Integrated Access Controller

User Manual

Device Parameter

Communication:TCP/IP
Communication Rate:10M/100M
User Capacity: 20000
Record Capacity:50000
Alarm Record Capacity:20000
Exit Button:1
Door-Magnet:1

Authentication Mode: Password/Card(ID or IC)
Reader Interface:1
Input Protection:TVS lightening protection,PTC surge protection
Output Protection:Varistor Protection
Working Voltage:DC12V
Working Current:Non-load<500mA
Size(mm):A L122 ×W77×H39
          B L108×W77×H26
          C L122×W77×H36

Advanced Features

For advanced features, please use Business software.

Staff Attendance

Time attendance management can realize working hours setting,shiftovertime register , leave register,add missed card record,attendance count and other functions.

Information Query

Access records, alarm records, attendance details and other information queries.

Multiple identification modesare used in combination

RFID, password are all used.

Professional Features

For professional features, please adopt the Plus software.

First-card	Any card can be first-card
Multi-card	Support 4 cards
Remote Access Control	Any door can be opened via center authentication
Enforced control	Forced open/close door for long time
Threaten Code	A group of 6 digits code
Open Door by Password	Every user can be assigned with one password
Door Normal Open Timed	Normal open can be set for three time segments
Door Bolt Mode	Normal open in unfixed time
Anti-passback	Two readers or all readers can be set in a group
Limit Valid Date	To set user valid date, user will limit to access after valid date, it can be accurate to the hour.
Global Anti-passback	User can set all devices that managed by software as global anti-passback group by software.
Self-defined Input / Output	Self-defined input/output and relay
Activate/Dismiss Security	Any user can activate/dismiss security by card/fingerprint or software
Data Storage Mode	Cycled Storage
Video Record/Snapshot	Related video, record or snapshot via software
Access Authority	200 groups
Authentication Mode	Card/Password
Reader Protocol	Wiegand26/34
Real-time Monitor	Software can real-time monitor the status of access and alarm.
Alarm Linkage	Valid fingerprint, invalid fingerprint and alarm input can trigger the specified relay action.

Product Appearance

Indicator light

Program and
Exit Keypad

Confirm
Keypad

Bell

Tamper Button

Buzzer
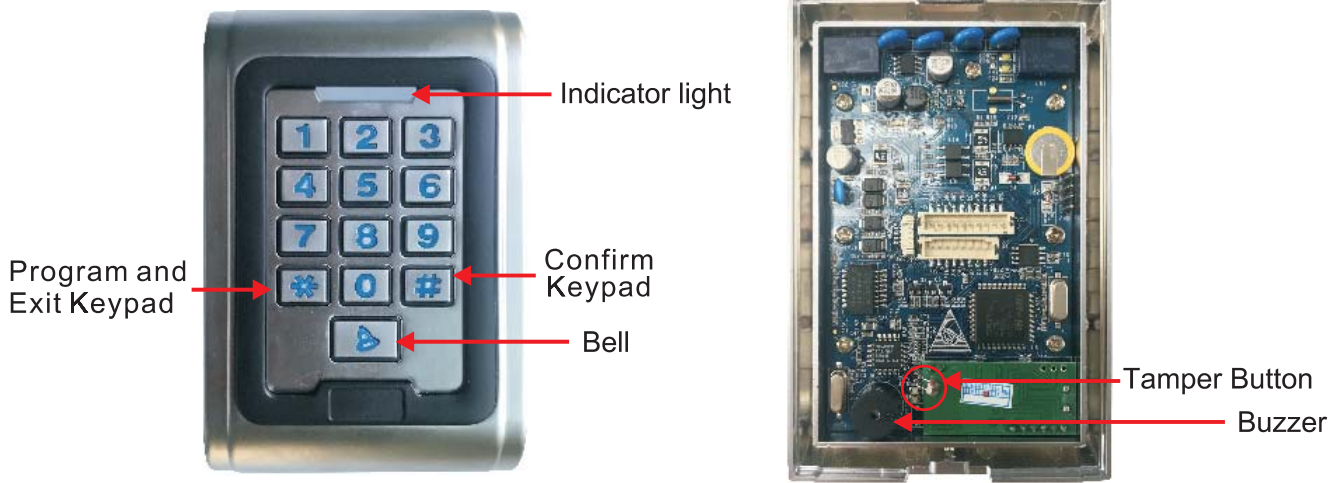
Tamper button and Clear Communication Password:
To press the tamper button 5 times to clear the communication password. After clearing, it will beep.

Indicator Light and Sound Indication

Take A as an example:

Red light indicates that the device is working properly.

One sound means that can access

The green light indicates that can access.

3 Three sounds indicate that no access.

Blue light indicates device is programming status. Continuous blinking indicates entering the programming status.
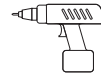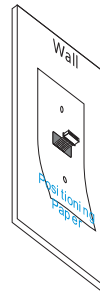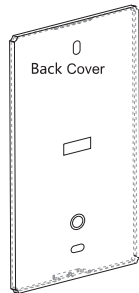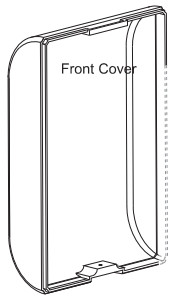
~ ~ The continuous long beep indicates that the device has been removed.

Product Installation

Front Cover

Back Cover

Wall

①Put the positioning paper on the wall, follow the icon to punch and pass the cable out.

Positioning Paper

②Fix back cover with self-tapping screws, place the device into the middle frame, then connect device by the cable.

B

Notch
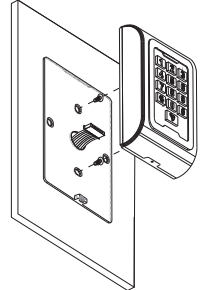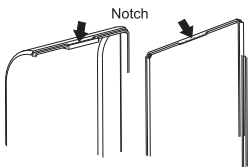
③Align the bayonet of the front cover to the bottom cover gap, buckle downward.

④Rotate the bottom of the front cover inward, until fully buttoned into the bottom cover.

Wall
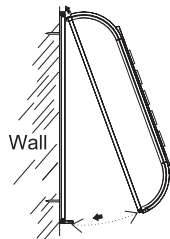
⑤Tighten the screw from the bottom to make the front cover fixed with the bottom cover.

cm

Wall

3 cm
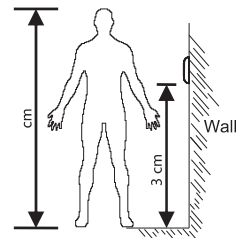
⑥Take the body height of 170cm as an example,the recommended installation height is130 cm.

Important Notices

⚠ If user do not follow below items, system may not work well, even bring some damages.

1. Any connection and operation are prohibited when components or the controller is power on.
2. Please connect the system according to the instructions described in this manual.
3. IP address should not be repeated. If there are two network cards in PC, please prohibit one.
4. Please use specified power supply.

Wiring Diagram

Take B as an example：

1

- 12V(Red)
- GND(Black)
- 2NO(Blue)
- 2C (Grey)
- 2NC(Purple)
- 1NO (Orange)
- 1C (Brown)
- 1NC(Yellow)
- NULL(White)
- NULL(Green)

10pin×2mm

2

- D0-IN(Green)
- D1-IN(White)
- BUZ(Blue)
- SW(Grey)
- AN(Yellow)
- ALM(Purple)
- BELL－(Orange)
- BELL＋(Red)

8pinx2mm

3

- RX-
- RX+
- TX-
- TX+

4pinx2mm
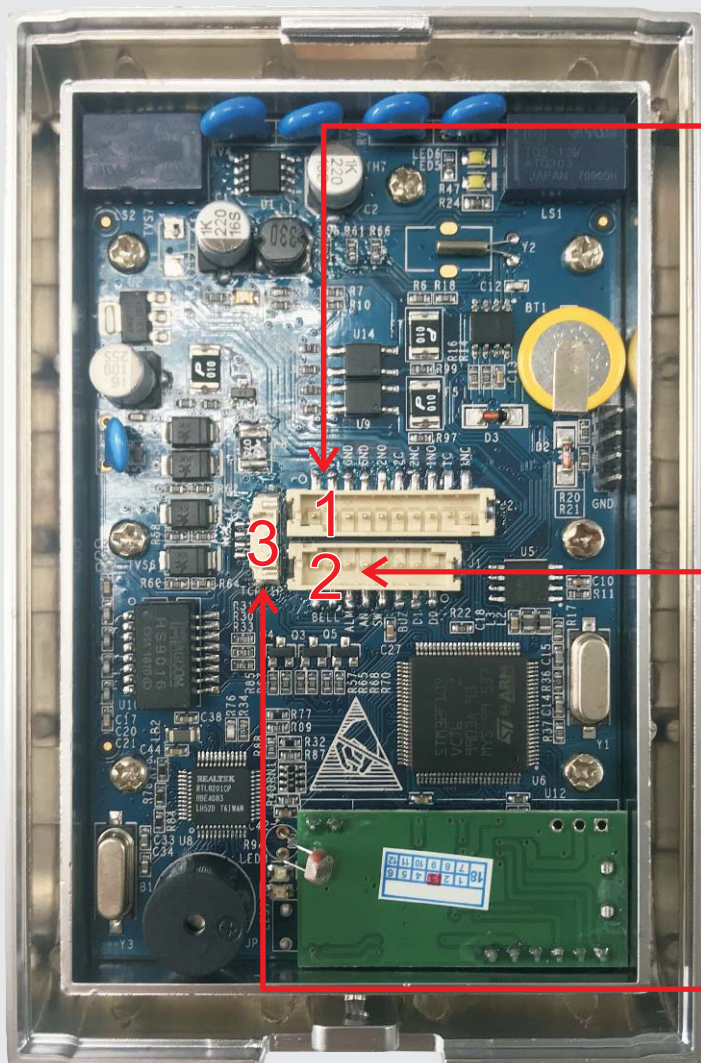
Business software is easy to manage employee access at the office site, also anti-theft, employee attendance and care for staff.

Communication

Software

Time Attendance

Office Safely

Staff Access

Devices Mangement

Router

LAN

TCP/IP

4pinx2mm

3

| TX+ |
| TX- |
| RX+ |
| RX- |

Device

Wiring Diagram

Reader

Device	2	8pinx2mm				Reader 1
			D0-IN(Green)	Green D0		
			D1-IN(White)	White D1		
			BUZ(Blue)	Blue BUZ		
			SW(Grey)	Black GND		
			AN(Yellow)	Red +12V		
			ALM(Purple)			
			BELL-(Orange)			
			BELL+(Red)			

GND 12+
Power

Lock

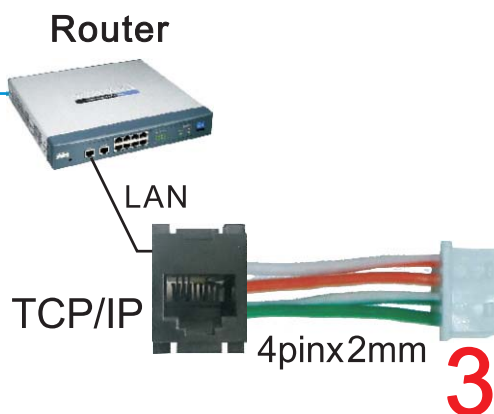| Device	1	10pin×2mm			Lock
			12V(Red)	Red +12V	
			GND(Black)		
			2NO(Blue)		
			2C (Grey)		
			2NC(Purple)		
			1NO (Orange)	Black GND	Lock 1
			1C (Brown)		
			1NC(Yellow)		
			NULL(White)		
			NULL(Green)		

GND 12+
Power
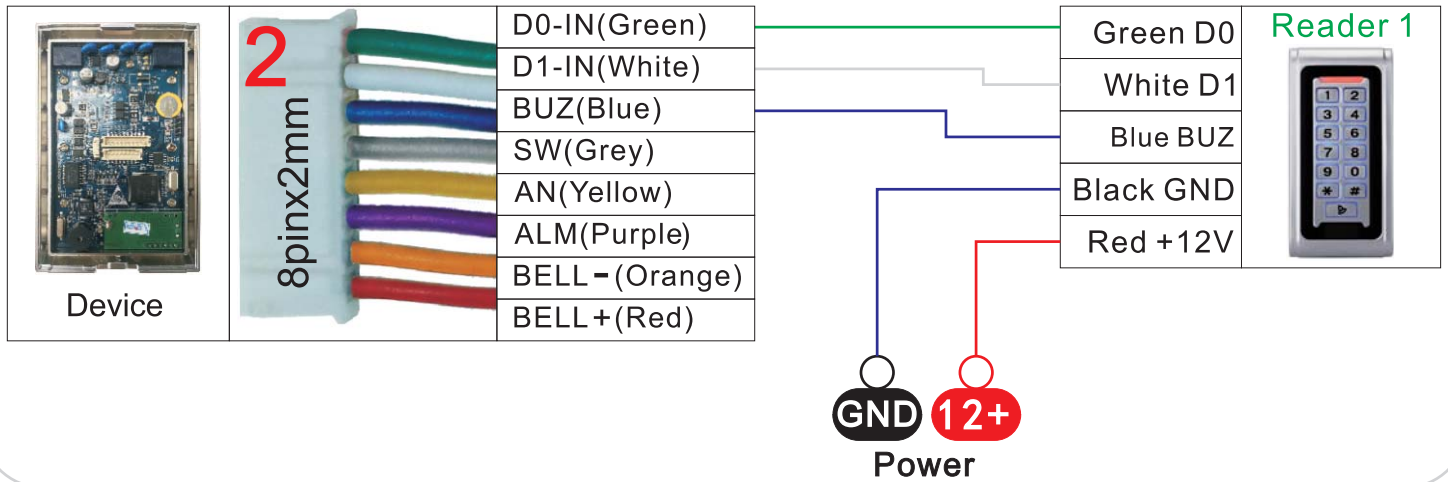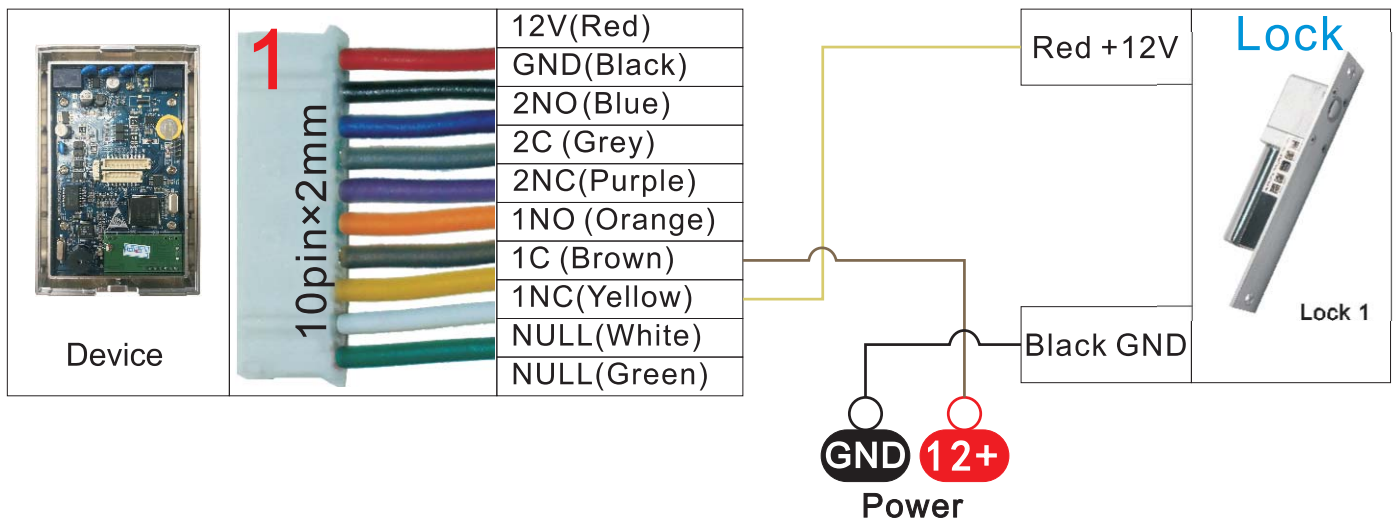
Exit Button,Door-Magnet and Alarm Input

Device	2	8pinx2mm			
			D0-IN(Green)	NC	Door-Magnet
			D1-IN(White)	COM	
			BUZ(Blue)		
			SW(Grey)	NO	
			AN(Yellow)	COM	Exit Button
			ALM(Purple)	NC	
			BELL-(Orange)	NO	IR Alarm
			BELL+(Red)	COM	(NO\NC)
				NC	

GND
Power
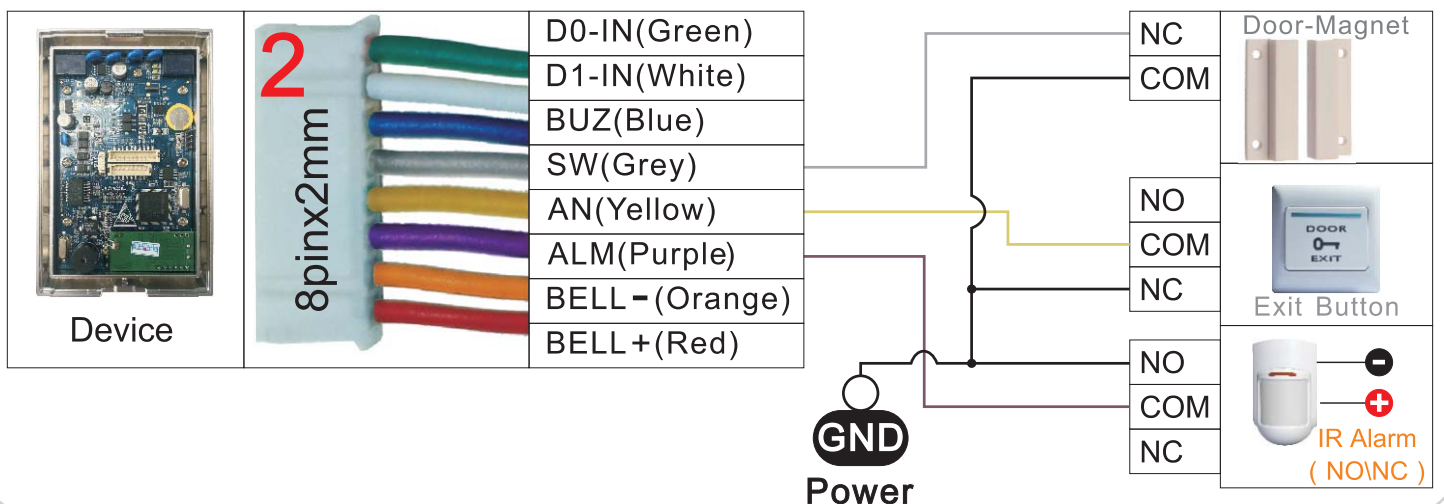
Wiring Diagram

Alarm Output

Device	1 — 10pin×2mm	
	12V(Red)	
	GND(Black)	
	2NO(Blue)	
	2C (Grey)	
	2NC(Purple)	
	1NO (Orange)	
	1C (Brown)	
	1NC(Yellow)	
	NULL(White)	
	NULL(Green)	

Red +12V — **Alarm Output**

Black GND

GND **12+**
Power

Power

Device	1 — 10pin×2mm	
	12V(Red)	
	GND(Black)	
	2NO(Blue)	
	2C (Grey)	
	2NC(Purple)	
	1NO (Orange)	
	1C (Brown)	
	1NC(Yellow)	
	NULL(White)	
	NULL(Green)	

Black GND

Red +12V

Black GND

Red +12V

Power Supply

N

L

AC90-260V

Bell

Device	2 — 8pinx2mm	
	D0-IN(Green)	
	D1-IN(White)	
	BUZ(Blue)	
	SW(Grey)	
	AN(Yellow)	
	ALM(Purple)	
	BELL−(Orange)	
	BELL+(Red)	

NO
COM
V+
V−

BELL

Instruction for keypad operation

This operation applies to A/B/C.

1. Operation Indication

   1.1 Sound Indication：

   1.1.1 One long sound is operation successful or enter menu.

   1.1.2 Three short sounds is operation failure.The position is registered/Reader is registered.

   1.2 LED Light Indication：

   Red：Power indication light,after power on,the light on.

   Bule：Enter program mode.

   Green：It is success to input program command and executive command.

2. Setup Operation

   1) Enter Edit Mode

   Press "＊"and input administrator password (Default is 000000).

   If password correct then enter edit mode, or return to main interface.

   2) Basic Setup

   Basic Setup：System initiliation, dismiss/activate security, tamper setup, exit button setup, door-magnet setup, alarm setup.

   2.1 System Initialize

   System initialize will clear device all setups, register information and records to original.

   Operation： Edit Mode—〉Input 11 Initialize

   When successful, a long buzzing and return to upper menu.

   2.2 Dismiss/Activate Security

   Operation： Edit—〉Input 121 enter Activate Security.

   Edit—〉Input 122 enter Dismiss Security

   2.3 Tamper Setup：

   Operation： Edit—〉13 Enter Tamper Setup

   Input 00 Cancel Tamper

   Input 01 Start Tamper

   2.4 Exit Button Setup

   Exit button setup: Exit button Type , Exit button disabled

   2.4.1 Exit Button Type

   Operation：Edit—〉Input 141 Enter Exit Button Type Setup

   Input 01 enter Normal Open

   Input 00 enter Normal Close

   2.4.2 Exit Button Disabled Setup

   Operation：Edit—〉Input 142 Enter Setup

   Input 01 enter Exit button valid

Input 00 enter Exit Button Disabled

2.5 Door-Magnet Setup

Door-Magnet Setup: Door-Magnet Type Setup, Door-open time-out length setup

2.5.1 Door-Magnet Type Setup

Operation：Edit—>Input 151 Enter Setup

Input 01 enter Normal Open

Input 00 enter Normal Close

2.5.2 Door-open Time-out Length Setup

Operation：Edit—>Input 152 Enter Setup

Input two number (00 to 99),   unit: second

2.6 Alarm Setup

Alarm Setup：Alarm Type Setup,   Alarm Action Delay, Alarm Relay Output.

2.6.1 Alarm Type Setup

Operation：Edit—>Input 161 Enter Setup

Input 01 enter Normal Open

Input 00 enter Normal Close

2.6.2 Alarm Action Delay Setup

Operation：Edit—>Input 162 Enter Setup

Input two number (00 to 99),   unit: second

2.6.3 Alarm Relay Output Setup

Operation：Edit—>Input 163 Enter Setup

Input 1   Relay 1 output

Input 2   Relay 2 output

Input 3   Relay 1 and 2 output

Input 4   Not Output

3) Access Mode Setup

Access Mode Setup: Door-open Delay, Door-open Mode

3.1 Door-Open Delay

Operation：Edit—>Input 21 Enter Setup

Input two number (00 to 99), unit: second

3.2 Door-open Mode Setup

Operation：Edit—>Input 221 Open by Card

Input 222 Card+Password

Input 223 Password

Input 224 Card or Password

4）Staff Management

Staff Management: Add Card, Delete Card

4.1 Add Card

Add Card：Add card continuously, add single card, add card+password continuously, add single card+password, add single password, add password continuously.

4.1.1 Add Card Continuously

Operation：Edit—>Input 31—>Input 4-digit initial code—>Read Card continuously—>Press″#″ exit

4.1.2 Add Single Card

Operation：Edit—>Input 32—>Input 4-digit code—>Read Card—>Press″#″ exit

4.1.3 Add Card+Password Continuously

Operation：Edit—>Input 33—>Input 4-digit initial code—>Read Card—>Input Password—>Re-input Password—>...—>Press″#″ exit

4.1.4 Add Single Card+Password

Operation：Edit—>Input 34—>Input 4-digit code—>read Card—>Input Password—>Re-input Password—>Press″#″ exit

4.1.5 Add Password Continuously

Operation：Edit—>Input 35—>Input 4-digit initial code—>Input Password—>Re-input Password—>...—>Press″#″ exit

4.1.6 Add Single Password

Operation：Edit—>Input 36—>Input 4-digit code—>Input Password—>Re-input Password—>Press″#″ exit

4.2 Delete Card

4.2.1 Delete card by 4-digit code or read the card

Operation：Edit—>Input 37—>Input 4-digit code or read card—>Automatically exit

4.2.2 Delete All Cards

Operation：Edit—>Input 38—>Delete All Cards—>Automatically exit

Operation：Edit—>Input 38—>Delete All Cards—>Automatically exit

5) Password Management

Password Management: Admin Password, Threaten code

5.1 Admin Password Setup

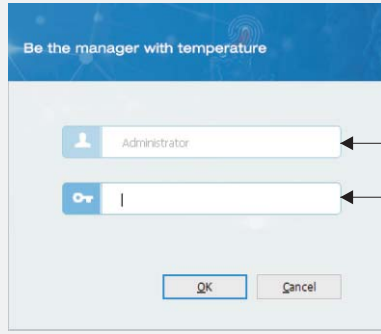Operation：Edit—>Input 41—>Input new password—>Re-input new password—>Automatically Exit

5.2 Threaten code Setup

Operation：Edit—>Input 42—>Input new code—>Re-input new code—>Automatically Exit

Software Description

Software Icon

Administrator — User Name:administrator

The default login password is empty

OK   Cancel

Login Software

HOME

Home
User can quickly add devices, staff, fingerprint, face and other identity information according to the steps, and finally synchronize the data to the devices.

Sync Settings
User can synchronize data from software to devices, and the settings will take effect only after synchronization.

Add Staff
User can quickly add staff, staff code, password and access granted information.

Add Device
User can quickly search device, modify IP address and add device to the software.
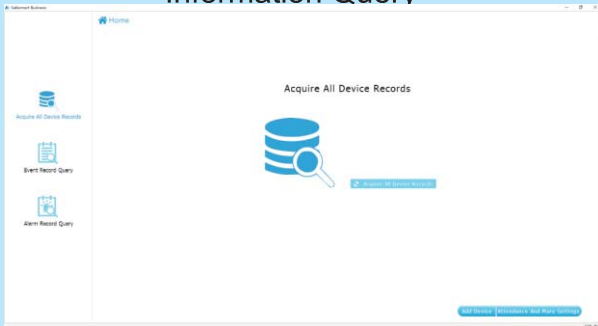
Access Granted
User can set accessible doors and time.

In the home page, user can switch to different setting interface.Just 4 steps to complete settings.

Enter Home page

Click here to enter the setting interface

Record query, attendance management, modify login password at here.

Query Record   Attendance And More Settings

Information Query

Acquire All Device Records

Acquire All Device Records

Event Record Query

Alarm Record Query

Access records, alarm records, attendance details and other information queries,   and export an Excel file.

Attendance Management

Time attendance management can realize working hours setting, shift, overtime register, leave register, add missed card record, attendance count and other functions

Home

① Click add Device to enter the searching interface.

Click here to add device

Device List

Added Devices

No.	Name	Model	IP Address	MAC Address	Port	Operation
1	10.1.0.81_00D1EFDF2081	DF20	10.1.0.81	00 D1 EF DF 20 81	50000	
2	10.1.0.82_00D1EFDF2082	DF20	10.1.0.82	00 D1 EF DF 20 82	50000	
3	DF40	DF40	10.1.0.84	00 D1 EF DF 40 84	50000	
4	10.1.0.83_00D1EFDF2083	DF20	10.1.0.83	00 D1 EF DF 20 83	50000	

Add Device   Adjust All Devices Time

Add Staff

Access Granted

Sync Settings

③ Click here to modify IP address, gateway, subnet mask

Add Device

No.	Name	Model	IP Address	MAC Address	Port	Version No.	Operation
1	10.1.0.81_00D1EFDF…	DF20	10.1.0.81	00 D1 EF DF 20 81	50000	3.7	
2	10.1.0.82_00D1EFDF…	DF20	10.1.0.82	00 D1 EF DF 20 82	50000	3.7	
3	10.1.0.83_00D1EFDF…	DF20	10.1.0.83	00 D1 EF DF 20 83	50000	3.7	
4	DF40	DF40	10.1.0.84	00 D1 EF DF 40 84	50000	3.7	
5		DF40	10.1.0.85	00 D1 EF DF 40 85	50000	3.7	
6		DF40	10.1.0.86	00 D1 EF DF 40 86	50000	3.7	
7		DF					
8		DF					
9		DF					
10		DE2					

② Add device

Device Communication Setup

IP Address: 10.1.0.81   Port: 50000

Subnet Mask: 255.0.0.0   Default Gateway: 10.0.0.1

Save

1. Add Device

Next Page

Software Description

① Add Staff

Add Staff

Click here to enter Staff Management interface

Basic Information

Modify fingerprint collection device. The current device is...

② Set staff information and save.

Authentication Information

Modify face collection device. The current device is...

Password, card, fingerprint, face

③ Register fingerprint information.

③ Register face information.

Access Granted

After set Holiday, no access in holidays except administrator, and door normal open mode setup is invalid

Device List

① Select the door to set

Click here to enter Access Granted interface

Set access time

③ Select staff who can access

② Click it to enter staff list and select staff to access the door.

Sync Settings

① Click here to synchronize software settings to device

② Setting is done, start to use

Click here to enter the sync settings interface

Software Description

Terms Explanation

Administrator: There is Staff Type in staff attributes. Administrators can access any door within 24 hours. He is no need to set it in the access granted.

Staff: It is need to specify which door they can access in the access granted, the door access time and holiday schedule. Access is available during the specified time and non-holiday.

Latch Mode: When using the bolt mode, it means that door can open or close by valid card (granted), and the door does not switch the state automatically. For example, if the door is open now, swiping the valid card will close the door; if the door is closed now, swiping the valid card will open the door; if the card is not swiped, the door will not close or open automatically.

Keep Opening After Valid Access: In order to keep the door in the normally open state for a certain period, and does not trigger the door magnetic alarm, we need to set a door opening weekly schedule to specify the time for the door keeps open, but during the time, the door will be not opened automatically. Door will return normal open after a valid door opening action is triggered. The door will close automatically after the end of the period.

Normal Open Automatically: The normal open automatically mode is same as Keep Opening After Valid Access , and the door will open normally during the period specified in week schedule, but the difference is that the Normal Open Automatically does not need a valid door opening triggering. When the set time arrival, the door will be opened automatically and keep open.

Other Settings

The setting of the holiday will affect the access time of the staff and door normal open time. In the holiday, no access except administrator. In the holiday, even if the door normal open is set, the door will not open normally.

The setting of the access time will affect the access time of the staff and door normal open time. Each door is set to a different access time, and only the administrator can access during the non-access time. The door will open normally during the access time. There are three modes for door normal open.