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Thank you for using our products, which adopt the latest biometrics solution and high speed stable ARM processor. The product's recognition, speed and other performance indicators are in the industry leading level, fully meet your efficient work requirements.

- Due to the continuous update of the product, all performance and parameters are subject to the actual product, any change without prior notice. The actual product may be inconsistent with the information, and shall not be liable for any discrepancy between the actual technical parameters and the information.
- The picture description in this document may not match the picture of the product in your hand, please refer to the actual product.

1. Usage environment

- 1) Avoid installing device in a place where strong light is shining. Strong light has influence on face recognition, which may lead to the failure of face recognition verification.
- 2) The operating temperature of the device is 0°C–45°C. Avoid long-term outdoor use. Long-term outdoor use will affect the normal operation of device. If it is must be used outdoors, It is recommended to use sunshade and heat dissipation equipment in summer and heat preservation equipment in winter.

2. Installation Precautions

Fix the rear panel on the wall → Install the device on the rear panel → tighten the screw on the bottom of the machine.

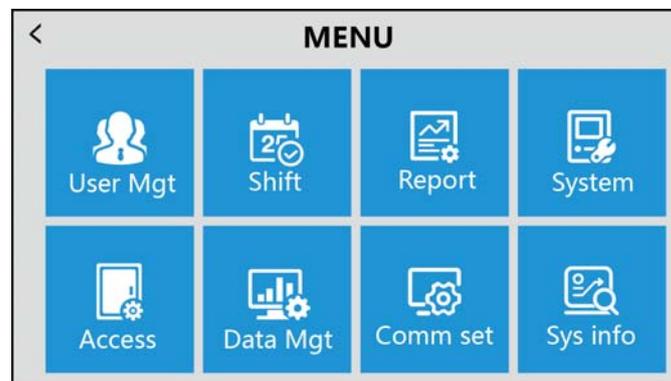
- 1) Before installation, please make sure that the power system of device is turned off during installation. Live installation and wiring operations can cause damage to the machine due to contact with the power cord.
- 2) On the situation that static electricity is a bit heavy, please connect ground wire first and then connect other wires, which can protect the device from damaging in static electricity.
- 3) If do not use some ports of terminals. Please do not expose the lines that connect the unused ports. It may cause short circuit damage to equipment. At the same time, please use different colored lines to connect ports for distinguishing different port.
- 4) Please connect other lines before connecting the power cord, and finally power test. If it is found that the device cannot work normally after power on, the power must be cut and check device and all the lines.
- 5) If the distance between the power supply and the device is far, it is strictly forbidden to use network cable or other special wire instead of power cord.
- 6) When wiring the attendance device, due to abnormal wiring, the device circuit, motherboard and fingerprint scanner are burnt out, which causes the device cannot be used normally, which is not within the scope of warranty.

3. Recommended steps

- 1) Step 1: Open the box to check the device and power on the device. Check for exceptions, set the date and time of the device, and install the device.
- 2) Step 2: Add users and register users' face、 card、 password, etc.
- 3) Step 3:Set shift.
- 4) Step 4:Set up shift schedule for users.
- 5) Step 5:Download attendance records at the end of month.

4. Menu

Touch the screen and a menu bar will pop up on the right side of the screen, click  to access into menu, when an admin is registered, After passing the verification of admin's face or card or password then the menu can be entered

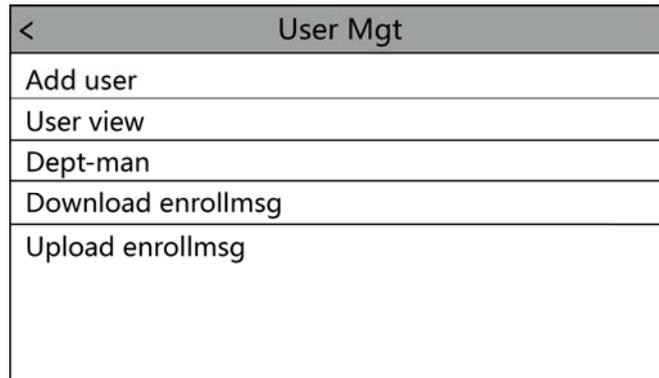


- **User** : Enrol user, view user list, department setting, download enrolment data and upload enrolment data.
- **Shift** :records warning setting, grace minimum setting, logs information.
- **Report** : Download attendance reports in Excel format
- **System**: It provides general settings, like time, language settings
- **Access** : Set Wiegand output format, lock delay , time zone setting and open group setting
- **Data Mgt**: Download records in txt format, delete data and initialize device
- **Comm set** : Set device No. , server setting, Ethernet setting
- **Sys info** : Query registration information and detailed information of device.

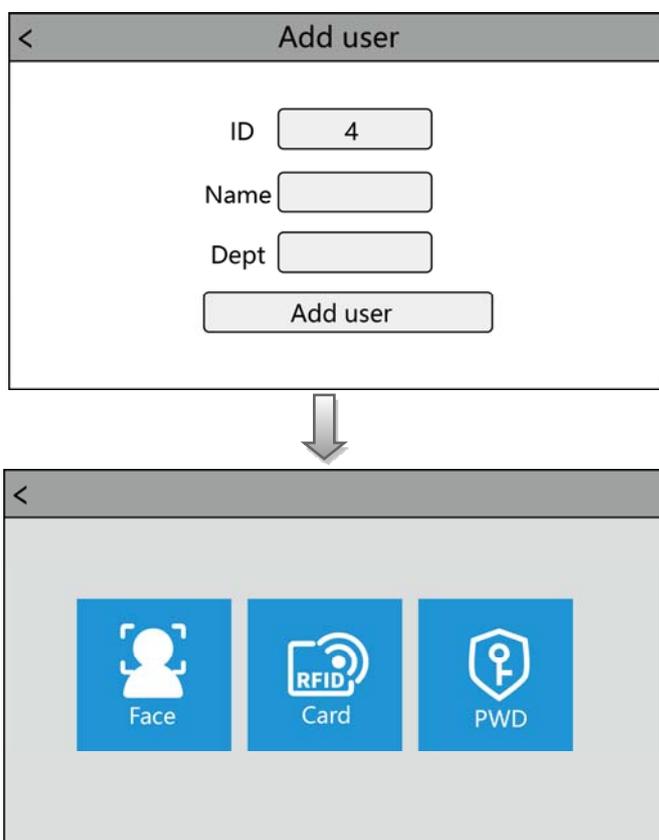
5. User

The basic information of the user on the device includes face, card, password and privilege. In attendance management, due to personnel changes. Therefore, the device provides add, delete, change the user and other operations.

Touch the screen and a menu bar will pop up on the right side of the screen, click  > **【User Mgt】** ,It includes add user, user view, department setting, download enrolment data and upload enrolment data.



5.1 Enroll



- 1) **ID:** When registering, each user can only have one unique 'ID'.
- 2) **Name:** Input、 edit name by T9 input method.
- 3) **Face:** Follow the on-screen prompt for face registration.

Note: Please stand directly in front of the device, face the camera, and keep the entire face displayed in the frame, In order to maintain a good face recognition effect. The following picture is for your reference

- 4) **Card:** Select Reg.Card and put card on swipe area to register card

5) **Password:** An ID can only register one password. After clicking the password icon, enter the password to be set and then press ok to confirm the password again.

Remark: Verify password by touching the face recognition area of the screen then click  then input ID-click 'OK'-input password-click 'OK'

5.2 User List

| < | | | | | Find | Find.Name |
|-----|-------|------|-------|----------|---|-----------|
| ID | Name | Dept | Shift | Privileg | | |
| 1 | test1 | 1 | 0 | 0 |  | |
| 2 | test2 | 1 | 0 | 0 |  | |
| 3 | test3 | 1 | 0 | 0 |  | |
| 259 | test4 | 1 | 0 | 0 |  | |

Pre
Next

Browse all registered persons in the device, click corresponding user to edit its information, including name, password, dept, admin; You can also change face registration information or delete this user, you can quickly locate the user you want to edit by **【Find】** or **【Find Name】** at the top of the page.

Note:For **【Admin】** , User and Admin can be selected

User:If there is Admin and Enr Admin in this device, user is not allow to access into menu

Admin: The manager of this device. Only admin has permission to access into menu.

5.3 Dept.

Edit department name, up to 14 departments can be supported

| < Esc | Dept. | |
|-------|-------|---------|
| | HR | Finance |
| | --- | --- |
| | --- | --- |
| | --- | --- |
| | --- | --- |
| | --- | --- |
| | --- | --- |

5.4 Download enrollmsg

Touch the screen and a menu bar will pop up on the right side of the screen, click  > **【User Mgt】** > **【Download enrollmsg】**, insert U-disk in device to download, 3 files will be exported as below:

- 1、 User data file (AFP_001.dat): It can be used to synchronized users between devices, and '001' represents device ID
- 2、 User's enrolled photo(EnrollPhoto)
- 3、 User information Excel sheet(Staff): Users can edit it in PC then upload back to device, please refer to below picture:

| Staff | | | | | | | | | | | | |
|--|--------|-------|-------|-------|------|-----|---------|---------------|-----|-----------|--------|------|
| Note:A. Enroll number: only fill in the number (maximum of 8) required. B. Name: up to 48 words. C. Department: up to 48 words. D. Shift: 0~8. E. Admin :0 or not filled: user, 1: admin. F.Fingerprint, Face: no need to fill in. G. Password: up to 8 digi | | | | | | | | | | | | |
| ID | Name | Dept. | Shift | Admin | Face | PWD | Card | Lock timezone | GRP | Birthdate | Start: | End: |
| 1 | Jenny | | 0 | 0 | | 123 | 3653177 | 0 | 0 | | | |
| 2 | Sophie | | 0 | 0 | | 0 | 0 | 0 | 0 | | | |

Fill in personnel information according to the prompt of form header. As for “Shift” item, it is the editing shift number in the time attendance setting. When complete the editing. Directly Click **【Save】**, and save the edited file into U-disk.

5.5 Up.Data

After editing shift form, Touch the screen and a menu bar will pop up on the right side of the screen, click  > **【User Mgt】**, then insert U-disk, click **【Upload enrollmsg】** and transmit the edited user information to device.

Remark: For Lock Time zone, start time and end time, Pls refer to Chapter 9 Access

6. Shift

Touch the screen and a menu bar will pop up on the right side of the screen, click  > **【Shift】** > **【Atten rule】**, It includes attendance rules, shift settings, record warning setting, and log information.

6.1 Atten rule

This chapter is used for setting shifts and attendance rules

Touch the screen and a menu bar will pop up on the right side of the screen,

click  > **【Shift】** > **【Atten rules】**

| Item | Meaning |
|----------------|---|
| Re verify | Check if users make punch repeatedly within this range, if records interval is less than this value, records won't be stored |
| Log Warning | When rest available storage capacity is less than this value, device will alarm |
| Save Photo | If select 'Yes', when device connect to software, captured photo when users verify face can be shown in software |
| Stranger photo | If select 'Yes', and enable 'save photo', when device connect to software, captured photo when strangers verify face can be shown in software |
| Default Shift | Set default shift, when you add users, they will apply this default shift |
| Excel Pwd | Set password for attendance report |
| Late time | When user's late arrival time exceeds *** mins , then it is counted as late arrival. |
| Lea time | When user's early leave time exceeds *** mins , then it is counted as early leave. |

6.2 Shift

1) Edit shift (Single shift)

Touch the screen and a menu bar will pop up on the right side of the screen,

click  > **【Shift】** > **【Edit Shift】**

| <返回 | | Shift | | |
|-------------|----------------|----------------|----------------|--|
| Atten rules | Edit shift | Bell | Log Info | |
| Name | Sec1 | Sec2 | Sec3 | |
| 1 shift1 | 08:00-12:00(0) | 13:00-17:00(0) | 18:00-21:00(1) | |
| 2 shift2 | | | | |
| 3 shift3 | | | | |
| 4 shift4 | | | | |
| 5 shift5 | | | | |
| 6 shift6 | | | | |

<
Shift1

Name

Sec1 ~

Sec2 ~

Sec3 ~

Cutofftime:

According to real work time to edit shift, section status can be set as sign(normal attendance) or overtime.

2) Edit Shift (Multiple shifts)

When there are multiple shifts, we recommend downloading shift sheet to edit shift, edit all shifts through the shift sheet and upload them back to the device to avoid tedious operations on the device. Specific operations are as follows:

1. **【Download Shift】** : Touch the screen and a menu bar will pop up on the right side of the screen, click  > **【Shift】** > **【Atten rules】**, then insert U-disk. Click **【Download Shift】**, then you can download shift arrangement in excel form, Also you can edit the form on PC. Pls refer to below picture:

| Shift | | | | | | | | | | | |
|--|-------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------------|
| Note: A, shift name: up to 48 words. B. Section type: 0: normal attendance,1: overtime. C. cut off time: if the punch before the cut off time ,it will calculate as the previous day | | | | | | | | | | | |
| NO. | Name | Sec1 | | | Sec2 | | | Sec3 | | | Cutofftime: |
| | | IN | OUT | Sec_t ype | IN | OUT | Sec_t ype | IN | OUT | Sec_t ype | |
| 1 | Day Shift | 08:30 | 12:00 | 0 | 13:30 | 18:00 | 0 | 18:30 | 21:00 | 1 | 00:00 |
| 2 | Night Shift | 22:00 | 06:00 | 0 | | | | | | | 07:00 |
| 3 | Half Day | 08:00 | 12:00 | 0 | | | | | | | 00:00 |

Edit shift arrangement according to the prompts of form header. Maximum 8 shifts can be set. Click **【Save】** after editing and save the file into U-disk.

Note:

- 1) Attendance time must be in the format of time, and attendance type must be in the format of digits. So when you handle the setting, pls pay attention that the input method is in English half-angle status. Checking Method: For example, when you

input 10:30, double click this cell, then software will automatically turn the digits into 10:30:00.

2) If you set the shift of cross time, then the Clock-in before the cross time will be counted as the record of previous day. And shift should start after the cross time. For example:

| Shift | | | | | | | | | | | |
|--|--------|-------|-------|--------------|------|-----|--------------|------|-----|--------------|-------------|
| Note: A. shift name: up to 48 words. B. Section type: 0: normal attendance.1: overtime. C. cut off time: if the punch before the cut off time ,it will calculate as the previous day | | | | | | | | | | | |
| NO. | Name | Sec1 | | | Sec2 | | | Sec3 | | | Cutofftime: |
| | | IN | OUT | Sec_t ype | IN | OUT | Sec_t ype | IN | OUT | Sec_t ype | |
| 1 | Shift1 | 23:00 | 08:00 | 0 | | | | | | | 09:00 |

Cross time is set at 09:00am. Then shift should start after 09:00, and Clock-in record before 09:00am on Tuesday should be counted as the record of Monday.

3) If you don't need to clock at noon, combine the two sections into one . For example: 08: 30-12: 00 13: 30-17: 50,it can be set to section 1: 08: 30-17: 50

4) Time Skip setting is not allowed. For example, When you complete the setting of Section 1, you cannot skip Section 2 and get to set Section 3.

2. 【Upload shift】 : After editing, insert U-disk and click 【Upload Shift】 , then you can upload the edited shift arrangements into device.

6.3 Bell

Touch the screen and a menu bar will pop up on the right side of the screen, click



> 【Shift】 > 【Bell】 , Up to 24 groups of scheduled ring time. Touch the bell time to enable it.

| < Shift | |
|-------------|------------|
| Atten rules | Edit shift |
| Bell | Log Info |
| Bell time | |
| Bell count | 0 |
| Bell output | No |

6.4 Log Info

Input the user ID and time range to query records of the corresponding user

<
Shift

Atten rules
Edit shift
Bell
Log Info

ID

Start

End

7. Report

Touch the screen and a menu bar will pop up on the right side of the screen, click  > **【Report】** , Insert U-disk, and input the start and end time that you need to check. Click “OK” to download the report. The report includes original record sheet(Original Record), attendance list(Schedule)and summary sheet(Summary Report).

Original Record: You can check all users’ attendance records in the sheet. Pls refer to below picture:

| Original record | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Date:2019-8-1~2019-8-31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ID:1 Name:Lucas Dept.:Office Shift:Day Shift | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 | 08:25 |
| 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 | 12:03 |
| 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 | 13:26 |
| 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 | 18:04 |

Schedule: Attendance machine can automatically analysis the clock-in and clock-out data, and transmit these data in EXCEL file to the U disk. Format as below:
 (Remark: Red text indicates that the attendance is abnormal, such as late, early leave. Blue means overtime)

| schedule | | | | | | | | | | | | |
|--------------|------|-----------------|-------|-------|-------|------|-----|------------|-------------------------|----------|--------------|---------------|
| ID:1 | | Name:Lucas | | | | | | | | | | |
| Dept.:Office | | Shift:Day Shift | | | | | | | Date:2019-8-1~2019-8-31 | | | |
| Date | week | Sec1 | | Sec2 | | Sec3 | | Work hours | | OT hours | Late minutes | Leave minutes |
| | | IN | OUT | IN | OUT | IN | OUT | Normal | Actual | | | |
| 8-1 | THU | 08:25 | 12:03 | 13:26 | 18:04 | | | 8 | 8 | 0 | 0 | 0 |

Summary Report: It is a Statistics display of employee attendance for one month

| Summary Report | | | | | | | | | | | |
|----------------|--------------------|--------|------------|--------|--------------|---------------|-------|----------|--------|----------------------------|---------|
| Date: | 2019-8-1~2019-8-31 | | | | | | | | | | |
| ID | Name | Dept. | Work hours | | Late minutes | Leave minutes | | OT hours | | Work Dates(Normal /Actual) | Truancy |
| | | | Normal | Actual | TIMES | Minutes | TIMES | Minutes | Normal | | |
| 1 | Lucas | Office | 248.0 | 248 | | | | 77.5 | | 31.0/31.0 | 0 |

8. System

Touch the screen and a menu bar will pop up on the right side of the screen, click



> **【System】**

8.1 Device Setup

| Item | Meaning |
|----------------------|--|
| Time | Set device time |
| Time fmt | 24H and 12H format can be selected |
| Date fmt | Select different date format |
| Language | Change device displayed language |
| Voice | Set the volume of speaker |
| Play name voice | if play user name after verifying success |
| Multiple face | If set it to yes, device can verify multiple users(up to 5) at the same time |
| Result time | When the user's face is always displayed on the screen, how long does it take for the device to verify the face again, if set to 0s, device will only recognize once in the situation and it won't be recognized until face moves off screen and appears again |
| Screen Idle | How long does it take to enter screen saver when the main Interface is not operating |
| Screen Saver Wake up | When device displays screen saver, the user can choose to wake up the device when the device detects the face or touch screen |
| bio-assay | Verify that the user is a live person instead of photo. |
| Show Avatar | Whether to show user's photo or not on the screen after verifying successfully |

8.2 Advanced setup

| Item | Meaning | |
|-----------------------|---|--|
| Max Admin | Set the maximum number of device admin | |
| Verify Mode | FA/C/P | No matter what kind of verification method can be verified |
| | Others | Need to verify two verification methods together |
| Visitor QRCode | Whether enable scanning QRcode function or not. Connect device to our cloud software and generate QRCode then verify it in device | |
| 1:N Identify | Set the threshold of face recognition | |
| Live threshold | When enable 'bio-assay', the threshold of face recognition | |
| Wear mask | No | Device will not detect mask |
| | Yes | Users can wear a mask or not wear a mask to verify, if wear mask, the threshold of face recognition is same as 'mask threshold' settings |
| | Must | Device will detect mask, if user doesn't wear mask, device will not accept it |
| Mask threshold | When wearing a mask, the threshold of face recognition | |
| Exposure Compensation | When device is in dark light and backlight environment , can change this value to adjust camera | |
| Testing | Check whether the camera is normal | |
| Camera calibration | Calibrate camera | |
| Firmware upgrade | Insert U-disk (FAT32 format) to do device firmware upgrade | |

9. Access

Touch the screen and a menu bar will pop up on the right side of the screen, click



> **【Access】**

9.1 Access

| Item | Meaning |
|-----------|---|
| OD delay | Set the time between lock relay effective and the state of resume normal. |
| Users | Set the number of user required to open the door. For example: set it to 2, only when 2 different users verify at the same time, the door can be opened |
| Wg output | Define the content of wiegand output, user ID and card number can be selected |
| Wg format | You can define wiegand port output format. The default format is 34bits, and it can be changed to 26bits |

9.2 Timezone settings

9.2.1 Day timezone

According to the rules and regulations of user's entry and exit, set the daily access time to the corresponding time period. You can totally set 8 groups of day time zones, or week time zones. For example, you can set the time between 6:00am and 8:00am to open the door, and the time between 17:00pm and 19:00pm to open the door. Pls refer to below picture Day Timezone 1 setting. If you want to set the door to be open in all day, pls refer to below picture Day Timezone 2 setting.

Example: 【Day Timezone 1】 setting as below

| | | |
|---------|-------|-------|
| T.Zone1 | 06:00 | 08:00 |
| T.Zone2 | 17:00 | 19:00 |
| T.Zone3 | 00:00 | 00:00 |
| T.Zone4 | 00:00 | 00:00 |
| T.Zone5 | 00:00 | 00:00 |

Example: 【Day Timezone 1】 setting as below

| | | |
|---------|-------|-------|
| T.Zone1 | 00:00 | 23:59 |
| T.Zone2 | 00:00 | 00:00 |
| T.Zone3 | 00:00 | 00:00 |
| T.Zone4 | 00:00 | 00:00 |
| T.Zone5 | 00:00 | 00:00 |

9.2.2 Week timezone

According to the rules and regulations of user's entry and exit, Set the passage time of each week to the corresponding day time zone. For example, the above-mentioned daily time zone rule(only 6:00am to 8:00am can open the door, and only 17:00pm to 19:00pm can open the door) applies from Monday to Friday, and

door can be opened all day on Saturday and Sunday. Pls refer to (Figure 1) for Week Timezone 1:

| Week Timezone | |
|---------------|---|
| SUN | 2 |
| MON | 1 |
| TUE | 1 |
| WED | 1 |
| THU | 1 |
| FRI | 1 |
| SAT | 2 |

(Figure 1)

| Normal Open Time | |
|------------------|---|
| SUN | 1 |
| MON | 1 |
| TUE | 1 |
| WED | 1 |
| THU | 1 |
| FRI | 1 |
| SAT | 1 |

(Figure 2)

Remark: In our device, 【Week Timezone 0】 is default to open the door all day. All other time zones are customizable

9.2.3 Normal open timezone

According to requirements, Set the passage time of each week to the corresponding day time zone .Example: If the setting is as (Figure 2), Day time 1 applies to every day , then it means the door is kept open between 6:00 am and 8:00 am and 17:00pm to 19:00pm everyday

9.3 Open Group

Example: Set open group1 to 12, it means in the definition of user access control in the above section, it is defined that one from group 1 and another one from group 2 together to verify that can open the door

Example 1: Single one can open the door

| | |
|--------------|---|
| Open group 1 | 1 |
| Open group 2 | 0 |
| ... | |
| Open group 5 | 0 |

In the above Settings, which means that only users belonging to group 1 have access to the door.

Example 2: Multiple users who from the same group must together to verify that can open the door

| | |
|--------------|-----|
| Open group 1 | 111 |
| Open group 2 | 0 |
| ... | |

Open group 5 0

In the above Settings, which means that need 3 users belonging to group 1 must together to verify that have access to the door.

Example 3: Different users from different groups

Open group 1 12

Open group 2 0

...

Open group 5 0

In the above Settings, which means that need 2 users that one belonging to group 1 and another one belonging to group 2 must together to verify that have access to the door.

Users belonging to group 1 and users belonging to group 2 do not have the right to open the door independently.

10. Data Mgt

Touch the screen and a menu bar will pop up on the right side of the screen, click



> **【Data Mgt】**, Data management consists of 6 modules: Download Glog、Download All Glog、Clear All Enroll、Delete All Glog、Initialize Menu、Clean Manager.

【Down Glog】:New attendance logs saved in device can be downloaded to U-disk, and form a TXT file, eg:'GLG_001.TXT'

【Down All Glog】:All attendance logs saved in device can be downloaded to U-disk, and form a TXT file, eg:'AGL_001.TXT'

【Clear All Enroll】:Delete all registration info of all users(include face、 card and pwd)

【Delete All Glog】: Delete all logs of all users

【Initialize Menu】: Reset device parameter settings, it won't affect user data and records

【Clean Manager】: Clear all manager privileges on the device

11. Communication

Touch the screen and a menu bar will pop up on the right side of the screen, click



> **【Comm set】**

11.1 Comm set

| Item | Meaning |
|-----------|--|
| Device ID | Set corresponding device No., the default device No. is 1, Please note that the number is related to the communication |
| Port No. | The default port No. is 5005, For communication connection under LAN |

11.2 Server

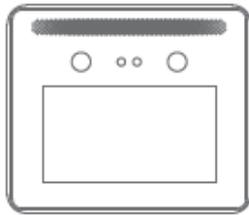
| < Server | |
|--------------|--|
| Server Rep | No  |
| Use domainNm | No  |
| DomainNm |  |
| Server IP | 047.106.068.143  |
| Ser Port No | 7791  |
| Heartbeat | 3  |

When using WAN connection, please do corresponding server settings

| Item | Meaning |
|--------------|--|
| Server Req | Select 'Yes' or 'No', select 'yes' to enable server communication |
| Use domainNm | Select 'Yes' or 'No' |
| DomainNm | If you select 'Yes' for 'Use domain Nm', enter the server domain name here |
| Server IP | If you select 'No' for 'Use domain Nm', enter the server ip address here |
| SerPortNo | Enter server port number |
| Heartbeat | Default value is 3s |

11.3 Ethernet

Use Ethernet to connect the device to computer. An example is shown in the figure below:



IP Address: 192.168.1.224
 Subnet Mask: 255.255.255.0
 Gateway: 192.168.1.1



IP Address: 192.168.1.100
 Subnet Mask: 255.255.255.0
 Gateway: 192.168.1.1

12. System Information

Touch the screen and a menu bar will pop up on the right side of the screen, click



> **【Sys info】**, query registration information and detailed information of device.

| < Sys info | | |
|------------|------|--------|
| Capacity | Info | |
| Manager | 0 | 5 |
| Add user | 4 | 5000 |
| Face | 2 | 5000 |
| Card | 0 | 5000 |
| PWD | 2 | 5000 |
| G-Log | 0 | 500000 |

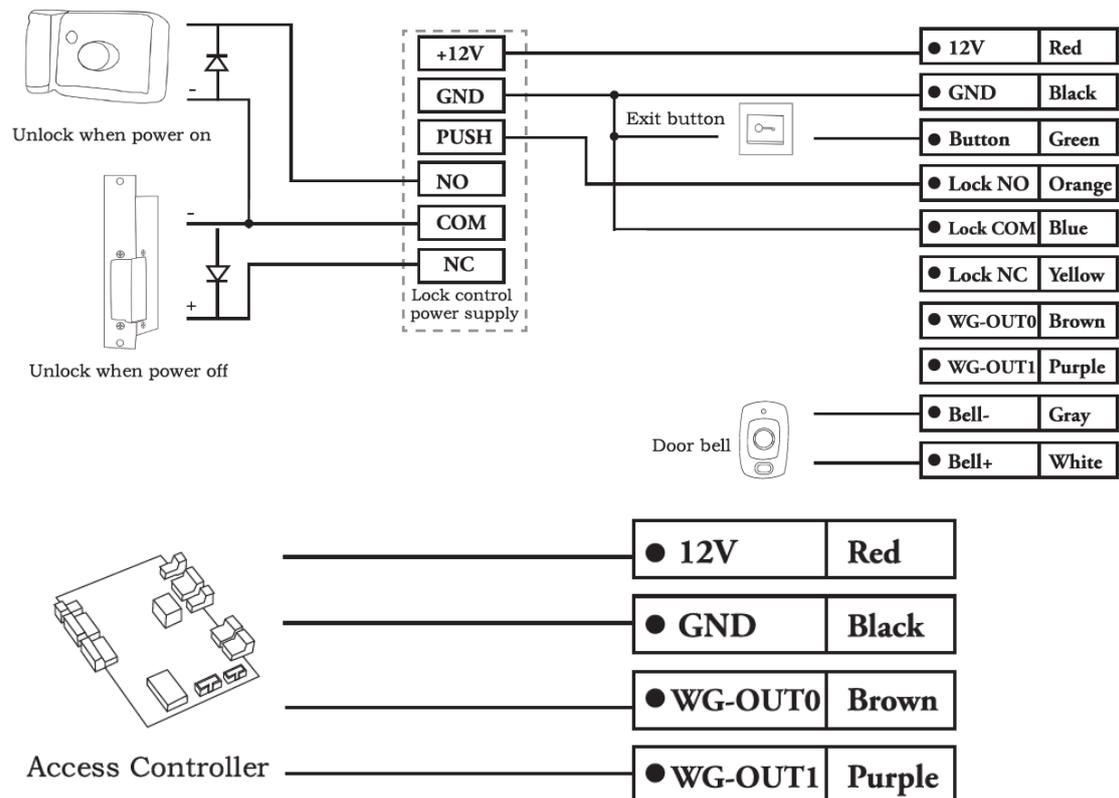
| < Sys info | |
|------------|--------------|
| Capacity | Info |
| Company | |
| Web Site | |
| No | zx123456789 |
| Released | 4 Jan 2021 |
| Model | AiFace-51-H |
| Firmware | AiF50H-v2.00 |

Appendix1 Schematic Diagram of Access Control Wiring

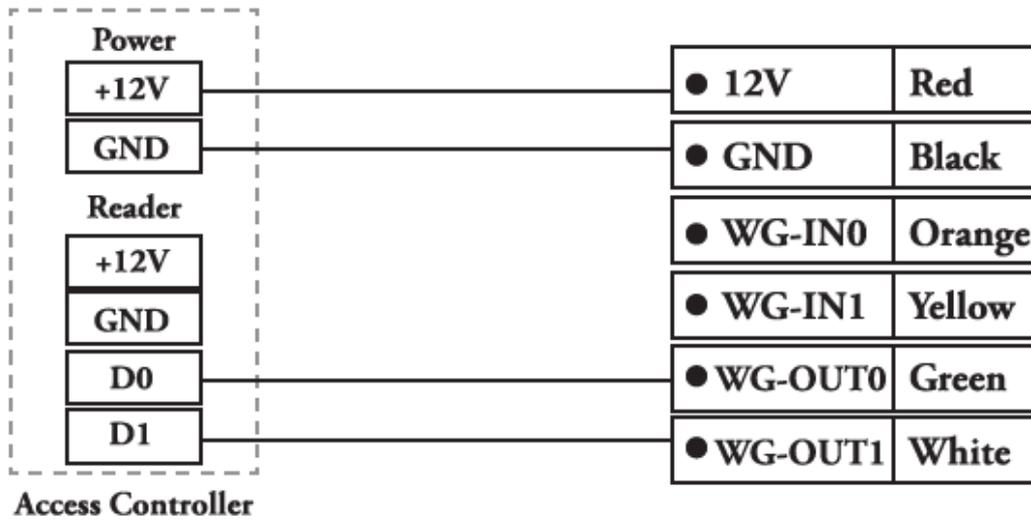
1) Schematic diagram of device wiring port

| | | |
|--------|----------|--|
| White | Bell+ | Door Bell+ |
| Gray | Bell- | Door Bell- |
| Purple | WG OUT1 | Wiegand OUT1 |
| Brown | WG OUT0 | Wiegand OUT0 |
| Yellow | Lock NC | Normal closed end of the control lock signal |
| Blue | Lock COM | The common end of the control lock signal |
| Orange | Lock NO | Normal opened end of the control lock signal |
| Green | Button | Open signal |
| Black | GND | GND |
| Red | 12V | 12V |

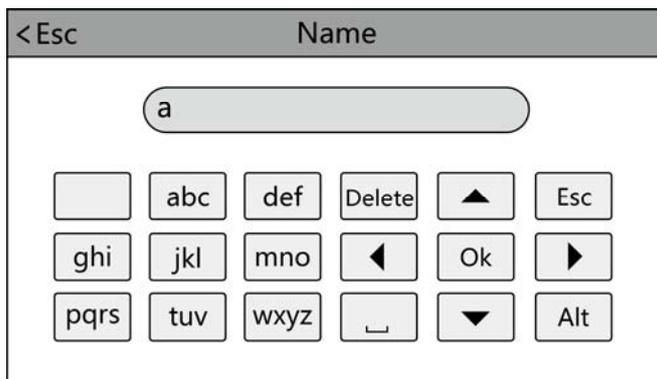
2) Device connection diagram



Remark: When the power supply of the access controller is insufficient (The facial device may shut down automatically when face recognition happens) . In this case, please wiring as below diagram:



Appendix2 Input Method Introduction

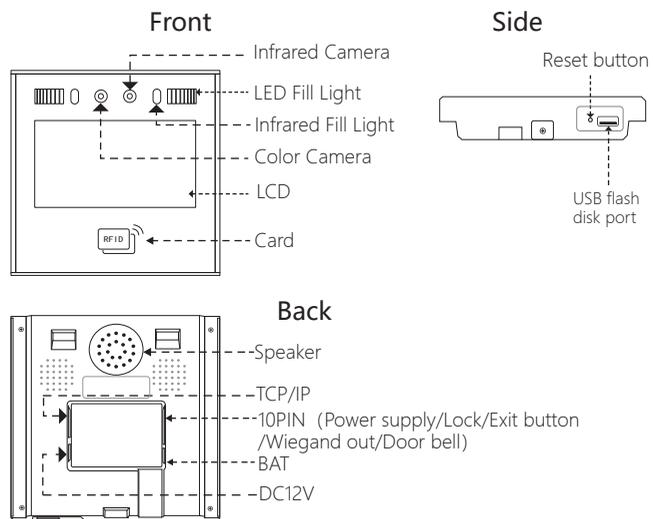


Touch 'Alt' to switch capital/small letter or number, after finished,touch 'Ok' to save it
How to input punctuation:when the input method is in capital/small letter state,touch ' ' to select what you want to input. The first one is space, the second is dot and so on

AI Dynamic Face Recognition Terminal quick guide

Version : V18.23

1.Appearance Display



1

| Item | Meaning |
|----------------|---|
| Re verify | Check if users make punch repeatedly within this range, if records interval is less than this value, records won't be stored |
| Log Warning | When rest available storage capacity is less than this value, device will alarm |
| Save Photo | If select 'Yes', when device connect to software, captured photo when users verify face can be shown in software |
| Stranger Photo | If select 'Yes', and enable 'save photo', when device connect to software, captured photo when strangers verify face can be shown in software |
| Default Shift | Set default shift, when you add users, they will apply this default shift |
| Excel Pwd | Set password for attendance report |
| Late time | When user's late arrival time exceeds *** mins , then it is counted as late arrival. |
| Lea time | When user's early leave time exceeds *** mins , then it is counted as early leave. |

2. Edit Shift

[Download Shift] : Touch the screen and a menu bar will pop up on the right side of the screen, click > **[Shift]** > **[Atten rules]** , then insert U-disk. Click **[Download Shift]** , then you can download shift arrangement in excel form, Also you can edit the form on PC. Pls refer to below picture:

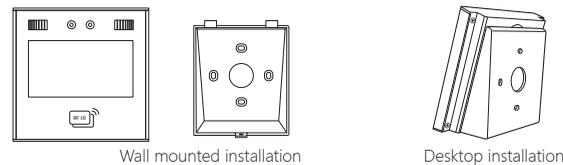
| Shift | | | | | | | | | | | |
|--|-------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|-------------|
| Note: A, shift name: up to 48 words. B. Section type: 0: normal attendance.1: overtime. C. cut off time: if the punch before the cut off time ,it will calculate as the previous day | | | | | | | | | | | |
| NO. | Name | Sec1 | | | Sec2 | | | Sec3 | | | CutoffTime: |
| | | IN | OUT | Sec_1 type | IN | OUT | Sec_2 type | IN | OUT | Sec_3 type | |
| 1 | Day Shift | 08:30 | 12:00 | 0 | 13:30 | 18:00 | 0 | 18:30 | 23:00 | 1 | 00:00 |
| 2 | Night Shift | 22:00 | 06:00 | 0 | | | | | | | 07:00 |

Edit shift arrangement according to the prompts of form header. Maximum 8 shifts can be set. Click **[Save]** after editing and save the file into U-disk.

5

2.Wall Mount Installation

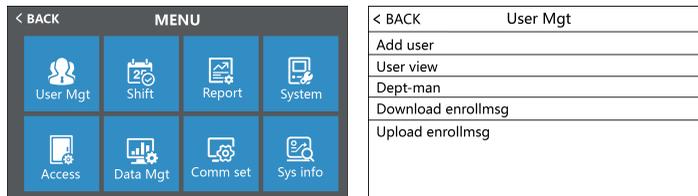
- The recommended installation location is 130cm from the lowest point of the device to the ground (a suitable height can be identified according to the actual situation).
- Disassemble rear hanging plate and attach it to the wall to select the suitable installation position, then make a mark.
- Drilling on wall according to the marked position.
- Fix the rear hanging plate on the wall.
- Install the device on the rear hanging plate and fix it, then power it up.



3.Attention

- Do not operate with power during installation.
- When connecting electric lock, 12V/2A power supply is recommended .
- Do not install the device in direct sunlight or in a humid place.
- Please read the wiring diagram of access control, and wire it according to the rules strictly.
- On the situation that static electricity is a bit heavy, please connect ground wire first and then connect other wires, which can protect the device from damaging in static electricity.

4.User Management



2

Note:

- Attendance time must be in the format of time, and attendance type must be in the format of digits. So when you handle the setting, pls pay attention that the input method is in English half-angle status. Checking Method: For example, when you input 10:30, double click this cell, then software will automatically turn the digits into 10:30:00.
- If you set the shift of cross time, then the Clock-in before the cross time will be counted as the record of previous day. And shift should start after the cross time. For example:

| Shift | | | | | | | | | | | |
|--|--------|-------|-------|------------|------|-----|------------|------|-----|------------|-------------|
| Note: A, shift name: up to 48 words. B. Section type: 0: normal attendance.1: overtime. C. cut off time: if the punch before the cut off time ,it will calculate as the previous day | | | | | | | | | | | |
| NO. | Name | Sec1 | | | Sec2 | | | Sec3 | | | CutoffTime: |
| | | IN | OUT | Sec_1 type | IN | OUT | Sec_2 type | IN | OUT | Sec_3 type | |
| 1 | Shift1 | 23:00 | 08:00 | 0 | | | | | | | 09:00 |

Cross time is set at 09:00am. Then shift should start after 09:00, and Clock-in record before 09:00am on Tuesday should be counted as the record of Monday.

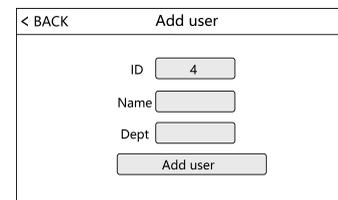
- If you don't need to clock at noon, combine the two sections into one . For example: 08: 30-12: 00 13: 30-17: 50,it can be set to section 1: 08: 30-17: 50
- Time Skip setting is not allowed. For example, When you complete the setting of Section 1, you cannot skip Section 2 and get to set Section 3.

[Upload shift] : After editing, insert U-disk and click **[Upload Shift]** , then you can upload the edited shift arrangements into device.

7.Report

Touch the screen and a menu bar will pop up on the right side of the screen, click > **[Report]** , Insert U-disk, and input the start and end time that you need to check. Click "OK"to download the report. The report includes original record sheet(Original Record), attendance list(Schedule)and summary sheet (Summary Report).

6



Touch the screen and a menu bar will pop up on the right side of the screen, click > **[User Mgt]** > **[Add user]** , when there is a registered admin, After passing the verification of admin then the menu can be entered

[ID] When registering, each user can only have one unique 'ID'.

[Name] Input, edit name by T9 input method.

[Face] Gaze at the camera to complete the face registration.



Note: Please stand directly in front of the device, face the camera, and keep the entire face displayed in the frame, In order to maintain a good face recognition effect.The following picture is for your reference

[Fingerprint] Press finger three time to finish enrollment. (Optional)

[Password] An ID can only register one password. After clicking the password icon, enter the password to be set and then press ok to confirm the password again.

[Password Verification] Verify password by touching the face recognition area of the screen then click then input ID-click 'OK'-input password-click 'OK'

[Card] Each user can only register one card.

[User View] : You can quickly locate the user you want to edit by **[Find]** or **[Find Name]** at the top of the page. Or slide the screen to search user.

1) Edit user information: Select user you want to edit, you can change any information in this page except 'user ID'

2) Delete user: Select user you want to edit→Delete

3) Advanced setup: Set user shift settings and access control settings on **[Advanced setup]** menu

[Department] Set the department that user belongs to

[Privilege] User and Admin and Super.user can be selected

3

Original Record : You can check all users' attendance records in the sheet. Pls refer to below picture:

| Original record | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|------------|-------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Date:2019-8-1~2019-8-31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ID:1 | Name:Lucas | Dept:Office | Shift:Day Shift | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 | 12:00 |

Schedule : Attendance machine can automatically analysis the clock-in and clock-out data, and transmit these data in EXCEL file to the U disk. Format as below: (Remark: Red text indicates that the attendance is abnormal, such as late, early leave. Blue means overtime)

| schedule | | | | | | | | | | | | |
|-------------|-----------------|-------|-------|-------|-------|-------|-----|--------|--------|----------|--------------|-------------------------|
| ID:1 | Name:Lucas | | | | | | | | | | | |
| Dept:Office | Shift:Day Shift | | | | | | | | | | | Date:2019-8-1~2019-8-31 |
| Date | week | IN | OUT | IN | OUT | IN | OUT | Normal | Actual | OT hours | Late minutes | Leave minutes |
| 8-1 | THU | 08:25 | 12:03 | 13:26 | 18:06 | 18:06 | | 8 | 8 | 0 | 0 | 0 |

Summary Report : It is a Statistics display of employee attendance for one month

| Summary Report | | | | | | | | | | | |
|--------------------------|-------|--------|------------|--------|--------------|---------------|-------|----------|--------|---------------------------|---------|
| Date: 2019-8-1~2019-8-31 | | | | | | | | | | | |
| ID | Name | Dept. | Work hours | | Late minutes | Leave minutes | | OT hours | | Work Dates(Normal/Actual) | Truancy |
| 1 | Lucas | Office | Normal | Actual | TIMES | Minutes | TIMES | Minutes | Normal | Actual | 0 |
| | | | 248.0 | 248 | | | | 77.5 | | S1.0/S1.0 | 0 |

8.System settings

Touch the screen and a menu bar will pop up on the right side of the screen, click > **[System]**

7

[User] :if there is Admin in this device, user is not allow to access into menu
[Admin] : The manager of this device. Only admin has permission to access into menu.

[Super.user] : Only when there is Admin in device, then can enroll Super.user, but Super.user can only operate part of menu, such as register users

5.Download and upload user information

Touch the screen and a menu bar will pop up on the right side of the screen, click > **[User Mgt]** > **[Download enrollmsg]** ,insert U-disk in device to download, 3 files will be exported as below:

- User data file (AFP_001.dat): It can be used to synchronized users between devices, and '001' represents device ID
- User's enrolled photo(EnrollPhoto)
- User information Excel sheet(Staff): Users can edit it in PC then upload back to device, please refer to below picture:

| Staff | | | | | | | | | | | | |
|--|--------|-------|-------|-------|------|-----|---------|---------------|-----|-----------|--------|------|
| Note:A, Enroll number: only fill in the number (maximum of 8) required. B, Name: up to 48 words. C, Department: up to 48 words. D, Shift: 0-9. E, Admin: 0 or not filled: user. 1, admin. F, Fingerprint: Face: no need to fill in. G, Password: up to 8 digit | | | | | | | | | | | | |
| ID | Name | Dept. | Shift | Admin | Face | PWD | Card | Lock timezone | GRP | Birthdate | Start: | End: |
| 1 | Jenny | | 0 | 0 | | 123 | 3653177 | 0 | 0 | | | |
| 2 | Sophie | | 0 | 0 | | 0 | 0 | 0 | 0 | | | |

Fill in personnel information according to the prompt of form header. As for "Shift" item, it is the editing shift number in the time attendance setting. When complete the editing. Directly Click **[Save]** , and save the edited file into U-disk.

After editing shift form , Touch the screen and a menu bar will pop up on the right side of the screen, click > **[User Mgt]** ,then insert U-disk, click **[Upload enrollmsg]** and transmit the edited user information to device.

Remark: For Lock Time zone, start time and end time, Pls refer to Chapter 9 Access

6.Time Attendance Management

This chapter is used for setting shifts and attendance rules

1. Attendance Rule

Touch the screen and a menu bar will pop up on the right side of the screen, click > **[Shift]** > **[Atten rules]**

4

1.Device Setup

| Item | Meaning |
|-------------|--|
| Time | Set device time |
| Time fmt | 24H and 12H format can be selected |
| Date fmt | Select different date format |
| Language | Change device displayed language |
| Voice | Set the volume of speaker |
| Screen Idle | How long does it take to enter screen saver when the main Interface is not operating |
| bio-assay | Verify that the user is a live person instead of photo. |

2. Advanced setup

| Item | Meaning | |
|------------------|---|--|
| Max Admin | Set the maximum number of device admin | |
| Verify Mode | FA/C/P | No matter what kind of verification method can be verified |
| | Others | Need to verify two verification methods together |
| Visitor QRCode | Whether enable scanning QRcode function or not. Connect device to our cloud software and generate QRCode then verify it in device | |
| 1:N Identify | Set the threshold of face recognition | |
| Live threshold | When enable 'bio-assay', the threshold of face recognition | |
| Testing | Check whether the camera is normal | |
| Firmware upgrade | Insert U-disk (FAT32 format) to do device firmware upgrade | |

8

9. Access control management

Touch the screen and a menu bar will pop up on the right side of the screen, click > 【Access】

1. Access

| Item | Meaning |
|-----------|---|
| OD delay | Set the time between lock relay effective and the state of resume normal. |
| Users | Set the number of user required to open the door. For example: set it to 2, only when 2 different users verify at the same time, the door can be opened |
| Wg output | Define the content of wiegand output, user ID and card number can be selected |
| Wg format | You can define wiegand port output format. The default format is 34bits, and it can be changed to 26bits |

2. Timezone settings

2.1 Day timezone

According to the rules and regulations of user's entry and exit, set the daily access time to the corresponding time period. You can totally set 8 groups of day time zones, or week time zones. For example, you can set the time between 6:00am and 8:00am to open the door, and the time between 17:00pm and 19:00pm to open the door. Pls refer to below picture Day Timezone 1 setting. If you want to set the door to be open in all day, pls refer to below picture Day Timezone 2 setting.

Example: 【Day Timezone 1】 setting as below

Example: 【Day Timezone 2】 setting as below

| | | |
|---|-------|-------|
| 1 | 06:00 | 08:00 |
| 2 | 17:00 | 19:00 |
| 3 | 00:00 | 00:00 |
| 4 | 00:00 | 00:00 |
| 5 | 00:00 | 00:00 |

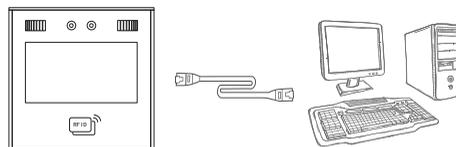
| | | |
|---|-------|-------|
| 1 | 00:00 | 23:59 |
| 2 | 00:00 | 00:00 |
| 3 | 00:00 | 00:00 |
| 4 | 00:00 | 00:00 |
| 5 | 00:00 | 00:00 |

9

3. Ethernet

| Ethernet | |
|---------------|-------------------|
| DHCP | No |
| IP address | 192.168.0.224 |
| Subnet mask | 255.255.255.0 |
| Gate way | 192.168.0.001 |
| DNS Server IP | 008.008.008.008 |
| MAC Address | 52:f3:30:f4:ad:33 |

Use Ethernet to connect the device to computer, An example is shown in the figure below:



IP Address: 192.168.1.224
Subnet Mask: 255.255.255.0
Gateway: 192.168.1.1

IP Address: 192.168.1.100
Subnet Mask: 255.255.255.0
Gateway: 192.168.1.1

3. WIFI(Optional)

click 【Search】 to select corresponding wifi hotspot, then input wifi password to connect it.

| WIFI | |
|-------------|-------------------|
| Search | |
| DHCP | 否 |
| IP address | 192.168.0.224 |
| Subnet mask | 255.255.255.0 |
| Gate way | 192.168.0.001 |
| DNSServerIP | 008.008.008.008 |
| MAC Address | 38:01:46:17:e5:c7 |

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2.2 Week timezone

According to the rules and regulations of user's entry and exit, Set the passage time of each week to the corresponding day time zone. For example, the above-mentioned daily time zone rule(only 6:00am to 8:00am can open the door, and only 17:00pm to 19:00pm can open the door) applies from Monday to Friday, and door can be opened all day on Saturday and Sunday. Pls refer to (Figure 1) for Week Timezone 1:

| Week time zone | |
|----------------|---|
| MON | 1 |
| TUE | 1 |
| WED | 1 |
| THU | 1 |
| FRI | 1 |
| SAT | 2 |
| SUN | 2 |

(Figure 1)

| Normal open time zone | |
|-----------------------|---|
| MON | 1 |
| TUE | 1 |
| WED | 1 |
| THU | 1 |
| FRI | 1 |
| SAT | 1 |
| SUN | 1 |

(Figure 2)

Remark: In our device, 【Week Timezone 0】 is default to open the door all day. All other time zones are customizable

2.3 Normal open timezone

According to requirements, Set the passage time of each week to the corresponding day time zone .Example: If the setting is as (Figure 2), Day time 1 applies to every day , then it means the door is kept open between 6:00 am and 8:00 am and 17:00pm to 19:00pm everyday

3. User access settings

Touch the screen and a menu bar will pop up on the right side of the screen, click > 【User Mgt】 > 【User View】 > select users > 【Advanced setup】 to edit T.zone

| Sophie(1) | |
|-----------|----------------|
| Edit | Advanced setup |
| ID | 1 |
| Name | Sophie |
| Card | 202 |
| PWD | ***** |
| Privilege | User |

| Sophie(1) | |
|-----------|----------------|
| Edit | Advanced setup |
| Dept | |
| Shift | No |
| T.Zone | No |
| BirthDay | 03/24 |
| Start: | 2000-01-01 |
| End: | 2099-01-01 |

10

12. Schematic Diagram of Access Control Wiring

1) Schematic diagram of device wiring port

| | TCP/IP | TCP/IP interface |
|--------|----------|--|
| Red | +12V | +12V |
| Black | GND | GND |
| Green | Button | Open signal |
| Orange | Lock_NO | Normal opened end of the control lock signal |
| Blue | Lock_COM | The common end of the control lock signal |
| Yellow | Lock_NC | Normal closed end of the control lock signal |
| Brown | WG_D0 | WG 0 |
| Purple | WG_D1 | WG 1 |
| Gray | Bell - | Door bell - |
| White | Bell + | Door bell + |

| | |
|-----|--------------|
| BAT | Backup power |
|-----|--------------|

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10. Data management

Touch the screen and a menu bar will pop up on the right side of the screen, click > 【Data Mgt】 , Data management consists of 6 modules: Download Glog, Download All Glog, Clear All Enroll, Delete All Glog, Init Menu, Clean Manager.

| Data Mgt | |
|------------------|--|
| < BACK | |
| Down GLog | |
| Down all GLog | |
| Clean all enroll | |
| Delete all GLog | |
| Init Menu | |
| Clean manager | |

【Down Glog】 : New attendance logs saved in device can be downloaded to U-disk, and form a TXT file, eg:'GLG_001.TXT'

【Down All Glog】 : All attendance logs saved in device can be downloaded to U-disk, and form a TXT file, eg:'AGL_001.TXT'

【Clear All Enroll】 : Delete all registration info of all users(include face、card and pwd)

【Delete All Glog】 : Delete all logs of all users

【Initialize Menu】 : Reset device parameter settings, it won't affect user data and records

【Clean Manager】 : Clear all manager privileges on the device

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11. Communication

Touch the screen and a menu bar will pop up on the right side of the screen, click > 【Comm set】

1. Comm set

| Item | Meaning |
|-----------|--|
| Device ID | Set corresponding device No., the default device No. is 1, Please note that the number is related to the communication |
| Port No. | The default port No. is 5005, For communication connection under LAN |

2. Server

| Server | |
|--------------|-----------------|
| Server Rep | No |
| Use domainNm | No |
| DomainNm | |
| Server IP | 047.106.068.143 |
| Ser Port No | 7791 |
| Heartbeat | 3 |

When using WAN connection, please do corresponding server settings

| Item | Meaning |
|--------------|--|
| Server Req | Select 'Yes' or 'No', select 'yes' to enable server communication |
| Use domainNm | Select 'Yes' or 'No' |
| DomainNm | If you select 'Yes' for 'Use domain Nm', enter the server domain name here |
| Server IP | If you select 'No' for 'Use domain Nm', enter the server ip address here |
| SerPortNo | Enter server port number |
| Heartbeat | Default value is 3 s |

12

13. T9 Input Method

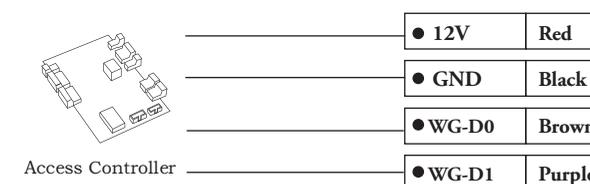
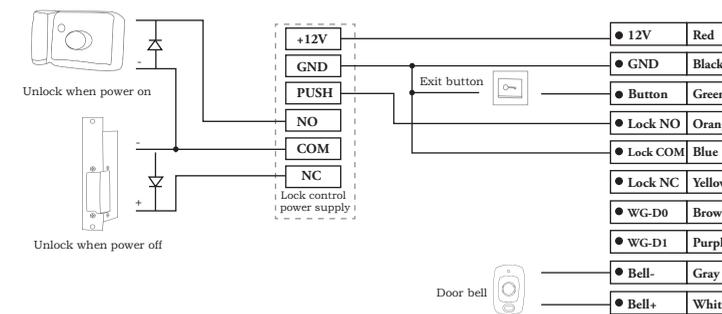
Touch 'Alt' to switch capital/small letter or number, after finished,touch 'Ok' to save it

How to input punctuation:when the input method is in capital/small letter state,continuous click '┐' to select what you want to input. The first one is space, the second is dot and so on .

| Name | |
|------|----------|
| a | |
| abc | def |
| ghi | jkl mno |
| pqrs | tuv wxyz |
| | Alt |
| | Delete |
| | OK |
| | Esc |

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2) Device connection diagram



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