



FCA-2200

FCA-2200 is a star product of the IOMO's hardware product family. This device provides safe, fast, and smooth passing experience for customers by its cutting-edge algorithm based on deep learning, and the infra+RGB cameras. It support multi-authentication ways like face recognition, password, Mifare Card.



Contents

CHAPTER 1 FOREWORD	4
CHAPTER 2 PRODUCT OVERVIEW	5
2.1 PRODUCT INTRODUCTION.....	5
2.2 APPEARANCE DESCRIPTION	5
CHAPTER 3 INSTALLATION INSTRUCTIONS.....	6
3.1 INSTALLATION ENVIRONMENT	6
3.2 86 BOX INSTALLATION	6
3.3 ON-WALL INSTALLATION.....	6
CHAPTER 4 DEVICE WIRING	8
4.1 WIRING TERMINAL DESCRIPTION.....	8
4.2 DEVICE WIRING DESCRIPTION.....	8
CHAPTER 5 BASIC OPERATION OF LOCAL INTERFACE	9
5.1 ACTIVATION AND NAVIGATION.....	9
5.1.1 Device startup and activation.....	9
5.1.2 Network configuration	9
5.1.3 Background configuration	10
5.2 RECOGNITION INTERFACE	12
5.2.1 Recognition interface.....	12
5.2.2 Standby mode	12
5.2.3 Engineering mode.....	12
5.3 ENGINEERING MODE	13
5.3.1 Device information	13
5.3.2 Network status	13
5.3.3 Version information	14
5.3.4 Personnel entry	15
5.3.5 Volume adjustment.....	16
5.3.6 Reset network.....	16
5.3.7 Reset project password.....	16

5.3.8	Device restart.....	17
5.3.9	Restore to factory settings.....	17
5.3.10	O&M account management.....	17
5.3.11	Language.....	18
APPENDIX A	SAFETY PRECAUTIONS	19

Chapter 1 Foreword

Dear user, thank you for choosing and using our product.

For a better product experience, please read and follow the Manual and keep the Manual properly for future reference.

We are dedicated to continuously improving product functions and service quality. The contents and pictures in the Manual may be different from the actual product and the function descriptions may vary slightly with specific models. These are subject to the actual product.

Some components, appearances or functions in the Manual may be copyrighted. No part of the Manual may be reproduced or transmitted in any form or by any means without the written consent of the Company.

The Company reserves the right to modify the Manual and relevant technical specifications. The Manual is subject to change without notice. In case of any doubt, please contact us as soon as possible and we will render the best service to you. Thanks again for using our product.

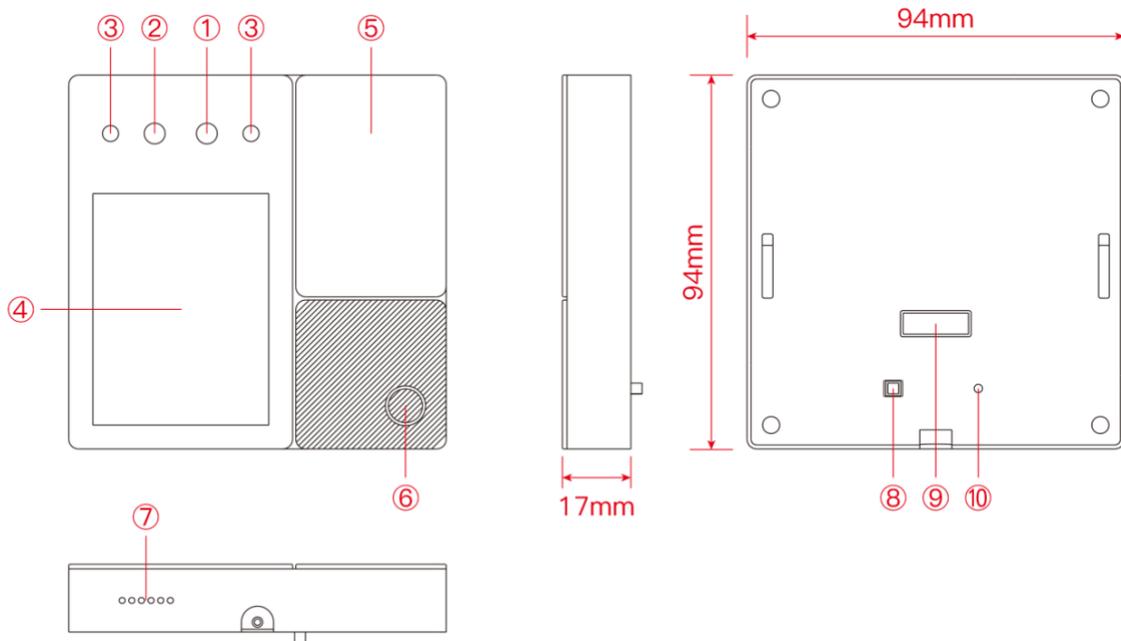
Chapter 2 Product Overview

2.1 Product introduction

FCA-2200 is a face recognition-based attendance and access control terminal product. It supports identity authentication based on face recognition, password and QR code or any combination thereof. It can be used in places including commercial real estate, corporate buildings, hotels, government, industrial parks, school campuses, small enterprises, construction sites and shops.

This product features 2.8" touch control panel camera and vertical screen. It is based on the world-leading AI deep learning algorithm of FCA-2200, the well proven and reliable technologies and application experiences in various fields and is able to meet the face recognition needs of customers in various scenarios.

2.2 Appearance description



S/N	Name	Description
①	Visible light camera	Shoot visible image
②	Infrared camera	Shoot infrared image
③	Infrared fill-in light	Provide fill-in light for infrared camera
④	Display screen	2.8" multi-point touch display screen
⑤	Card swiping area	Optional, swipe card here

S/N	Name	Description
⑥	Indicator light	Indicate access result and power-on state
⑦	Loudspeaker	Play voice prompt
⑧	Anti-tamper button	Protect installed device from tampering
⑨	Connecting wire interface	Connect the device by inserting connecting wire
⑩	reset button	Long press to restore factory setting

Chapter 3 Installation Instructions

3.1 Installation environment

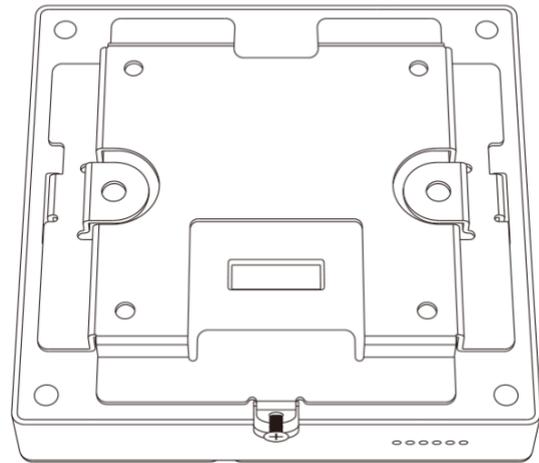
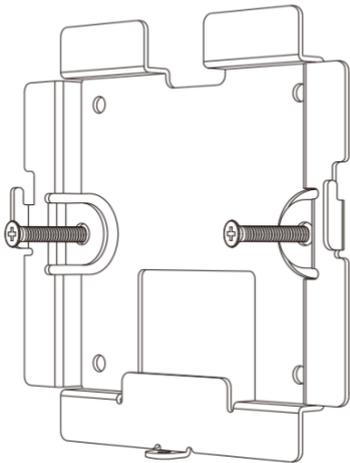
It is recommended to install this product in indoor environment, avoid it facing towards window, door and light source, and keep it free from exposure to direct sunlight/lamplight.

This device supports 86 box installation and on-wall installation.

The recommended installation height is 1.4m, but it can be adjusted based on your body height.

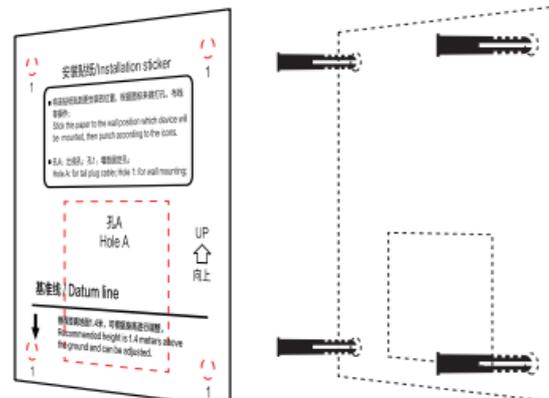
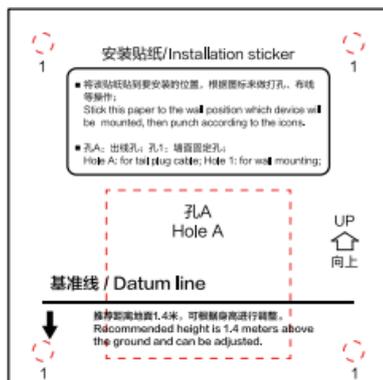
3.286 box installation

1. Fix the 86 box and bracket using two machine screws.
2. Connect the connecting wire to the external wire of the device by inserting it into the device back interface. Install the device in the box and add screw fixtures at the bottom.

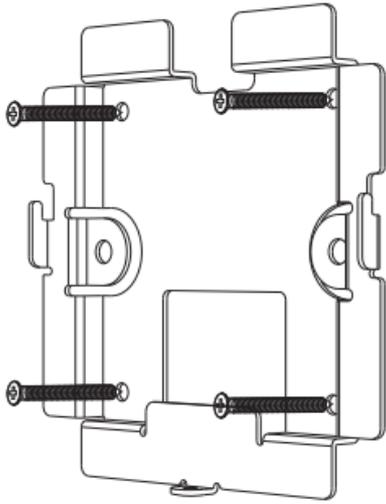


3.3 On-wall installation

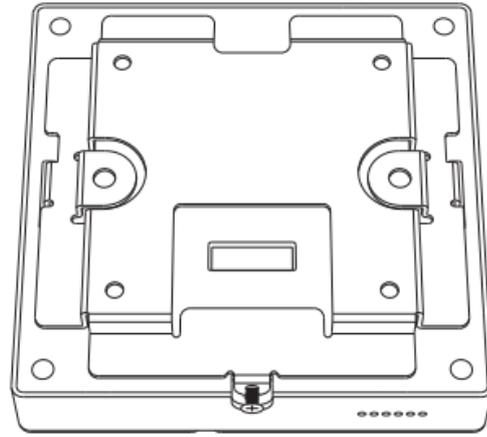
1. Based on the reference line on the sticker, attach the sticker on the wall and drill four holes per the size of Hole 1.
2. Insert expansion tubes into the four holes and remove the sticker.



3. Use four self-tapping screws and the holes on the wall to fix the bracket on the wall.

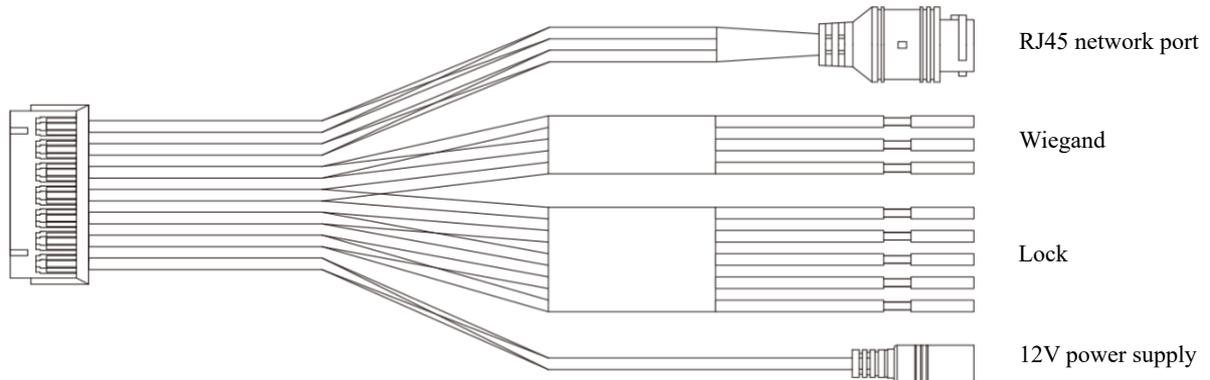


4. Connect the connecting wire to the external wire of the device by inserting it into the device back interface. Install the device in the box and add screw fixtures at the bottom.

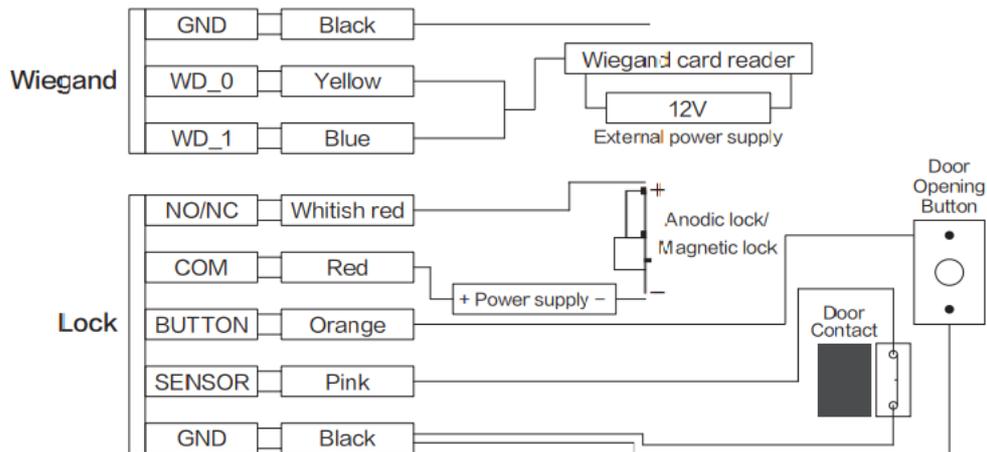


Chapter 4 Device Wiring

4.1 Wiring terminal description



4.2 Device wiring description



* NO/NC default setting is NC (normally closed) output, which can be changed in the engineering mode.

Chapter 5 Basic Operation of Local Interface

5.1 Activation and navigation

5.1.1 Device startup and activation

The device is automatically started up after power-on.



- **Language Settings:**

After using it for the first time or restoring factory settings, you need to select the interface language. The device supports multi-language versions, including simplified Chinese, traditional Chinese, English, Japanese, and Thai. As shown below.



- **Local configuration:**

After selecting a language, click > to go to the local configuration page.

5.1.2 Network configuration



Click "Configuration" to configure the device network. You can choose wireless network or wired network.

Wireless network

- Step 1 Click [Configuration.] to display the "Network Configuration" interface.
- Step 2 Select [Wireless Network] and the system will display the "Wireless Network" interface.
- Step 3 Select the available WIFI (only a WiFi that requires a password is supported, a WiFi that

requires user name is not supported).

Step 4 After entering WIFI password, click [OK] to connect the Wi-Fi network.

Step 5 After successful connection to the network, it displays "Connected".

Step 6 Click  to return to the "Network Configuration" interface. Click "Next" to start background configuration. See the operation details in "5.1.3 Background configuration".

Wired Network

Step 1 Click [Configuration.] to display the "Network Configuration" interface.

Step 2 Select [Wired Network] and the system will display the "Wired Network" interface.

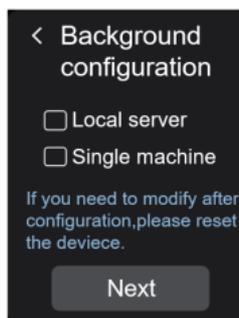
Step 3 The device also supports locally connected devices (network cable required). and enter the device network parameters including IP address, subnet mask, gateway address/DNS preferred, DNS optional.

Step 4 After network configuration, click [Save] and return to the "Network Configuration" interface.

Step 5 Click "Next" to start background configuration. See the operation details in "5.1.3 Background configuration".

5.1.3 Background configuration

In the "Network Configuration" interface, click [Next] to display the "Background Configuration" interface. Start configuration of the management platform. Koala Server management is supported now.



Local server configuration

Local server

Step 1 Check "Local Server". Click "Next" and the system will display the "Local Server" interface.

Step 2 Enter the server address, user name and password.

Note: the user name and password belong to the Web client of the connected local server.

Step 3 Click [Next] to start connecting the local server.

Step 4 After successful connection, the device will display "Set Engineering Password" interface. After entering and confirming the password, click "Next".

Note: the engineering password contains 6-14 digits, which must include a combination of any two of numeral, letter and symbol. This password is used by the user to log in the engineering interface of the device. Operation of the engineering interface is explained in "5.3 Engineering mode".

Step 5 After the password is set successfully, it will display "Device Configuration Completed". Click "Start Use" or wait 59s before it jumps to the recognition interface.

Single machine

Step 1 Check "Single machine".

Step 2 Then click [Next] to access the "Set Engineering Password" interface.

Step 3 After entering and confirming the password, click "Next".

Note: the engineering password contains 6-14 digits, which must include a combination of any two of numeral, letter and symbol. This password is used by the user to log in the engineering interface of the device. Operation of the engineering interface is explained in "5.3 Engineering mode".

Step 4 After the password is set successfully, it will display "Device Configuration Completed". Click "Start Use" or wait 59s before it jumps to the recognition interface.

Note: If you need to switch to the engineering mode, long press the recognition interface for 3s and enter the password to switch to the engineering mode. The contents of engineering mode are explained in "5.3 Engineering mode".

5.2 Recognition interface

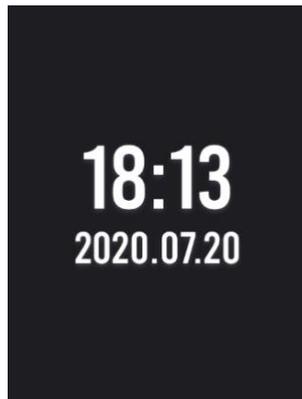
5.2.1 Recognition interface



Recognition interface

- The recognition interface can display current time, real-time video, personnel recognition result and device position, etc.
- Click the screen to display the upper menu bar, which will display the current network connection status, Wi-Fi connection status and server connection status.

5.2.2 Standby mode

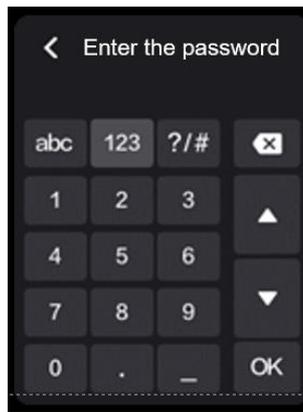


Standby interface

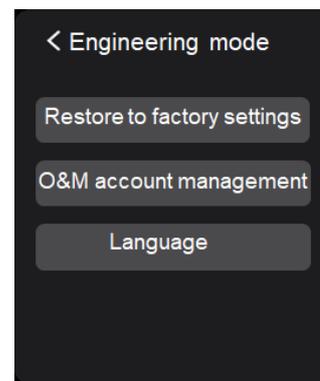
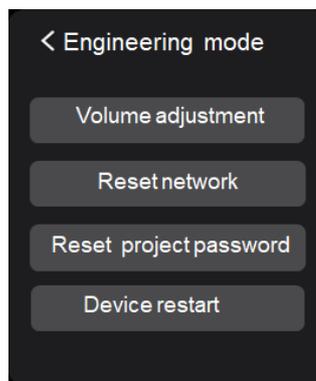
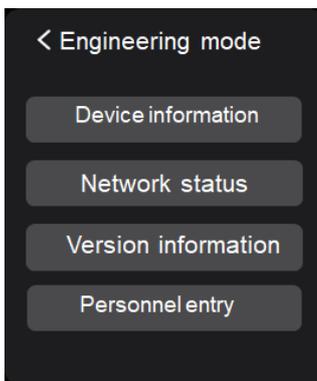
In the access preview interface or system configuration interface, if the time without operation exceeds the preset standby time and no face is detected, the device will automatically enter the standby mode. It will exit the standby mode when a face is detected.

5.2.3 Engineering mode

- In the recognition interface, long press the blank area on the screen to pop up the password prompt box.



- Enter the engineering password that was set upon activation and confirm it to enter the engineering mode.



- Click the "Return" button in the upper left corner to exit the engineering mode.
Note: if the entered password is incorrect for consecutive 5 times in 5 minutes, the device will be locked for 10 minutes.

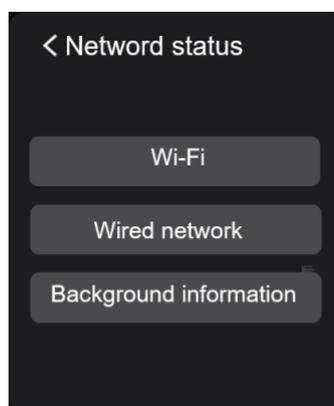
5.3 Engineering mode

5.3.1 Device information

Click "Device Information" to jump to the device information page, which displays "Product Name", "Product Model" and "Product Serial Number".

5.3.2 Network status

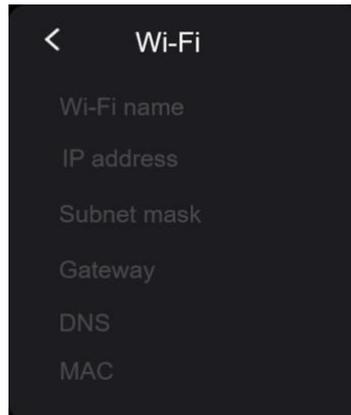
Click "Network Status" to jump to the network status page.



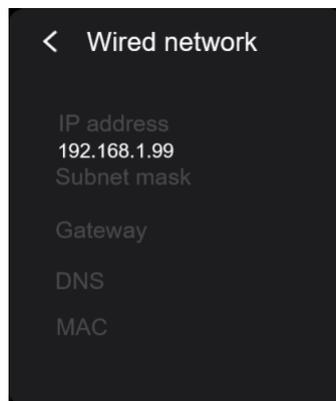
Network status

- Click "Wi-Fi" to jump to the Wi-Fi information page, which displays "Wi-Fi Name", "IP Address",

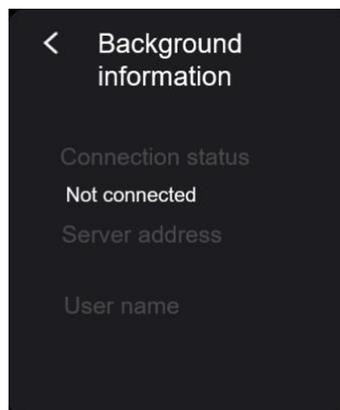
"Subnet Mask", "Gateway", "DNS" and "MAC", as shown in the figure below.



- Click "Wired Network" to jump to the wired network information page, which displays "IP Address", "Subnet Mask", "Gateway", "DNS" and "MAC", as shown in the figure below.



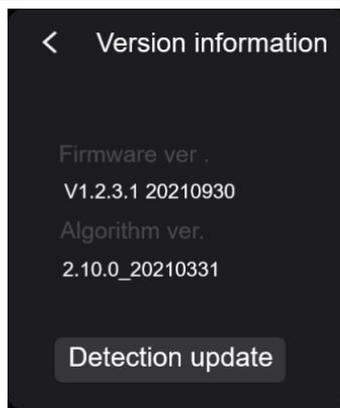
- Click "Background Information" to jump to the background information page, which displays "Connection Status", "Server Address" and "User Name".



Background information

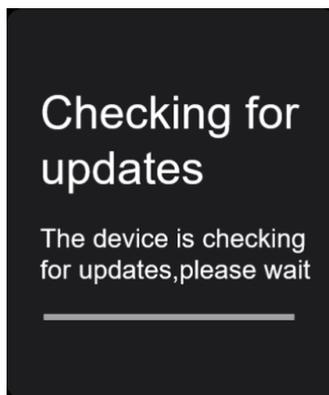
5.3.3 Version information

Click "Version Information" to jump to the version information page, where you can view the firmware version and algorithm version.



Check update

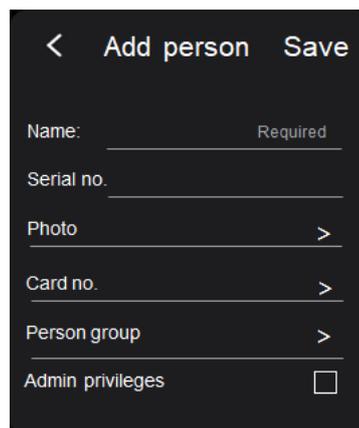
Click "Check Update" to check the version status.



Checking update

5.3.4 Personnel entry

The device supports entry of personnel base. Click "Personnel Entry" to enter the "Add Person " interface and fill in the information as prompted.



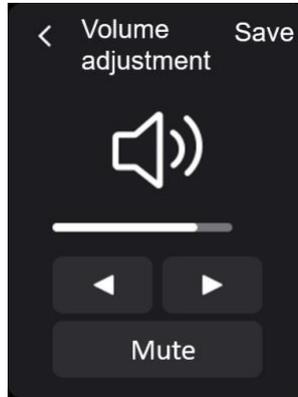
Parameter description:

Field	Instructions
Name	It is required and repeatable
Serial No.	It is required and unrepeatable
Photo	It is required. Click the field to log in the face photo acquisition page
Password	It is optional. The password is required to be 6 digits
Card No.	It is optional and unrepeatable Click the tab to enter the card number setting interface. You can choose to enter the card

	number manually or read it automatically in the card swiping area.
Person group	A selected personnel group to which a person is added
Admin privileges	If the field is checked, then the current person will be granted with the device administrator permission

5.3.5 Volume adjustment

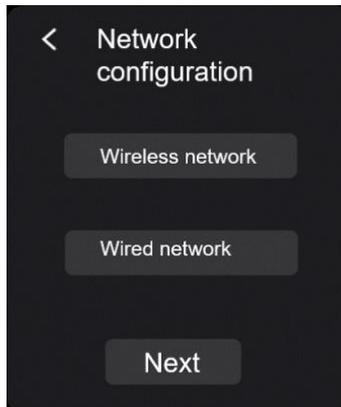
Click "Volume Control" to access the volume control page, where you can adjust the volume of prompt voice or set it as mute.



Volume control

5.3.6 Reset network

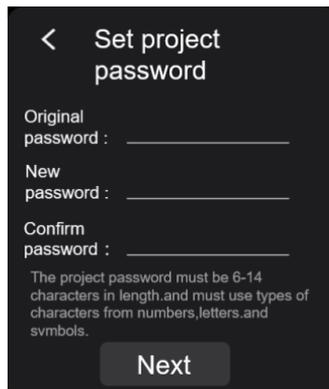
Click "Reset network " to jump to the "Network Configuration" page, where you can redo network configuration. See the operation details in "5.1.2 Network configuration".



Rest network

5.3.7 Reset project password

Click "Reset project password" to jump to "Set project Password" page, where you can reset the engineering password.



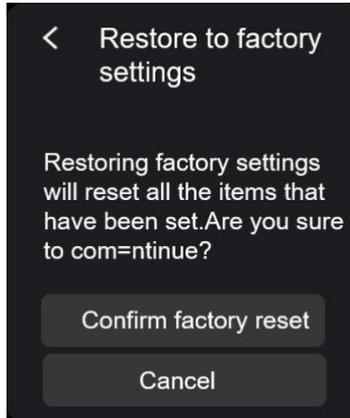
Reset engineering password

5.3.8 Device restart

If you need to restore factory defaults, click "Restore Factory Defaults" on the "Engineering Mode" interface to switch to the "Restore factory Defaults" page and click "Confirm".

5.3.9 Restore to factory settings

- Click "Restore Factory Setting" to jump to the "Restore Factory Setting" page.



Restore factory setting

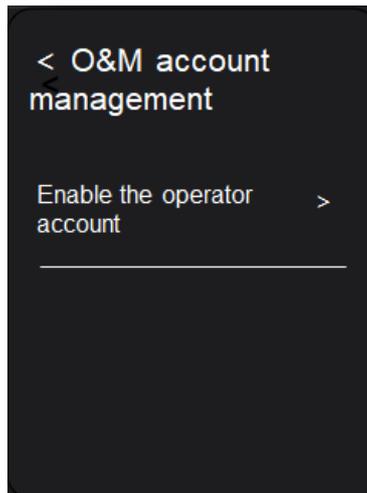
- Click "Want to Restore Factory Setting" to restore factory setting, as shown in flow Figure After that, the device will be rebooted automatically.



Restoring factory setting

5.3.10 O&M account management

On the "Engineering Mode" interface, click "O&M account Management" to switch to the operation and maintenance Account management page, You can determine whether to enable the account as required.



5.3.11 Language

Click "Language" to jump to the " Language configuration" page, you can choice the interface language. The device supports multi-language versions, including simplified Chinese, traditional Chinese, English, Japanese, and Thai.

When the selection is complete, click confirm to complete the switch. After the language is reset, the device will restart to complete the switching.

Appendix A Safety Precautions



Warning

During the installation and use of this product, all electrical safety regulations of the country and region must be strictly observed.

Please use power adapters supplied by legitimate manufacturers. Please see the product parameter table for specific requirements for power adapters.

Do not expose the product to rain or moisture so as to reduce the risk of fire or electric shock.

Easy-to-use power breaker shall be included in the circuit in the building.

Please make sure the product is securely fixed during installation on walls or ceilings.

In case of abnormal operation, please contact the product service provider and do not disassemble or modify the device in any way. (As for the problems caused by unapproved modification or maintenance, our company shall not assume any responsibilities.)



Note

The product shall not be installed in an environment with vibration or impact and shall be far away from electromagnetic interference.

(Ignoring this will likely result in product damage).

Please do not directly touch heat radiating parts of the product, to avoid scalding.

Indoor product shall not be installed in a place where it may be exposed to water or other liquid.

Please do not use the product in an environment where it is exposed to extreme heat, extreme cold, dust, corrosion or high humidity. Please see the parameter table of products for specific requirements for temperature and humidity.

Lens shall not be exposed to strong light (such as lamp light, sunlight or laser beam). Otherwise, the image sensor will be damaged.

Heat accumulation shall be avoided and surroundings of the product shall be kept ventilated.

Please do not touch the image sensor. When cleaning is required, wipe the dirt gently with clean and soft cloth slightly wetted by alcohol. When the device is not in use, cover it to protect the image sensor.

Device connected to the Internet is likely exposed to network security problem. Please enhance safety protection for personal information and data. Please contact us immediately once you find that the device may have a potential network safety hazard.

Please understand that you are responsible for reasonably setting all the passwords and other product safety related settings and safely keeping your user name and password.

Please properly keep all the original packaging material and send the material back to the dealer or manufacturer in case of any problem. The user shall be responsible for accidental damage in transportation caused by non-original packaging materials.



Description

Requirements for qualification of installation and maintenance personnel

They possess the basic knowledge and installation skills regarding the access control system and its components.

They possess the basic knowledge and operation skills regarding LV wiring and LV electronic circuit wiring.

They possess the knowledge and skills regarding basic network security and are able to understand this Manual.



Workplace Intelligence

2525 FYI Center,
Building 2, Room No. 1203-1205,
12th Floor, Rama 4 Road, Klong Toei,
Klong Toei, Bangkok 10110, Thailand

Tel : (+66) 2 784-5855