



Entrance/Exit Station

Quick Start Guide



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Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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Regulatory information

FCC information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.






2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 NOTE	Provides additional information to emphasize or supplement important points of the main text.
 WARNING	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 DANGER	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Safety Instruction**Laws and Regulations**

Use of the product must be in strict compliance with the local laws and regulations. Please shut down the device in prohibited area.

Power Supply

- Use of the product must be in strict compliance with the local electrical safety regulations.
- Use the power adapter provided by qualified manufacturer. Refer to the product specification for detailed power requirements.
- It is recommended to provide independent power adapter for each device as adapter overload may cause over-heating or a fire hazard.
- Make sure that the power has been disconnected before you wire, install, or disassemble the device.
- DO NOT directly touch exposed contacts and components once the device is powered up to avoid electric shock.
- DO NOT use damaged power supply devices (e.g., cable, power adapter, etc.) to avoid electric shock, fire hazard, and explosion.
- DO NOT directly cut the power supply to shut down the device. Please shut down the device normally and then unplug the power cord to avoid data loss.
- DO NOT block the power supply equipment to plug and unplug conveniently.
- Make sure the power supply has been disconnected if the power adapter is idle.

- Make sure the device is connected to the ground firmly.

Transportation, Use, and Storage

- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- Store the device in dry, well-ventilated, corrosive-gas-free, no direct sunlight, and no heating source environment.
- Avoid fire, water, and explosive environment when using the device.
- Avoid lightning strike for device installation. Install a lightning arrester if necessary.
- Keep the device away from magnetic interference.
- Avoid device installation on vibratory surface or places, and avoid equipment installation on vibratory surface or places subject to shock (ignorance may cause device damage).
- DO NOT touch the heat dissipation component to avoid burns.
- DO NOT expose the device to extremely hot, cold, or humidity environments. For temperature and humidity requirements, see device specification.

Maintenance

- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.
- If the device is abnormal, contact the store you purchased it or the nearest service center. DO NOT disassemble or modify the device in any way (For the problems caused by unauthorized modification or maintenance, the company shall not take any responsibility).
- Keep all wrappers after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage to the device and the company shall not take any responsibility.

Network

- Please enforce the protection for the personal information and the data security as the device may be confronted with the network security problems when it is connected to the Internet. Please contact us when the device might exist network security risks.
- Please understand that you have the responsibility to configure all the passwords and other security settings about the device, and keep your user name and password.

Data

DO NOT disconnect the power during formatting, uploading, and downloading. Or files may be damaged.

TABLE OF CONTENTS

Chapter 1 Product Introduction	6
1.1 Introduction	6
1.2 Overview	6
Chapter 2 Installation	9
2.1 Before You Start	9
2.1.1 Installation Environment.....	9
2.1.2 Lay Power Cord	9
2.2 Install Station	9
2.3 Wiring	11
2.3.1 Connect to Perihperal Devices	11
2.3.2 Connect to Power Supply.....	12
Chapter 3 Activation and Login	14
3.1 Activate Device.....	14
3.1.1 Default Information	14
3.1.2 Activate via Web Browser	14
3.2 Log in	14
3.3 Log out	15
Chapter 4 Basic Operation.....	16
4.1 Manage IP Camera	16
4.1.1 Add IP Camera Manually.....	16
4.1.2 Add IP Camera Quickly.....	16
4.1.3 Edit IP Camera	17
4.1.4 Delete IP Camera	18
4.2 Configure Entrance & Exit Parameters	18
4.2.1 Configure Basic Parameters	18
4.2.2 Configure Ticket	19
4.2.3 Configure Multi-Channel Capture	20
4.2.4 View Entrance & Exit Status.....	20
Appendix A Peripheral Interfaces.....	21

Chapter 1 Product Introduction

1.1 Introduction

Entrance/Exit Station (hereinafter referred to as station) is used for data collection and management of entrance, exit, and parking lot. Through interaction with the software, the station can control the entrance/exit, manage the parking lot effectively, and charge parking fee.

Peripheral devices such as capture camera, barrier gate, remote card reader, alarm device, etc. can be connected to the station to realize vehicle passing, charging, and management.



The station must be used with the matched control terminal software or platform.

1.2 Overview

Refer to Figure 1-1 and Table 1-1 for the station appearance and description.



The appearances of stations may vary with models. Here we take example of one type. The actual product prevails.

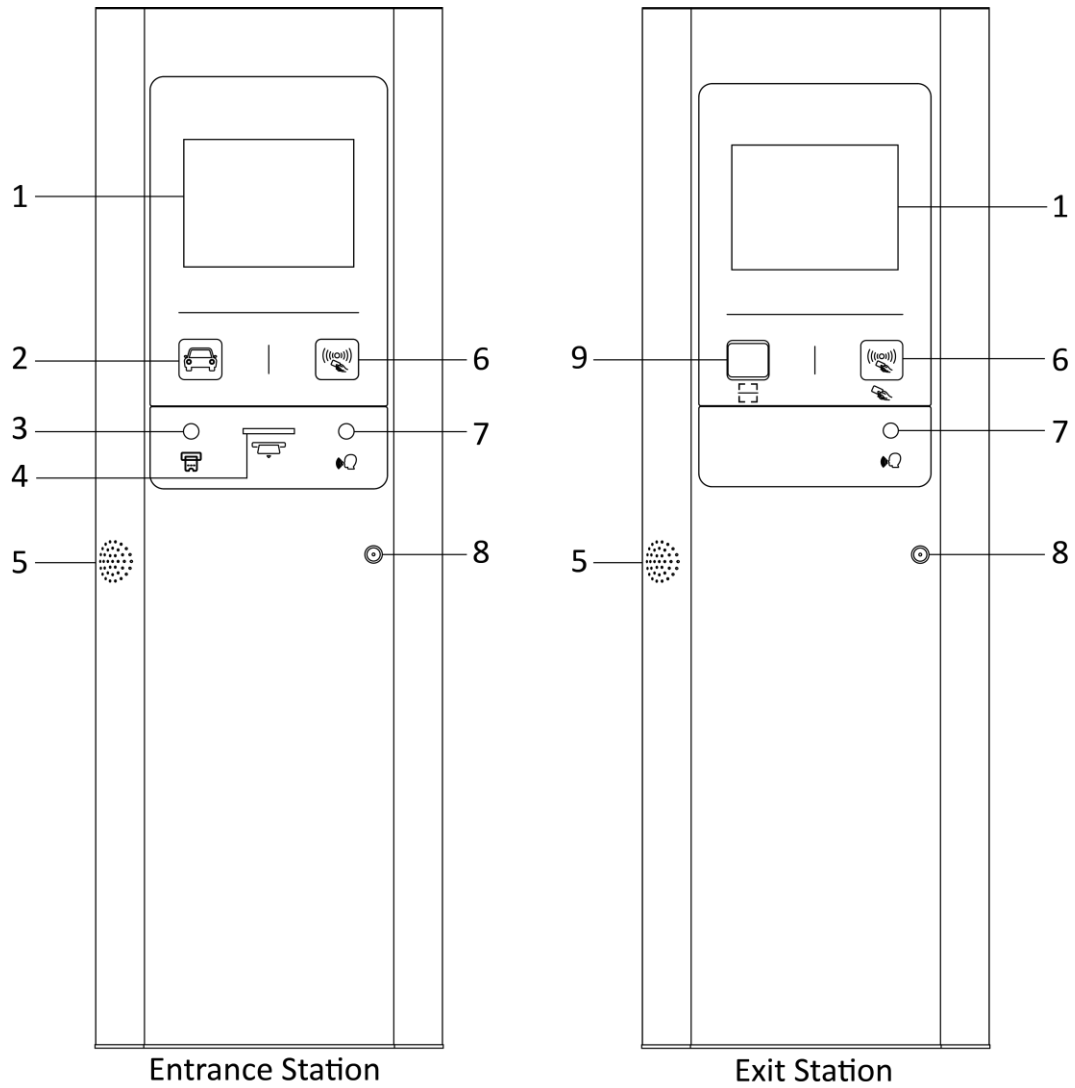


Figure 1-1 Entrance/Exit Station Appearance

Table 1-1 Entrance/Exit Station Appearance Description

No.	Name	Description
1	LCD	Displays information such as prompt, parking charge, license plate number, etc.
2	Reserved	Reserved
3	Taking ticket button	Press the button to take ticket when the vehicle enters the parking lot.
4	Ticket out exit	Take ticket here to enter the parking lot and start time-based charge.
5	Loudspeaker	Plays voice prompt such as welcome.
6	Card reader	Swipe card here to read it.
7	Help button	Press it to start two-way audio with the management center.

No.	Name	Description
8	MIC	For two-way audio with the management center.
9	QR code scanning area	Scan the payment QR code on your mobile phone to pay for the parking fee.

Chapter 2 Installation

2.1 Before You Start

2.1.1 Installation Environment

Select the appropriate position for installing the station according to your actual requirement. Pay attention to the following tips.

- Select the horizontal ground for installation.
- Make sure there is no shelter 0.5 m behind the station cabinet to guarantee the cabinet door can open.
- Installation surface requirements:
 - If no base is installed, make sure the cabinet can be fixed firmly on the installation surface.
 - If base is installed, the dimension of the installation base should not be smaller than 400 (Depth) × 500 (Length) × 350 (Width) mm. The surface should be horizontal. Bury bolts before you start the installation.

2.1.2 Lay Power Cord

Lay the power cord from the power supply to the station. The power cord should be RVV3 × 1.5 mm² or above.

2.2 Install Station

The installation of entrance station and exit station is the same. Here we take example of one type. The actual product prevails.



WARNING

Cut off power during the installation.

Step 1 Mark the holes' positions on the refuge island according to the holes on station bottom.
Punch the holes.

Step 2 Take the four expansion screws out from the package. Punch the screws into the marked positions on refuge island, and fasten the nuts to make the screws expand to grip the ground. Then unfasten the nuts.

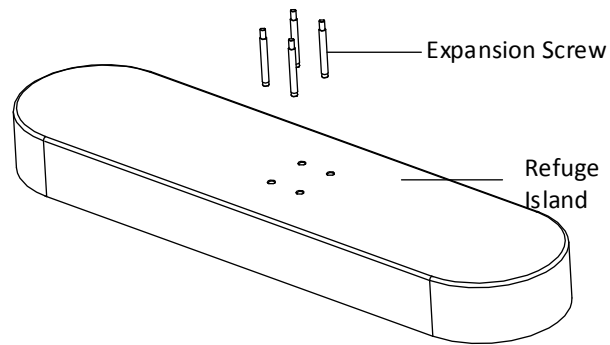


Figure 2-1 Install Expansion Screws

Step 3 Unlock the station back cover with key, and lift the cover softly to open it.

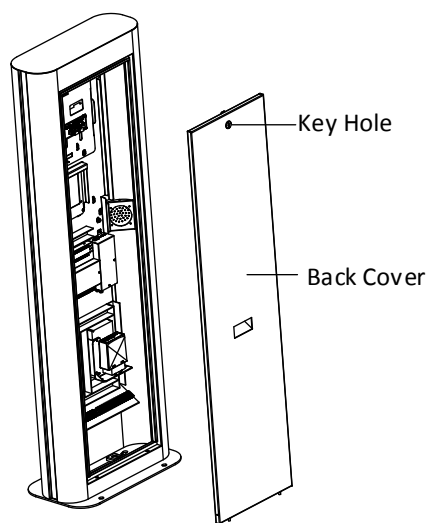


Figure 2-2 Open Back Cover

Step 4 Adjust the horizontal and vertical angles of the station cabinet. Fasten the expansion nuts.

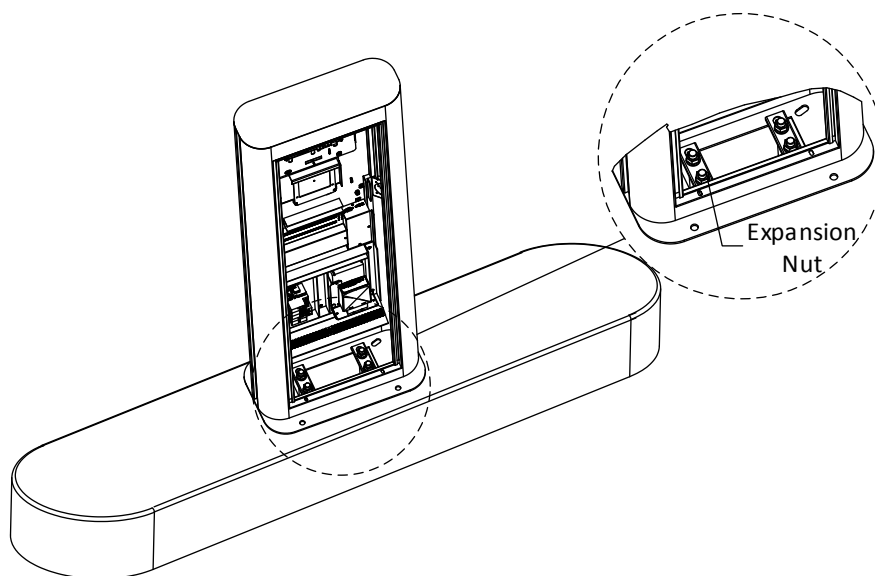


Figure 2-3 Install Station Cabinet

2.3 Wiring

2.3.1 Connect to Peripheral Devices

The station can connect to control terminal and barrier gate. The control terminal can manage capture, display, passing, and payment.



Here we take example of one type of each peripheral device. The actual device prevails.

DANGER

- Step 1 Connect the laid power cord (RVV3 × 1.5 mm² or above) to the power input of the station.



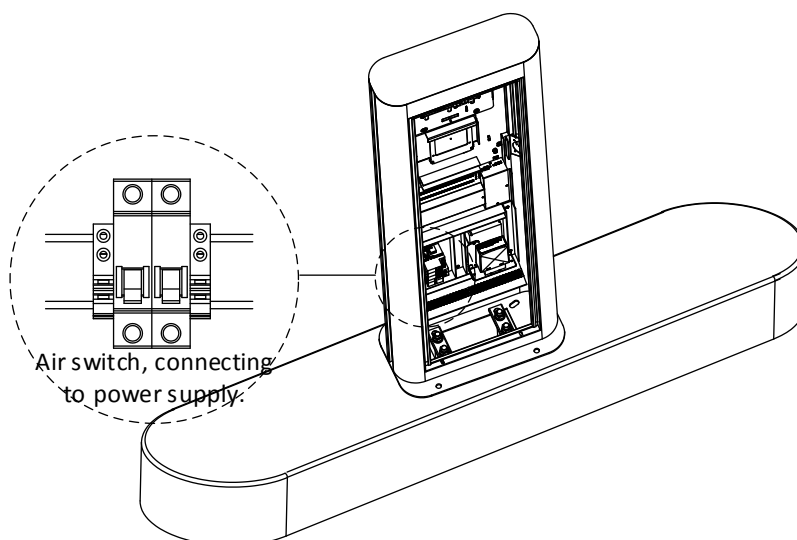


Figure 2-5 Power Connection

Step 2 Reinstall the back cover and lock the cabinet.

Chapter 3 Activation and Login

3.1 Activate Device

You need to activate the station and set the password for first-time login. You can activate the station via multiple methods. Here we take example of activation via web browser.



NOTE

For activation via client software, refer to the client software user manual for details.

3.1.1 Default Information

- IP Address: 192.168.1.64
- User name: admin

3.1.2 Activate via Web Browser

You can activate the station via web browser.



NOTE

Ensure your station and computer are in the same network segment.

Step 1 Enter the default IP address of the station in the address bar of the web browser and press the **Enter** key to enter the activation interface.

Step 2 Enter a new password and confirm it.

Step 3 Click **OK** to activate the station.



WARNING

STRONG PASSWORD RECOMMENDED—We highly recommend you create a strong password of your own choosing (Using a minimum of 8 characters, including at least three of the following categories: upper case letters, lower case letters, numbers, and special characters.) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

3.2 Log in

You can log in to the station via web browser for further operations such as live view and local configuration.

Step 1 Open the web browser.

Step 2 Enter the IP address of the station in the address bar, and press the **Enter** key to enter the login interface.

Step 3 Enter **User Name** and **Password**.

Step 4 Click **Login**.



Figure 3-1 Login Interface

Step 5 Install the plug-in before other operations. Please follow the installation prompts to install the plug-in.



Close the web browser to install the plug-in. Please reopen the web browser and log in again after installing the plug-in.

3.3 Log out

After login, click **Logout** to log out of the station.

Chapter 4 Basic Operation

4.1 Manage IP Camera

4.1.1 Add IP Camera Manually

Connect capture unit to the station manually if the passwords of them are different.

Before you start

- The capture unit can communicate normally with the station.
- The capture unit has been activated.

Step 1 Go to **Configuration > System > Camera Management > IP Camera**.

Step 2 Click **Add**.

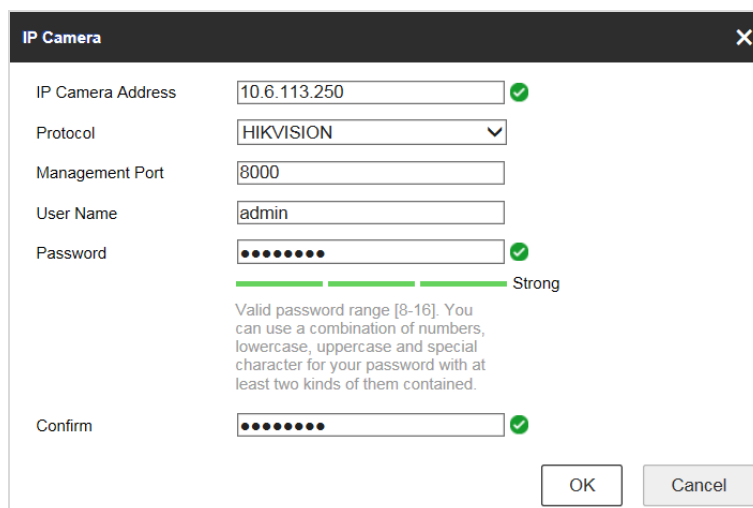


Figure 4-1 Add IP camera

Step 3 Enter **IP Camera Address**, **Management Port**, **User Name**, and **Password** of the IP camera.

Step 4 Confirm the password.

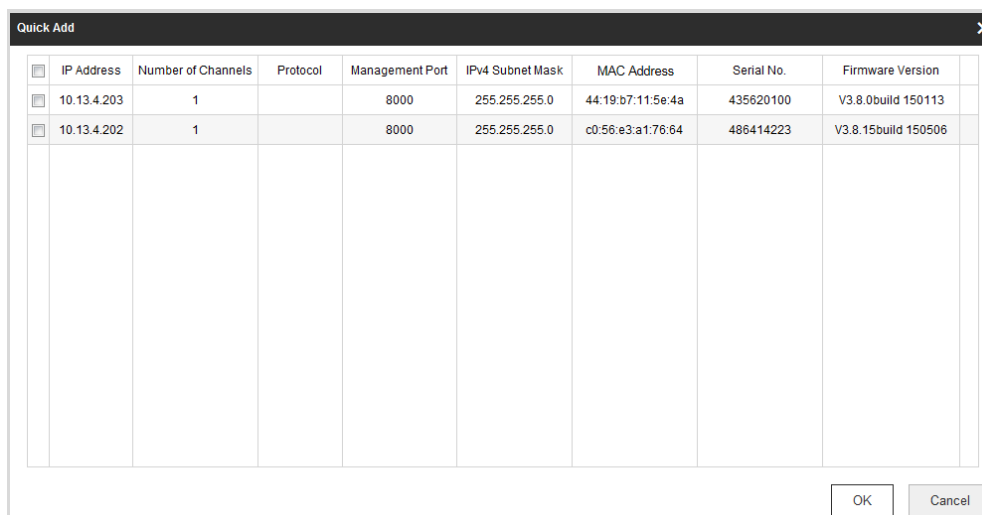
Step 5 Click **OK** to add it.

4.1.2 Add IP Camera Quickly

You can search the IP camera in the same network segment with the station and add it quickly if the passwords of them are the same.

Step 1 Go to **Configuration > System > Camera Management > IP Camera**.

Step 2 Click **Quick Add** and the interface will show the online IP cameras in the same network segment with the station.



<input type="checkbox"/>	IP Address	Number of Channels	Protocol	Management Port	IPv4 Subnet Mask	MAC Address	Serial No.	Firmware Version
<input type="checkbox"/>	10.13.4.203	1		8000	255.255.255.0	44:19:b7:11:5e:4a	435620100	V3.8.0build 150113
<input type="checkbox"/>	10.13.4.202	1		8000	255.255.255.0	c0:56:e3:a1:76:64	486414223	V3.8.15build 150506

OK Cancel

Figure 4-2 Quick Add

Step 3 Check the IP camera.

Step 4 Click **OK** to add it.

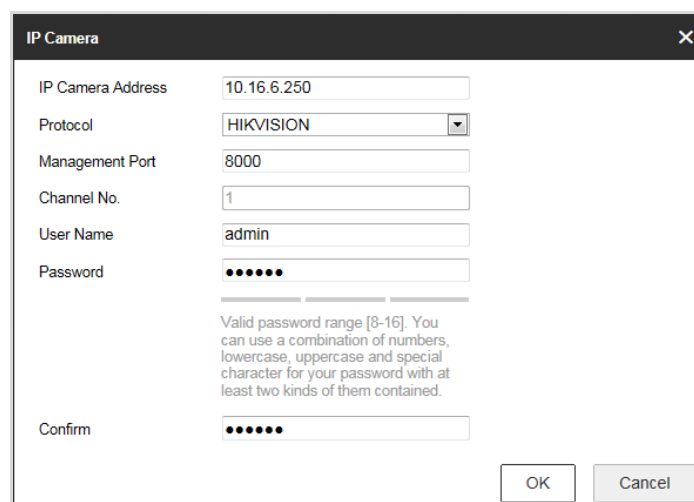
4.1.3 Edit IP Camera

You can edit the added IP camera parameters.

Step 1 Go to **Configuration > System > Camera Management > IP Camera**.

Step 2 Check the camera to edit.

Step 3 Click **Modify**.



IP Camera

IP Camera Address: 10.16.6.250

Protocol: HIKVISION

Management Port: 8000

Channel No.: 1

User Name: admin

Password: •••••

Valid password range [8-16]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained.

Confirm: •••••

OK Cancel

Figure 4-3 Modify IP Camera

Step 4 Edit the parameters of the IP camera.

Step 5 Click **OK** to save the settings.

4.1.4 Delete IP Camera

You can delete the added IP camera.

Step 1 Go to **Configuration > System > Camera Management > IP Camera**.

Step 2 Check the camera to delete.

Step 3 Click **Delete** to delete it.

4.2 Configure Entrance & Exit Parameters

4.2.1 Configure Basic Parameters

You can configure the basic parameters for entrance and exit.

Step 1 Go to **Configuration > Entrance and Exit > Settings > Basic Parameters**.

LCD Default Prompt	<input type="text" value="Welcom"/>
Link Enrollment Station (Ticket) to Inductive Loops	<input type="checkbox"/>
Link UHF Card Reader to Inductive Loops	<input type="checkbox"/>
Contain Barrier Information	<input checked="" type="checkbox"/>
Enable Notification for Illegal Card/Ticket	<input checked="" type="checkbox"/>
Take Ticket for No License Plate Detected	<input type="checkbox"/>
Enable Paperless Ticket Display	<input type="checkbox"/>
Interval of Swiping UHF Card	<input type="text" value="3"/> s
No available parking space. No ticket can be taken.	<input type="text" value="Not Link"/>
Keep Barrier Arm Raised for Tailing Vehicle	<input type="text" value="Disable"/>
Remote Card Wiegand Access Mode	<input type="text" value="Wiegand 26"/>

(Reboot the device and the modified parameters will take effect.)

Figure 4-4 Basic Parameters

Step 2 Configure the following parameters according to your needs.

- **LCD Default Prompt:** Enter the information to show on LCD of the station.
- **Link Enrollment Station (Ticket) to Inductive Loops:** If it is checked, when the inductive loops detect the passing vehicle and the signal is triggered, the ticket will be printed. If it is unchecked, the ticket can be printed and taken at any time.
- **Link UHF Card Reader to Inductive Loops:** If it is checked, when the inductive loops detect the passing vehicle, the UHF card reader will read the card. If it is unchecked, the card reader will read card continuously.
- **Contain Barrier Information:** Check it to get the barrier status information if signal lines are connected to the barrier.

- **Enable Notification for Illegal Card/Ticket:** If it is checked, the station will let the vehicle pass only when the card information is legal. If illegal, the station will filter the card information and play the voice prompt of the card exception information. If it is unchecked, the platform will judge whether the card information is legal or not.
- **Take Ticket for No License Plate Detected:** If there is no license plate detected when the vehicle passes, the station will play the voice prompt to remind the driver to take ticket.
- **Interval of Swiping UHF Card:** The interval ranges from 1 to 300. The station will detect the UHF card every configured interval.
- **No available parking space. No ticket can be taken.:** If you select **Link**, when there is no available parking space, the vehicle cannot enter.
- **Keep Barrier Arm Raised for Tailing Vehicle:** If you enable the function, the barrier arm will not fall when vehicles enter one by one continuously.
- **Remote Card Wiegand Access Mode:** Select the Wiegand protocol type for remote card access according to the actual conditions.

Step 3 Click **Save** to save the settings.

4.2.2 Configure Ticket

You can configure the content on the ticket.

Step 1 Go to **Configuration > Entrance and Exit > Settings > Ticket Configuration**.

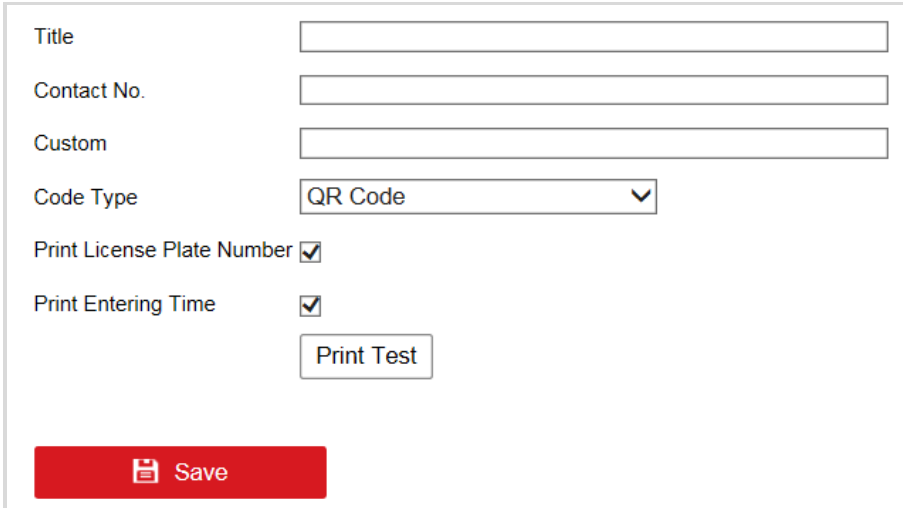
The screenshot shows a web-based configuration form for tickets. It contains several input fields and checkboxes. The fields are labeled 'Title', 'Contact No.', and 'Custom', each followed by a text input box. Below these is a 'Code Type' dropdown menu currently set to 'QR Code' with a downward arrow. There are two checkboxes: 'Print License Plate Number' and 'Print Entering Time', both of which are checked. A 'Print Test' button is located below the checkboxes. At the bottom of the form is a large red button with a floppy disk icon and the text 'Save'.

Figure 4-5 Ticket Configuration

Step 2 Enter **Title**, **Contact No.**, and **Custom** information to be printed on the ticket.

Step 3 Select **Code Type**. Barcode and QR Code are selectable.

Step 4 (Optional) Check **Print License Plate Number** to print the license plate number on the ticket.

Step 5 (Optional) Check **Print Entering Time** to print the entering time of the vehicle on the ticket.

Step 6 (Optional) Click **Print Test** to print the configured ticket to view the effect.

Step 7 Click **Save** to save the settings.

4.2.3 Configure Multi-Channel Capture

If multiple capture units are installed for one lane, you can enable multi-channel capture. The clearest captured picture will be uploaded to the platform automatically according to the effects of different pictures captured by the capture units.

Step 1 Go to **Configuration > Entrance and Exit > Settings > Multi-Channel Capture**.

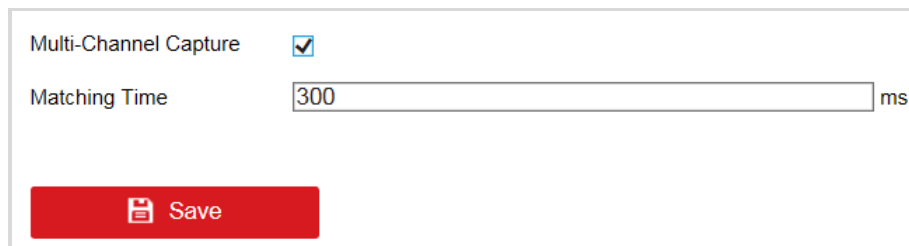


Figure 4-6 Multi-Channel Capture

Step 2 Check **Multi-Channel Capture** to enable the function.

Step 3 Enter **Matching Time**.



Matching time is the longest matching waiting time for multi-channel capture. The value ranges from 0 to 1000, and 300 is recommended.

Step 4 Click **Save** to save the settings.

4.2.4 View Entrance & Exit Status

Go to **Configuration > Entrance and Exit > Status** to view vehicle status, card status, synchronization status, etc.



After the station is added to dedicated software, the functions such as license plate recognition of capture unit, vehicle passing of barrier gate, fee charging, etc. can be realized. Refer to the software user manual for details.

Appendix A Peripheral Interfaces

Open the cover of the station, and you can see the peripheral interfaces.

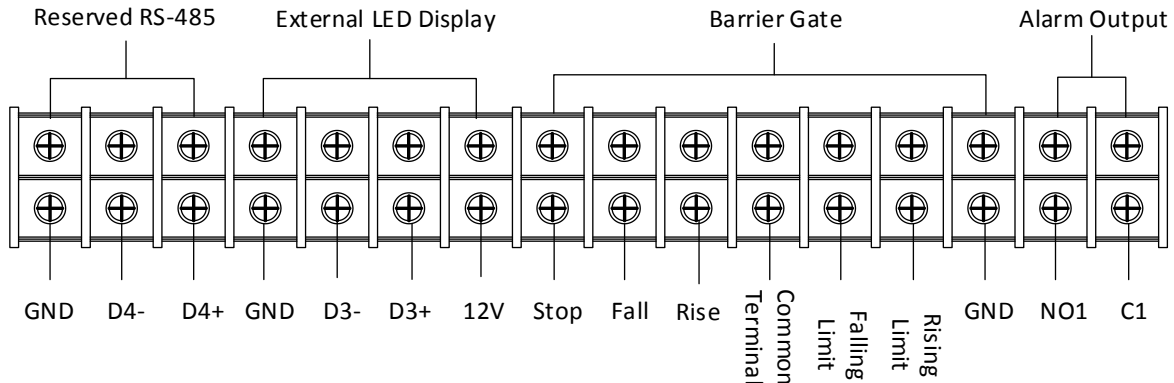


Figure A-1 Line Bank (Left)

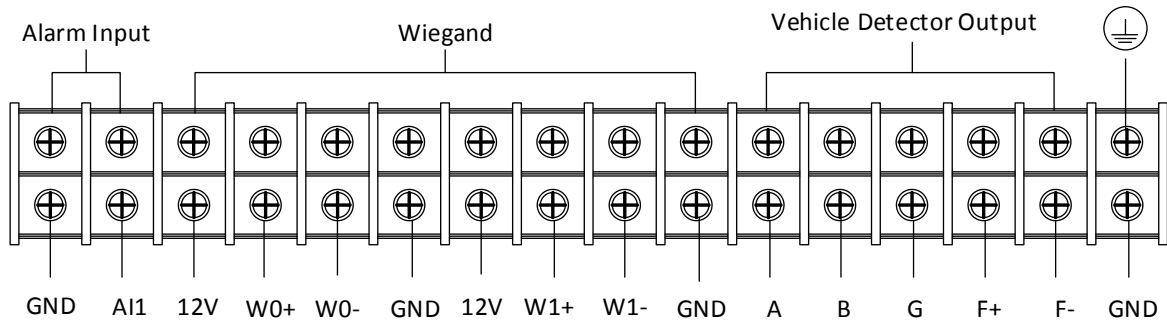


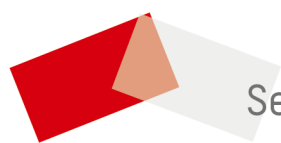
Figure A-2 Line Bank (Right)

Refer to Table 4-1 for the interface description of right line bank.

Table 4-1 Right Line Bank Interface Description

No.	Name	Description	No.	Name	Description
1	D4+	RS-485 interfaces	17	NO1	Alarm output interfaces
2	D4-		18	C1	
3	GND		19	12V	Wiegand interfaces, connecting to remote card reader
4	12V	External LED display interfaces	20	W0+	
5	D3+		21	W0-	
6	D3-		22	GND	

7	GND		23	12V	
8	Rise	Barrier gate interfaces to control barrier gate	24	W1+	
9	Fall		25	W1-	
10	Stop		26	GND	
11	Common		27	A	Vehicle detector inductive loops input
12	Rising Limit		28	B	
13	Falling Limit		29	GND	
14	GND	Alarm input interfaces	30	F+	Vehicle detector output
15	AI1		31	F-	
16	GND		32	GND	GND



See Far, Go Further