, you can browse the user information stored on the terminal, including the user ID, name, user role, fingerprint, badge number, card, password, card, user photo, add, modify or delete the user information.

User Role: used to set the rights of a user-defined role, that is, rights to menus.

Access Control: Through this submenu, you can set the parameters of the electronic locks and related access control devices.

ICCard: Support Mifare non-touch intelligent card with working frequency of 13.56MHZ. Integrate fingerprint attendance to other systems and support multi-verification mode to meet the demands of different people.

COMM. Settings: Through this submenu, you can set related parameters for communication between the terminal and PC, including the IP address, Gateway, Subnet Mask, Baud Rate, Device ID and Comm Key and so on.

System: Through this submenu, you can set system-related parameters, including the Date Time, Attendance, Fingerprint, Camera, Reset and USB Upgrade, to enable the terminal to meet user requirements to the greatest extent in terms of functions and display.

Personalize: used to meet user requirements to the greatest extent regarding display, audio, ringing, and keyboard definition.

Data Manager.: Through this submenu, you can perform management of data stored on the terminal, for example, Delete Data, Backup Data and Restore Data.

USB Manager: Through this submenu, you can import user information and attendance data stored in a USB disk to related software or other fingerprint recognition equipment.

Attendance Search: For query the record saved in the device, query record function is provided.

Print: used to determine whether to print attendance records immediately.

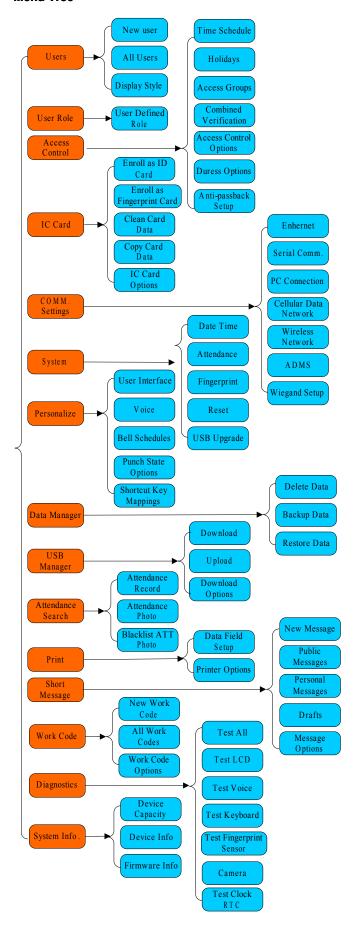
Short Message: used to set a public or private short message. The short message will be displayed to a specified person in the specified time after work attendance check, which facilitates information transfer.

Work Code: used to identify different work types, which facilitates work attendance check.

Diagnostics: This submenu enables the system to automatically test whether functions of various modules are normal, including the Screen, Voice, Keyboard, Fingerprint, Camera and Time.

System Info: To check the current device capacity, device information and its firmware information.

Menu Tree



3. User Management

Through this submenu, you can browse the user information stored on the terminal, including the user ID, name, user role, fingerprint, badge number, card, password, user photo; add, modify or delete the user information. In company's attendance management, for employee's change, the information on fingerprint sensor also needs modification. Therefore, operations including "add, delete, check, modify and so on" can be done on fingerprint sensor.

3.1. Adding a User







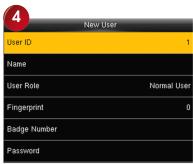
Press ^{M/}←on the initial interface.

Select Users and press OK.

Select **New User** and press **OK**.

3.1.1 Entering a User ID

The terminal automatically allocates an ID starting from 1 for every user in sequence. If you use the ID allocated by the terminal, you may skip this section.



Select **User ID** and press **OK**.



Enter the user ID using keypad then press **OK**.

Tip: The terminal supports the 1- to 9-digit user IDs by default. If a prompt message "The

If a prompt message "The user ID already exists!" is displayed, enter another ID.

3.1.2 Entering a Name

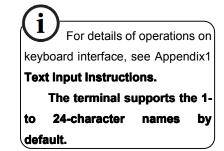
Enter a user name through the keyboard.



Press ▼ to select **Name** and press **OK**.



Press * to switch input method and enter the Name, then press **OK**.



3.1.3 modifing the user role





Press ▼ to select **User Role** and press **OK**.

Press ▼ to select the **role** and press **OK**.

Super Admin: The super administrator has the operation rights to all menu functions.

Normal user: If the system has an administrator, a common user is entitled only to authentication using his/her fingerprint, password, or card. If the system does not have an administrator, a common user has the operation rights to all menu functions.

User Defined Role: A user-defined role can be assigned some other menu functions in addition to the functions available for a common user. (When logging in as a super administrator, you have the rights to assign menu functions to a customized role.)

3.1.4 Enrolling a Fingerprint



Press ▼ to select **Fingerprint** and press **OK**.



Place your finger on the fingerprint sensor properly. For details, see 1.1 Finger Placement.

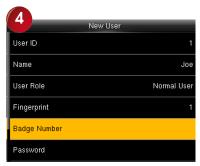


Place the same finger on the fingerprint collector for three consecutive times correctly.



Enrollment succeeds. If the enrollment fails, the system will display a prompt message and return to the [Enroll Fingerprint] interface. In this case, you need to repeat the operations of step 2.

3.1.5 Enrolling an ID Card ★



Press ▼to select **Badge Number** and press **OK**.

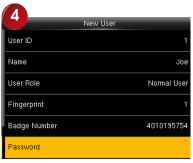


Swipe your ID card properly in the swiping area.



Read Successfully!

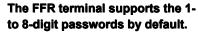
3.1.6 Enrolling a Password



Press ▼ to select **Password** and press **OK**.



Enter a password using keypad then press **OK**.

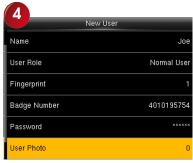




Re-enter the password according to the system prompt and then press **OK**.

3.1.7 Enroll Photo★

If you have enrolled your photo in the system, the system will display your enrolled photo in addition to your ID and name after you pass the verification.



Press ▼to select **User Photo** and press **OK**.



stand naturally in front of the screen. Press **OK**



press ESC to directly return to previous interface

3.1.8 Access Control Role

User access control option is to set open door access aimed at everybody, including subgroup setting, verification mode, using time zone, duress fingerprint management.

Access group: Allocate enrolled user to different groups for management convenience.

Verification mode:

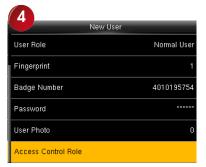
1) Group verification type: Whether the user use his group's verification type

2) Individual verification type: Select the user's verification type. If group verification type is not used, others' verification type won't be affected.

Duress Fingerprint: User enrolls a new fingerprint or specifies an enrolled fingerprint in the fingerprint sensor as duress fingerprint. At any time anywhere, duress alarm will generate after the fingerprint passes verification.

Apply Group Time Period:

- 1) Select "ON", group time zone, the user use his group's default time zone
- 2) Select "OFF", set user unlocking time. If group time zone is not used, others' unlocking time won't be affected.



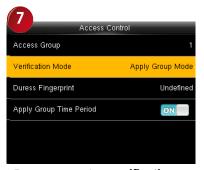
Press ▼ to select **Access**Control Role and press OK.



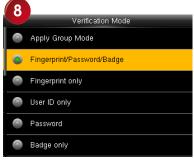
Press **OK** enter to **Access Group** interface



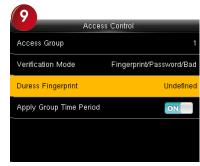
Enter the user group using keypad then press **OK** to return.



Press ▼ to select **verification mode** and press **OK**.



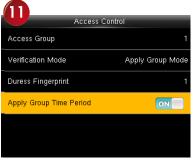
Press ▼ to select verification type and press **OK**.



Press ▼ to select **Duress**Fingerprint and press **OK**.



Press **◄**/**▶**to select enrolled fingerprint and press **OK**.



Press ▼ to select **Apply Group Time Period** ,press **OK** to select to Whether the user use his group's default time zone



When select "OFF",Press ▼ to select **Time period 1**.

3.2 Query a User in All User

To facilitate administrators to locate a user quickly from a large number of enrolled users, the FFR terminal enables user query by his/her "User ID" and "Name". (Location Search)



Press ^{M/}←on the initial interface.



Select **Users** and press **OK**.



Press ▼ to Select **All User** and press **OK**.

3.2.1 Query by User ID and Name



Enter the user ID using keypad to query to view all users.



The cursor to the user to be queried.

Press * on the search interface to change an input method and press letter keys of the numeric keyboard to search by name.

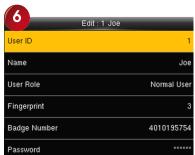
3.2.2 Edit and delete a User



Press ▼ to select a **User** and press **OK**.



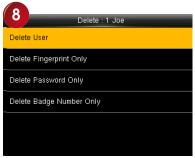
Press **OK** to enter User Info interface.



The User ID cannot be modified, and the other operations are similar to those performed to add a user.



Press ▼ to select **Delete** and press **OK**.



Press ▼ to select item need delete and press **OK**.

When there is only one super administrator, all roles are deleted upon deletion of the super administrator's user rights.

3.3 Display Style



Press ^{M/}←on the initial interface.



Select **Users** and press **OK**.



Press ▼ to Select **Display Style** and press **OK**.



Press ▼ to select dispiay style and press **OK to** return.



Single Line



Multiple line



Mixed Line

4 User Role

Set the rights of a user-defined role, that is, rights to menus.



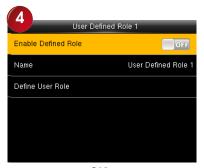
Press^M/← on the initial interface.



Press ► to select **User Role** and press **OK**.



Press ▼ to select **User Defined Role 1** and press **OK**.



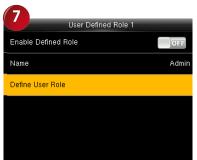
Press **OK** to open.



Press ▼ to Select **Name** and press **OK**.



Press * to switch input method and enter the **Name**, then press **OK**.



Press ▼ to select **Define User**Role and press **OK**



Press ▼ and **OK** to select rights.

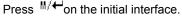
Press $\boldsymbol{\mathsf{ESC}}$ to exit.

Remarks: The T9 input method is available only for some devices. If you need the T9 input method, contact the business representative of our company.

5 Access Control Setting★

Access control option is to set user's open door time zone, control lock and related device's parameters.







Press ► to select **Access control** and press OK.



Press ▼ to select **Access Control Options** and press OK.

To unlock, the enrolled user must accord with the following conditions:

- 1. The current unlock time should be in the effective time of user time zone or group zone.
- 2. The group where user is must be in access control (or in the same access control with other group, to open the door together).

The system default the new enrolled user as the first group, default group time zone as 1, access control as the first group, and the new enrolled user is in unlock (if user has modified the related setting of access control, the system will be changed with user's modification.)

5.1 Access Control Options

Set parameters to control locks and related device.

Door Lock Delay(s): Device control electronic lock is in enabling time. (effective value 1∼10 seconds)

Door Sensor Delay(s): After the door is open, delay the time to check door sensor. If door sensor state is different from the normal state of door sensor mode, alarm will be given off. This time is called door sensor delay. (effective value: $1 \sim 255$ seconds)

Door Sensor Type: It includes NONE, NC and NO. NONE means there is no door sensor. NO means the door is open normally. NC means the door is closed normally.

Door Alarm Delay(s): When abnormal door sensor state is detected, alarm will be given off after some time. This time is door sensor alarm. (effective value: $1\sim999$ seconds)

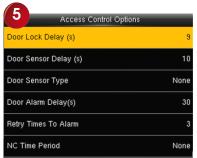
Retry Time To Alarm: When the failed press times reach the set times, alarm signal will come out. (effective value $1\sim9$ times) If **Retry Time To Alarm** is set NONE, no alarm is raised upon failed pressing during authentication.

NC Time Period: Set time zone for access control NC. Nobody can unlock during this time zone.

NO Time Period: Set time zone for access control NO. The lock is always in enabling state during this time zone. **Operation:**









Door Sensor Delay (s)

Door Sensor Type

Door Alarm Delay(s)

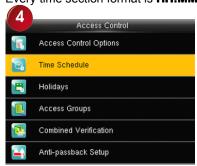
Enter to **Access Control Options,**As shown in the figure:

Press ▲/▼to move cursor to the item to be set. If it is the input box, press numeric keys on small keyboard to input the value. If it is the roll box, press ◀/▶ to switch the values. After setting, press menu directly to return to the last interface. Press "ESC" to cancel setting and return to the last interface.

Notice: Close the door properly if the Normally Open or Normally Closed period is set; otherwise, alarm signals may always be generated during the Normally Open or Normally Closed period.

5.2 Time Schedle

Time zone is the minimum unit of access control option. The whole system can define 50 time zones. Every time zone defines seven time sections (namely, a week). Every time section is the effective time zone within 24 hours everyday. Every user can set 3 time zones. "or" exists among the three zones. It is effective if only one is satisfied. Every time section format is **HH:MM-HH:MM**, namely, accurate to minute.



Press ▼to select **Time Schedule** and press **OK**.



Use numeric keys to search for a time period in the range from 1 to 50. Press ▼ to select the item to be set and press **OK**.



Access Control Options

10

30

None

None

None

Press ◀/► to select a time option and press ▲/▼ to set time. After setting a period of time, press **OK** to save the setting and exit.

If end time is smaller than start time (23:57- 23:56), the whole day is forbidden. If end time is bigger than start time (00:00- 23:59), it is effective section.

Effective time zone for user unlocking:00:00-23:59 or end time is bigger than start time.

Notes: The default time period number 1 indicates all-time access (that is, newly registered users are unlocked).

5.3 Holiday setting

Special access control time may need during holiday. It is different to modify everybody's access control time. So a holiday access control time can be set, which is applicable for all employees.

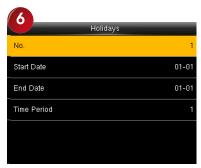
If holiday access control time is set, user's open door time zone during holiday subject to the time zone here.



Press ▼ to select **Holidays** and press **OK**.



Press **OK** to **Add Holiday.**



Press **OK**.



Enter the **No.** using keypad.Press **OK**.



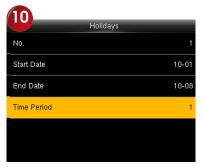
Press ▼to select **Start Date** and **End Date** and press **OK**.



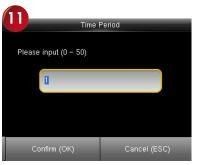
Press ◀/▼ to select a time option and press ▲/▼ to set time.

After setting a period of time, press

OK to save the setting and exit.



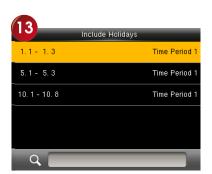
Press ▼to select **Time period** and press **OK**.



Enter the **Time period** using keypad. Press **OK** to return.



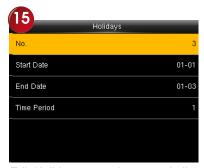
Press ▼to select **All Holidays** and press **OK**.



To check the effective time period of a holiday, enter numbers and you can view the duration of a holiday. Press **OK**.



Press **OK** to enter Edit Hoildays.



Edit Hoildays operations are similar to those performed to **add Hoildays**.



Press ▼to select **Delete** and press **OK**.

5.4Access Groups

Grouping is to manage employees in groups. Employee in groups use group time zone by default. Group members can also set user time zone. When group authentication and user authentication overlap, user authentication takes precedence over group authentication. Every group can hold there time zones. The new enrolled user belongs to Group 1 by default. He can also be allocated to other groups.

Operation:

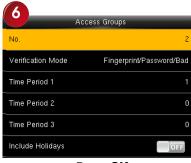
1) Add group time zone



Press ▼to select **Access Groups** and press **OK**.



Press **OK** to add New Group



Press **OK**



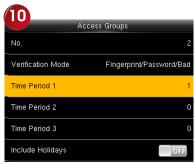
Enter the **No.** using keypad and press **OK**.

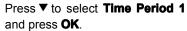


Press ▼to select **Verification Mode** and press **OK**.



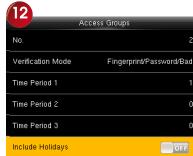
Press ▲/▼to select Verification Mode, press **OK** to save and return.







Enter the No. using keypad and press OK.



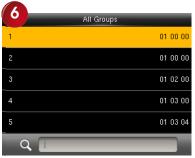
Press ▼ to select Include Holidays, press **OK** to enable the item

Notice:

- 1. If holiday is effective, only when there is intersection between group zone and holiday time zone, can the group member open the door.
- 2. If holiday is ineffective, the access control time of group member won't be affected by holiday.
- 2) Edit and Delete group time zone

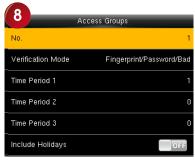


Press ▼to select **All Groups** and press OK.



Press ▼ to select one of **All Groups** Press ▼ to select **Edit** and press **OK**. and press OK.

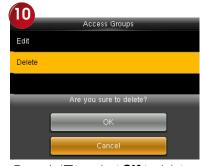




The **No.** cannot be modified, and the other operations are similar to those performed to add a New Groups. Press **ESC** to reture.



Press ▼ to select **Delete** and press



Press▲/▼to select **OK** to delete the Access Groups.

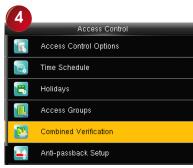
5.5 Set Combined Verification

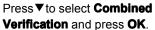
Make various groups into different access controls to achieve multi-verification and improve security. An access control can be made up of 5 groups at most.

Operation:

1)Add Combined Verification

For example, to add an unlocking combination which needs the verification of both group 1 and 2, as shown below:





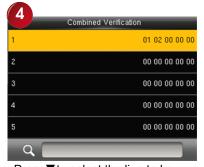


Press **OK** to add a new **Combined Verification**.



Enter the **No.** using keypad and press **OK**.

2) Edit and Delete Combined Verification



Press ▼to select the line to be edited, press **OK**.



Enter the **No.** using keypad and press **OK**.



When setting successful, an interface shown above.

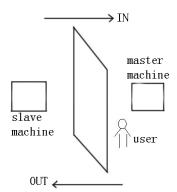
Notes: To delete an unlocking combination, set the group ID to all 0s.

5.6 anti-pass back

[overview]

Sometimes, some illegal person follows the employee into the gate, which will bring security problem. To prevent such risk, this function is enabled. In record must match out record, or the gate won't be open.

This function needs two machines to work together. One is installed inside the door (master machine hereinafter), the other is installed outside the door (slave machine hereinafter). Wigand signal communication is adopted between the two machines.



[working principle]

The master machine has Wigand In and slave machine has Wigand Out. Connect Wigand Out of slave machine to Wigand In of master machine. Wigand output from slave machine must not own machine ID. The number sent to master machine from slave machine must be found in the master machine.

[function]

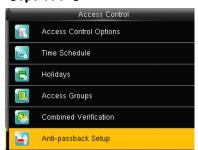
Judge whether it is anti-pass back according to user's recent in-out record. In record and out record must be matched. This machine supports out, in, or out-in anti-pass back (enter machine menu—setting—system setting—advanced setting—anti-pass back).

When master machine is set as "out anti-pass back",if user wants to come in and go out normally, his recent record must be "in", or he cannot go out. Any "out" record will be "anti-pass back refused". For example, a user's recent record is "in", his second record can be "out" or "in". His third record is based on his second record. Out record and in record must match. (Notice: if customer has no record before, then he can come in but cannot go out.)

When the master machine is set as "in anti-pass back",if the user wants to come in and go out normally, his recent record must be "out", or he cannot go out. Any out record will be "anti-pass back refused" by the system. (Notice: if the customer has no former record, then he can go out, but cannot come in.)

When the master machine is set as "out-in anti-pass back",if the user wants to come in and go out normally, if his recent record is "out" and "in", then his next record must be "in" and "out".

[operation]





Press ▼ to select **Anti-Passback Setup** and press **OK**

Enter to **Anti-Passback Setup** interface

Anti-pass back

No anti-passback: The door will be opened only when a person is authenticated by the master host. but the attendance state isn't save.

Out anti-passback: If the device does not store the record of a person, the person can check out after the first comparison. In case that a person's record has been stored in the device, an alarm will be raised when the person checks out without the corresponding entry record in the device. If only out anti-passback is enabled, entry is allowed at any time.

In anti-passback: If the device does not store the record of a person, the person can check in after the first comparison. In case that a person's record has been stored in the device, an alarm will be raised when the person checks in without the corresponding exit record in the device. If only in anti-passback is enabled, exit is allowed at any time.

In/out anti-passback: If the device does not store the record of a person, the person can check in and out after the first comparison. In case that a person's record has been stored in the device, an alarm will be raised when the person checks in or out without a corresponding exit or entry record in the device.

Attendance State Saved:No anti-passback, Just the save the attendance state.

Device status

None: When the status of a device is set to None, the anti-passback function is disabled on the device.

Entry control: When a device is used to control entry, the device saves only the entry records.

Exit control: When a device is used to control exit, the device saves only the exit records.

5.7 Duress alarm parameter

There is duress alarm parameter setting in the device. When employee come across duress, select duress alarm

mode, the device will open the door as usual. But the alarm signal will be sent to backstage alarm.

Duress Function: If select "Yes", press help then press fingerprint in the following 3 seconds or press ID number, and duress alarm will come out after successful identification. If select "No", it is useless to press help. (help can be set in keyboard definition.)

Alarm on 1:1 Match: if select "Yes", when user use 1:1 match mode, alarm signal will come out. Or there is no alarm signal.

Alarm on 1:N Match: if select "Yes", when user use 1:N match mode, alarm signal will come out. Or there is no alarm signal.

Alarm on Password: If select "Yes", when user use password verification mode, alarm signal will come out. Or there is no alarm signal.

Alarm Delay(s): After duress alarm gets started, the alarm signal is not output directly. But it can be defined. After some time, alarm signal will be generated automatically. (0-999 seconds).

Operation:



Press ▼to select **Duress Options** and press **OK**.



Enter to **Access Control Options,** As shown in the figure:

Press ▲/▼to move cursor to the item to be set. If it is the input box, press numeric keys on small keyboard to input the value. If it is the roll box, press ◀/▶ to switch the values. After setting, press menu directly to return to the last interface. Press "ESC" to cancel setting and return to the last interface.

6 IC Card management★

Support Mifare non-touch intelligent card with working frequency of 13.56MHZ. Integrate fingerprint attendance to other systems and support multi- verification mode to meet the demands of different people.

Operation:



Press ^{M/}←on the initial interface.



Press►to Select Users and press **OK**.



Select **Enroll as ID Card** and press **OK**.

6.1 Enroll as ID Card

Only user ID is needed to enroll.

Operation

1. Enroll



Enter the user ID using keypad then press **OK**.



Swipe your ID card properly in the swiping area.



Operation succeeded!

Remarks: If the user ID you are deleting already exists on the device, a message, asking you whether to replicate information to the card, is displayed.

2. Verification:

Swipe your ID card properly in the swiping area. When the verification is successful, the device will give prompt.



For a machine with the access control function, you can set the authentication mode in the access control setting. For a machine without the access control function, you can set the authentication mode on the new user interface.

6.2 Enroll as Fingerprint Card

Enroll fingerprint and write fingerprint into card.

Operation

1. Enroll



Press ▼to select Enroll as
Fingerprint Card and press OK.



Enter the user ID using keypad then press **OK**.



Press ▼ to select a finger and press **OK**.



Place the same finger on the fingerprint collector for three consecutive times correctly. For details, see 1.1 Finger Placement



Enrollment succeeds. Swipe your ID card properly in the swiping area.



Operation succeeded!

2. Verification:



Swipe your ID card properly in the swiping area.

Operation succeeded!



"Please press your finger"
Place your finger on the fingerprint sensor properly.



Successfully verified. As shown in the figure:

Notes: If the pressed fingerprint is different from that stored in the card, the verification will fail.

6.3 Clear card information

Delete all the information in the card being operated at present.

Operation



Press ▼ to select **Clean Card Data** and press **OK**



Swipe your ID card properly in the swiping area..



Deleting...



Operation succeeded!

(i)

Put the card in the induction area, waiting for device to delete all the information in the card. If the card data has been stored in the device, the device will remind you whether to delete the information in the device or not. "Yes" is to delete the user's fingerprint and information in the device. "No" is to keep the information.

6.4 Copy card information

Copy card information to the device (after copy, the fingerprint is still in the card), then press fingerprint attendance directly on the device or using Mifare card.

Operation



Press ▼to select Copy Card Data and press OK.



Select **Copy User Data Only** and press **OK**.



Swipe your ID card properly in the swiping area..



Operation succeeded!

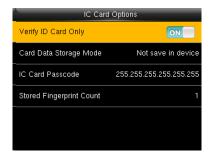
Copy User Data And Fingerprint:

Press ▼ to select Copy User Data And

Fingerprint the operations are similar to those performed to **Copy Card Data**.

6.5 Set card parameter value

Set password of Mifare card and decide whether the information should be saved or not.



Verify ID Card Only: If this parameter is set to "YES", you pass the verification only after user ID card verification. If this parameter is set to "NO", you need to verify your password or fingerprint after card verification.

Card Data Storage Mode: Decide whether to save the enrolled information to the device when enrolling card or fingerprint card. If "Not to save" is selected, user information is saved to the card only. If "Only user" is selected, the employee ID and card number are saved to the device. If "User + fingerprint" is selected, the employee ID, card number, and fingerprint are saved to the device. In the latter two modes, data is saved to both the card and the device.

IC Card Passcode: After the password is set, the device will write password into the enrolled fingerprint card. Then the fingerprint card can only be used on this device.

Stored Fingerprint Count:: Used to set the number of fingerprints saved to a card. Up to 10 fingerprints can be saved.

Note: When the device serves as access control machine to provide the high-level access control function, the user information must be saved to the device for authentication purposes. For details, see <u>5 Access Control Setting</u>.

7 Communication Setting

Set parameters for communication between the device and a PC. The parameters include the IP address, gateway, subnet mask, baud rate, machine ID, and login password.







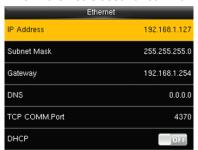
Press ► to **COMM. Settings** and press **OK**.

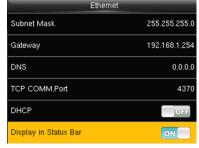


Select **Ethernet** and press **OK**.

7.1 Ethernet

When Ethernet is used for communication of device and PC, the following settings need to be checked:





IP Address: IP is 192.168.1.201 by default. You can modify it if it is necessary. But it cannot be the same with that of PC

Subnet Mask: It is 255.255.255.0 by default. You can modify it if it is necessary.

Gateway: It is 0.0.0.0 by default. If the device and PC are in different net segment, it is necessary to set address.

DNS: The DNS Server is 0.0.0.0 by default and can be changed as required.

TCP COMM Port: It is 4730 by default. You can modify it if it is necessary.

DHCP: short for Dynamic Host Configuration Protocol, which is used by a server to allocate dynamic IP addresses to clients on a network

Display in Status Bar: used to set whether to display network icons in the status bar of the main interface.

7.2 Serial Comm★

Check the following settings during communication with the device through a serial port (RS-232 or RS-485):



RS232: Whether use RS232 to communicate. Select "Yes" if RS232 is to be used.

RS485: Whether use RS485 to communicate. Select "Yes" if RS485 is to be used.

Baudrate: Used for communication with PC. There are five options: 9600, 19200, 38400, 57600 and 115200. If the communication speed is high, RS232 is recommended. If the communication speed is low, RS 485 is recommended.

USB: Whether use USB to communicate. Select "Yes" if USB is to be used.

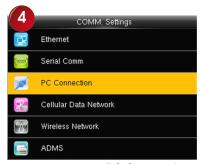
UCB Baudrate: Used USB to communication with PC. There are five options: 9600, 19200, 38400, 57600 and 115200. Recommended to 115200.

7.3 PC Connection

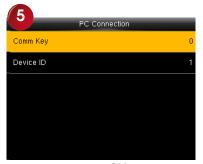
To improve the security of attendance data, connection password needs to be set here. Connection password must be input when PC software is to connect device to read data.

Comm Key: System password is 0 by default.(namely, there is no password.) it can be set as other value. After setting, the password must be input if software is to communicate with device. Or the connection will fail. The password length is $1\sim6$ digits.

Device ID: 1—254. If RS232/RS485 is used, this ID needs to be input on the software communication interface.



Press ▼to select **PC Connection** and press **OK**.



Press **OK**.



Enter a password,press ▼ to select Confirm(OK) and press OK.

7.4 Cellular Data Network★

When the equipment is in the Dial-Up Network, ensure that the device is within the signal coverage of a mobile telecom operator (GPRS or 3G), and it is must known of the used modem type, APN name and access number and so on.



Cellular Data Network: whether to enable access to a mobile network

APN Setup: used to set APN information, such as the access number, user name, and password

Heartbeat server: used to detect the mobile network connection status. The terminal sends an ICMP packet to the heartbeat server regularly to check whether the terminal is online. When the terminal is offline, the device automatically performs dial-up again. Therefore, when you configure the heartbeat server, ensure that the heartbeat server can be pinged and is always online.

Remarks: In normal conditions, the IP address of the heartbeat server can be set to the IP address of the ADMS server.

Details: includes information about the connected mobile network, such as the network mode, telecom operator, IP address, and received and sent data.

APN Setup:



APN: Access Point Name, used to identify GPRS / CDMA types of business.provided by a telecom operator. APN setting is not supported by CDMA networks.

Dial Number: Mobile network code (MNC)

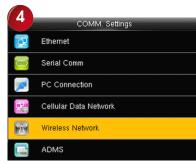
User Name and Password: used to check whether a user has the rights to access a network

7.5 Wireless Network★

Wireless Fidelity (WIFI) is also known as the <u>802.11b</u> standard. Our terminal is also WIFI-capable. It supports either built-in or external WIFI module to implement wireless data transmission over the WIFI. The wireless network environment is provided for the device.

WIFI: Press OK to open or close WIFI.

Operation:



Press ▼to select **Wireless**Network and press OK.



Press **WIFI** can open or close the function.



Pres ▼to select "dlink-123456" and press **OK**.







Enter a password,press ▼to select **Confirm(OK)** and press **OK**.

Connected, as shown in the figure:

Connected, the initial interfaceas shown in the figure:

7.6 ADMS★

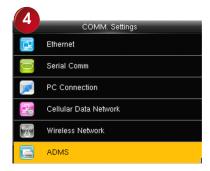
This submenu is used to connect the ADMS Server settings, such as ADMS Server IP address, port settings, and whether to enable proxy settings.

Enable Domain Name: When the domain name mode is enabled, you access a website using a domain name in the format of http://; otherwise, you must enter an IP address for website access.

Server Address: IP address of ADMS Server

Server port:Port used by ADMS Server

Enable Proxy Server: When you enable the proxy function, set the IP address and port number of the proxy server. This option indicates whether to use a proxy IP address. You may choose to enter the proxy IP address or the server address for Internet access, whichever you like.





ADMS Server settings,



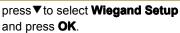
Connected, the initial interfaceas shown in th'e figure:

7.7 Wiegand option★

7.7.1 Wiegand IN

Operation:







press **OK**.



Press ▲/▼ and **OK** to select items.
When the setting is completed, press **OK** to save the setting and exit.

Wiegand Format::The system has two built-in formats Wiegand 26-bits and Wiegand 34-bits.

Wiegand Bits: specifies the number of bits occupied by the wiegand data.

pulse width: Pulse width is 100 microseconds by default, which can be adjusted from 20 to 100.

Pulse interval:It is 1000 microseconds by default, which can adjusted between 200 and 20000.

ID Type: specifies the content of the wiegand input signal, which can be an employee ID or a card ID based on your requirement.

Format Details: displays the information defined by various bits of the selected wiegand format.



7.7.2 Wiegand OUT

Wiegand Format: The system has two built-in formats Wiegand 26-bits and Wiegand 34-bits.

Failed ID: defines the output value for user authentication failures. The output format is determined by the setting of **Wiegand format**. The value ranges from 0 to 65535.

Site code:Similar to device ID. But the code is specified by user. Different device can be repeated. (With range of 0-256)

pulse width: Pulse width is 100 microseconds by default, which can be adjusted from 20 to 100.

Pulse interval: It is 1000 microseconds by default, which can adjusted between 200 and 20000.

ID Type: specifies the output content for successful user authentication. You can select the employee ID or card ID.

Format Details: displays the information defined by various bits of the selected wiegand format.

Operation







Press ▲/▼ and **OK** to select items. When the setting is completed, press **OK** to save the setting and exit.

8 System

Set system parameters to meet user's demand as many as possible. Including the **Date Time**, **Attendance**, **Fingerprint** and so on.







Select system and press **OK**.



Select **Date Time** and press **OK**.

8.1 Date/Time



Select **Date/Time** and press **OK**.



Press ▲/▼ and **OK** to select items. When the setting is completed, press **OK** to save the setting and exit.

Set Date/Time: This parameter is used to set the date and time of the FFR terminal.

24-Hour Time: This parameter is used to set the time display mode of the initial interface. Select "ON" to adopt the 24-hour display mode. Select "OFF" to adopt the 12-hour display mode.

Date Format: This parameter is used to set the format of the date displayed on the all interface of the FFR terminal.

Calender Type: The device support the three calender type, like **Gregorian**, **Iran Gregorian** and **Iran Lunai.** You can modify it if it is necessary.

Daylight Saving Time★

DLST, also called Daylight Saving Time, is a system to prescribe local time in order to save energy. The unified time adopted during the system date is called "DLST". Usually, the time will be one hour forward in summer. It can make people sleep early and get up early. It can also reduce lighting to save power. In autumn, the time will be recovered. The regulations are different in different countries. At present, nearly 110 countries adopt DLST.

To meet the demand of DLST, a special **option** can be customized on our RF Card Time & Attendance recorder. Make the time one hour forward at XX (minute) XX (hour) XX (day) XX (month), and make the time one hour backward at XX (minute) XX (hour) XX (day) XX (month) if necessary.

Operation:

- 1) Set DLST as "enable".
- 2) Input DLST start time and end time.

For example, if 08:00, April 1st is set, the device enter DLST, and the time will be one hour forward. If it is 08:00, August 1st, the device will reset normal time.

3) Press OK to save setting. Press "ESC" to exit without saving.







Open Daylight Saving Time

Set time in By date/time

Set time in By week/day

Daylight Saving Mode: You can select the date mode (month-day-hour) or week mode (month-weekday-hour). By default, the date mode is used.

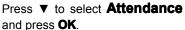
Daylight Saving Setup: used to set the DST start time and end time.

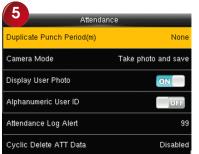
Description of the date mode and week mode:

- 1. If the month when DST starts is later than that when DST ends, DST spans two different years. For example, the DST start time is 2012-9-1 4:00 and the DST end time is 2013-4-1 4:00.
- 2. Assume that the week mode is selected and the DST starts from Sunday of the sixth week of September in 2012. According to the calendar, September of 2013 does not have six weeks but has five weeks. In this case, in 2013, DST starts at the corresponding time point of the last Sunday of September.
- 3. Assume that the DST starts from Monday of the first week of September in 2012. According to the calendar, the first week of September in 2012 does not have Monday. In this case, the DST starts from the first Monday of September in 2012.

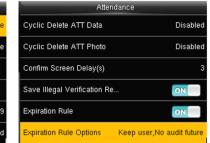
8.2 Attendance







Press ▲/▼ and **OK** to select items. When the setting is completed, press **OK** to save the setting and exit.



Duplicate Punch Period (m): If a user's attendance record already exists and the user punches in again within the specified period (unit: minute), his/her second attendance record will not be stored. (Value scope: 1—999999minutes)

Camera Mode: when the employee is in attendance record, grasp photo and save it? It is aimed at the setting of all

employees.

There are 5 modes:

No photo: there is no photo taken during attendance record.

Take photo, no save: take photo but not save photo during attendance record.

Take photo and save: take photo and save photo during attendance record.

Save on successful verification: When an employee passes the work attendance check, a picture of the employee is taken and saved.

Save on failed verification: When an employee fails the work attendance check for three times consecutively, a picture of the employee is taken and saved.

Display User Photo: whether the picture of a user is displayed when the user passes the work attendance check **Alphanumeric User ID** ★: whether employee IDs can contain letters. Employee IDs with letters help classify employees.

Attendance Log Alert: When the available space is insufficient to store the specified number of attendance records, the FFR terminal will automatically generate an alarm. (Value scope: 1—9999)

Cyclic Delete ATT Data: specifies the maximum number of attendance records that can be deleted at a time when the number of attendance records reaches the upper limit. This function can be disabled; otherwise, the value ranges from 1 to 999.

Cyclic Delete ATT Photo: specifies the maximum number of attendance pictures that can be deleted at one time when the number of attendance pictures reaches the upper limit. This function can be disabled; otherwise, the value ranges from 1 to 99.

Confirm Screen Delay(s): specifies the time for displaying the authentication result. The value ranges from 1s to 9s.

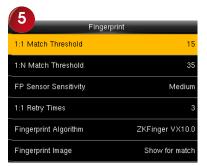
Save Illegal Verification Record: Save the Illegal Verification Record generated in Illegal Time Zone and Illegal Combination or not when the Access Control was Enable.

Expiration Rule: You can select one of the three conditions: retaining user information and not saving attendance records; retaining user information and saving attendance records; deleting user information.

8.3 Fingerprint



Press ▼ to select **Fingerprint** and press **OK**.



Press ▲/▼ and **OK** to select items. When the setting is completed, press **OK** to save the setting and exit.

- 1:1 matching threshold value: The similarity of ID + fingerprint verification and the enrolled template
- **1:N matching threshold value**: The similarity of verification and the enrolled template

Recommended matching threshold value:

		Matching threshold value		
FRR FAR	1:N	1:1		
high low	45	25		
middle middle	35	15		
low high	25	10		

FP Sensor Sensitivity: used to set the sensitivity of fingerprint collection. The default value **Medium** is recommended. You can set the sensitivity of fingerprint collection to **High** when the response to finger scan lags in a dry environment. When the usage environment is humid, you can set the sensitivity of fingerprint collection to **Low** if the fingerprint is difficult to identify.

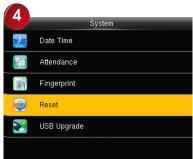
1:1 Retry Times: This parameter is used to set the retry times in the event of failure of 1:1 verification or password verification due to absence of fingerprint enrollment or improper finger placement, so as to avoid repetitive operations.

Fingerprint Algorithm: This parameter is used to select the fingerprint algorithm version between 9.0 and 10.0. Please select the algorithm version with caution because the fingerprint templates of these two algorithm versions are incompatible.

Fingerprint Image: This parameter is used to set whether to display the fingerprint image on the screen during fingerprint enrollment or comparison. It has two values: Permanent Display and No Display.

8.4 Reset

Make device's communication option, system option and so on reset to the state of factory.



Attendance

Fingerprint

Reset?(OK) to reboot.

OK

Cancel

Press ▲ / ▼ to select OK (

Date Time

Press ▼ to select **Reset** and press **OK**.

Press ▲ / ▼ to select **OK** or **Cancel** and press **OK**.

8.5 USB Upgrade

You can upgrade the firmware program of the FFR terminal by using the upgrade file in the USB disk through this parameter



If you need the upgrade file, contact the technical support personnel. Generally, firmware upgrade is not recommended. Upgrade using a USB flash drive can be performed only for a machine that provides the USB flash drive function.

9 Personalize







Press ^{M/}←on the initial interface.

Select **Personalize** and press **OK**.

Select **User Interface** and press **OK**.

60

30

Analog And Digital Clock

Menu Screen Timeout(s)

Slide Show Interval(s)

ldle Time To Sleep(m)

Main Screen Style

Company Name

Idle Time To Slide Show(s)

9.1 User Interface

According to their personal preferences, users can set up the initial interface style.







Press ▲/▼ and **OK** to select items. When the setting is completed, press **OK** to save the setting and exit.

Wallpaper: Users can choose wallpaper to display on the screen.

Language: You can select a language for the device based on your requirements.

Lock power Key: To prevent hostile power-off, select whether to lock power-off or not. "disable": the power is off 3 seconds after pressing power-off. "enable": it is ineffective after pressing power-off.

Menu Screen Timeout(s): The device will display the main interface automatically when no operation is performed on a menu within the menu timeout time. (This function can be disabled; otherwise, the value ranges from 60s to 99999s.)

Idle Time To Slide Show(s): The advertisement picture is displayed when no operation is performed on the main interface within the waiting time. (This function can be disabled; otherwise, the value ranges from 3s to 999s.)

Slide Show Interval(s): This parameter is used to set the picture cycle interval (value scope: 0—999 seconds).

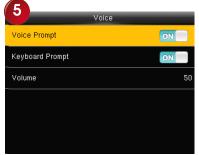
Idle Time To Sleep(m): This parameter is used to specify a period after which the device is put in sleep mode if no operation within this period. You can wake up the device from sleep by pressing any key or touching the screen. Numerical range in 1 ~ 30 minutes, the factory default for 3 minutes.

Main Screen Style: used to set where and how the clock and status key are displayed on the main screen **Company Name ★**: When a company name is specified, you can choose whether to print the company name in print setting.

Notes: Company name is only in the case of open print function can be set.

9.2 Voice





Press **▼** to select **Voice** and press **OK**.

Press $\blacktriangle/\blacktriangledown$ and **OK** to select items. When the setting is completed, press **OK** to save the setting and exit.

Voice Prompt: This parameter is used to set whether to play voice prompts during the operation of the FFR terminal. Select "ON" to enable the voice prompt, and select "OFF" to mute.

Keyboard Prompt: This parameter is used to set whether to generate beep sound in response to every keyboard touch. Select "ON" to enable the beep sound, and select "OFF" to mute.

Volume: This parameter is used to adjust the volume of voice prompts.

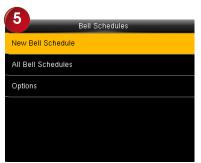
9.3 Bell Schedules

Many companies need bell for on-duty and off-duty. Some use manual bell. Some use electronic bell. To save cost and provide convenience for management, we integrate bell functions to fingerprint sensor. You can set time for bell. When it is the scheduled time, The device will automatically play the selected ringtone and trigger the relay signal. The ringtone playing does not stop until the ringing duration has elapsed. By default, the device provides 15 ringtones.

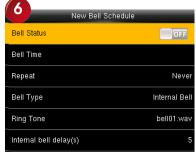
1. Adding a Bell



Press ▼to select **Bell Schedules** and press **OK**.



Press ▼ to select **New Bell Schedules** and press **OK**.



Press▲/▼and **OK** to select items. When the setting is completed, press **OK** to save the setting and exit.

Bell Status: Whether to enable this bell

Bell Time: The bell rings automatically when it is the specified time.

Repeat: specifies whether to repeat the ringtone.

Bell Type: You can select between internal ringing and external ringing. For internal ringing, the ring tone is played by the loudspeaker of the terminal. For external ringing, the ring tone is played by an external electric bell that is wired with the terminal.

Ring Tone: Bell ring

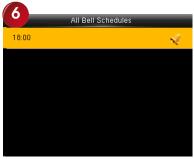
Internal bell delay(s): specifies the duration for ringtone playing. The value ranges from 1s to 999s.

Notice: Only some models have external ringing options.

2. Edit and delete a Bell



Press ▼ to select **Bell Schedules** and press **OK.**



Select **New Bell Schedules** and press **OK**.



Select **Edit** and press **OK**.



Edit a Bell the operations are similar to those performed to add a Bell.



Press ▼ to select **Delete** and press **OK**.



Press \blacktriangledown to select "Yes" or "No" and press \mathbf{OK} .

3. Options

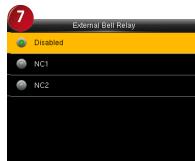
When the function of external ringing is used, set the output terminal of external ringing.



Press ▼to select **Options** and press **OK**.



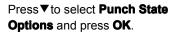
Press **OK**.

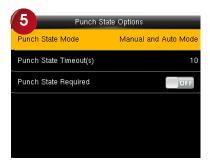


Press **▼** to select, press **OK** to save and return.

9.4 Punch State Options







Press ▲/▼ and **OK** to select items. When the setting is completed, press

OK to save the setting and exit.

Punch State Mode: used to select a status key mode. The following modes are available:

Off: The status key function is not used. The status keys defined as shortcut keys become unavailable.

Manual Mode: The status keys are switched manually and the current status key will disappear when the preset time elapses.

Auto Mode: If a shortcut status key is configured to be switched after a period of time, the status key is switched automatically when the period of time elapses.

Manual and Auto Mode: The main interface displays the status keys that can be switched automatically, and you are also allowed to switch status keys manually. A status key you select manually will be switched according to the automatic switching plan after it disappears upon a timeout.

Manual Fixed Mode: After a status key is switched, it is always displayed until you switch it later again.

Fixed Mode: A status key is always displayed and cannot be switched.

Punch State Timeout(s): specifies the timeout period of the status key displayed on the main interface.

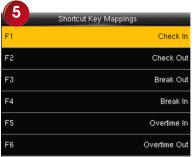
Punch State Required: specifies whether the status of work attendance check must be selected during authentication.

9.5 Shortcut Key Mappings

You can define six shortcut keys as attendance status shortcut keys or functional shortcut keys. On the main interface of the FFR terminal, press corresponding keys and the attendance status will be displayed or the function interface will be rapidly displayed.



Press ▼ to select **Shortcut Key Mappings** and press **OK**.



Press ▼ to select a key and Press **OK** .



Press $\blacktriangle/\blacktriangledown$ and **OK** to select items. When the setting is completed, press **OK** to save the setting and exit.

Notes: When setting the attendance status shortcut keys, you can also set the "Auto Switch" parameter. When "**Auto Switch**" is enabled, the FFR terminal automatically switches the attendance status at the specified time. If a status key is selected, the device will not use any status key when the status key function is disabled.

10 Data Manager







Press ^{M/}←on the initial interface.

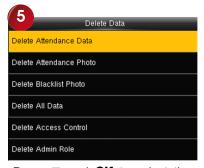
Select **Data Manager** and press **OK**.

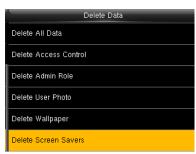
Select **Delete Data** and press **OK**.

10.1 Delete Data

Through the [Data Mgt.] menu, you can perform management of data stored on the FFR terminal, for example, deleting the attendance record, all data and promotional pictures, purging management rights and resetting the FFR terminal to factory defaults.







Select **Delete Data** and press **OK**.

Press ▼ and **OK** to select the item to be deleted.

Delete Attendance Date: Delete all the attendance records.

Delete Attendance Photo: Delete all employees' attendance photos.

Delete Blacklist Photo: Delete the saved photos which fail in passing attendance record.

Delete All Data: Delete all the information of enrolled personnel, including their fingerprints, facial images ,attendance records,SMS and wokecode.

Delete Access Control: Delete all Access Control records.

Clear Admin Role: Change all administrators to ordinary users.

Delete User Photo: Delete all User Photo. **Delete WallPaper:** Delete all WallPaper.

Delete Screen Savers: Purge the promotional pictures uploaded from USB disks to the FFR terminal. (For details on how to upload promotional pictures, see "5.4 Upload Picture".)

10.2Backup Data

Back up the service data or configuration data of the device to the device or a USB drive.



Press ▼ to select **Backup Data**and press **OK**.



Press ▼ to select **Backup to Device** and press **OK**.



Press ▼ and **OK** to select the local configuration items to be backuped to decice the selected items.



Press ▼to select **Backup start** and press **OK**.

Note: Backup to USB Disk, the operations are similar to those performed to Backup to Device.

10.3 Restore Data

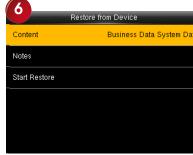
Restore the data stored on the device or in the USB drive to the device.



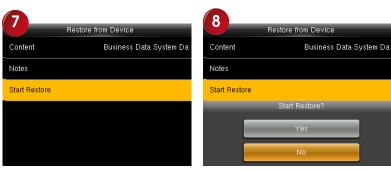
Press ▼to select **Restore Data** and press **OK**.



Press ▼ to select **Backup from Device** and press **OK**.



Press ▼ and **OK** to select the local configuration items to be restored and save the selected items.



Press ▼to select **Start Restore** and press **OK**.

Press ▼ to select "Yes" or "No"

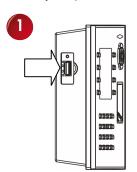
Device and press OK.

Note:Backup from USB Disk, the operations are similar to those performed to **Backup from Device**.

11 USB Manager

Import user information, fingerprint template, attendance data and so on in the device to attendance software or import user information and fingerprint to other devices through U disk.

Before you upload/download data from/to a USB drive, insert the USB drive into the USB interface of the device.



Insert U disk into USB slot of fingerprint sensor through mini USB.



Press ^{M/}←on the initial interface.



Press ▼to Select USB Manager and press OK.

11.1 Download







Press ▼ and **OK** to select the item to be downloaded.

Download Attendance Data: The attendance data in the device within the specified date range is saved to a USB flash drive.

Download User Data: Import all the user information, fingerprints and facial images from the FFR terminal to a USB disk.

Download User Portrait: The employee photos in the device are saved to a USB flash drive.

Download Attendance Photo: The attendance photos (in the JPG format) in the device within the specified date range are downloaded and saved to a USB flash drive.

Download Blacklist Photo: The attendance blacklist photos (in the JPG format) in the device are downloaded and saved to a USB flash drive.

Download work code: used to save work IDs on the device to a USB drive

Downloading Short Message: short messages set in the device are downloaded to a USB flash drive.

11.2 Uplad





Press ▼ to Select **Download** and press **OK**.

Press **▼** and **OK** to select the item to be Uploaded.

Upload User Data: Upload the message stored in a USB disk to the terminal.

Upload User Portrait: Upload the JPG documents that are named after the user IDs and stored in a USB disk to the terminal, User photos in a USB flash drive can be previewed in the device when the photos are uploaded to the device. During uploading, you can choose **Upload selected picture** or **Upload all pictures**. So that user photos can be displayed after the employees pass the verification.

Upload work code: used to upload work IDs in a USB drive to the device.

Upload Short Message: used to upload short message in a USB drive to the device.

Upload Screen Saver: Upload the JPG documents with "ad_" as initial letters of document names stored in a USB disk to the terminal. Screen Saver in a USB flash drive can be previewed in the device when the photos are uploaded to the device. During uploading, you can choose **Upload selected picture** or **Upload all pictures**. After the upload, these pictures can be displayed on the initial interface of the terminal. (For details on picture specifications, see <u>Appendix 2</u>.)

Upload Wallpaper: Upload the JPG documents with "1~10.jpg" as initial letters of document names stored in a USB disk to the terminal. Wallpaper in a USB flash drive can be previewed in the device when the photos are uploaded to the device. During uploading, you can choose **Upload selected picture** or **Upload all pictures**. After the upload, these pictures can be displayed on the interface of the terminal. (For details on picture specifications, see <u>Appendix 2</u>.)

11.3 Download Options

You can encrypt the data in a USB drive and set to delete data after being downloaded. When download the attendance records, you can also set the calendar type displayed in the attendance time. The device support hree calendar types which are Gregorian, Iran Gregorian, Iran Lunar to choose.



Press ▼to Select **Download Options** and press **OK**.



Press ▼ and **OK** to select items.

When the setting is completed, press **OK** to save the setting and exit.

12 Attendance Search

Employee's attendance record will be saved in the device. For query convenience, **query record** function is provided.

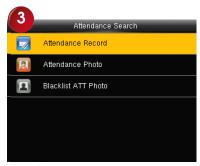
1. Attendance Record



Press ^{M/}← on the initial interface.



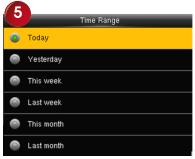
Press►to select **Attendance Search** and press **OK**.



Press▶to select **Attendance Record** and press **OK**.



Enter the user ID then press **OK**.



Press►to select **Time** and press **OK**.



The records in accordance with the conditions will be displayed:

User ID: Enter the user ID of the employee to query. If this field is left blank, you can query the attendance records of all the employees. If you enter a user ID, you can query the attendance record of the employee with this user ID. **Time Range**: Select a time period to query, including the customized time period, yesterday, this week, last week, this month, last month, and all time periods.

2. Attendance Photo and Blacklist ATT Photo

Attendance Photo and Blacklist ATT Photo, the operations are similar to those performed to **Attendance Record**.

13 Print★

You can connect the device to a printer so that attendance records can be printed.



Press ^{M/}←on the initial interface.



Press▶to select **Print** and press **OK**.



Press ▼ to select **Data Field Setup** and press **OK**.

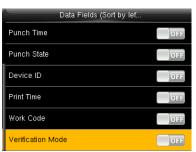
13.1 Data Field Setup



Press►to select **Data Field Setup** and press **OK**.



Press ► to select the item to be set and press **OK** to enable or disable the selected item.



When you need to adjust the display's position, press the left key or right key to adjust

Remarks: You can use the left and right keys to adjust the position of information during printing. When you press the left key, information is moved forward to the previous item. When you press the right key, information is moved backward to the next item.

13. 2 Printer Options



Press ► to select **Printer Options** and press **OK**.



Press ► to select the item to be set and press **OK** to enable or disable the selected item.

Notes: To enable the paper cutting function, connect the device to a printer equipped with the function. Then, paper cutting is implemented automatically during printing based on the selected print information.

14 SMS

SMS is similar to notice. The operator can edit the notice content in advance and make it into SMS displayed on the screen. SMS includes common SMS and individual SMS. If common SMS is set, will be displayed in information column at the top of standby interface in the specified time. If individual SMS is set, the employee who can receive SMS can see SMS after successful attendance.



Press^{M/}←on the initial interface.



Press►to select **Short Message** and press **OK**.



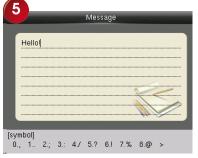
Select **New Message** and press **OK**.

14.1 Add a SMS

1. Enter the short message on the keyboard.



Select Message and press **OK.**



Press * to switch input method and enter the message, then press **OK**.

For details of enter name, see Appendix 1 Description of Text Input Operation

2. Set the time when SMS comes into effect



Select Start Date and press OK.



Enter the date or Press $\blacktriangle/\blacktriangledown$ to select the date then press **OK**.

3. Set Expired time(m)SMS appears in the effective time. After the effective time, it won't appear.

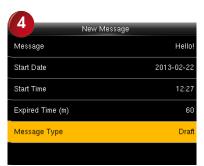
Notes: For public short messages, the effective period is also the display period. For private short messages, you need to set a display period after setting an effective period. That is, the display period of a private short message can be viewed when you punch in or out during the effective period of the message.

4. Set Message type :

Public: SMS able to be seen by all employees.

Personal: SMS aimed at individual only.

Draft: Preset SMS, no difference of individual SMS or common SMS.





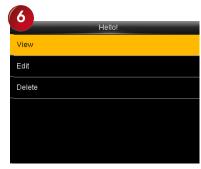
Select Message Type and press

Press ▲/▼ to select the message type then press OK.

14.2 Public, Personal and Drafts lists







Press ▼ to select the message list then press **OK**. You can view, edit or delete the one you selected. When edit message, the operations are similar to those performed to **add a SMS**.

14.3 Message Options

Set the personal Message Show Delay time on the initial interface.







Press ►to select **Message Options** and press **OK**.

Press **OK**.

Press \blacktriangledown to select the time and press \mathbf{OK}

14.4 Employee check SMS

After configuration of a public short message, within the specified time period, the main interface displays the short message icon in the upper right corner and displays the content of public short messages in scrolling mode in the lower part so that all employees can view the information. The content of private short messages for a user is displayed when the user is authenticated.





Public message

User authentication is successful after the show users messages.

15 Work Code★

Employees' salaries are subject to their attendance records. Employees may be engaged in different types of work which may vary with time periods. Considering the salaries vary with work types, the FFR terminal provides a parameter to indicate the corresponding work type for every attendance record to facilitate rapid understanding of different attendance situations during the handling of attendance data.



Press ^{M/}←on the initial interface.



Press►to select **Work Code** and press **OK**.



Press ▼ to select **New Work Code** and press **OK**.

15.1 Add a work code

ID: A digital code of the work code.

Name: The meaning of the work code.

1. Enter the ID.



Select **ID** and Press **OK**.



Enter the user ID using keypad then press **OK**.

Tip: The terminal supports the 1- to 999999999-digit IDs by default.

If a prompt message "The ID already exists!" is displayed, enter another ID.

2 Enter the name



Select Name and press OK.



Enter the name then press **OK**.

For details of enter name, see Appendix1 Text Input Instructions. The terminal supports the 1- to 23-character names by default.

15.2 All Work Codes

You can view, edit or delete the work code from the work codes list. The ID cannot be modified, and the other operations are similar to those performed to add a work code When edit.







Press▶to select **All Work Codes** and press **OK**.

View all work codes.

Press ▼ to select the one you want to edit or delete.

15.3 Set work code

Set verify whether enter the **Work Code** number must be entered must exist.





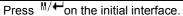
Press►to select Work Code Options and press OK.

Press **OK** to open or close.

16 Auto Test

The auto test enables the system to automatically test whether functions of various modules are normal, including the LCD, voice, sensor, keyboard and clock tests.







Press ►to select **Diagnostics** and press **OK**.



Press ▼ to select the one you want to see and press **OK**.

Test All: The terminal automatically tests the LCD, voice, sensor, keyboard and clock, press [OK] to continue and press [ESC] to exit.

Test LCD: The terminal automatically tests the display effect of the color TFT display by displaying full color, pure white and pure black and checks whether the screen displays properly. You can continue the test by touching the screen or exit it by pressing [ESC].

Test Voice: The terminal automatically tests whether the voice files are complete and the voice quality is good by playing the voice files stored in the terminal. You can continue the test by touching the screen or exit it by pressing [ESC].

Test Keyboard: The terminal tests whether every key on the keyboard works normally. Press any key on the [Keyboard Test] interface to check whether the pressed key matches the key displayed on screen. The keys are dark-gray before pressed, and turn blue after pressed. Press [ESC] to exit the test.

Test Fingerprint Sensor: The terminal automatically tests whether the fingerprint collector works properly by checking whether the fingerprint images are clear and acceptable. When the user places his/her finger in the fingered guide, the collected fingerprint image is displayed on the screen in real-time. Press [ESC] to exit the test.

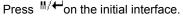
Test Camera: The device automatically tests whether the camera works properly by checking whether the collected images are clear and acceptable. Press [ESC]] to exit the test.

Test Clock RTC: The terminal tests whether its clock works properly by checking the stopwatch of the clock. Touch the screen to start counting, and touch it again to stop to check whether the counting is accurate. Press [ESC] to exit the test.

17 System Information

You can check the storage status as well as firmware information of the terminal through the [System Information] option.







Press►to select **System Info** and press **OK**.



Press ▼ to select the one you want to see and press **OK**.

Device Capacity: The number of enrolled users, administrators, passwords, the total fingerprint storage capacity and occupied capacity, ID cards and attendance capacity are displayed respectively.

Device Info: The Device name, serial number, MAC Address, Fingerprint Algorithm, Manufacture and Manufacture date are displayed on the device interface.

Firmware Info: The Firmware version, Bio Service, Push Service, Standalone Service and Dev Service are displayed on the firmware info interface.



Device Capacity



Device information



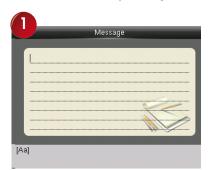
Firmware information

Appendix

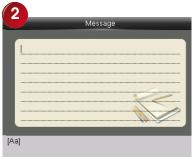
Appendix 1 Description of Text Input Operation★

The device can recognize English letters, symbols, and numbers. Press * to display the input method and press * again to switch the input method. Press # to enter a space. Press **ESC** to exit the input method.

Description of entry of English letters and symbols (for example, creating a short message)



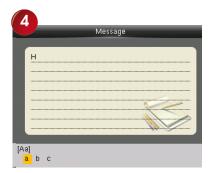
Press * to display the input method.



Press * again to switch the input method. Select Aa, a, or A for using uppercase and lowercase letters based on requirements.



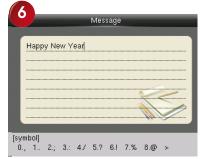
If necessary, you can press **4** twice in succession to select **H**.



Press 2 to select a. Finish the text input in the same way.



Press # to enter a space if necessary.



Press * to switch to the symbol input method and press **6**. Select **!**. When you complete the input, press **ESC** to exit.

Appendix 2 Image Upload Rules

- 1. User photo: Create a new directory named "photo" in the root directory of disk U and place user photos into the directory. A maximum of 8,000 photos can be stored and the size of each photo cannot exceed 15 KB. The image name is Xjpg (X is the user's employee ID, which is not limited in the number of digits). Images must be in .jpg format
- Advertising image: Create a new directory named "advertise" in the root directory of disk U and place advertising images into the directory. A maximum of 20 images can be stored and the size of each image cannot exceed 30 KB.
 There are no restrictions on the image name and type.
- 3. Wallpaper: Create a new directory named "wallpaper" in the root directory of disk U and place wallpapers into the directory. A maximum of 20 wallpapers can be stored and the size of each wall paper cannot exceed 30 KB. There are no restrictions on the image name and type, can support jpg, png, bmp and other formats.

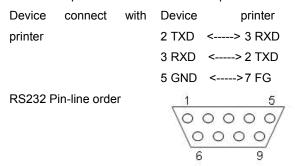
Note: If the size of a single user photo or attendance photo is 10 KB or less, a total of 10,000 photos can be stored.

Appendix 3 Print function★

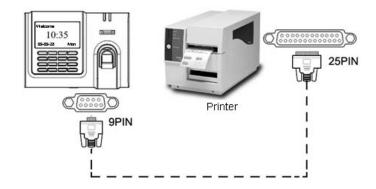
External printer

[Explain]

This function is designed for a serial port printer only, the parallel printer is unavailable. The printing content output via RS232. After a user is verified, the result will be sent out through serial port. If device connect with the printer the result can be printed directly, can also use the Super Terminal to view the output content.



[Connection]



[Instructions]

- 1. In the device menu, press Menu-->Comm.--> Serial Comm and select baud rate as 19200.
- 2. In the device menu, enter **Menu--> Print --> Security**, set the print format and parameters, see <u>13 Print</u>.

Note: 1. Be sure that the fingerprint machine and printer (Super Terminal) have the same baud rate.

2. If the default print format can not meet your needs, you contact our business deputy our company is able to present other customized format

Appendix 4 anti-pass back★

Statement on Human Rights and Privacy

Dear Customers:

Thank you for choosing the hybrid biometric products designed and manufactured by us. As a world-renowned provider of biometric technologies and services, we pay much attention to the compliance with the laws related to human rights and privacy in every country while constantly performing research and development.

We hereby make the following statements:

- 1. All of our fingerprint recognition devices for civil use only collect the characteristic points of fingerprints instead of the fingerprint images, and therefore no privacy issues are involved.
- 2. The characteristic points of fingerprints collected by our products cannot be used to restore the original fingerprint images, and therefore no privacy issues are involved.

- 3. We, as the equipment provider, shall not be held legally accountable, directly or indirectly, for any consequences arising due to the use of our products.
- 4. For any dispute involving the human rights or privacy when using our products, please contact your employer directly.

Our other police fingerprint equipment or development tools will provide the function of collecting the original fingerprint image of citizens. As for whether such a type of fingerprint collection constitutes an infringement of your privacy, please contact the government or the final equipment provider. We, as the original equipment manufacturer, shall not be held legally accountable for any infringement arising thereof.

Note: The law of the People's Republic of China has the following regulations regarding the personal freedom:

- 1. Unlawful arrest, detention or search of citizens of the People's Republic of China is prohibited; infringement of individual privacy is prohibited.
- 2. The personal dignity of citizens of the People's Republic of China is inviolable.
- 3. The home of citizens of the People's Republic of China is inviolable.
- 4. The freedom and privacy of correspondence of citizens of the People's Republic of China are protected by law.

At last we stress once again that biometrics, as an advanced recognition technology, will be applied in a lot of sectors including e-commerce, banking, insurance and legal affairs. Every year people around the globe suffer from great loss due to the insecurity of passwords. The fingerprint recognition actually provides adequate protection for your identity under a high security environment.

Environment-Friendly Use Description



The Environment Friendly Use Period (EFUP) marked on this product refers to the safety period of time in which the product is used under the conditions specified in the product instructions without leakage of noxious and harmful substances.

The EFUP of this product does not cover the consumable parts that need to be replaced on a regular basis such as batteries and so on. The EFUP of batteries is 5 years.

Names and Concentration of Toxic and Hazardous Substances or Elements

Parts Name	Toxic and Hazardous Substances or Elements						
	Pb	Hg	Cd	Cr6+	PBB	PBDE	
Chip resistor	×	0	0	0	0	0	
Chip capacitor	×	0	0	0	0	0	
Chip inductor	×	0	0	0	0	0	
Chip diode	×	0	0	0	0	0	
ESD components	×	0	0	0	0	0	
Buzzer	×	0	0	0	0	0	
Adapter	×	0	0	0	0	0	
Screws	0	0	0	×	0	0	

Note: 80% of the parts in this product are manufactured with non-hazardous environment-friendly materials. The hazardous substances or elements contained cannot be replaced with environment-friendly materials at present due to technical or economical constraints.

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.

x: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials for this part is above the limit requirement in SJ/T11363-2006.