



FULL COLOR NETWORK CAMERA

User Manual

Content

Statement.....	1
Chapter 1 Overview	3
1.1 Scope of application	3
1.2 Product Description	3
1.3 Operational Environment	4
Chapter 2 Device Connection	5
2.1 Connecting to PC	5
2.2 Connection via router/switch	6
Chapter 3 Setting the IP Address of an IPC using Device Config Tool	7
Chapter 4 Web Client Login	8
4.1 Accessing Camera from Web Client	8
4.2 Initial Login	8
4.3 General Login	10
4.4 Recover Password	11
4.4.1 Security Question Configuration	11
4.4.2 Certificate of Authorization	13
4.4.3 Super Code	14
Chapter 5 Installing Plug-in	15
Chapter 6 Preview Screen	16
6.1 Live Menu	16
6.2 Video Status	18

6.3 Fisheye Mode (Only available on fisheye camera)	19
6.3.1 Installation Method	19
6.3.2 Display Mode	21
6.3.3 PTZ Control	32
Chapter 7 Playback	33
7.1 General Playback	33
7.2 Picture Search	35
7.3 Tag Playback	37
7.4 Smart	38
7.5 AI	40
7.5.1 Face Search	40
7.5.2 License Plate Detection Search	41
7.5.3 Pedestrian and Vehicle Search	43
7.5.4 Line Crossing	44
7.5.5 Intrusion Detection	46
7.5.6 Enter Region	47
7.5.7 Exit Region	48
7.5.8 Fire&Smoke Detection	50
7.5.9 Multi-Target-Type Recognition (Supported on some cameras)	51
7.5.10 Fall detection	52
7.5.11 Repeat Visitors	53
Chapter 8 Remote Setting	55

8.1 Display Settings	55
8.2 Image Settings	56
8.3 Privacy Mask	62
8.4 Video Parameters	63
8.4.1 Record parameters	63
8.4.2 Video parameters	64
8.4.3 Audio Management	66
8.5 Capture Settings	68
8.6 PTZ	68
8.7 Schedule Setup	70
8.7.1 Record Schedule	70
8.7.2 Capture Schedule	72
8.8 Disk Management	73
8.9 FTP Server Settings	75
8.10 I/O settings	76
8.10.1 Alarm Input settings	76
8.10.2 Alarm Output settings	78
8.11 Deterrence Settings	79
8.12 Siren Settings	81
8.13 Disarming	82
8.14 Event Settings	83
8.14.1 Face Detection	84

8.14.2 Pedestrian and Vehicle	88
8.14.3 Mutli-Target-Type Recognition	92
8.14.4 License Plate	94
8.14.5 Line Crossing	98
8.14.6 Intrusion	100
8.14.7 Enter Region	103
8.14.8 Exit Region	106
8.14.9 Object Detection	108
8.14.10 Fire & Smoke Detection	110
8.14.11 Fall Detection	112
8.14.12 Cross Counting	114
8.14.13 Heat Map	116
8.14.14 Queue Length	117
8.14.15 Crowd Density	120
8.14.16 Rare Sound	122
8.14.17 Motion Detection	123
8.15.18 Sound Detection	124
8.14.19 PIR	126
8.14.20 Video Tampering	126
8.14.21 Event Schedule	127
8.14.22 Alarm linkage settings	128
8.15 List Management	132

8.15.1 Face Database Management	132
8.15.2 License Plate Management	135
8.16 Statistics	140
8.16.1 Face Recognition	140
8.16.2 Pedestrian and Vehicle	141
8.16.3 Cross Counting	143
8.16.4 Heat Map	144
8.17 Network Settings	146
8.17.1 General settings	146
8.17.2 PPPoE	149
8.17.3 SNMP	150
8.17.4 IEEE802.1X	150
8.17.5 Port Configuration	151
8.18 Cloud Service Configuration	152
8.19 Mail Settings	153
8.19.1 Parameter Settings	153
8.19.2 Schedule Setup	155
8.20 RTSP Protocol Settings	155
8.21 Dynamic Domain Name Settings	156
8.22 HTTPS protocol settings	158
8.23 IP Filter	158
8.24 Platform Access	159

8.24.1 RTMP	159
8.24.2 Event Push Platform	160
8.25 General system setup	163
8.25.1 Date and time	163
8.25.2 Daylight Saving Time	164
8.26 Multi-User Management	164
8.27 Maintenance	167
8.27.1 Log management	167
8.27.2 Load Default	169
8.27.3 System Upgrade	170
8.27.4 Parameter Management	171
8.27.5 Auto Maintenance	172
8.27.6 Developer Mode	173
8.28 System information	174
8.28.1 Device information	174
8.28.2 Privacy Statement	174
Chapater 9 Local settings	175

Statement

Thanks for using our IP cameras, this series are integrated IP cameras developed for network video surveillance, including IP box camera, bullet camera, dome camera, PTZ cameras, etc. A powerful SoC (System on a Chip) is used as the media processor to automate audio and video acquisition, compression, and transmission. The standard H.264/H.265 coding algorithm guarantees a clearer and smoother video transmission. The embedded web server allows users to easily and instantaneously monitor and remotely control front-end cameras from Internet explorer.

This series of IP cameras are suitable for large and medium-sized enterprises, government projects, shopping malls, chain supermarkets, intelligent buildings, hotels, hospitals, schools and other customer groups, and all kinds of places where remote network video transmission and monitoring will be applied. This product is easy to install and user friendly.

Introduction:

- In this manual, IP camera refer to network camera.
- Click indicates click on the left mouse button.
- Double click indicates double click on the left mouse button.
- By default, an IP camera uses DHCP to automatically obtain an IP address. The default IP address is 192.168.1.168.
- Upon initial use, users must set a password as instructed, logging in with the

username "**admin**" (in lowercase) and configuring the password as outlined in section 4.2.

- The default web port number is 80. The ONVIF port number aligns with the web port number.

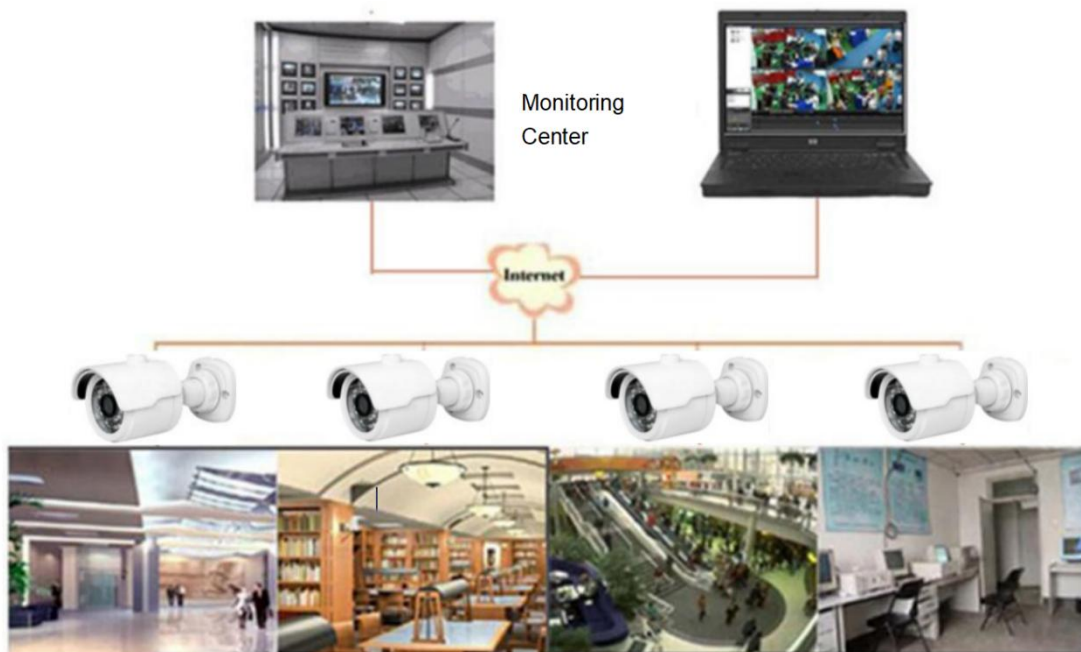
Note:

Some information contained in this manual may different from the actual product. For any problems that cannot be solved using this manual, please feel free to contact our technical support or authorized agent. This manual is subject to change without prior notice.

Chapter 1 Overview

1.1 Scope of application

IP cameras with powerful image processing capabilities can be applied in various public places such as shopping malls, supermarkets, schools, factories and workshops, as well as surrounding requiring high-definition video images such as banks and traffic control systems, as shown in below picture.



1.2 Product Description

The IP camera is a digital network monitoring camera that can operate independently with a built-in web server, and can be used for real-time monitoring from all over the world by using a web browser or client software.

The IP camera, based on the state-of-the-art digital solution, is an integrated media processing platform for audio/video acquisition, compression and network

transmission on a single board. It complies with H.264/H.265 High Profile coding standard. By typing the IP camera's IP address or domain name into a web browser, any remote user can perform real-time monitoring. The IP camera solution is suitable for residential or commercial surrounding, as well as a variety of places requiring remote network video surveillance and transmission. The product is easy to install and user friendly.

The IP camera Allow to set multiple users with different permissions for easy management.

The IP camera has the Motion detection function, and will actively send E-mail, captured images or alarm video when an event occurs and store the alarm video in the TF card for easy retrieval.

1.3 Operational Environment

System: Windows XP/Windows 7/ Windows 8/ Windows 10/ Windows 11/MacOS 10 or above

CPU: Intel I3 or higher

Memory: 2G or higher

Video Memory: 1G or higher

Display: 1024 x 768 or higher resolution

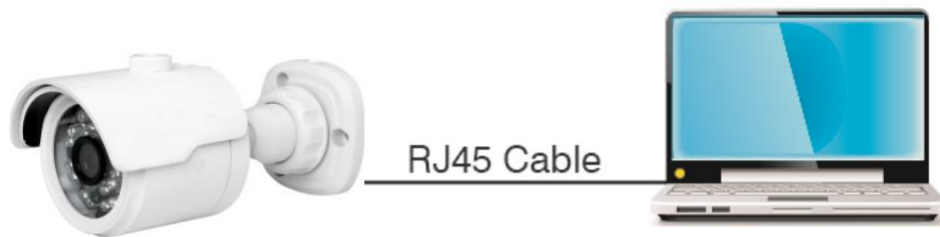
Browser: IE10 and higher version, Chrome 57 and higher version, Firefox 52 and higher version, Edge 41 and higher version, and Safari 12 and higher version.

Chapter 2 Device Connection

IP cameras are typically interfaced primarily through two distinct methods.

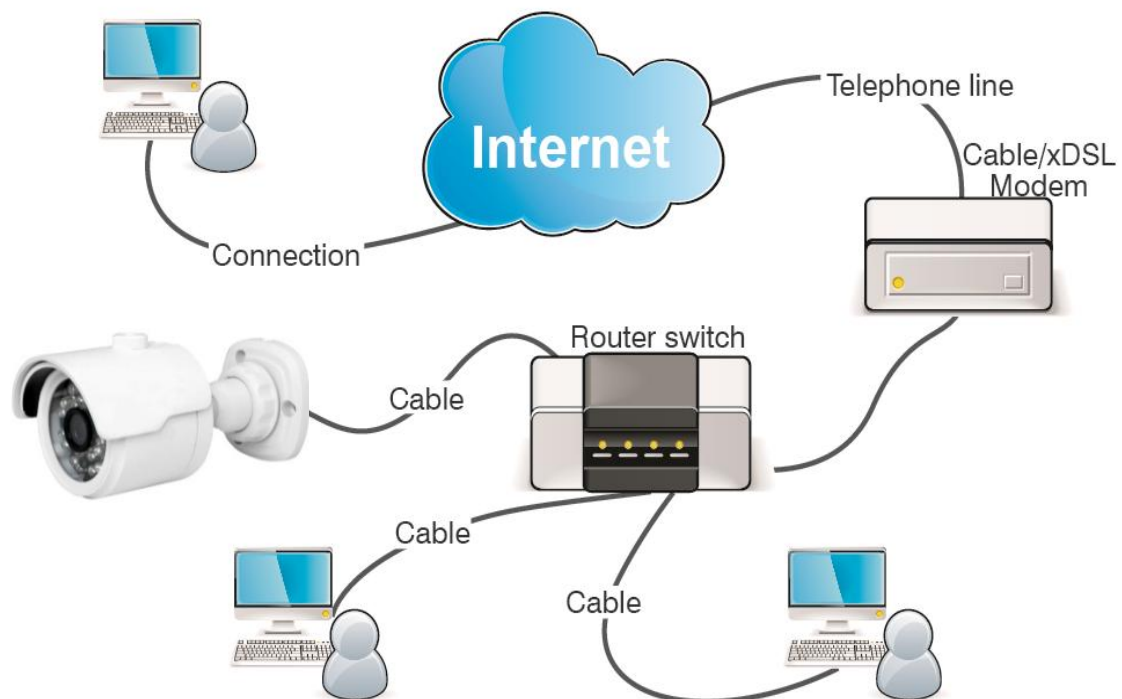
2.1 Connecting to PC

Directly connect an IP camera to a PC through a network cable, connect the power input to the DC 12V adapter, and set the IP addresses of the PC and the IP camera on the same network segment. If the network is running properly, the IP camera will communicate with the PC within one minute after turned on.



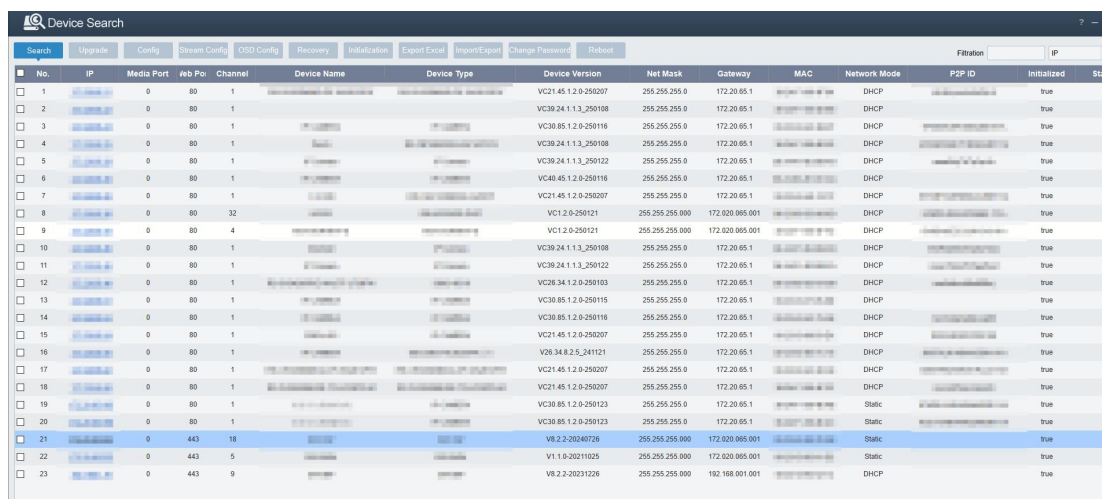
2.2 Connection via router/switch

This connection method is used when an IP camera is connected to the Internet where the IP camera and PC are connected to the LAN ports of a router/switch and the gateway of the camera is set to the IP address of the router.



Chapter 3 Setting the IP Address of an IPC using Device Config Tool

Step 1 Run Device Config Tool , click Search to get the information of the IPCs in this LAN as shown in the below picture, and locate your desired IPC based the P2P or MAC address of the camera.



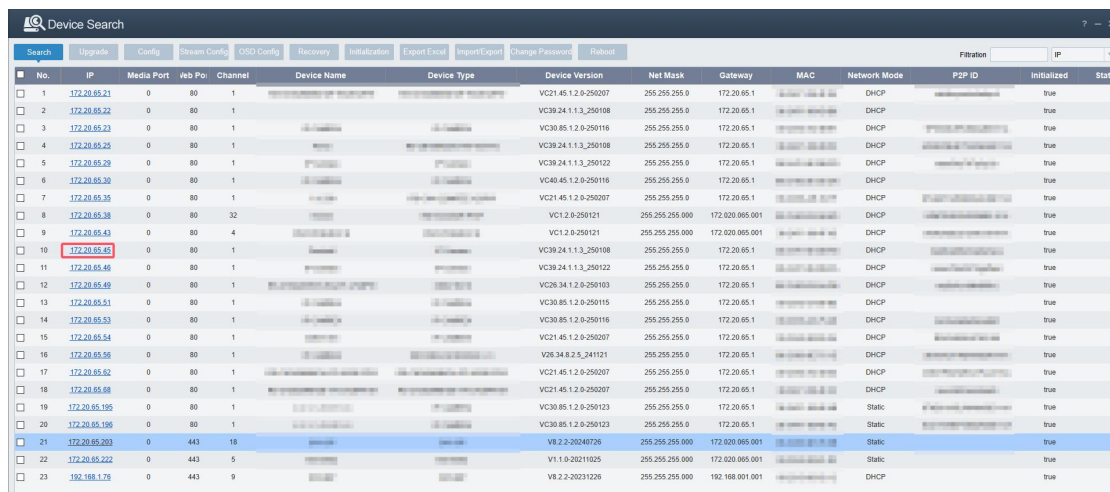
No.	IP	Media Port	Web Port	Channel	Device Name	Device Type	Device Version	Net Mask	Gateway	MAC	Network Mode	P2P ID	Initialized	Status
1	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC21.45.1.2.0-250207	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
2	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC39.24.1.1.3_250108	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
3	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC30.85.1.2.0-250116	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
4	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC39.24.1.1.3_250108	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
5	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC39.24.1.1.3_250122	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
6	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC40.45.1.2.0-250116	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
7	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC21.45.1.2.0-250207	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
8	192.168.1.168	0	80	32	IPC0000000000000000	IPC0000000000000000	VC1.2.0-250121	255.255.255.000	172.020.965.001	88:88:88:88:88:88	DHCP	192.168.1.168	true	
9	192.168.1.168	0	80	4	IPC0000000000000000	IPC0000000000000000	VC1.2.0-250121	255.255.255.000	172.020.965.001	88:88:88:88:88:88	DHCP	192.168.1.168	true	
10	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC39.24.1.1.3_250108	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
11	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC39.24.1.1.3_250122	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
12	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC28.34.1.2.0-250103	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
13	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC30.85.1.2.0-250115	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
14	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC30.85.1.2.0-250116	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
15	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC21.45.1.2.0-250207	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
16	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC28.34.8.2.5_241121	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
17	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC21.45.1.2.0-250207	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
18	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC21.45.1.2.0-250207	255.255.255.0	172.20.65.1	88:88:88:88:88:88	DHCP	192.168.1.168	true	
19	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC30.85.1.2.0-250123	255.255.255.0	172.20.65.1	88:88:88:88:88:88	Static	192.168.1.168	true	
20	192.168.1.168	0	80	1	IPC0000000000000000	IPC0000000000000000	VC30.85.1.2.0-250123	255.255.255.0	172.20.65.1	88:88:88:88:88:88	Static	192.168.1.168	true	
21	192.168.1.168	0	443	18	IPC0000000000000000	IPC0000000000000000	V8.2.2-20240726	255.255.255.000	172.020.965.001	88:88:88:88:88:88	Static	192.168.1.168	true	
22	192.168.1.168	0	443	5	IPC0000000000000000	IPC0000000000000000	V1.1.0-20211025	255.255.255.000	172.020.965.001	88:88:88:88:88:88	Static	192.168.1.168	true	
23	192.168.1.168	0	443	9	IPC0000000000000000	IPC0000000000000000	V8.2.2-20231226	255.255.255.000	192.168.001.001	88:88:88:88:88:88	DHCP	192.168.1.168	true	

Note: The default IP address of the camera is 192.168.1.168, the default username is admin.

Chapter 4 Web Client Login

4.1 Accessing Camera from Web Client

Use Device Config Tool to search the IPCs in the current network. As shown in the below picture, directly click an IP address and use your IE browser to login to the corresponding camera.



No.	IP	Media Port	Web Port	Channel	Device Name	Device Type	Device Version	Net Mask	Gateway	MAC	Network Mode	P2P ID	Initialized	Status
1	172.20.85.21	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC21.45.1.2-0-250207	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
2	172.20.85.22	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC39.24.1.1.3-250108	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
3	172.20.85.23	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC30.85.1.2-0-250116	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
4	172.20.85.25	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC39.24.1.1.3-250108	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
5	172.20.85.29	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC39.24.1.1.3-250122	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
6	172.20.85.30	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC40.45.1.2-0-250116	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
7	172.20.85.35	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC21.45.1.2-0-250207	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
8	172.20.85.38	0	80	32	IPC-0000000000000000	IPC-0000000000000000	VC12.0-250121	255.255.255.000	172.020.005.001	00:00:00:00:00:00	DHCP	0000000000000000	true	
9	172.20.85.43	0	80	4	IPC-0000000000000000	IPC-0000000000000000	VC12.0-250121	255.255.255.000	172.020.005.001	00:00:00:00:00:00	DHCP	0000000000000000	true	
10	172.20.85.45	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC39.24.1.1.3-250108	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
11	172.20.85.46	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC39.24.1.1.3-250122	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
12	172.20.85.49	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC26.34.1.2-0-250103	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
13	172.20.85.51	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC30.85.1.2-0-250115	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
14	172.20.85.53	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC30.85.1.2-0-250116	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
15	172.20.85.54	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC21.45.1.2-0-250207	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
16	172.20.85.56	0	80	1	IPC-0000000000000000	IPC-0000000000000000	V26.34.8.2.5-241121	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
17	172.20.85.62	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC21.45.1.2-0-250207	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
18	172.20.85.68	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC21.45.1.2-0-250207	255.255.255.0	172.20.85.1	00:00:00:00:00:00	DHCP	0000000000000000	true	
19	172.20.85.195	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC30.85.1.2-0-250123	255.255.255.0	172.20.85.1	00:00:00:00:00:00	Static	0000000000000000	true	
20	172.20.85.196	0	80	1	IPC-0000000000000000	IPC-0000000000000000	VC30.85.1.2-0-250123	255.255.255.0	172.20.85.1	00:00:00:00:00:00	Static	0000000000000000	true	
21	172.20.85.203	0	443	18	IPC-0000000000000000	IPC-0000000000000000	V8.2-20040726	255.255.255.000	172.020.005.001	00:00:00:00:00:00	Static	0000000000000000	true	
22	172.20.85.222	0	443	5	IPC-0000000000000000	IPC-0000000000000000	V1.0-200211025	255.255.255.000	172.020.005.001	00:00:00:00:00:00	Static	0000000000000000	true	
23	192.168.1.76	0	443	9	IPC-0000000000000000	IPC-0000000000000000	V8.2-20031226	255.255.255.000	192.168.001.001	00:00:00:00:00:00	DHCP	0000000000000000	true	

As an alternative, you can open your IE browser and type the following information into the address bar: **http://ip:web port**. As shown in the above figure, the IP address of the device to be accessed is 172.20.58.41, the web port No. is 80, and the combined URL is **http://172.20.58.41:80**.

Note: In practical applications, the default HTTP access mode is port 80.

4.2 Initial Login

Firstly, access the camera from a web client, you need to set a password for the camera in order to complete the activation operation. The web client will display the screen as shown in below picture. Hover over the password entry box to prompt for the password requirement:

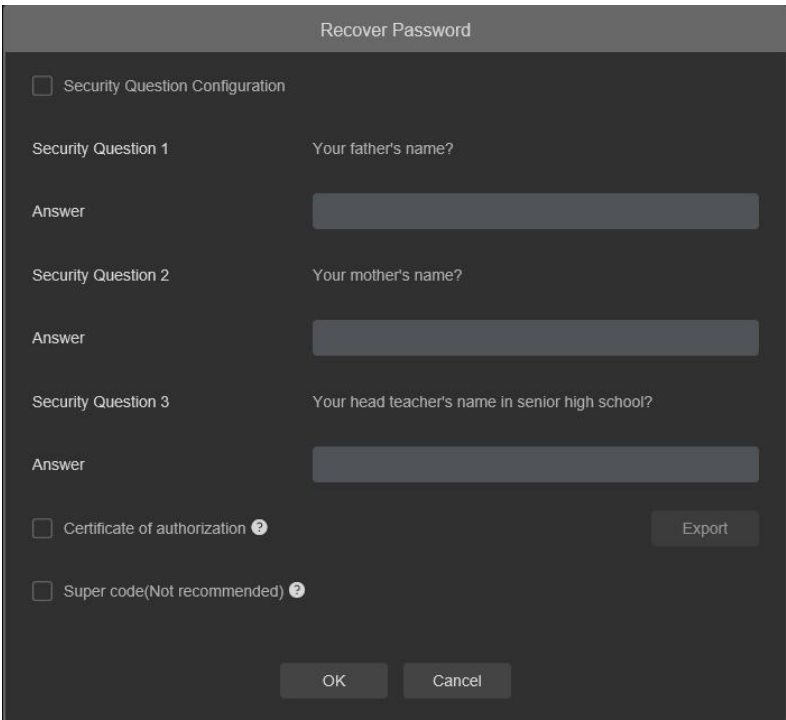
The length of the password should be 8~16 characters.It should contain at least two combinations of upper case letters, lower case letters, numbers and special characters.

Password and username cannot be set the same.



The screenshot shows a 'Password' dialog box with a dark theme. It contains a 'Default Username' field with the value 'admin'. To the right of this field is a list of four rules: 1. The length must be 8 ~ 16 characters; 2. The password cannot be the same as the username; 3. Only uppercase letters, lowercase letters, digits, special characters are allowed. Must contain 2 of them; 4. Special characters include '~!@#\$%^&*()_-=+[]{}.,'";<.>/?'. Below the rules is a 'New Password' field with a password strength indicator (three bars) and a toggle for visibility. At the bottom is a 'Confirm Password' field and an 'OK' button.

Set a new password and click OK to save your change. The web client will display the screen as shown in below picture. Users can open the corresponding recover password method by checking the box, or cancel the setting directly without checking the box, and do not enable the recover password function.



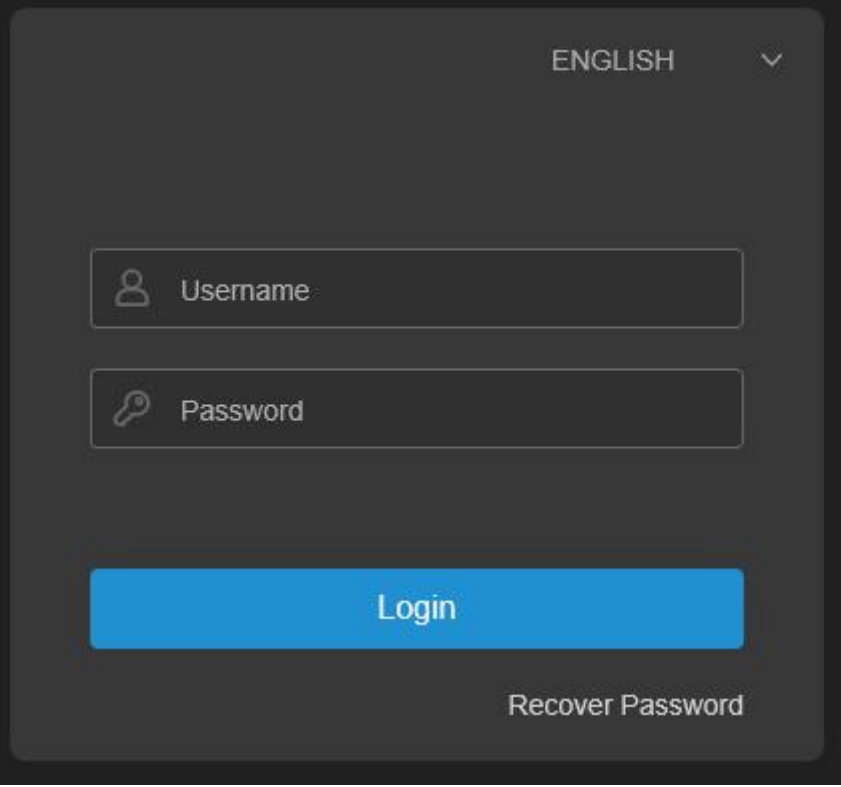
The screenshot shows a 'Recover Password' dialog box with a dark theme. It has a checkbox for 'Security Question Configuration'. Below this are three security questions: 'Security Question 1: Your father's name?', 'Security Question 2: Your mother's name?', and 'Security Question 3: Your head teacher's name in senior high school?'. Each question has an 'Answer' field. At the bottom, there are two more checkboxes: 'Certificate of authorization' and 'Super code(Not recommended)', each with a help icon. An 'Export' button is located to the right of the 'Certificate of authorization' checkbox. At the very bottom are 'OK' and 'Cancel' buttons.

- ① Security Question Configuration: To change the user password by question verification, check the Security Question Configuration, select three questions among 15 questions, and set the answers at a maximum length of 64 characters to recover your password.
- ② Certificate of authorization: To change the user password by using a certificate, check the Certificate of authorization, and click Export to download the certificate.txt file.
- ③ Super code(Not recommended): This method is to calculate a super code allowing to changing the user password by using the MAC address of the camera and camera time. You are not advised to enable this function as the MAC address of the camera is broadcast over the network, and the system time of the camera can be directly obtained when you login from the web client and use Super code to change the user password.

Note: Keep your verification information properly when the recover password function is enabled.

4.3 General Login

After accessing from the web client, you will be directed to the login screen as shown in below picture. Then, input your username and password, and click Login to access the operation screen. At the same time, you can select your desired language upon login.

A dark-themed login interface. At the top right, the word "ENGLISH" is displayed next to a downward-pointing chevron icon. Below this, there are two input fields: the first is labeled "Username" with a person icon, and the second is labeled "Password" with a key icon. A prominent blue "Login" button is centered below the input fields. At the bottom right, there is a link labeled "Recover Password".

4.4 Recover Password

When the recover password function is enabled, if you forget the login information, you can click Recover Password to enter the Recover Password screen. You can check security question configuration, certificate of authorization, or super code upon first login to recover your password.

4.4.1 Security Question Configuration

You can change the user password by setting security questions on the Recover Password screen, as shown in below picture. Fill in the answers to security questions. You can directly change the user password.

Recover Password

Verification Mode

Security Question Verification

Security Question 1

Your father's name?

Answer

Security Question 2

Your mother's name?

Answer

Security Question 3

Your head teacher's name in senior high school?

Answer

New Password

Password Strength

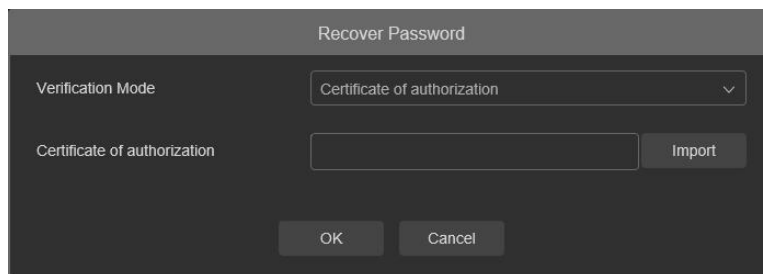
Confirm Password

OK

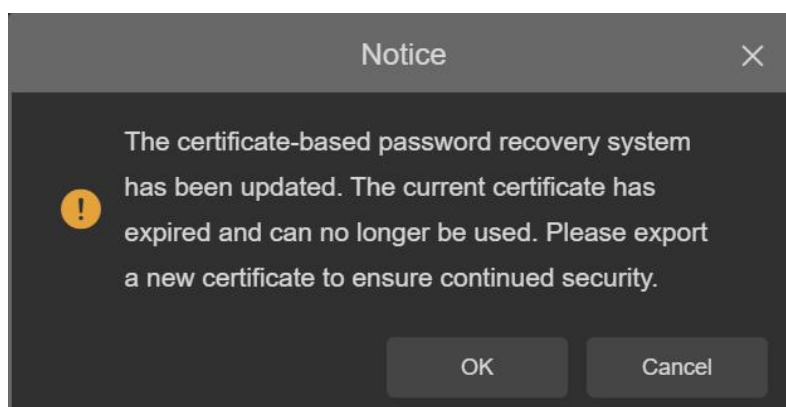
Cancel

4.4.2 Certificate of Authorization

When you set security questions upon first login, you will be asked to download the certificate.txt when you choose to recover the user password by using Certificate of authorization. On the Recover Password screen, click the Recover Password and import the certificate.txt file to reset the password, as shown in below picture. Click **Import** and select the certificate.txt file. Then, enter a new password to change the user password.

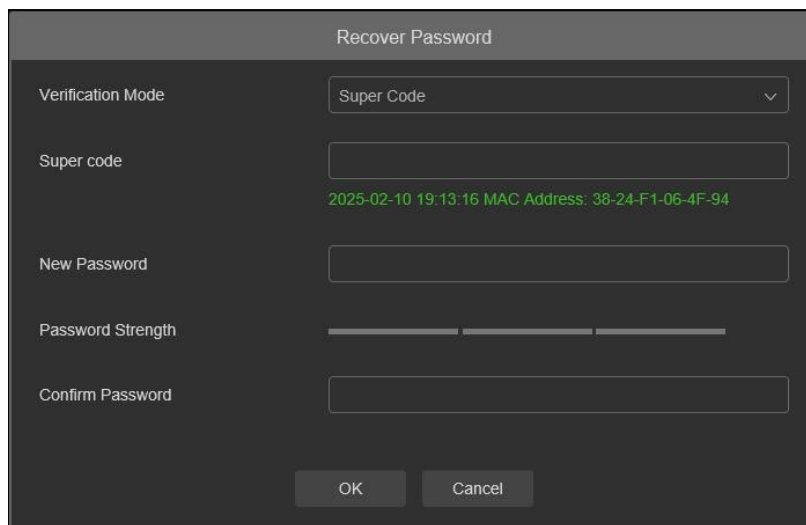


Note: After changing your password via this method, the associated key file becomes invalid. A pop-up window promptly appears, prompting you to re-export the key file upon your next login. Should you choose not to re-export it at that time, you will no longer be permitted to change your password using this method afterward. This essential prompt is displayed in the below picture.



4.4.3 Super Code

On the login screen, click [Recover Password](#) to open the password retrieval interface. Switch to [Super Code](#) mode, and the interface will transform as shown below. Enter the correct verification code to reset your password (**Note:** The verification code is calculated using a dedicated tool based on the camera's Mac address and the system prompt time).

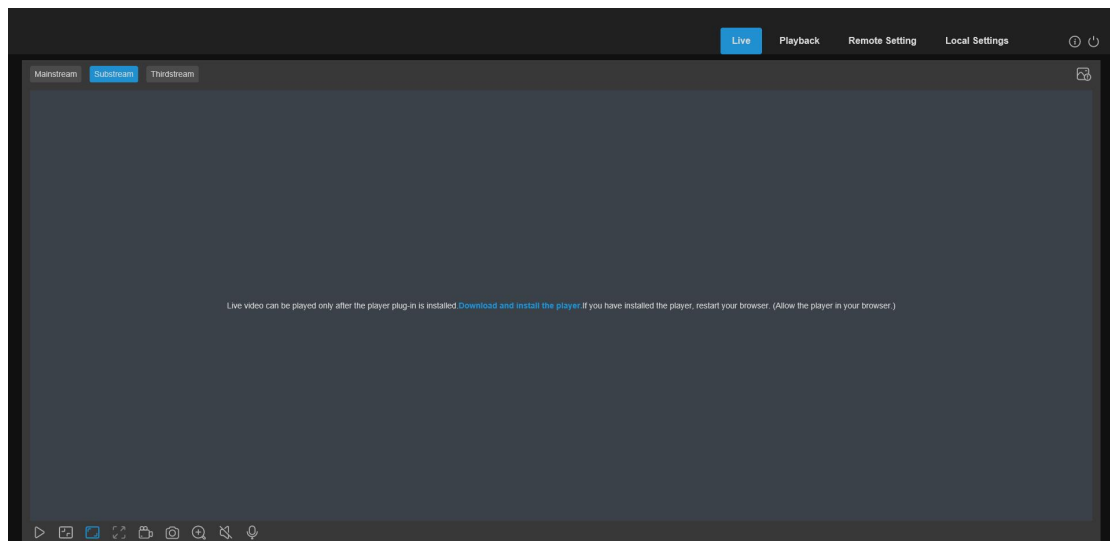


The screenshot shows a 'Recover Password' dialog box with a dark background. At the top, the title 'Recover Password' is centered. Below it, there are several input fields and a progress bar. The 'Verification Mode' is set to 'Super Code' in a dropdown menu. The 'Super code' field is empty, with a green text prompt below it: '2025-02-10 19:13:16 MAC Address: 38-24-F1-06-4F-94'. Below this is the 'New Password' field, followed by a 'Password Strength' indicator showing a progress bar. The 'Confirm Password' field is at the bottom. At the very bottom, there are 'OK' and 'Cancel' buttons.

Note: Using the same password for a long time poses a major security risk. If the password has been used for more than 90 days, the user will be prompted to change it when logging in.

Chapter 5 Installing Plug-in

Image can be normally previewed only when the plug-in is installed when you login from your IE browser. Download and install the plug-in as instructed on the screen as shown in below picture.



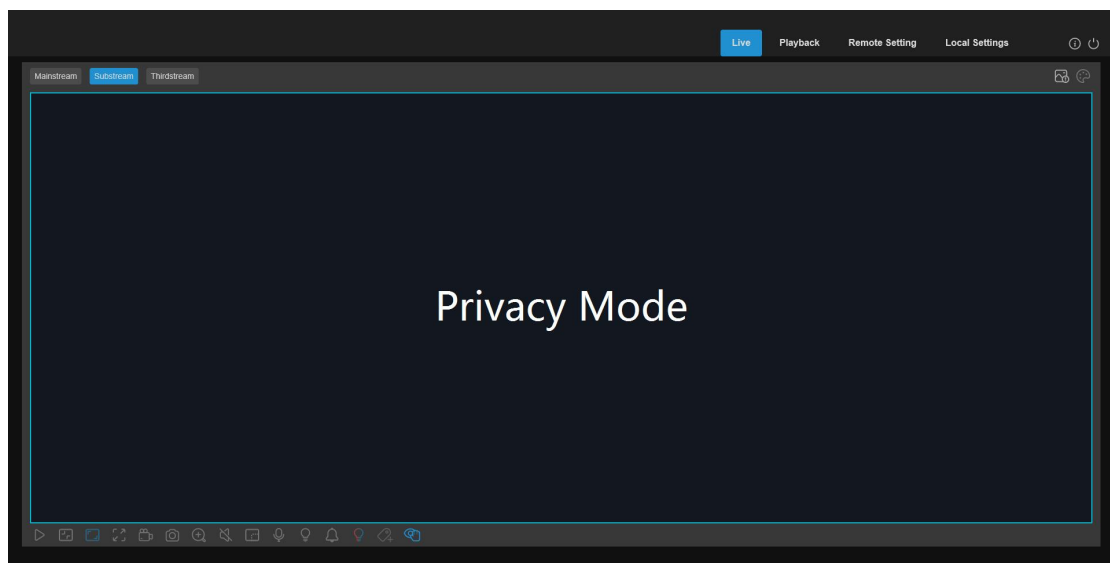
Note: Skip the plugin installation when you access the web client from Safari 12 and higher version, Chrome 57 and higher version, Firefox 52 and higher version, and Edge 41.

Chapter 6 Preview Screen

6.1 Live Menu

After successful login, the web end enters the login preview interface, whose interface is shown in the below picture.

Note: Features may differ between products. Please consult the specific model.



Stream switch menu: Adjust the current live view quality from the upper-left corner.

Main stream: HD picture, but higher requirements on bandwidth and PC performance.

Sub stream: Moderate requirements on bandwidth and PC performance, but lower picture quality when compared with main stream.

Third stream: Lowest requirements on bandwidth and PC performance, and lowest picture quality.

Main switch bar: Switch web function screens. The web client provides four menus: Live, Playback, Remote Setting, Local Settings.



Info: Display the information about the active user, web version and plugin version.



Manual Alarm: Enable/disable the manual alarm.

Note: for cameras with I/O function only.



AI alarm: Open the alarm push bar on the right and push images during face detection and human & vehicle detection.



Color: Adjust current image settings, such as image saturation and sharpness.



PTZ Setting: PTZ settings and re-focusing.



Exit: Log out of the current login.

Video recording alarm status displays the current alarm and recording status of the camera. For details, refer to section 6.2 Video Status.



Stop/Play: Play and stop the preview of the current stream.



Original Proportions: Display the current live view in its original proportion.



Stretch: Display the current live view in a way that stretches the display area.



Full Screen: Display the live view in full screen.double-click the screen to enable or disable the function, and press Esc to exit the full screen mode.



Record: Manually record the stream in preview.



Capture: Manually capture the image of the current stream.



Digital Zoom: Zoom in a certain area of the display.



Audio: Enable or disable or adjust the audio in preview.



Voice Intercom: Communicate with the camera.



Light: Manually turn on/off the warming light.



Siren: Manually turn on/off the siren.



Warning Light: Enable or disable the warning lights.



Pixel Counter: Select an area to check its pixel size in the stream.



Add Tag: Add a label, click to add a label.

PoP-up message: When an alarm is triggered, the current alarm will be displayed in the lower right corner.



Fisheye: Enter/exit fisheye mode, please check section 6.3.



Privacy Mode: Enable/disable the privacy mode. When it is enabled, the other options in the menu bar will be grayed out.



Regional Focus: Click this button and use the mouse to select an area on the preview screen to allow the device to automatically focus on the selected area (Supported only by zoom cameras).

6.2 Video Status

The recording status is a simple indication on the web side of the current alarm of the camera and whether the recording is normal or not. Multiple alarms can exist at the same time, as described below:

No icon: The device SD card is normal, but no recording is taking place.

R: The camera is recording in general.

H: The SD card is in an abnormal state, please check and confirm the SD card.

M: The camera is in Motion alarm, but Motion alarm recording is disabled.

M: The camera is in Motion alarm and Motion alarm recording.

I: The camera is in IO alarm, but IO alarm recording is disabled.

I: The camera is in IO alarm and makes IO alarm recordings

PIR: The camera is in PIR alarm, but PIR alarm recording is disabled.

PIR: The camera is in PIR alarm and PIR alarm recording.

S: The camera is in Smart Alarm, but no Smart Alarm recording is disabled.

S: The camera is in Smart alarm and smart alarm recording.

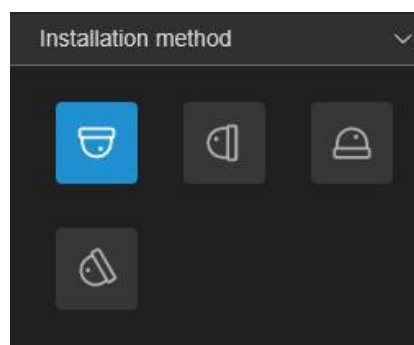
Note: Intelligent alarm include faces alarm, people & vehicles alarm, and etc.

6.3 Fisheye Mode (Only available on fisheye camera)

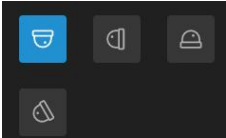
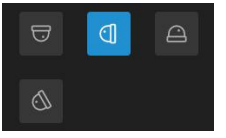
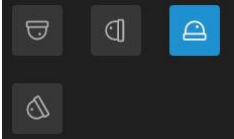
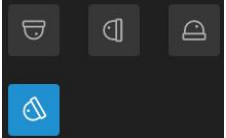
6.3.1 Installation Method

Fisheye software dewarp supports ceiling-mounted, wall-mounted,

desktop-mounted, and tilted installation methods. Icons turn blue when clicked.



Select different installation methods to choose different display options, as shown in the below table.

Installation method	Display mode			
				
				
				
				
				
				
				
				
				
				

Fisheye hardware dewarp only ceiling-mounted, wall-mounted, and tabletop installation methods are supported.

Installation method	Display mode			
				
				
				
				
				
				

6.3.2 Display Mode

The preview images of fisheye cameras can be combined from fisheye, panoramic and PTZ images.

- **Fisheye origin image:** The fisheye network camera captures full-angle or wide-angle images through a fisheye lens.
- **Panoramic image:** It is a corrected fish-eye image transformed into a rectangular image.
- **PTZ images:** It is a close-up image of a selected area in a fisheye image or panoramic image. PTZ images support digital PTZ functionality.

The preview display modes of fisheye camera are shown in the below table.

Icon	Display description	Icon	Display description
	Display fisheye origin image		Display 3D cylindrical image
	Display 2 PTZ images		Display 4 PTZ images
	Display 180-degree panoramic image		Display 360-degree panoramic images
	Display 360-degree panoramic images and one PTZ image		Display 360-degree panoramic images and 3 PTZ images
	Display 360-degree panoramic images		Display 360-degree panoramic images

	and 6 PTZ images		and 8 PTZ images
	Display fish-eye images and 3 PTZ images		Display fish-eye images and 8 PTZ images
	Display panoramic image		Display panoramic images and 3 PTZ images
	Display panoramic images and 8 PTZ images		Display 180 dual-channel panoramic images
	Display single-channel 4 PTZ images		

This section demonstrates how fisheye cameras are installed via ceiling mounting in real-world scenarios, with the preview interface selecting this installation method. It explains how different display modes under software and hardware solutions can produce distinct image effects.

(1) Software dewarp

Software dewarp refers to the distortion correction of raw footage through computer software. In software dewarp decoding mode, the fisheye camera offers several preview display options, and clicking the icon will change to blue color.



VR: VR display mode, use the mouse to drag and drop the operation to change the viewing angle, using the scroll wheel can be gradually enlarged to the view of the image, when the mouse selects a certain area, double-click the left button, roam to the corresponding area, and present the PTZ image of the region, the effect is as shown in the below picture.



Cylinder: 3D column display mode, the effect is shown in the below picture.





2 PTZ image: Two areas of the corrected close-up image display mode, the effect is shown in the below picture.



4 PTZ image: Four areas of the corrected close-up image display mode, the effect is shown in the below picture.



180 degree panorama images: 180 degree panorama image display mode, the effect is as shown in the picture.



 **360 degree panorama images:** 360 degree panorama image display mode, the effect is as shown in the picture



 **360 Panorama images and PTZ:** 360-degree panorama image + a regionally corrected close-up image, different color areas represent different PTZ viewing angle range, select the corresponding PTZ drawing line range, also drag the reverse to change the position of its view, the effect is shown in the below picture.



360 panoramic images and 3PTZ: 360-degree panoramic images + three areas of corrected close-up images, different color areas represent different PTZ viewing angle range, select the corresponding PTZ drawing line range, also drag the reverse to change the position of its perspective, the effect is shown in the below picture.



360 panoramic images and 6PTZ: 360-degree panoramic images + six areas of corrected close-up images, different color areas represents a different PTZ view angle range, select the corresponding PTZ drawing line range, also drag the reverse to change the position of its perspective, the effect is shown in the below

picture.

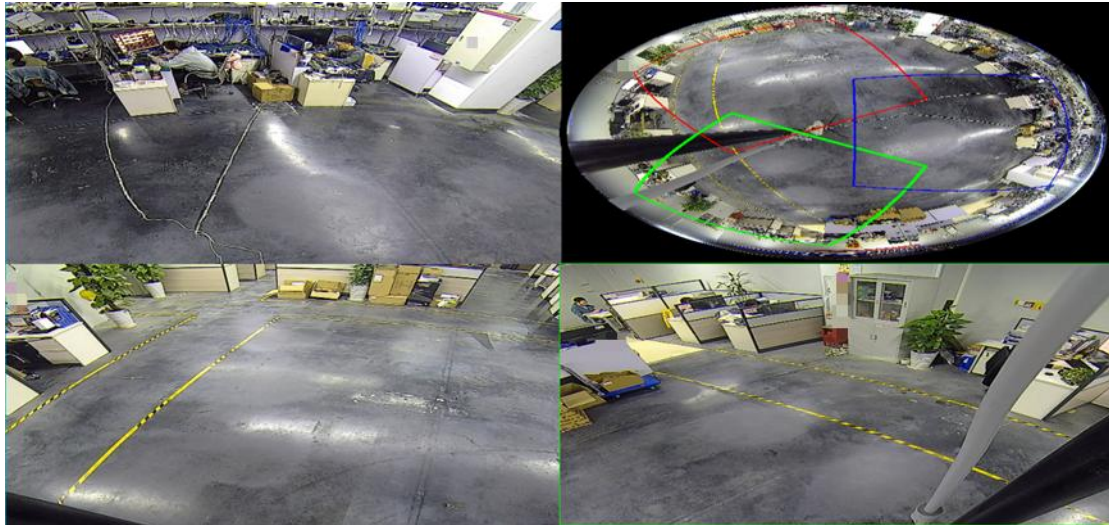


 **360 panoramic images and 8PTZ:** 360-degree panoramic images + eight areas of corrected close-up images, different color areas represent different PTZ view angle range, select the corresponding PTZ line range, also drag the reverse to change the position of its perspective, the effect is shown in the below picture.



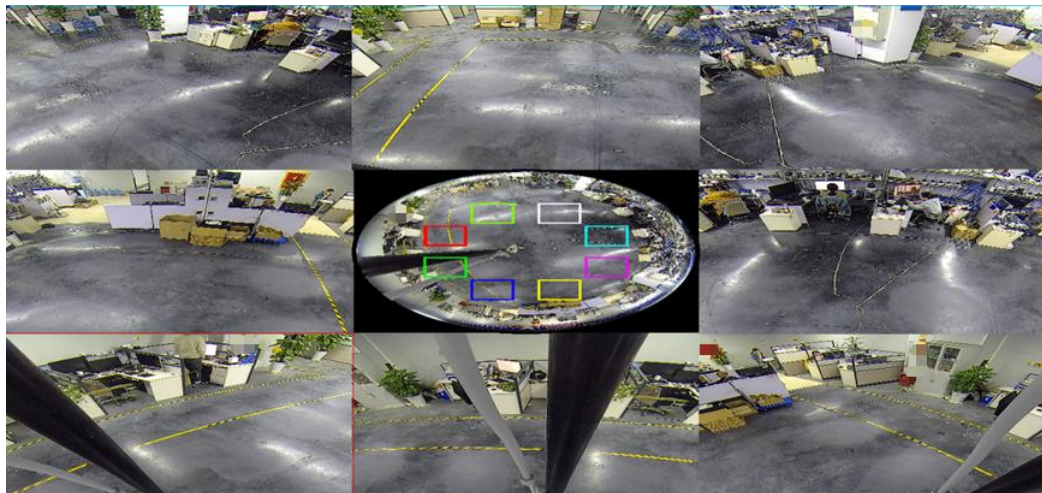
 **Fisheye and 3PTZ image:** Fisheye image + three areas of correction close-up image, different color areas represent different PTZ viewing angle range, select the corresponding PTZ drawing line range, also drag the reverse to change the

position of its perspective, the effect is shown in the below picture.



Fisheye and 8PTZ image: Fisheye image + eight areas of correction close-up

image, different color areas represent different PTZ viewing angle range, select the corresponding PTZ drawing line range, also drag the reverse to change the position of its perspective, the effect is shown in the below picture.



(2) Hardware dewarp

Hardware dewarp refers to correcting the original image using the device's own resources to obtain a customized non-telephoto corrected image, followed by encoding processing. In hardware dewarp decoding mode, telephoto cameras

offer several preview display options, with icons turning blue upon clicking.



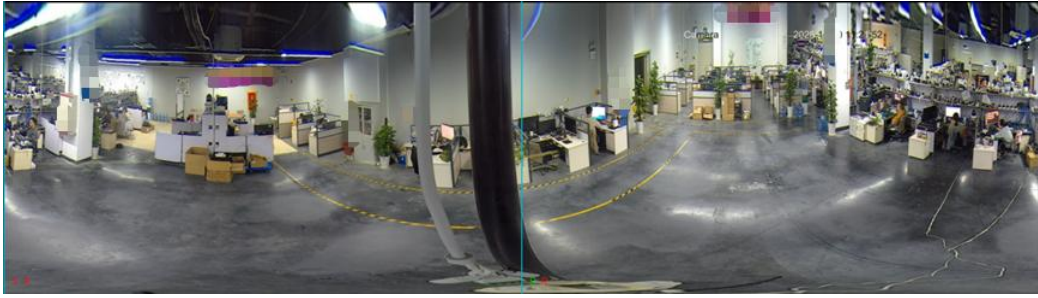
VR: VR display mode, use the mouse to drag and drop the operation to change the viewing angle, using the scroll wheel can be gradually enlarged to the view of the image, when the mouse selects a certain area, double-click the left button, roam to the corresponding area, and present the PTZ image of the region, the effect is shown in the below picture.



180 degree panorama images: 180 degree Panorama display mode, the effect is as shown in the below picture.



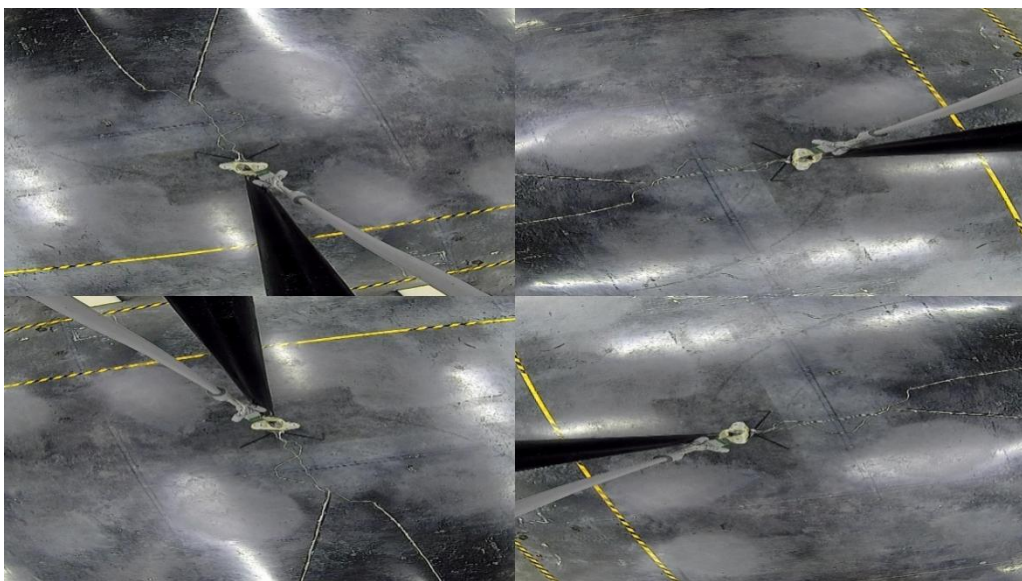
180 degree dual channel panorama images: 180-degree dual-channel panoramic image display, as shown in the below picture.



 **360 degree panorama images:** 360-degree panoramic image display, as shown in the below picture.

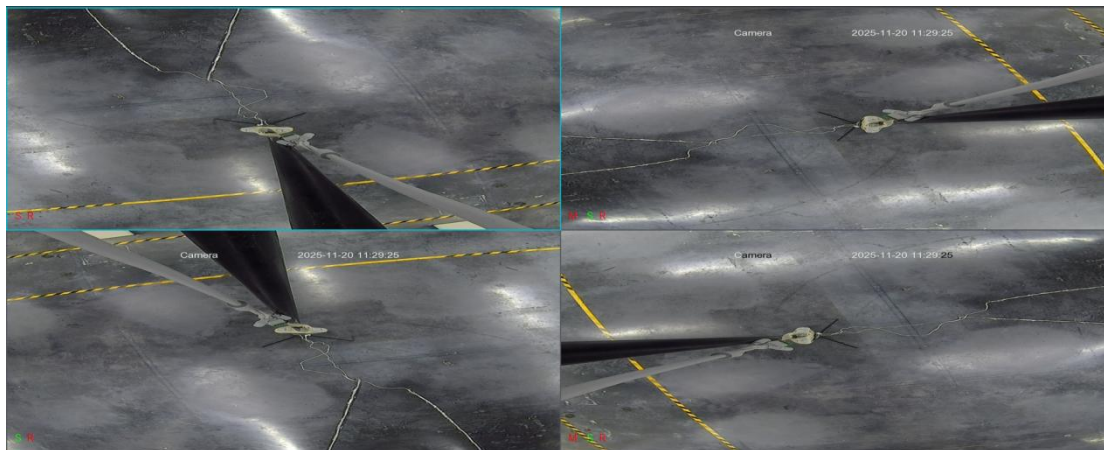


 **Single channel 4 PTZ image:** Single-channel 4 PTZ channel display mode, as shown in the below picture.

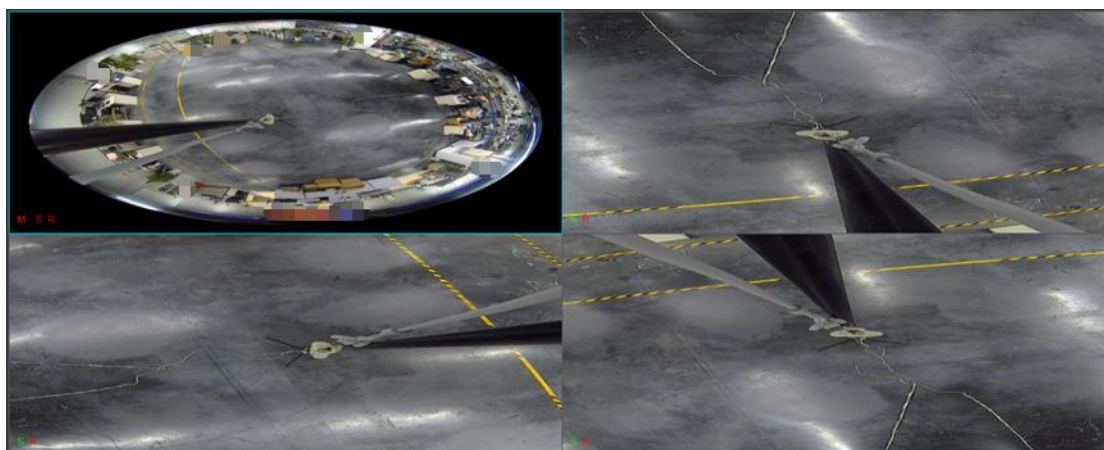




4 PTZ image: The four-region corrected close-up image display mode allows adjustment of its viewing angle position through PTZ operation, as shown in the below picture.



Fisheye and 3PTZ image: Fisheye image and close-up images with three-area correction. The PTZ channel can adjust its viewing angle position through PTZ operation, as shown in the figure.



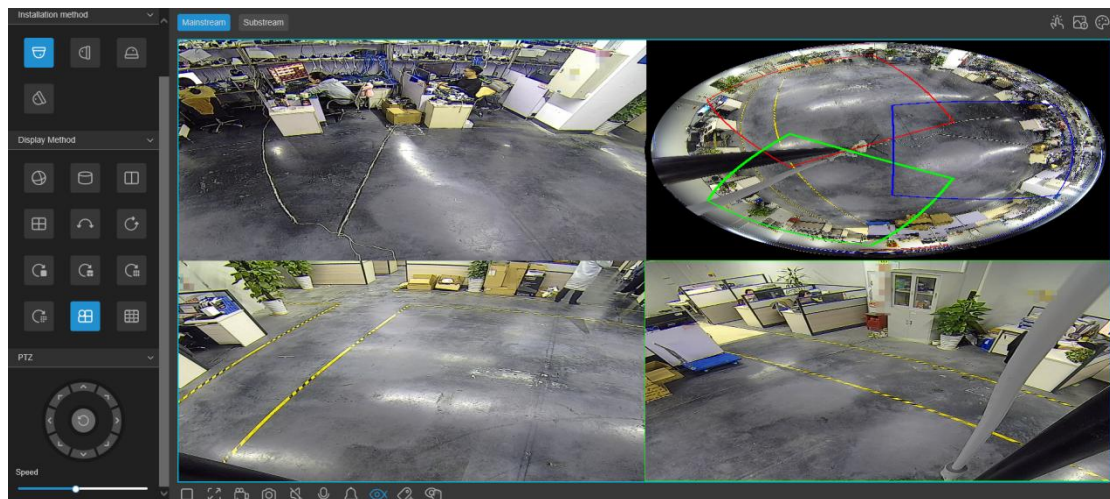
Note: In hardware dewarp decoding mode, switch display modes will restart the device.

In hardware dewarping mode, it's request to restart the device when switch from non-VR display mode to software dewarp decoding mode.

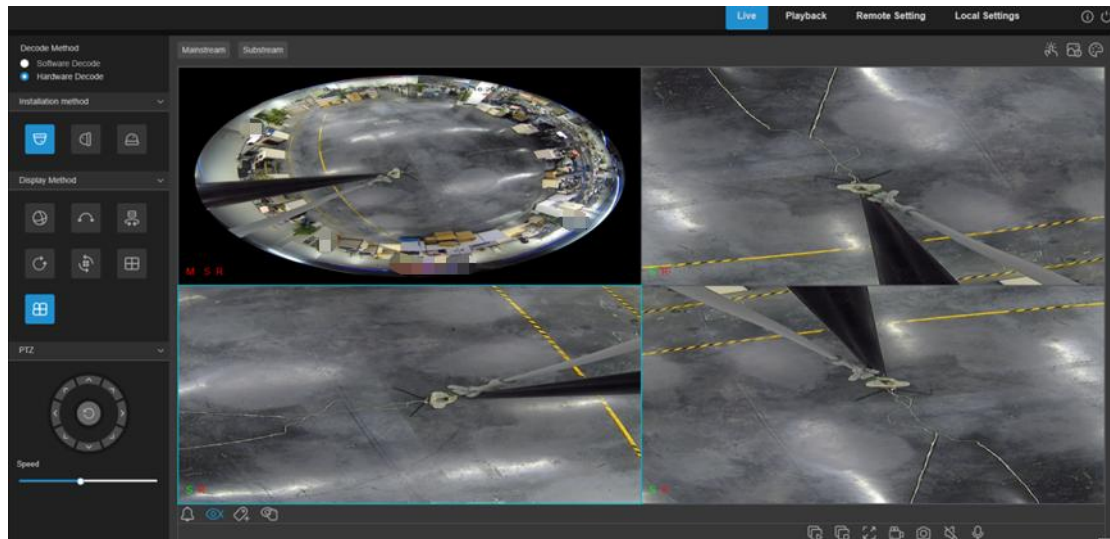
6.3.3 PTZ Control

You can zoom in/out, move, and rotate images to view details easily. The PTZ of the fish-eye camera can be controlled via the gimbal control interface or by clicking and dragging with the mouse. The following example illustrates the fisheye & 3PTZ display configuration.

In software dewarp decoding mode, click the PTZ window with the mouse to display colored border areas in the image frame, with each area matching the corresponding window view. To move an area, select it, drag its position, or adjust the pan control arrow keys to change the output view angle. .



In hardware dewarp decoding mode, select the PTZ channel and click the pan/tilt control arrow keys on the left to rotate the pan/tilt unit.

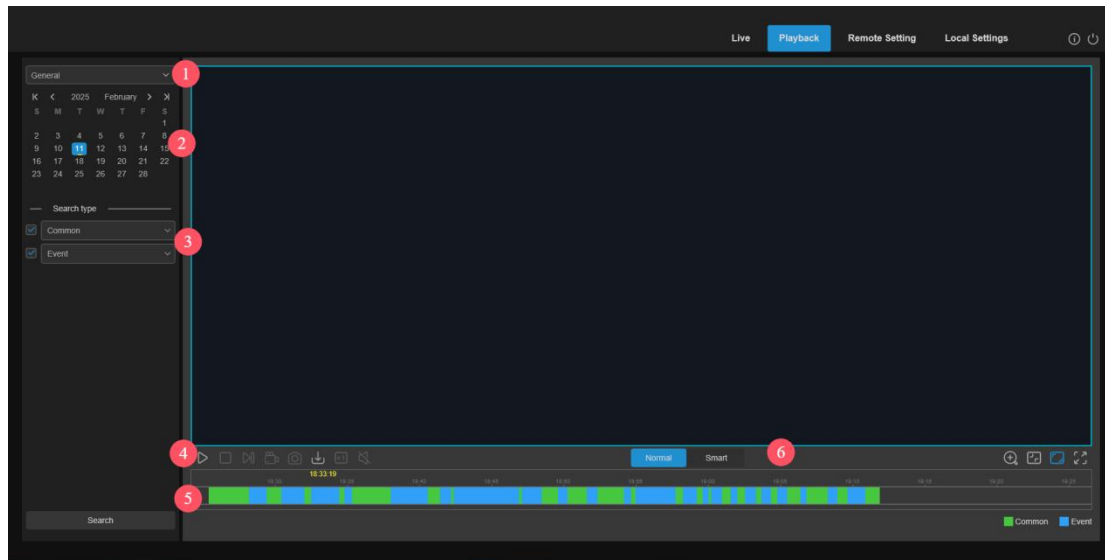


Chapter 7 Playback

Cameras not only need to be able to view live images, but also need to be able to save the image information so that it can be retrieved and viewed when needed.

7.1 General Playback

The playback function is mainly composed of general video search, AI search function, as shown in the below picture for playback search.



1.Switch search mode: Switch search functions, as shown in the figure above.

General is selected by default to search for general recording files. Switch to AI image search by referring to the following part in this section.

2.Date: Set the date to search for recording files, click Search, you will be prompted with the dates with available recording files.

3.Search type: Display the search types supported by the camera. search for only part of recording files as required.

4.Playback process bar: Display and search for recording files stored in the memory card according to search settings.



Pause/Play: Pause/play streams.



Stop: Stop playing streams.



Forward by One Frame: Play one frame with one click.



Record: Manually record the stream in preview.

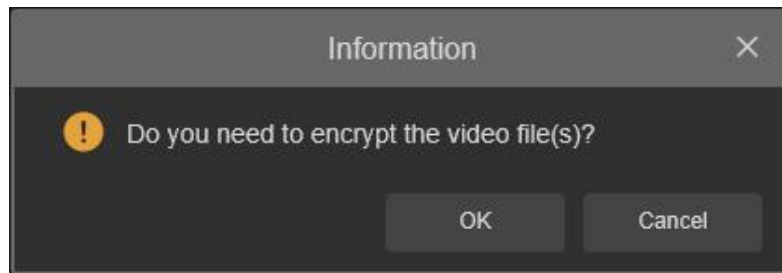


Capture: Manually capture the image of the current stream.



Download: Download the searched recording file(**Note:** When downloading AVF format records, a Pop-up window will ask if encryption is required.AVF, .AVI

and MP4 format will not have a pop-up window).



Speed: Supports playing at a speed of 1/8, 1/4, 1/2, 1, X2, X4, X8, X16.



Audio: Enable or disable or adjust stream sound.



Digital Zoom: Zoom in a certain area of the stream.



Original Proportions: Display the current live view in its original proportion.



Stretch: Display the current live view in a way that stretches the display area.



Full Screen: Display the playback stream in full screen. double-click the screen

to enable or disable the function, and press Esc to exit the full screen mode.

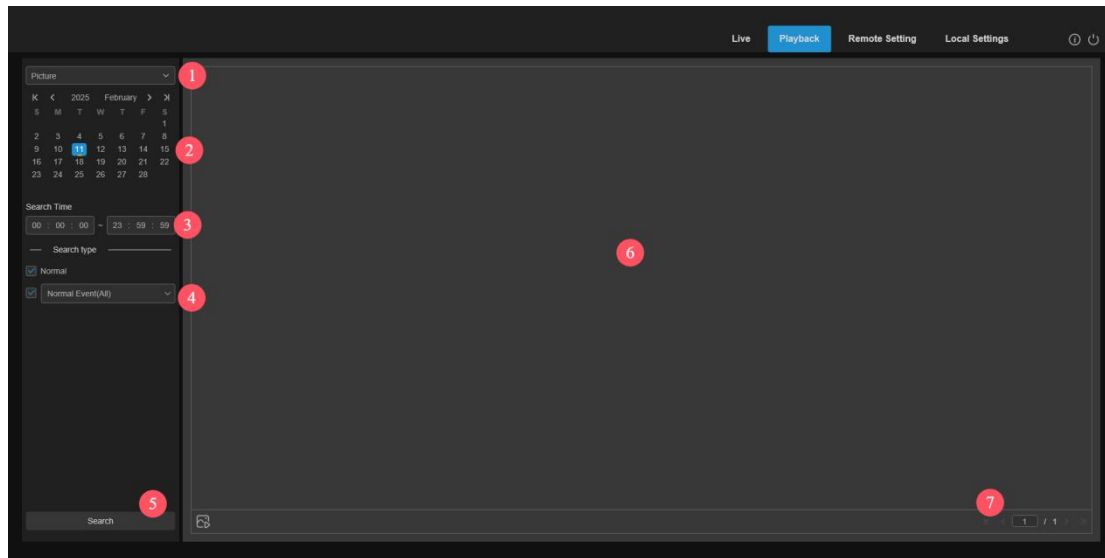
5.Search: Display the video search in the SD card according to the search settings.

6.Normal/Smart search: Switch Normal or Smart search. After selecting Smart search, click the button of pedestrian and vehicle type in the lower left corner, the video progress bar will mark the alarm video triggered by human and car type on the same day in blue. Alarm videos of pedestrian and vehicle types include:

Pedestrian and Vehicle, Intrusion, Enter Region, Exit Region and Line Crossing detected videos of pedestrian and vehicle types.

7.2 Picture Search

When the camera turns on the automatic picture capture function, Search and play pictures in this interface.



1.Search mode switching: Switch the current search function, the current search mode is Picture.

2.Search date: Set the search date for pictures, click **Search**, it will prompt the date of having video files.

3.Search time: Set the time period for searching pictures, to facilitate users to query the specific time period of the picture.

4.Search type: Select the type of image capture to search, the default selection of all.

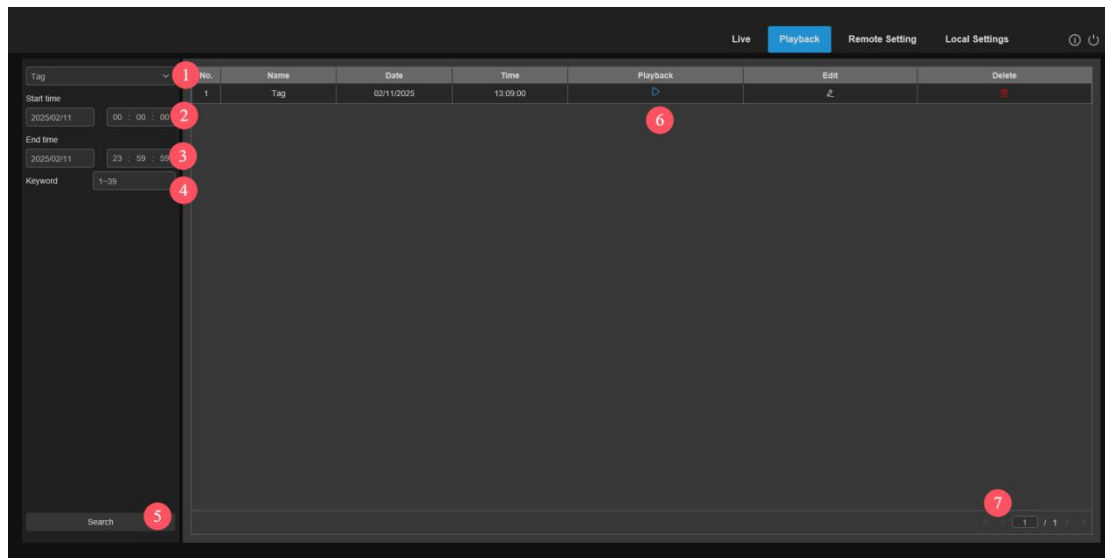
5.Search: Click **Search**, start searching for pictures.

6.Search result display area: Display the pictures searched by the user. When you double-click a picture, it will play the playback video of the time period before and after the picture.

7.search result page: In the lower right corner of the search result can be turned.

7.3 Tag Playback

This screen is allowed to view all previously added tags and edit, playback or delete.



1. Search mode switching: Switch the current search function, the current search mode is Tag.

2.Start time: Set the start time of the search tag.

3.End time: Set the end time of the search tag.

4.Keyword: Enter the keyword to search

5. Search: Click Search, start searching.

6. The search result display area: Display the user set up to meet the search conditions of the search result.

Click  button to play back the event. Click  button to modify the event name.

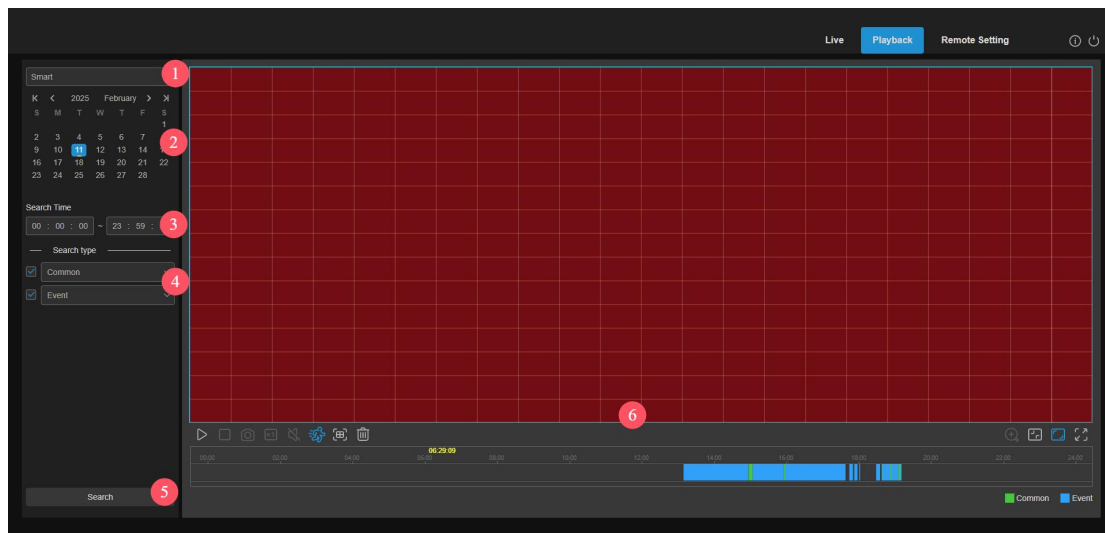
Click the Save button to pop up the Modify success prompt box. Click  button to delete the event.

7. Aearch result page: In the lower right corner of the search result can be turned

page.

7.4 Smart

Login from a browser without the need of plugin to start smart playback, as shown in the below picture.



In smart playback mode, Smart playback can filter out Motion data frames in the video, making it easier to quickly locate the time period when the event occurred.

This function can identify whether an alarm is triggered by human in daily life.If yes, the alarm will be shown in blue in the playback time bar on the bottom.

1.Switch search mode: Switch the current search function.The current search mode is Smart.

2.Date: Set the date to search for smart events.By clicking Search, you will be prompted with the dates for which recording files are available.

3.Search time: Set the time for searching for events.

4.Search type: Display the search types supported by the camera.search for only part of recording files as required.

5.Search: Click Search button to start searching.

6.Search Result Display Area: Display the desired search result.



Pause/Play: Pause/Resume playback stream.



Stop: Close the playback stream.



Capture: Manually capture the image of the current stream.



Speed: Variable speed playback, support 1/8, 1/4, 1/2, 1, X2, X4, X8, X16 speed adjustment.



Audio: Switch on/off, adjust the sound of the playback stream.



Add Default Tag: Add a default tag. Default name Tag.



Add Tag: Add a custom tag, customizable tag name, name length 1 to 39 characters.



Smart: Click to enter the smart area setting interface.



All: Click All to set the entire screen of the camera as the Smart detection area.



Delete: Click **Clear All** to clear the entire area.



Digital Zoom: An electronic zoom function that zooms in to show a certain area of the playback stream.



Original Proportions: Display the current preview screen in its original proportions.



Stretch: Display the current preview screen in a way that spreads the display area.



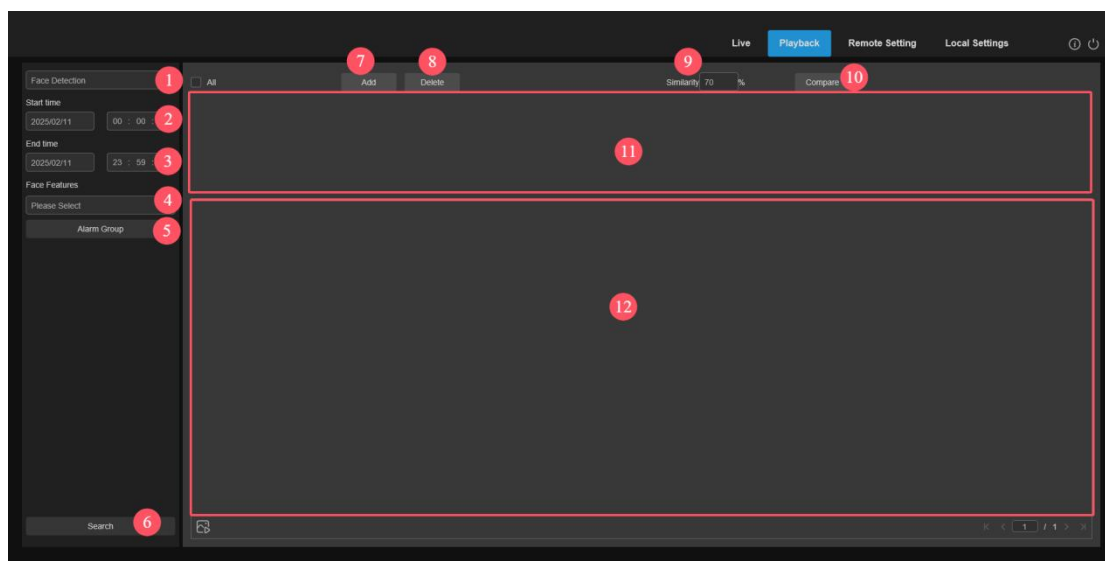
Full Screen: Display the playback stream in full screen, double click the screen to open/close the function, press **Esc** to exit the full screen when the function is

opened.

7.5 AI

7.5.1 Face Search

The camera carries out the face recognition function, stores the acquired face information to the TF card, and saves the image-related information at the same time. When searching, quickly retrieve the face capture that meets the user's requirements and quickly locate the video according to the capture at . The face search playback interface is shown in the below picture.



1.Switch search mode: Switch the current search function.The current search mode is face detection.

2.Start time: Set the start time to search for captured faces.

3.End time: Set the end time to search for captured faces.

4.Face Attribute: The Face Features box is unchecked by default.When enabled, only face images captured when the face Feature detection function is turned on are searched. The firmware can recognize five face attributes, including gender,

age, mask, glasses, and expression.

5.Alarm Group: The camera matches face images to the corresponding group according to the settings of the face database when capturing face images.This setting allow to search for images of only the groups you want.

6.Search: Search for face data according to settings.

7.Add: Add images to the image display area for comparison purpose. Add local images and captured images.

8.Delete: Delete currently added images.

9.Similarity: Set the lowest similarity of feature values of matching faces when using the Compare function.

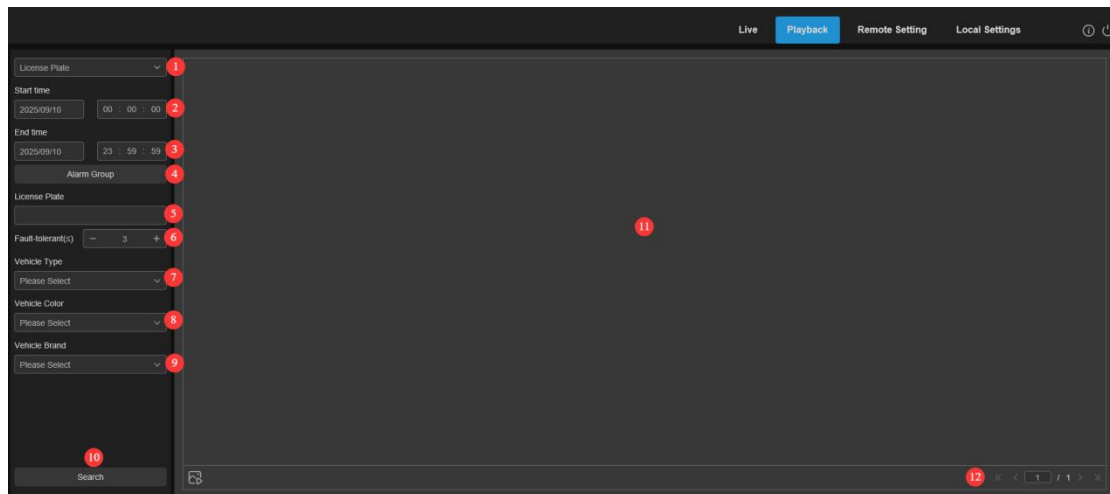
10.Compare: Search for captured faces according to the set search time, group in which captured images are located, and selected reference face image for comparison.

11.Add Image Display Area: Display images that are currently added and available for comparison.

12.Search Result Display Area: On the right side will display captured images searched by using Search and Compare.Double-click the picture will play the video after and before the picture.

7.5.2 License Plate Detection Search

When the License Plate detection function is enabled for the IPC, an alarm will be triggered for recognized License Plates, and images or videos will be recorded for easy search and viewing.The screen is shown in the below picture.



1.Switch search mode: Switch the current search function. The current search mode is License Plate.

2.Start time: Set the start time to search for captured License Plates.

3.End time: Set the end time to search for captured License Plates.

4.Alarm Group: Recognize License Plates by groups in the database.

Note: All images will be searched when no group limitations are set.In this case, the similarity setting takes effect. Unknown License Plates will be ignored when group limitations are set.

5.License Plate: Filter and query License Plates.

6.Fault-tolerant: Fault-tolerant rate.For example, three characters are set as the querying criteria.When the License Plate number is **B594SB** in the allow list in the group, an alarm will also be triggered when the vehicle with License Plate number **B734KB** approaches the surveillance area.That is, a License Plate number has 0-3 characters different from that in the database will be recognized.

7. Vehicle Type: Filter by vehicle type.

8. Vehicle Color: Filter by vehicle color.

9. Vehicle Brand: Filter by vehicle brand.

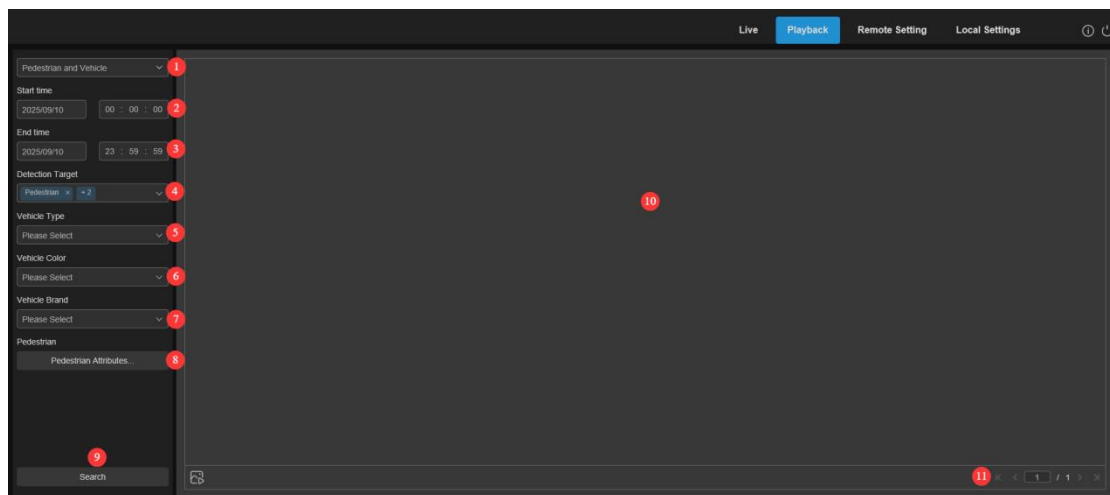
10.Search: Search for captured License Plates according to settings.

11.Search Result Display Area: Display the desired search result.Double-click the picture will play the video after and before the picture.

12.Search result Flip: Scroll through search result at the lower right corner.

7.5.3 Pedestrian and Vehicle Search

It's similar to the face capture function, the camera can differentiate between people or cars and record them according to the desired situation, which is used to search for the desired record. The interface effect is shown in the below picture.。



1.Switch search mode: Switch the current search function.The current search mode is Pedestrian and Vehicle.

2.Start time: Set the start time to search for Pedestrian and Vehicle images.

3.End time: Set the end time to search for Pedestrian and Vehicle images.

4.Detection Type: Select human or vehicle images as needed, or select both.

5.Vehicle Type: Filter by vehicle type.

6.Vehicle Color: Filter by vehicle color.

7.Vehicle Brand: Filter by vehicle brand.

8.Pedestrian Attributes: Set human attribute filtering conditions and search for events based on the filtering conditions. Supported human attributes include: top and bottom color, gender, age, hat, whether glasses are worn, sleeves, bottoms, backpack, direction, etc.

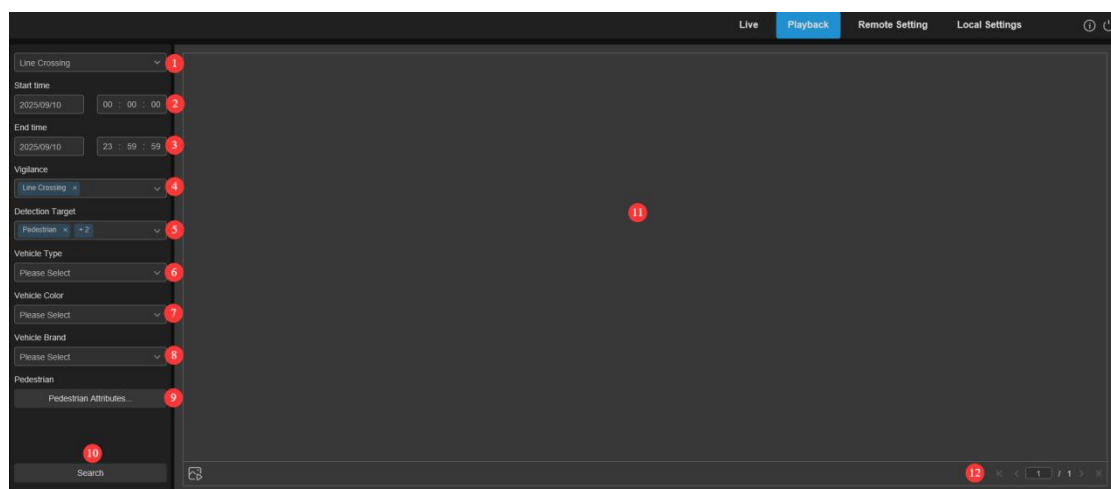
9.Search: Search for Pedestrian and Vehicle images according to search settings.

10.Search Result Display Area: Display the desired search result. Double-click the picture will play the video after and before the picture.

11.Search result Flip: Scroll through search result at the lower right corner.

7.5.4 Line Crossing

With the development of technology, Line Crossing is not only compatible with the old way of alarming targets entering the guarded area, but also adds the function of human-vehicle detection, which alarms only human or vehicle targets and records pictures or video information for easy searching and viewing, and its interface effect is shown in the below picture.



1.Search mode switching: Switch the current search function, the current search

mode is Line Crossing.

2.Start time: Set the start time of searching for human car shape capture.

3.End time: Set the end time of searching for human car shape capture.

4.Vigilance: Set the way of capturing the alarm triggered as Line Crossing, also set it at the same time.

5.Detection Target: According to the need, set the search of the person or the car to catch the picture, also search at the same time.

6.Vehicle Type: Filter by vehicle type

7.Vehicle Color: Filter by vehicle color

8.Vehicle Brand: Filter by vehicle brand

9.Pedestrian Attributes: Set human attribute filtering conditions and search for events based on the filtering conditions. Supported human attributes include: top and bottom color, gender, age, hat, whether glasses are worn, sleeves, bottoms, backpack, direction, etc.

10.Search: According to the search settings to search for humanoid models to capture the map.

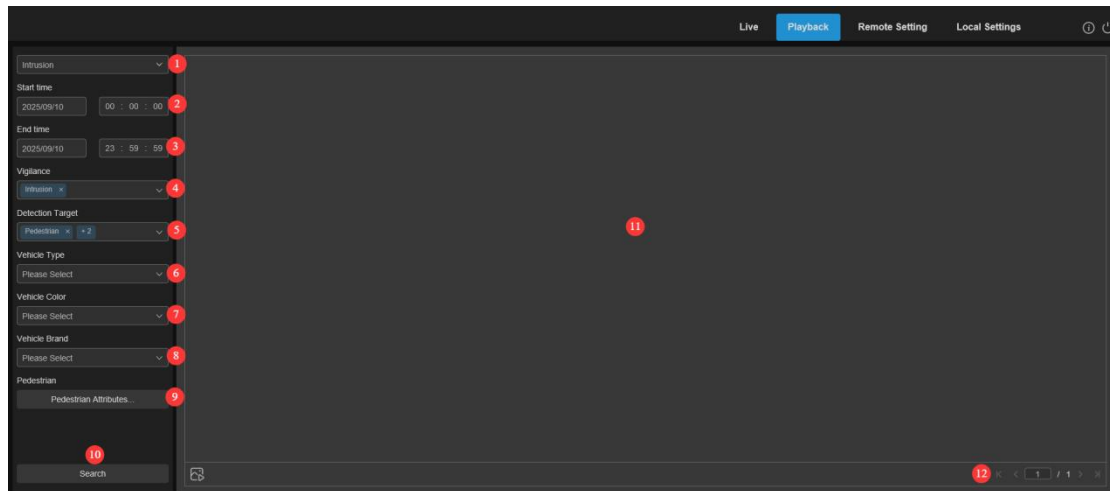
11.The search result display area: Display the customer's desired search result.

Double-click on the picture to access a small period of time before and after the detection of playback.

12.Search result page: In the lower right corner of the search result can be turned.

7.5.5 Intrusion Detection

When the camera enabled the Intrusion function, it will alarm the target that enters into the intrusion of the alert area. Record video or capture picture information for easy search and view. Its interface is shown in the below picture



1.Switch search mode: Switch the current search function.The current search mode is Intrusion.

2.Start time: Set the start time to search for Intrusion snapshot.

3.End time: Set the end time to search for Intrusion snapshot.

4.Vigilance: Select Intrusion as the capture method.

5.Detection Target: Select Intrusion images as needed, or select both.

6.Vehicle Type: Filter by vehicle type.

7.Vehicle Color: Filter by vehicle color.

8.Vehicle Brand: Filter by vehicle brand.

9.Pedestrian Attributes: Set human attribute filtering conditions and search for events based on the filtering conditions. Supported human attributes include: top and bottom color, gender, age, hat, whether glasses are worn, sleeves, bottoms, backpack, direction, etc.

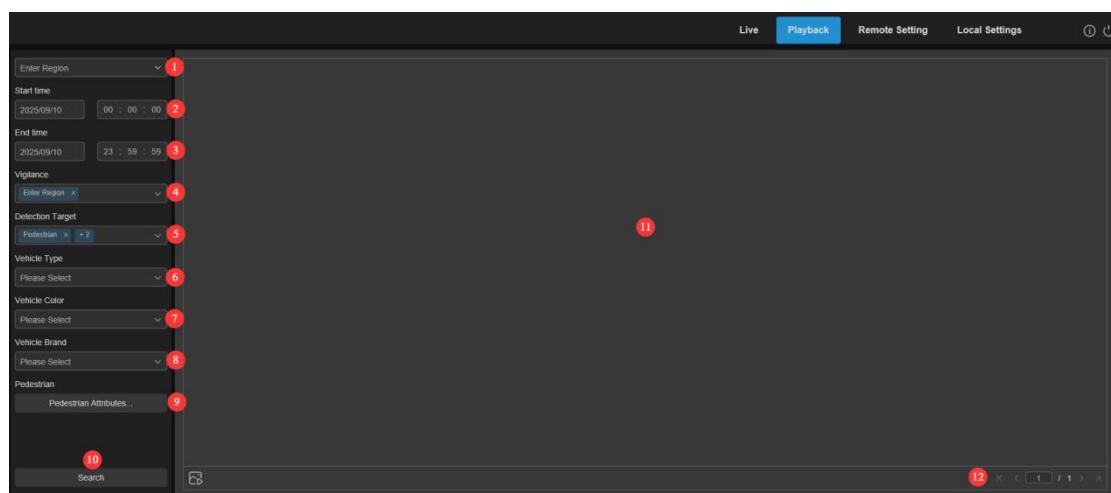
10.Search: Search for Intrusion images according to search settings.

11.Search Result Display Area: Display the desired search result. Double-click the picture will play the video after and before the picture.

12.Search result Flip: Scroll through search result at the lower right corner.

7.5.6 Enter Region

After the camera opens the entry area detection function, it will alarm the detected targets entering the alert area, record pictures or video information for easy search and view, and its interface effect is shown in the below picture.



1.Search mode switching: Switch the current search function, the current search mode is Enter Region.

2.Start time: Set the start time of searching into the area to capture the map.

3.End time: Set the end time of searching into the area to capture the map.

4.Vigilance: Set the way of capturing the alarm triggered to enter the area.

5.Detection Target: According to the need, set the search of the person or the car to catch the picture, also search at the same time.

6.Vehicle Type: Filter by vehicle type.

7.Vehicle Color: Filter by vehicle color.

8.Vehicle Brand: Filter by vehicle brand.

9.Pedestrian Attributes: Set human attribute filtering conditions and search for events based on the filtering conditions. Supported human attributes include: top and bottom color, gender, age, hat, whether glasses are worn, sleeves, bottoms, backpack, direction, etc.

10.Search: According to the search settings to search for humanoid models to capture the picture.

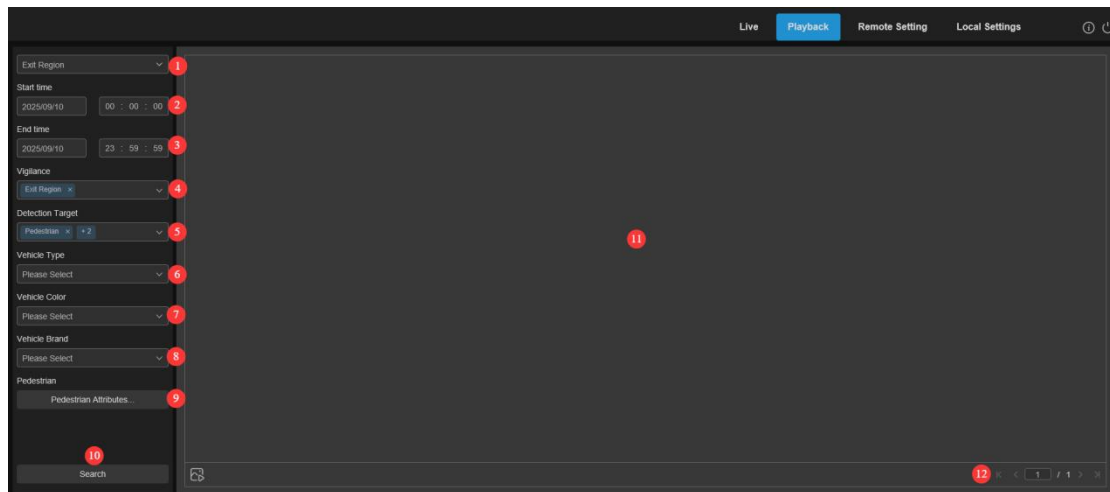
11.The search result display area: Display the customer's desired search result.

Double-click on the picture to access a small period of time before and after the detection of playback.

12.Search result page: In the lower right corner of the search result can be turned.

7.5.7 Exit Region

When the camera turns on Exit Region function, Alarm triggered and detect targets leaving the guarded area. Record video or capture picture information for easy search and view. Its interface is shown in the below picture.



1.Switch search mode: Switch the current search function.The current search mode is Exit Region.

2.Start time: Set the start time to search for Exit Region images.

3.End time: Set the end time to search for Exit Region images.

4.Vigilance: Select Exit Region as the capture method.

5.Detection Target: Select Exit Region images as needed, or select both.

6.Vehicle Type: Filter by vehicle type.

7.Vehicle Color: Filter by vehicle color.

8.Vehicle Brand: Filter by vehicle brand.

9.Pedestrian Attributes: Set human attribute filtering conditions and search for events based on the filtering conditions. Supported human attributes include: top and bottom color, gender, age, hat, whether glasses are worn, sleeves, bottoms, backpack, direction, etc.

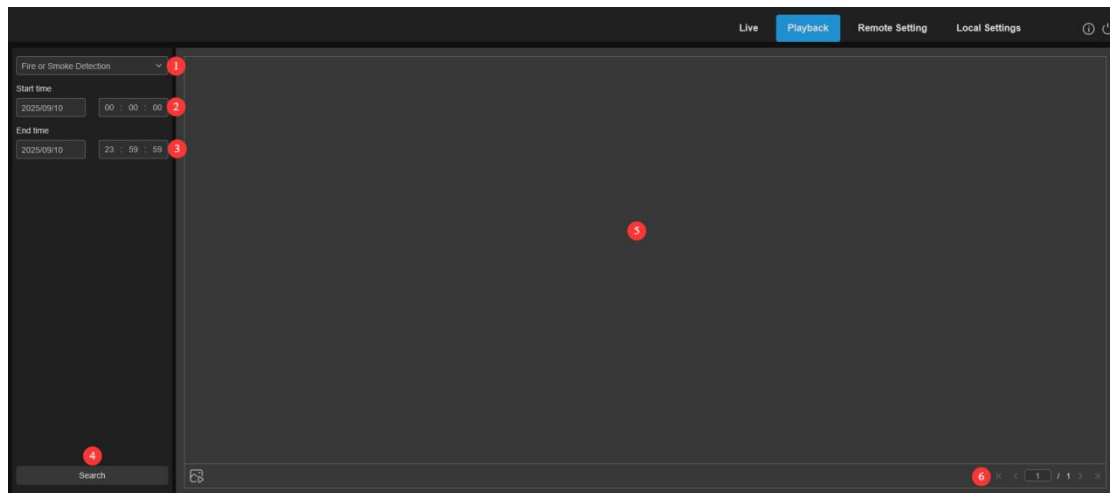
10.Search: Search for Exit Region images according to search settings.

11.Search Result Display Area: Display the desired search result.Double-click the picture will play the video after and before the picture.

12.Search result Flip: Scroll through search result at the lower right corner.

7.5.8 Fire&Smoke Detection

After the camera turns on the smoke and fire detection function, it will detect smoke and fire and issue an alarm, and record pictures or video information for easy search and viewing. The interface effect is shown in the below picture.



1. Search Mode Switch: Switch the current search function. The current search mode is Fire&Smoke detection.

2. Start Time: Set the start time for searching for Fire&Smoke detection screenshots.

3. End Time: Set the end time for searching for Fire&Smoke detection screenshots.

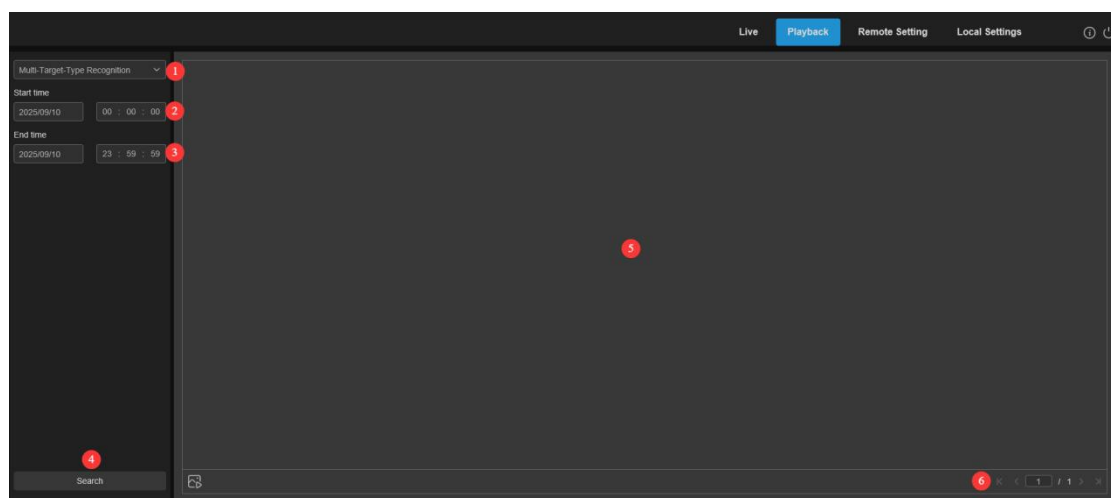
4. Search: Search for Fire&Smoke detection screenshots based on the search settings.

5. Search Results Display Area: Display the search result requested by the customer. Double-clicking an image will play back a short period of time before and after the detection.

6. Search Results Page: Click the lower right corner to page through the search result.

7.5.9 Multi-Target-Type Recognition (Supported on some cameras)

After the camera turns on the Multi-Target-Type Recognition function, it will detect the target and issue an alarm, and record pictures or video information for easy search and viewing. The interface effect is shown in the below picture.



1. Search Mode Switch: Switch the current search function. The current search mode is Multi-Target-Type Recognition.

2. Start Time: Set the start time for searching for Multi-Target-Type Recognition screenshots.

3. End Time: Set the end time for searching for Multi-Target-Type Recognition detection screenshots.

4. Search: Search for Multi-Target-Type Recognition detection screenshots based on the search settings.

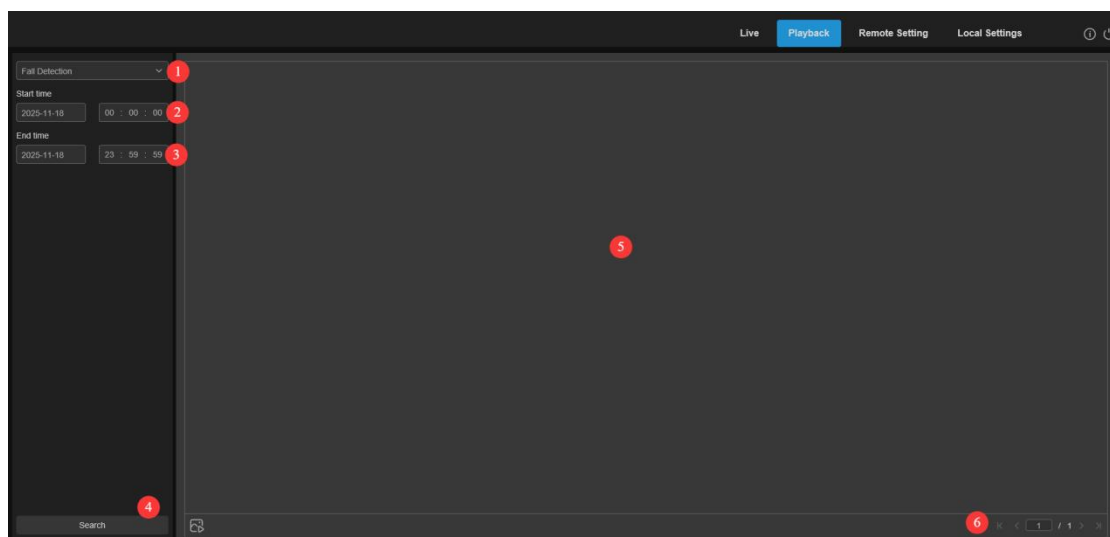
5. Search Results Display Area: Display the search result requested by the customer.

Double-clicking an image will play back a short period of time before and after the detection.

6. Search Results Page: Click the lower right corner to page through the search result.

7.5.10 Fall detection

After enabled Fall detection function, the camera detects somebody falls, it triggers an alarm and records images or video footage for easy search and review. The interface is shown in the below picture.



1. Search Mode Switch: Switch the current search function. The current search mode is Fall detection.

2. Start Time: Set the start time for searching for Fall detection screenshots.

3. End Time: Set the end time for searching for Fall detection alarm screenshots.

4. Search: Search for Fall detection alarm screenshots based on the search settings.

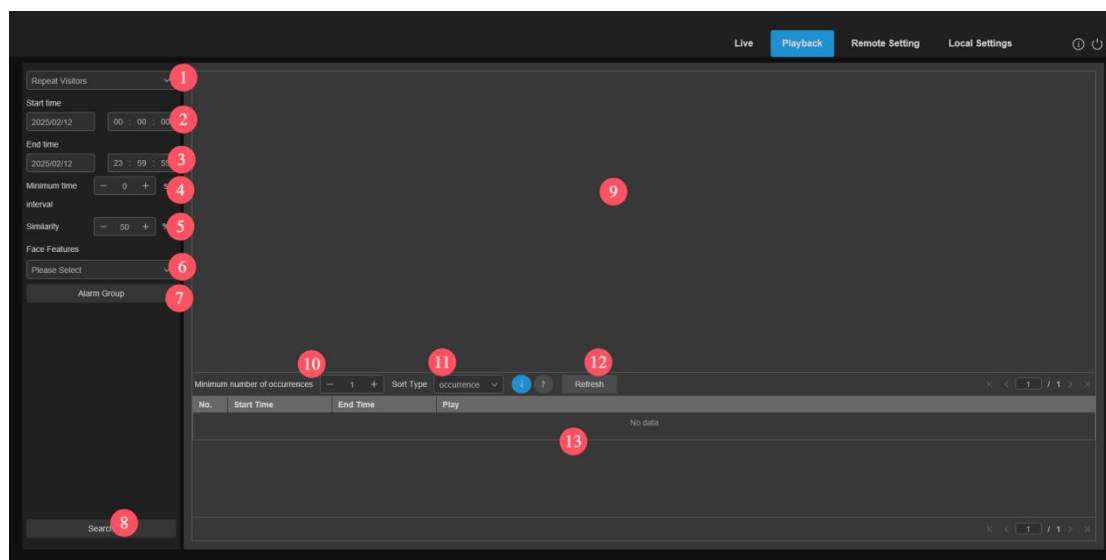
5. Search Results Display Area: Display the search result requested by the customer.

Double-clicking an image will play back a short period of time before and after the detection.

6. Search Results Page: Click the lower right corner to page through the search result.

7.5.11 Repeat Visitors

The face recognition function can not only provide alarms in real time, but also deeply dig into data to meet customer needs. For example, a camera is installed in a certain area of the mall, the repeat visitors function allow to check whether a customer stops to check out goods in this area. also monitor an area to check if a suspected target is frequently seen in that area. The repeat customer function screen is shown in the below picture.



1. Switch search mode: Switch the current search function. The current search mode is Repeat customer.

2. Start time: Set the start time to search for face images.

3.End time: Set the end time to search for face images.

4.Minimum time interval: Set the minimum time interval of capturing the same object twice to increase the search accuracy.

5.Similarity: Set the lowest similarity between other images and the reference image while matching repeat customers.

Note: This setting takes effect only when Alarm Group is unchecked for the current function.

6.Face Features: Filter searched images according to facial characteristic values.

Note: The search will be applied on all images when this option is not set. When this option is set, only captured images with Face Features enabled are searched.

7.Alarm Group: Identify repeat customers according to group settings in the database.

Note: All images will be searched when no group limitations are set. In this case, the similarity setting takes effect. Stranger information will be ignored when group limitations are set.

8.Search: Search for the information of captured images according to settings.

9.Search Result Display Area: Display the search result in a stacked manner.

Double-click on the displayed image information will list the stacked images on the bottom, and click on the corresponding image again will jump to its quick playback.

10.Minimum number of occurrences: Filter search result by number of occurrences.

You have to click Refresh to update the display.

11.Sort Type: Sort search result chronologically or by capture count in ascending or descending sequence. You have to click Refresh to update the display.

12.Refresh: Refresh the sorting in your IE according to Minimum number of

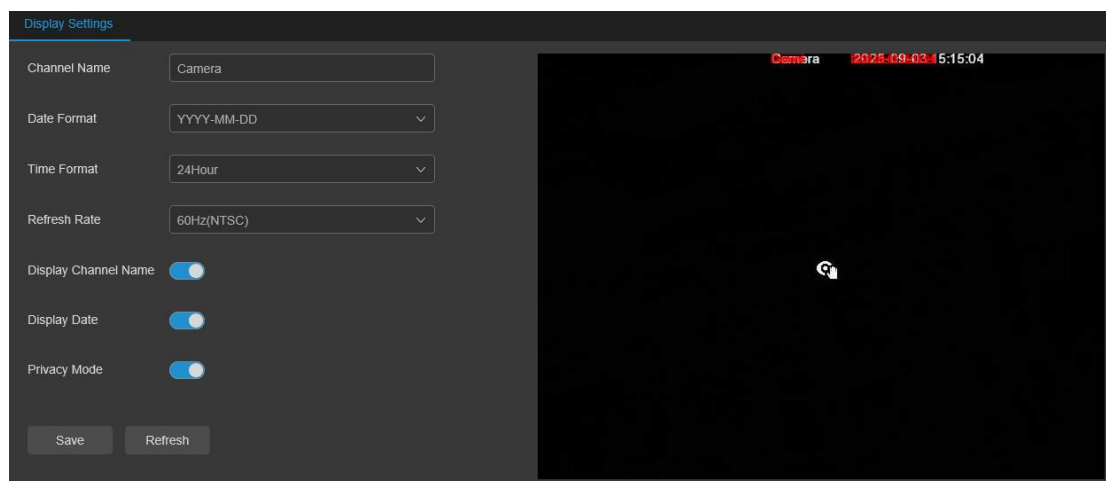
occurrences and Sort Type.

13.Secondary Search Result Display Area: Display captured images of selected objects in the form of event list according to the information selected in the search result display area. click the **Play** button to go to quick playback.

Chapter 8 Remote Setting

8.1 Display Settings

The Live interface is to set the channel name, device time, Cross Counting and other intelligent function statistics and image overlay position, its interface is shown in the below picture.



Channel Name: Set the camera channel name

Date Format: Set the date format displayed by the camera OSD, there are three types: MM/DD/YYYYY, YYYY-MM-DD and DD/MM/YYYYY.

Time Format: Set the time format of the camera's OSD display, there are two types: 12-hour and 24-hour.

Refresh Rate: Set the refresh rate of the camera, there are two options, 60Hz and 50Hz, corresponding to NTSC and PAL system.

Display Channel Name: The preview shows the camera channel name.

Display Show Time: The preview shows the camera time.

Privacy Mode: Privacy Mode. When Privacy Mode is enabled, there is no image in preview and playback, and the preview image is not displayed in the Settings page.

Show Channel Name Position: Set the position where the channel name is displayed by dragging the channel name on the image.

Display Time Position: Set the position of the channel time display by dragging the channel time on the image.

Display Alarm Statistics Position: Set the position of the channel alarm statistics display by dragging the channel alarm statistics on the image. This setting is only displayed when the function that supports alarm statistics display is turned on.

Save: Save the current changes

Refresh: Retrieve the current interface parameters.

8.2 Image Settings

Image settings is the direct control to modify the graphic parameters, such as full color mode to B/W mode , wide dynamic, backlight supplement, etc. The interface is shown in the below picture.

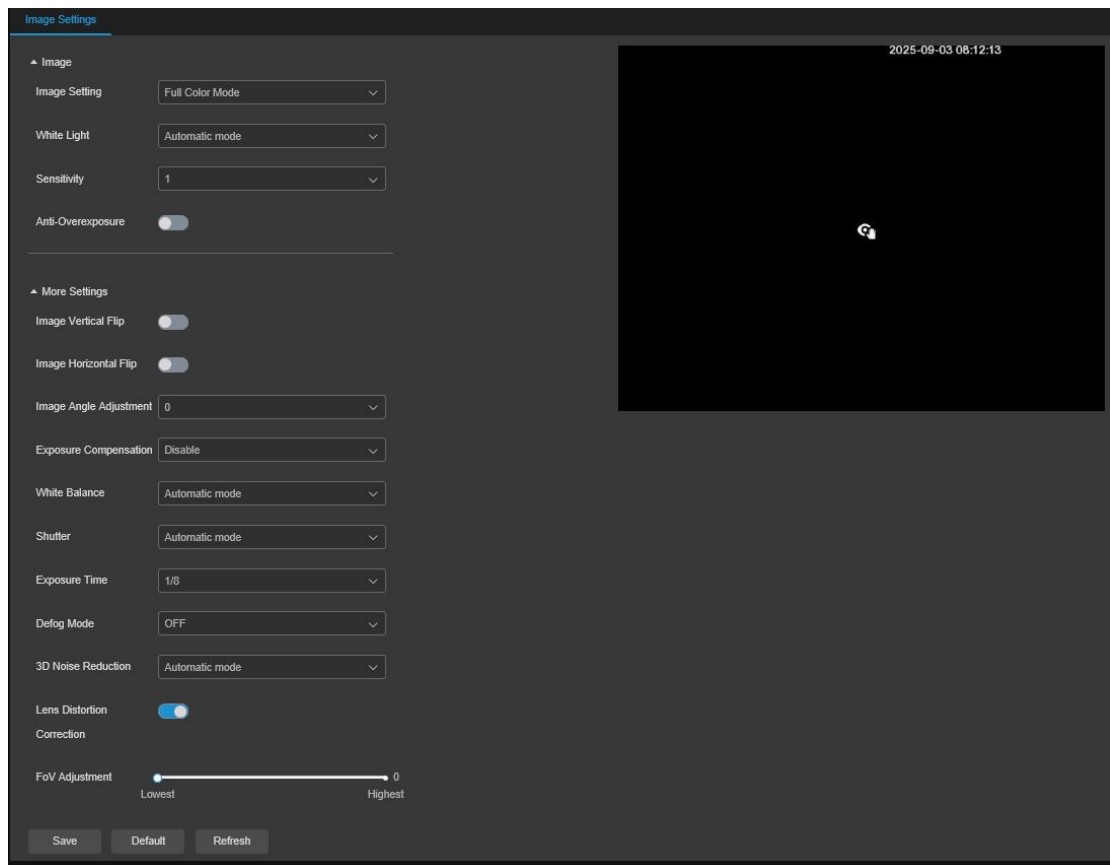


Image Setting: Set the camera image mode, there are 3 modes.

Full Color Mode: The camera is in full Color mode.

Day/Night Mode: The camera is in Day/Night mode.

Smart Illumination: The camera in night vision mode when the camera triggers an alarm will be linked to the warm light for fill light, the image is in color. the end of the alarm the camera back to night vision mode.

White Light: Under Full Color Mode, set the fill light effect of the camera's warm light, there are 4 modes in total.

Automatic mode: automatic mode, the camera automatically adjusts the strength of the fill light according to the ambient illumination.

Manual: Fill in the environment with a fixed brightness value.

Schedule: automatically switch on/off the warm light for fill light by setting the time schedule.

OFF: Disbale the warming light.

Sensitivity: Sensitivity 0 to 3, the camera's perception of ambient light, the higher the value the more sensitive.

Light Distance: Range 0 to 100, **White Light** is the brightness of the fill light in **Manual** mode, the higher the value, the higher the brightness.

IR-CUT Mode: Set the camera **day/night** switching mode under Day/Night Mode, there are 5 modes.

Auto/GPIO Auto: Auto control switching mode, color switching black and white by image judgement, black and white conversion color by photosensitive judgement.

Day/Color Mode: Force to color mode without switching between black and white.

Night/Black White Mode: Force to black and white mode without switching color.

Image/Image Mode: Similar to Auto Mode, control the mode of color to black and black to color by image.

Schedule/Schedule(B/W): Switch between black and white and color by schedule setting. To turn on this function, you need to set the start and end time of entering night vision.

IR LED Control: Set the fill light effect of the camera's IR LED in night vision, with 3

modes.

Smart IR: Intelligent control of infrared lamp fill light intensity, according to the focal length, whether the screen is over the explosion of dynamic control of infrared lampsThe fill light.

Manual: Manual mode to fill in the light with the set IR lamp brightness.

OFF: No light is used for fill.

Low/High Beam Light: Manually adjust the brightness of the IR LED (0 to 100, when set to 0 the IR lamp does not light up, and when set to 100 it is the brightest).

Anti-Overexposure: When turned on in all image modes, this function prevents overexposure of images in high-brightness surrounding.

Corridor Mode: The image is rotated 90 degrees clockwise. (Some models support corridor mode)

Image Angle Adjustment: Image rotation setting, the camera can be adjusted by this value in certain usage scenarios where the camera is inverted from the preset, e.g. designed to be used upside down, but in reality it is used in a flat position.

Image Vertical Flip: To make the image of the screen interact up and down.

Image Horizontal Flip: Mirror mode in horizontal direction so that the images of the screen interact left and right.

Exposure Compensation: Configure the camera's backlight behaviour across four distinct modes.

WDR: Wide Dynamic Range in which the picture is uniformly balanced based on the setting and both light and dark areas can be clearly distinguished.. (DWDR

in some models)

HLC: Strong light rejection function, which makes objects in the high light area clearer in the picture according to the set HLC Level value. (Not supported by some models)

Back Light: Make the dark areas of the screen clearer according to the set BLC Level value and BLC Area.

Disable: No exposure compensation optimisation is performed on the picture frame.

White Balance: White balance setting with two modes.

Automatic mode: Adjust the warming light using default parameters

Manual: Actively set the synthetic gained warming light of red, green, and blue.

Shutter: Set the length of shutter exposure. (Some models have support for aperture setting. Those that do not have support for aperture setting have only automatic and manual modes)

Automatic mode: The programme automatically selects an appropriate exposure time and aperture value according to the currently set Time Exposure and Iris range.

Manual: Directly uses the currently set Time Exposure time and Iris aperture value.

Shutter First: Shutter First is the aperture value obtained by metering the camera with a manually defined shutter.

Iris First: Aperture priority, where the size of the aperture is defined manually and the camera's metering is used to obtain the corresponding shutter value.

Note: The exposure time in shutter manual mode removes the flickerless option, the exposure time in shutter auto mode opens the flickerless option, and if you switch to manual mode again, the exposure time will automatically switch to 1/100 or 1/120.

Exposure Time: Set the exposure time of the camera, used in combination with Shutter. When the exposure time is long, the image will be overblown, and when the exposure time is short, the image will be dark.

Defog Mode: Turn it on to make the picture clearer in rainy and foggy weather.

3D Noise Reduction: Reduces noise in the image to make the picture clearer, with three modes:

Automatic mode: The camera automatically selects the noise reduction effect according to the algorithm.

OFF: Noise cancellation is not switched on.

Manual: Noise reduction is performed according to the manually set noise reduction coefficient.

DIS: Digital Image Stabilisation, through software algorithms to reduce or eliminate image instability, blurring, etc. caused by equipment jitter, shaking and other factors, so as to make the captured images smoother and clearer, to enhance the viewing experience of the screen, according to the setting of the value of the DIS Level to make the image smoother and clearer (some models support)

Lens Distortion Correction: Distortion correction. Enabled to improve near image distortion (Supported by some models).

FoV Adjustment: Aberration correction intensity level. Different correction levels can be selected, ranging from 0 to 5.

Save: Save the parameters for image editing.

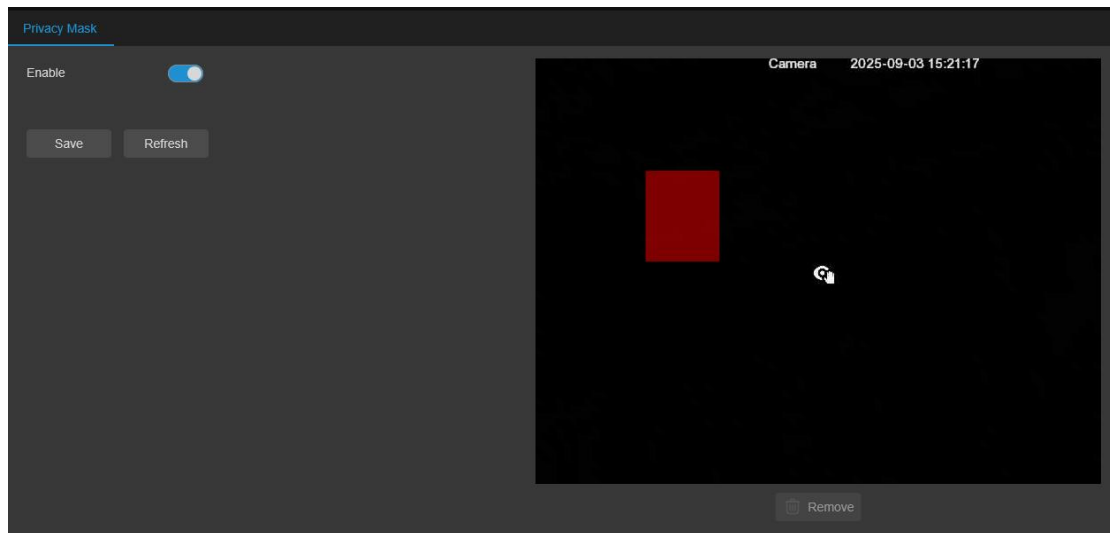
Default: Restore the image control parameters to the default.

Refresh: Retrieve image parameters.

8.3 Privacy Mask

If you want to cover some specific areas of the image screen, this function will allow you to create 4 or 6 (some models support the creation of 6) privacy zones of any size and location.

Enable the switch and select the area where privacy needs to be enabled. The area appears as a "red box". Click on the edge of the red box and drag it to any size to create the privacy area.



Enable: Enable/Disable the Privacy Mask function.

Privacy Mask Area Setting: Set the areas to be tampered in the monitoring screen. The tampered blocks are red while setting and will turn to black after they take effect. Set four tampering block.

Remove: Delete selected video cover block.

Note: With the privacy area set, the screen covered by the privacy area is not visible during preview and playback.

8.4 Video Parameters

This menu is allowed to configure the parameters of the screen preview and the recording parameters.

8.4.1 Record parameters

This menu is configured the parameters related to record.

The screenshot shows a settings interface with a dark background. At the top, there are five tabs: 'Record' (highlighted with a blue underline), 'Mainstream', 'Substream', 'Thirdstream', and 'Audio'. Below the tabs, the 'Record' section contains a 'Stream Mode' dropdown menu with 'Mainstream' selected. Below the dropdown are three toggle switches: 'Record' (turned on), 'PreRecord' (turned on), and 'Netbreak' (turned off). At the bottom of the section are two buttons: 'Save' and 'Refresh'.

Stream Mode: Select the recording mode. The video stream saved in the SD card.

The default settings is mainstream.

Record: Check to enable recording.

PreRecord: If this option is enabled. The camera will start recording a few seconds before an alarm event occurs. This option is recommended for users whose main type of recording is based on Motion detection or I/O alarms.

Netbreak: Event recording is also performed when the network is diskonnected or the connection fails.

8.4.2 Video parameters

This menu is allowed to configure the image quality parameters for recorded video or network transmission. Typically, the Master Stream is the quality of the recorded video that will be saved in the HDD. the Sub Stream is the quality of the preview

video that will be accessed remotely (e.g. by web clients and VMS). The third stream (Third stream can be optionally disabled) defines the quality of the preview viewed via remote access using a mobile device.

The screenshot shows a configuration window for video recording with the following settings:

Record	Mainstream	Substream	Thirdstream	Audio
Resolution	1920 x 1080			
Frame Rate	25			
Encoding Format	H.265			
Video Code Level	Main Profile			
Encoding Mode	VBR			
Video Quality	Medium			
Config Mode	Predefined			
Bitrate	256			Kbps
I Frame Interval	50			(1 ~ 100)
Audio	☒			

Buttons: Save, Default, Refresh

Resolution: This parameter indicates the resolution of the recorded image.

Frame Rate: This parameter indicates the number of frames recorded by the camera.

Encoding Format: Channel decoding type, there are H264, H265, H264+, H265+ and MJPEG.(MJPEG mode only exist in sub stream mode)

Video Code Level: Video quality level with Bestline, Main Profile and High Profile.
(Main Profile only when H265).

Encoding Mode: Select the bitrate level. For simple scenes, such as a grey wall, Constant Bit Rate (CBR) is appropriate. For more complex scenes, such as busy streets, Variable Bit Rate (VBR) is appropriate.

Config Mode: If you want to set the bitrate yourself, select "User Defined" mode. If you want to select a preset bitrate, select "Preset Mode".

Bitrate: This parameter corresponds to the data transfer speed that the camera uses to record the video. Higher bitrate videos will have better quality.

I Frame Interval: Set the I frame interval of the camera.

Audio: Enable this option if the user wants to record audio and video at the same time and connect a microphone to the camera or use a camera with audio capabilities.

Save: Save the parameters of the video encoding.

Default: Restore the video encoding parameters to the default.

Refresh: Refresh the video encoding parameters.

8.4.3 Audio Management

This menu allows you to adjust the device volume.

Record Mainstream Substream Thirdstream **Audio**

Audio Input Type MicIn

Output Volume 9

Input Volume 9

Audio Encoding G711A

Sampling Rate ⓘ 16000

Save Refresh

Audio Input Type: Select the audio input type, there are MicIn and LineIn. MicIn means the audio is input through the microphone of the device, LineIn means the audio is input through the tail line of the device (supported by some models).

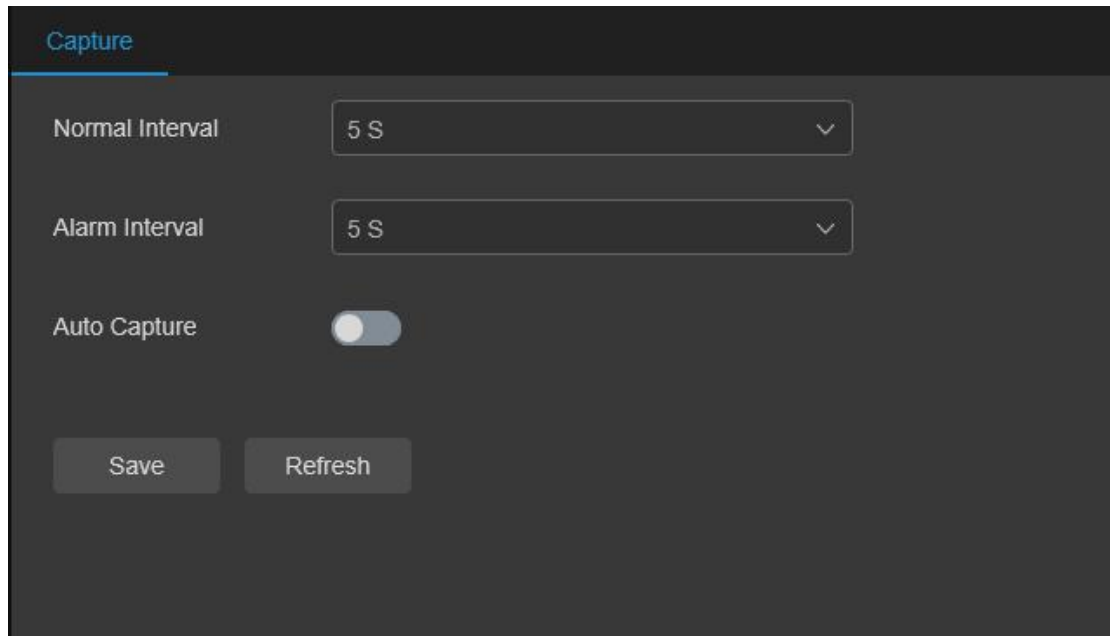
Output Volume: Set the volume of the output audio.

Input Volume: Set the volume of the input audio.

Audio Code Type: Set the audio decoding type, support G711A and G711U.

8.5 Capture Settings

This menu is allowed to configure the parameters related to the auto capture function.

A screenshot of a web interface for 'Capture' settings. The title 'Capture' is at the top left in blue. Below it, there are three settings: 'Normal Interval' with a dropdown menu showing '5 S', 'Alarm Interval' with a dropdown menu showing '5 S', and 'Auto Capture' with a toggle switch that is currently turned off. At the bottom, there are two buttons: 'Save' and 'Refresh'.

Normal Interval: The interval between captures in normal recording.

Alarm Interval: The capture interval for images upon triggering of motion detection and IO alarm.

Auto Capture: Enable/disable auto capture.

8.6 PTZ

This menu is allowed to configure the PTZ parameters of the PTZ and control the rotation of the PTZ through the RS485 interface (supported by some models).

The image shows a configuration window titled 'PTZ' with a dark background. It contains six dropdown menus arranged vertically. The first menu is 'Protocol' with 'Pelco-D' selected. The second is 'Baudrate' with '9600' selected. The third is 'Data Bit' with '8' selected. The fourth is 'Stop Bit' with '1' selected. The fifth is 'Parity' with 'None' selected. The sixth is 'Address' with '48' selected. At the bottom left, there are two buttons: 'Save' and 'Refresh'.

Setting	Value
Protocol	Pelco-D
Baudrate	9600
Data Bit	8
Stop Bit	1
Parity	None
Address	48

Protocol: Select the communication protocol between PTZ and camera.

Baudrate: The speed at which information is sent from the camera to the head.

Make sure that this setting is the same as the speed of the gimbal

DataBit / StopBit: The messages between camera and PTZ are sent in separate packets. DataBit indicates the number of bits sent, while EndBit indicates the end of the packet and the beginning of the next (information) packet. The available parameters for DataBit are: 8, 7, 6, 5, it is recommended to use the default value 8. The available parameters for StopBit are 1 or 2, it is recommended to use the default value 1.

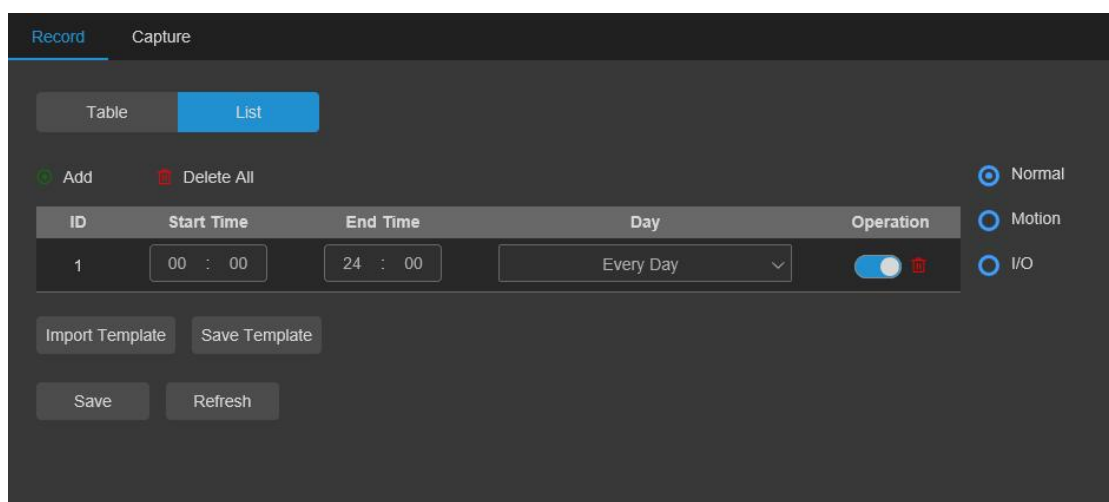
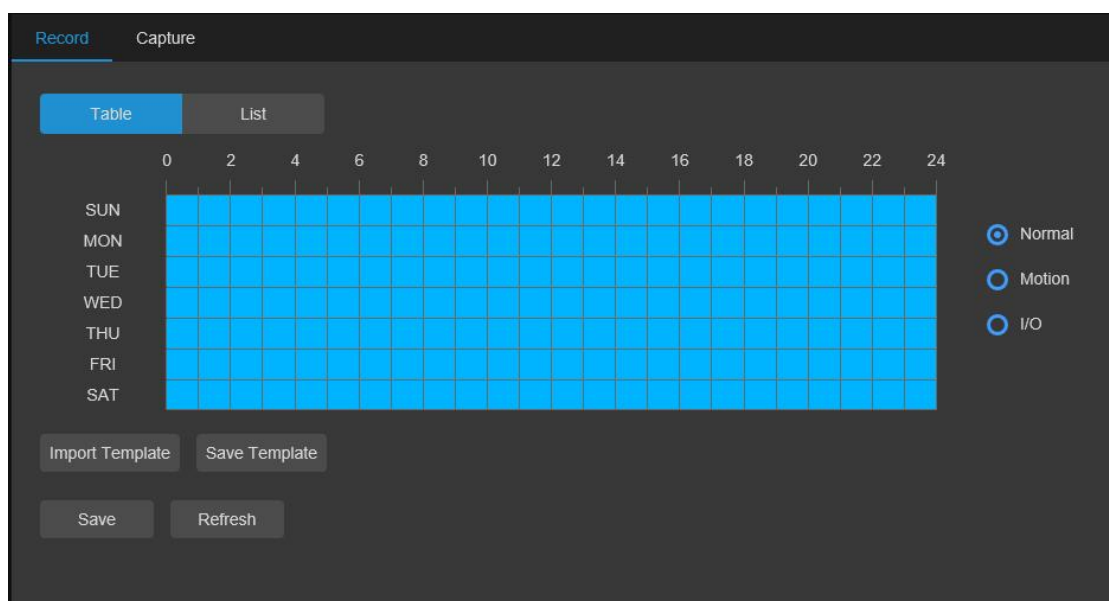
Parity: If an error occurs. See the documentation for the head unit to configure this setting. (Parity, default None)

Address: address code, when the device is configured with multiple analogue protocols, the address code cannot be repeated.

8.7 Schedule Setup

8.7.1 Record Schedule

Set up normal and alarm recording schedule for a set period of time.



Table/List: The schedule is presented in table form or list form. Click on Normal, Motion or I/O on the right side to switch between different types of video

schedules.

Select **Table** form and drag or tick the corresponding time period in the table to set the corresponding time schedule.

Select **List form** to set the corresponding time schedule by manually adding rules and entering the start and end time periods.

Add: Add a schedule rule.

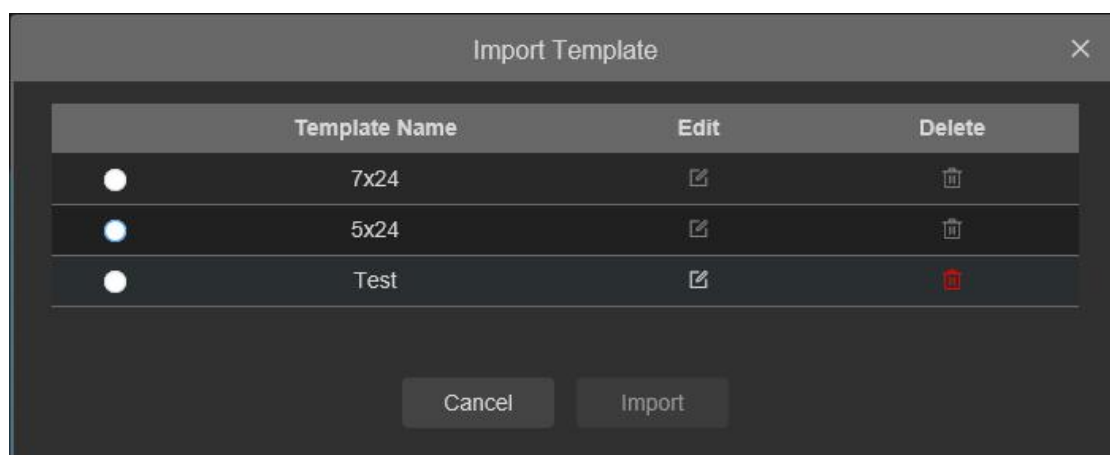
Delete All: Delete all schedule rules.

Start Time: Set the schedule rule start time.

End Time: Set the end time of the schedule rule.

Day: Set the period for the schedule rule to take effect.

Import Template: Import a custom or system default schedule template.



Edit: Edit this schedule template to modify the template name and specific schedule rules.

Delete: Delete this schedule template.

Note: The system supports two schedule templates, 7x24 and 5x24 by default, which cannot be edited or deleted.

The 'Test' dialog box contains a 'Template Name' field with the value 'Test'. Below it are 'Add' and 'Delete All' buttons. A table lists three schedule rules:

ID	Start Time	End Time	Day	Operation
1	00 : 00	24 : 00	SUN FRI SAT	☒
2	00 : 00	03 : 00	MON TUE WED THU	☒
3	08 : 00	24 : 00	MON TUE WED THU	☒

At the bottom are 'Cancel' and 'Apply' buttons.

Save Template: Save the schedule template, save the currently set schedule rule as a custom template, and import the template in other schedule setting pages.

The 'Save Template' dialog box has a 'Template Name' field containing 'Test' and a 'Save' button at the bottom.

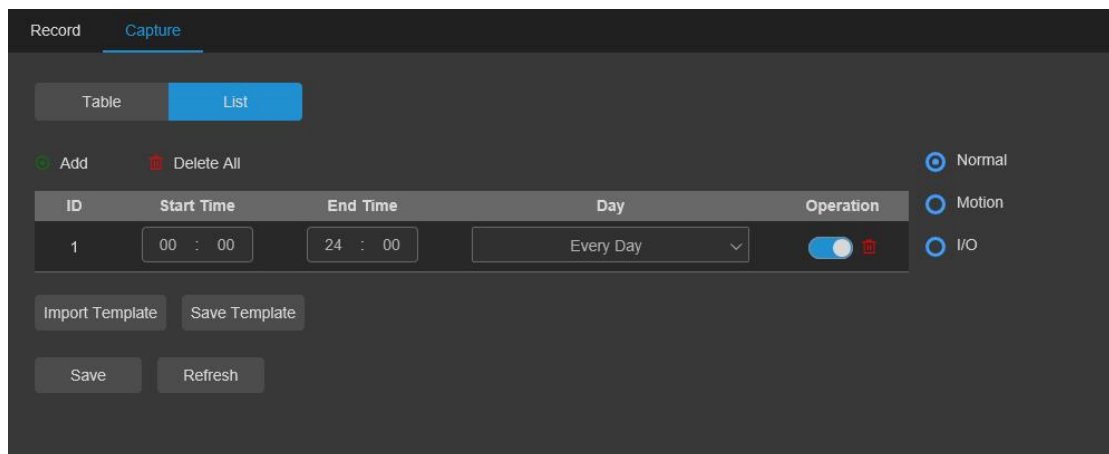
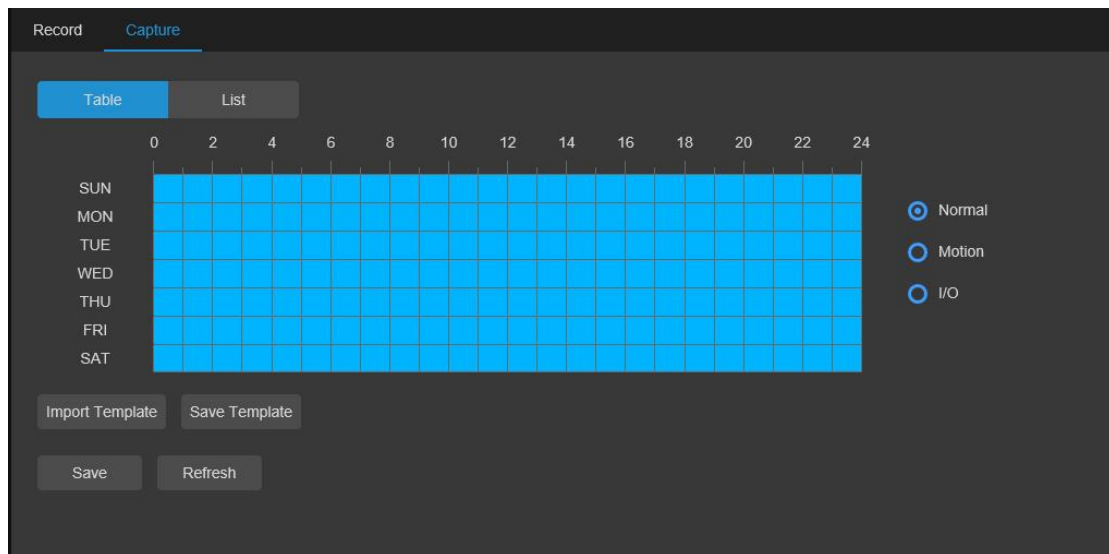
Save: Save the edited parameters.

Copy: Copy the parameters to other channels.

Refresh: Retrieve the parameter.

8.7.2 Capture Schedule

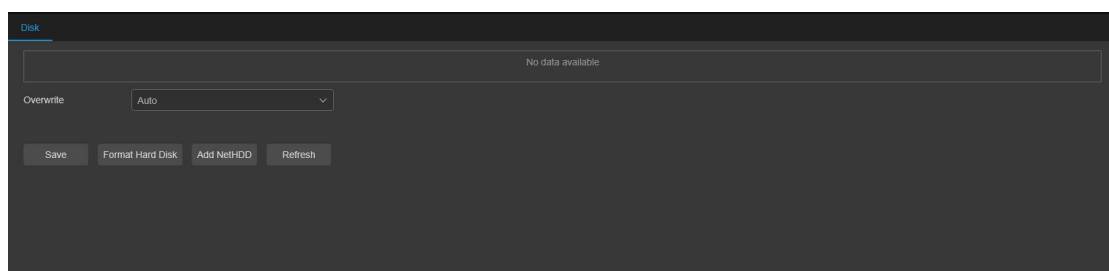
Set up normal and event capture schedules to execute capture actions during the set time period.



Reference to chapter 8.7.1 Record Schdeule.

8.8 Disk Management

This menu is allowed to check and configure the internal TF card. Formatting is only required for initial access and when replacing a new TF card.

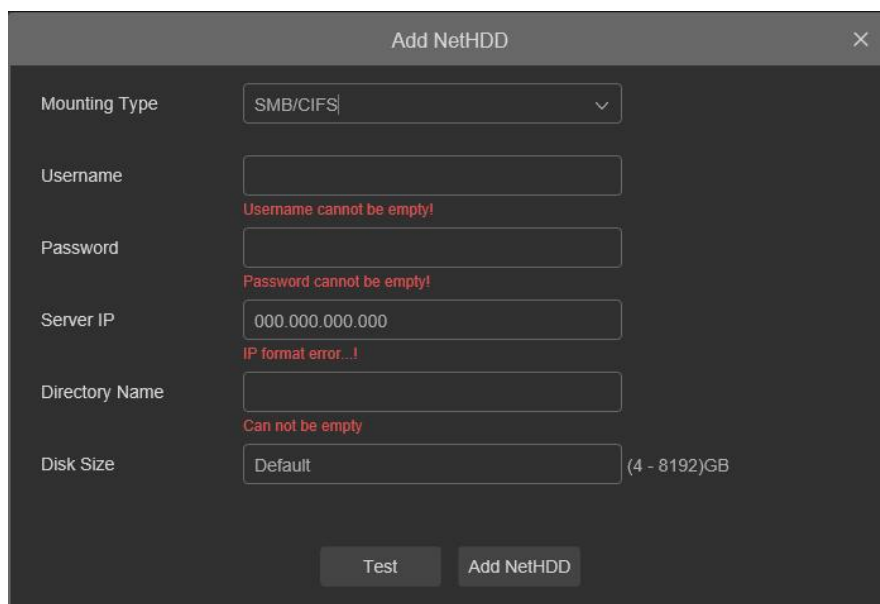


Format Hard Disk: Select the SD card to be format, and then click Format SD Card.

To start formatting, enter your username and password and then click OK.

Overwrite: This option to overwrite old records in the SD card when the SD card is full. If Auto is selected, the oldest data will be automatically overwritten when the SD card is full. Select OFF if you do not want to overwrite any old videos. If this function is disabled, check the status of the SD card periodically to ensure that the SD card is not full.

ADD NetHDD: This function is allowed to add a network HDD. After a network HDD (NAS) is configured, connect the NAS to the Internet to record channel videos or capture images. The AI face database can only be stored in the HDD.



Mounting type: There are two options, including NFS and SMB/CIFS. Among them, NFS does not need username and password, but SMB/CIFS needs.

User Name: Specifies the username of NAS (unavailable in NFS mode).

Password: Specifies the password of NAS (unavailable in NFS mode).

Server IP: Specifies the IP address of NAS.

Directory Name: Specifies the folder where you want to store data in the NAS.

Disk Size: Specifies the size of the network HDD.

Test: Test the connectivity of NAS.

Add NetHDD: Click this option to add NAS.

8.9 FTP Server Settings

This menu is allowed to enable the FTP server in order to view pictures and videos uploaded from the camera to FTP on the FTP server.

The screenshot shows the 'FTP' settings interface. It includes a title bar 'FTP' and a list of configuration options. 'FTP Enable' is a toggle switch. 'FTP Protocol' is a dropdown menu. 'Server', 'Username', 'Password', and 'DIR Name' are text input fields. 'Port' is a numeric input field with a range indicator '(1 ~ 65535)' and up/down arrows. 'Transfer images' and 'Transfer videos' are toggle switches. At the bottom, there are three buttons: 'Save', 'Test', and 'Refresh'.

FTP Enable: Click to enable the FTP function.

FTP Protocol: Modify the FTP protocol, there are two protocols: FTP and SFTP.

Server: Enter the IP address or domain name of the user's FTP server.

Port: Enter the FTP port.

Username/ Password: Enter the user's FTP server username and password.

Transfer images: When checked, the alarm images will be uploaded to the FTP server.

8.10 I/O settings

8.10.1 Alarm Input settings

This is an optional feature that is only available if the user's device supports I/O sensors and an external I/O alarm device is connected.

Alarm input		Alarm Output		
Alarm Input No.	Type	Enable	Settings	Edit
Local<-1	Normally-Open	Disable	Disable	⌵
Save		Refresh		

Set the I/O input alarm parameters, click **Edit** icon to enter the setting page.

Advance

Alarm Input No.

Local<-1

Settings

Input

Alarm Type

Normally-Open

Post Recording

5 S

Schedule

Linkage

Table

List

024681012141618202224

SUN

MON

TUE

WED

THU

FRI

SAT

Import Template

Save Template

Alarm Input No.: Select the input source for I/O alarm.

Settings: Enable or disable the I/O input alarm function.

Alarm Type: Select the input alarm type.

Post Recording: Set the length of time the device continues to record after triggering an alarm, the default settings is 5 seconds.

Schedule: Set the schedule for the I/O input alarm function to take effect. Refer to 8.7 Schedule Setup.

Advance

Alarm Input No. Local<-1

Settings Input

Alarm Type Normally-Open

Post Recording 5 S

☐ Schedule ☒ Linkage

☒ Normal Linkage

☐ Alarm Output

☐ Email

☐ FTP Picture Upload

☐ FTP Video Upload

☒ Event Push Platform

☒ Recording Channel

☐ Light

☐ Siren

☐ Notification

☐ Local->1

Linkage: Set the I/O input alarm linkage function.

Email: Send an email to the configured mailbox when an alert is triggered.

FTP Picture Upload: Upload the alarm picture to the FTP server after the alarm is triggered.

FTP Video Upload: Upload the alarm video to the FTP server after the alarm is triggered.

Click on the settings button, next it gives the option to upload to FTP server after alarm is triggered.

Event Push Platform: After an IO alarm occurs, the event is pushed to a third-party service platform with default selection enabled. For detailed settings, refer to Section 8.23.2.

Light: When warning light is enabled, warning light will illuminate for warning light deterrence when an alarm is triggered.

Warning Light: When warning light is enabled, warning light will be illuminated as a deterrent when an alarm is triggered.

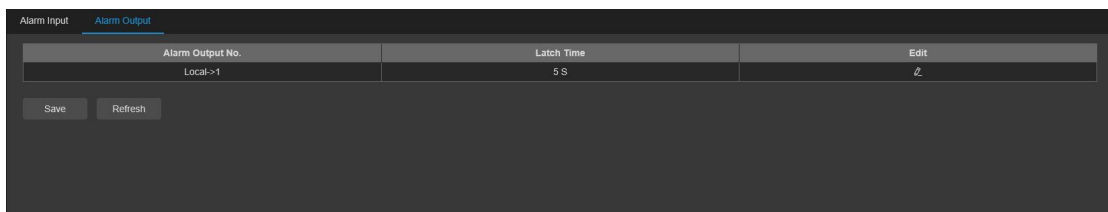
Siren: When enabled, alarm will sound for deterrence when triggered.

Notification: Custom alarm, for specific settings refer to section 8.14.22 Alarm linkage settings.

Trigger Alarm Out: Check the alarm output source, the I/O alarm output will be performed when the alarm is triggered. Refer to 8.10.2 Alarm Output Settings.

8.10.2 Alarm Output settings

To set the alarm linkage I/O output parameters, click **Edit** to enter the setting page



Alarm Output No.	Latch Time	Edit
Local->1	5 S	

Save Refresh

Advance

Alarm Output No.

Local->1

Latch Time

5 S

Alarm Status

Close

Table

List

024681012141618202224

SUN

MON

TUE

WED

THU

FRI

SAT

Import Template

Save Template

Trigger

Alarm Output No.: Select the I/O output source for alarm linkage.

Latch Time: Set the duration of I/O linkage output when the alarm is triggered.

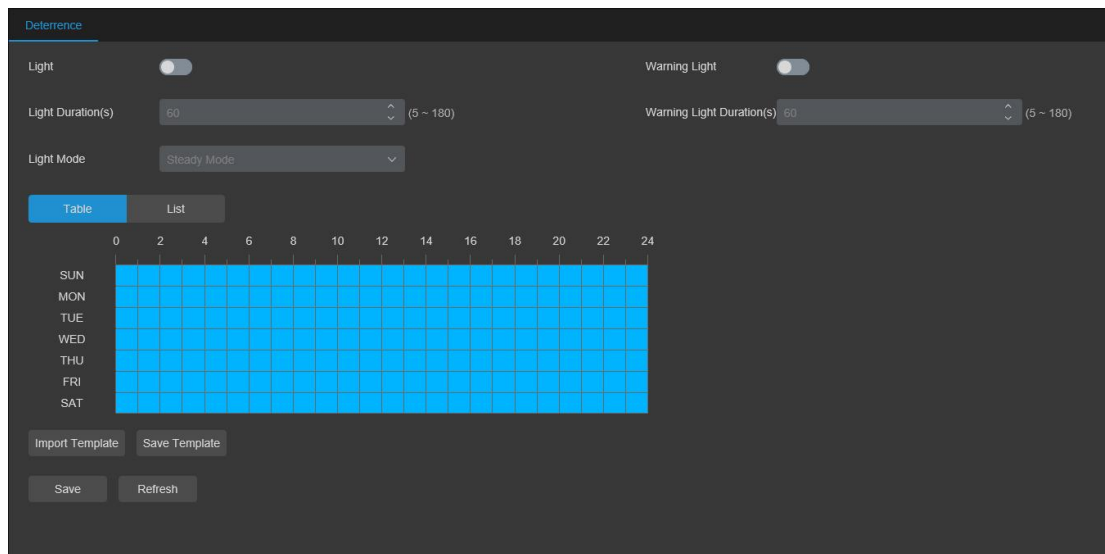
Schedule: Set the schedule for the alarm linkage I/O output function to take effect.

Refer to chapter chapter 8.7 Schdeule Setup.

8.11 Deterrence Settings

When the camera supports warming light, warning light function, this menu can be configured deterrent parameters. when the alarm is triggered linked to the deterrent, the light will be lit in accordance with the configured parameters of the

way to alarm. The interface is shown in the below picture.



Note: When the camera supports warming light and the image control is set to full-color mode, the warming light parameters such as Light are greyed out and cannot be set. when the image control is set to day/night mode, this interface parameter can be set. when the image control is set to smart night light mode, the Warning Light parameter is greyed out and cannot be set.

Light: Enable/disable the warming light.

Light Duration (s): The duration of the warming light.

Light Mode: Set the warming light mode, there are 2 modes.

Steady Mode: Always on mode, the warming light is always on when deterring.

Flashing Mode: Flashing mode, the warming light flashes at a set frequency during deterrence.

Warning Light: Turn the warning warning lights on and off.

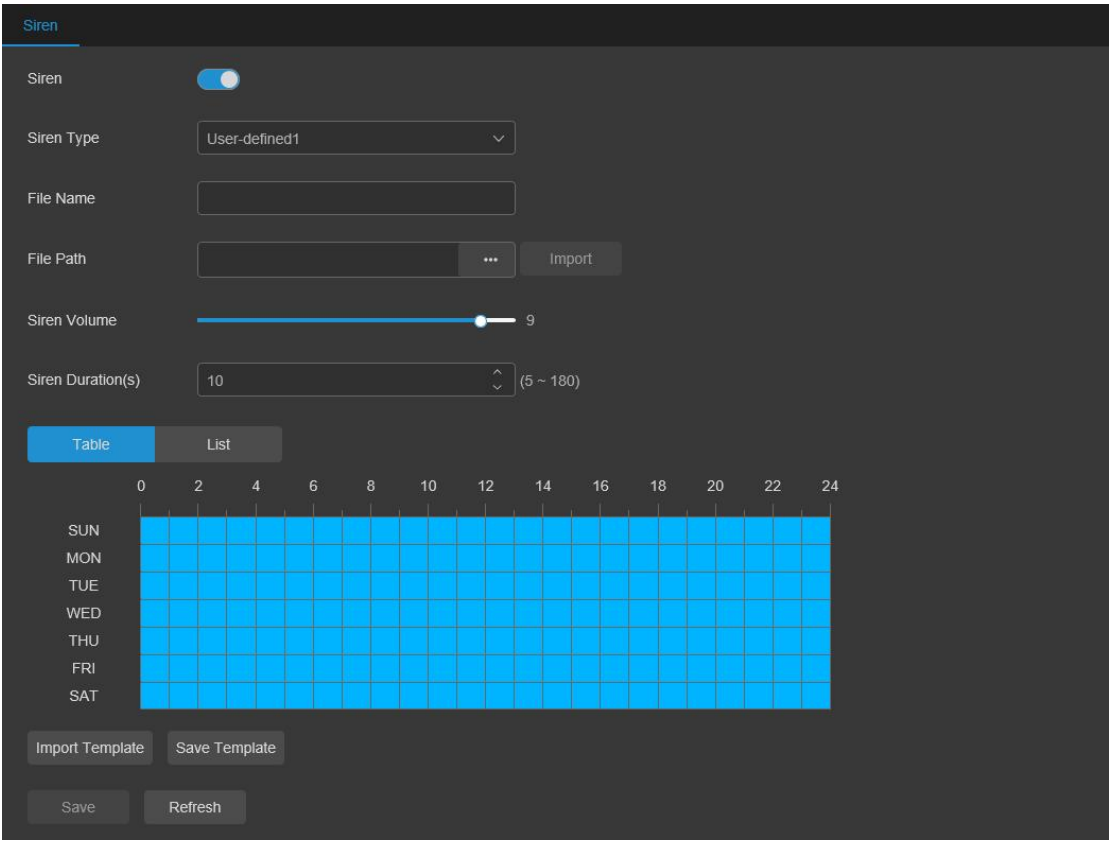
Warning Light Duration (s): The duration of the warning lights.

Schedule: Setting up the schedule for when the warm-up and warning lights will

take effect. Refer to chapter 8.7 Schdeule Setup.

8.12 Siren Settings

When the camera supports siren This menu is allowed to configure alarm-related parameters. when the alarm is triggered by the linkage deterrent, the alarm will be turned on for deterrence automatically. The interface is shown in the below picture.



Siren: Enable or disable the siren switch.

Siren Type: Change the audio file of the siren.

Default provides two audio files, in addition to support the import of three custom pcm and wav audio file types, the imported file audio sampling rate can not

exceed 8000HZ, the file size can not exceed 256k. selected custom imported audio file on the right side of the Delete button, click on the current audio file can be deleted (**Note:** Some models support this feature).

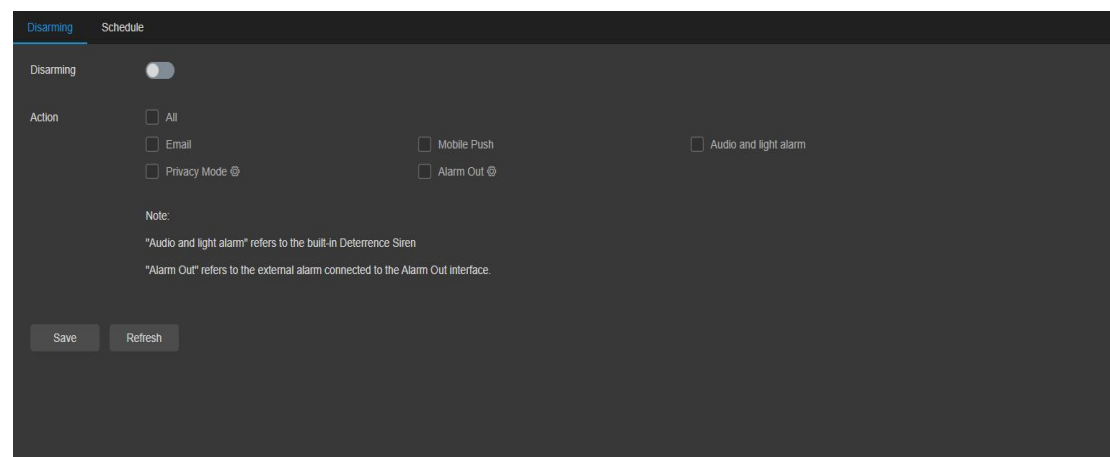
Siren Volume: Alarm sound volume level, supports 1 to 10 adjustable levels.

Siren Duration(s): The duration of the alarm sound, support 5~180 seconds adjustable.

Schedule: Set the schedule of the effective time of the alarm. Refer to chapter 8.7 Schdeule Setup.

8.13 Disarming

Enabling the disarm function can revoke the response of the device to all kinds of alarm linkage, this menu can set the disarm switch, type, schedule and other related parameters.



Disarming: Enable or disable the disarming function.

Action: IPC local alarm linkage type.

All: Select or clear all types.

Email: When disarming function is enabled, tick the mailbox alarm to trigger the

alarm without sending alarm email.

Mobile Push: When disarming function is enabled, tick Mobile Push to trigger the alarm, the device will not push the alarm message to APP.

Audio and light alarm: When disarming function is enabled, the alarm is triggered when this option is ticked, and the warning lights, warm-up light and siren do not respond.

Privacy Mode  : When disarming function is enabled, tick **Privacy Mode** and IPC will enable privacy mode (Only multi-channel devices support channel setting).

Alarm Out  : When disarming function is enabled, check Alarm Out to trigger alarm, external alarm output device is not effective.

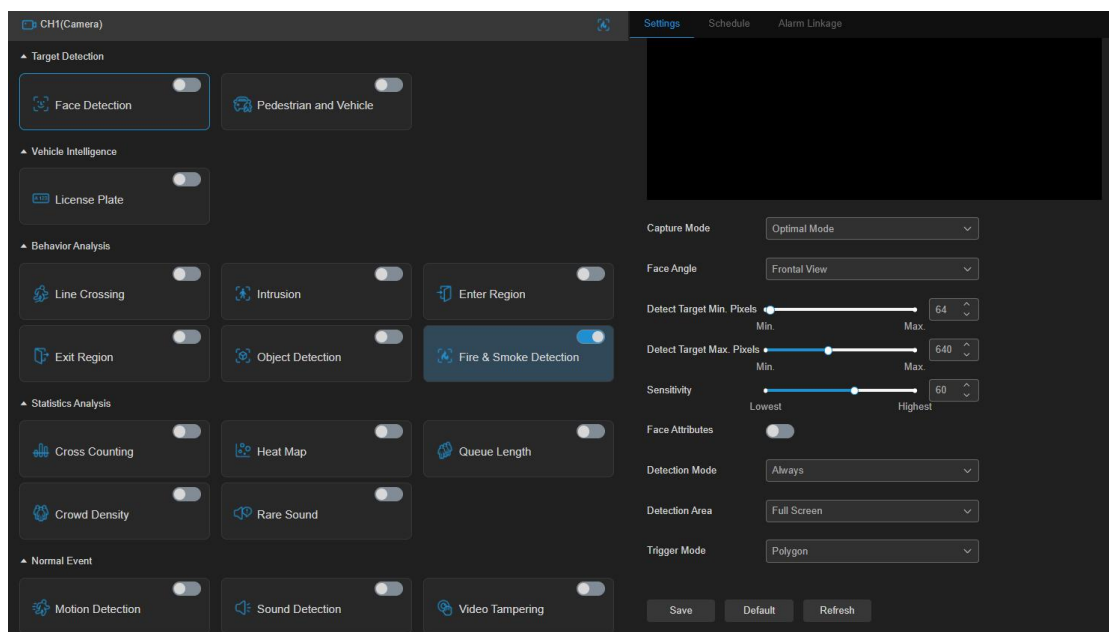
Schedule: Set the schedule for the effective time of disarming. Refer to chapter 8.7 Schdeule Setup.

8.14 Event Settings

The camera uses AI intelligent alarm, you need to open the corresponding alarm function in the Setup menu first. Opening the function needs to consume the computing power of the camera, due to the limitations of the performance of the camera. Some of the AI functions do not support simultaneous opening, please refer to the relevant limitations of the specific model prompt shall prevail.

8.14.1 Face Detection

The face detection function is to detect the face target through the camera first, get the captured image that meets the requirements, then calculate the face feature data of the captured image through the face model algorithm, and then compare it with the face database for alarm. You need to enable the face detection function first.



Face Detection: Enable Face Detection function.

Capture Mode: Set the snap mode. receive push notifications in live view or connect an NVR to check the image effect. The program supports three Snap Modes.

Optimal Mode: The camera only pushes an image that it considers best from detecting an object until the object disappears.

RealTime Mode: When detecting an object, the camera immediately pushes an image, and then pushes the best image when the object disappears.

Capture Interval: Set the snap number and the snap and push interval as

required. The options for Snap Num include 1, 2, 3, and unlimited. The Snap Frequency ranges from 1s to 255s. For example, when the snap frequency is set to 5s, an image is pushed at 5s, 10s and 15s when the object is detected.

Face Angle: Screen the captured images. That is, only the captured images that meet angle setting will be pushed. There are three mode options.

Frontal View: Only the frontal view of an object is pushed.

Multi Angle: Choose to push images containing only side faces.

Customize: Customize the angle of an object for which images can be pushed. If this function is enabled, Roll Range, Pitch Range, Yaw Range, and Picture Quality options, as well as Frontal Default and Multi Default buttons will be available.

Roll Range: Set the roll range of the captured face image in the 3D model. When the angle does not meet the setting limit, face detection can be carried out but the image will not be pushed.

Pitch Range: Set the pitch range of the captured face image in the 3D model. When the angle does not meet the setting limit, face detection can be carried out but the image will not be pushed.

Yaw Range: Set the yaw angle of the captured face image in the 3D model. When the angle does not meet the setting limit, face detection can be carried out but the image will not be pushed.

Picture Quality: High quality images are good for filtering out detected non-face images.

Frontal Default Apply Mode: Selecting Customize displays the control, setting the values for Push Angle to Range: 30, Pitch Range: 30, Yaw Range: 45, and Picture Quality: 100.

Multi Default Apply Mode: Selecting Customize displays the control, setting the

values for Push Angle to Range: 180, Pitch Range: 180, Yaw Range: 180, and Picture Quality: 100.

Detect Target Min Pixels: Set the minimum recognition pixel frame. The face has to be larger than the set pixel to be recognition. When the mouse moves to the progress bar, the image preview on the right side will show the actual size of the pixel frame, and drag the pixel frame to set it at the same time, and the pixel frame in the image preview disappears when the mouse moves away for 5 seconds.

Detect Target Max Pixels: Set the maximum recognition pixel frame. The face has to be smaller than the set pixel to be recognition. When the mouse moves to the progress bar, the right image preview will show the actual size of the pixel frame, and drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame disappears in the image preview.

Sensitivity: The higher the sensitivity, the missed alarms will decrease, but the false alarms will increase.

Face Enhance: Face Enhance switch to increase the capture effect on moving targets. It also adjusts the brightness according to the face closest to the camera to optimise the capture effect (supported by some models).

Face Attribute: Identify the attributes of the detected faces, including age, gender, mask, glasses, and expression. **Note:** You need to open this function to use Face Features alarm.

Dynamic Mosaic: Dynamic mosaic: Applies a blurred mosaic effect to detected faces, which dynamically adjusts in real-time as the face moves, scales, or rotates, always covering the target head to protect personal privacy.

Detection Mode: Filter the performance of detected objects in the camera. There

are two mode options.

Hybrid Mode: Allow to face detection for all objects in the view.

Motion Mode: Allow to filter out Motionless faces, such as such as portraits and statues in the scene.

Bounding Box: Display face detection box, detect rule line switch (supported by some models).

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Trigger Mode: Set the detection rule line type. There are two rule types.

Rectangle: Allow to detect only face objects in the set area.

Line: Face objects are tracked only when the detection line is crossed according to settings.

Detection Area: Setting options are changed when the detection area is used to recognize objects by default. There are two modes.

Full Screen: All areas that can be monitored by the camera are detected.

User-defined: Only user-defined boxed areas are detected.

Rule Number: Rule number selection, support to set 4 detection rule areas.

Rule Switch: Rule enable switch, each detection rule has an independent enable switch, associated with the currently selected Rule Number.

Rule Type: The setting item is available only when using the over-line detection mode, and there are two detection trigger modes: $A \rightarrow B$ and $B \rightarrow A$.

Rule Line Setting Area: According to the parameter setting, set the detection area or detection trigger line in this area.

Add: Add a default detection rule in the setting area.

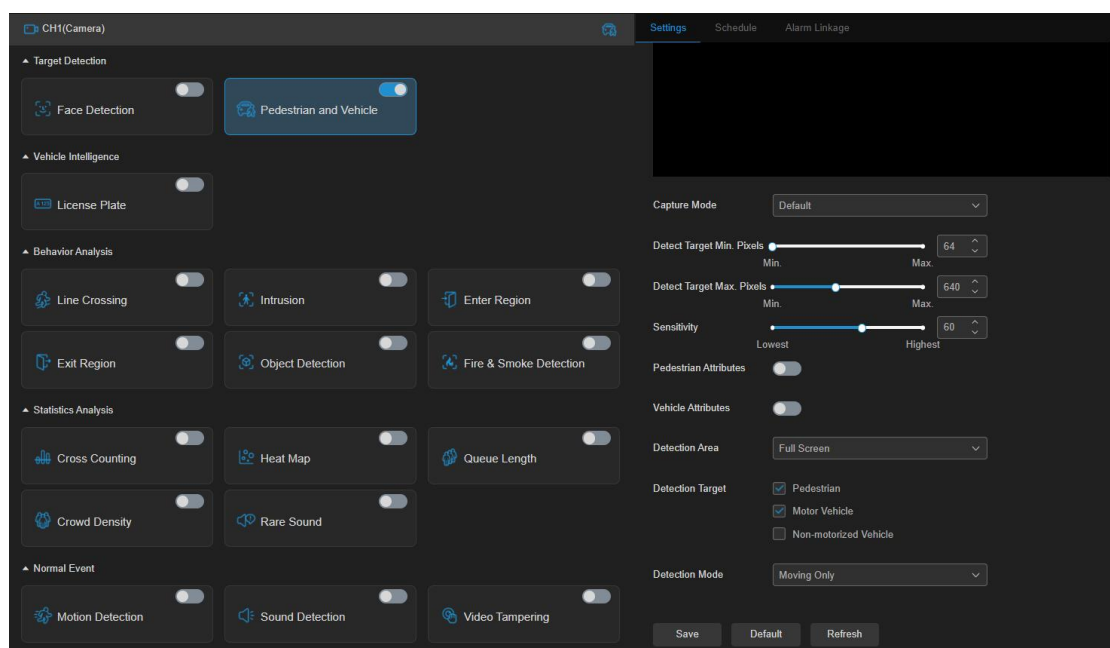
Draw: Manually draw a detection rule in the setting area.

Remove: Remove a detection rule from the setting area.

Remove All: Remove all detection rules in the setting area.

8.14.2 Pedestrian and Vehicle

Pedestrian detection and vehicle detection function, used to recognize pedestrian or vehicles in the view, generate an alarm, and record capture images, according function settings.



Pedestrian and Vehicle: Enable Pedestrian and Vehicle detection function.

Capture Mode: Set the snap mode. receive push notifications in live view or connect NVR to check the image effect. The program supports three Snap Modes.

Default: The camera pushes only one pedestrian or vehicle image from detecting an object until the object disappears.

RealTime Mode: When detecting an object, the camera immediately pushes one image, and then pushes another image when the object disappears.

Interval Mode: Push pictures for a set number of times according to the set push interval. When using Snapshot Mode as Interval Mode, there are Snapshot Qty and Capture Interval settings:

Snapshot Qty: according to the interval set by Capture Interval, push the image 1, 2, 3, infinite times for the camera thinks it is the same target.

Capture Interval: Push the image according to the set time from the target appearance or last push time.

Detect Target Min Pixel: Set the minimum recognition pixel frame. The pedestrian and vehicle has to be larger than the set pixel to be recognition. When the mouse moves to the progress bar, the image preview on the right side will show the actual size of the pixel frame, and drag the pixel frame to set it at the same time, and the pixel frame in the image preview will disappear after the mouse moves away for 5 seconds.

Detect Target Max Pixel: Set the maximum recognition pixel frame. The pedestrian and vehicle has to be smaller than the set pixel to be recognition. When the mouse moves to the progress bar, the right image preview will show the actual size of the pixel frame, and drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame in the image preview disappears.

Sensitivity: With higher detection sensitivity, pedestrian or vehicle objects can be detected easier, but false alarms may be easily generated.

Pedestrian Attributes: Identify the detected pedestrians based on their attributes,

including top and bottom clothing color, gender, age, hat/glasses/whether they are wearing, sleeves, bottoms, backpacks, and direction.

Detection Target: The options include pedestrian, motor vehicle, non-motorized vehicle, and all.

Detection Mode: Filter object behaviors in the detection area. There are two mode options.

Hybrid Mode: Allow to detect all pedestrians or vehicles in the view.

Motion Mode: Allow to filter out static pedestrians or vehicles.

Bounding Box: A detection box that displays the shape of pedestrian vehicle and detects rule line switches.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Detection Area: Detection area setting, there are two modes.

Full Screen: All areas that can be monitored by the camera are detected.

User-defined: detect only the area selected by user-defined box.

Rule Number: Rule Number selection, supports setting 4 detection rules.

Rule Switch: Rule Enable Switch, each rule has its own enable switch, associated with the currently selected Rule Number.

Rule Line Setting Area: When using the custom detection area mode, setting the detection area of 3-8 sides is supported.

Add: Add a default detection rule in the setting area.

Draw: Manually draw a detection rule in the setting area.

Remove: Removes a detection rule from the setting area.

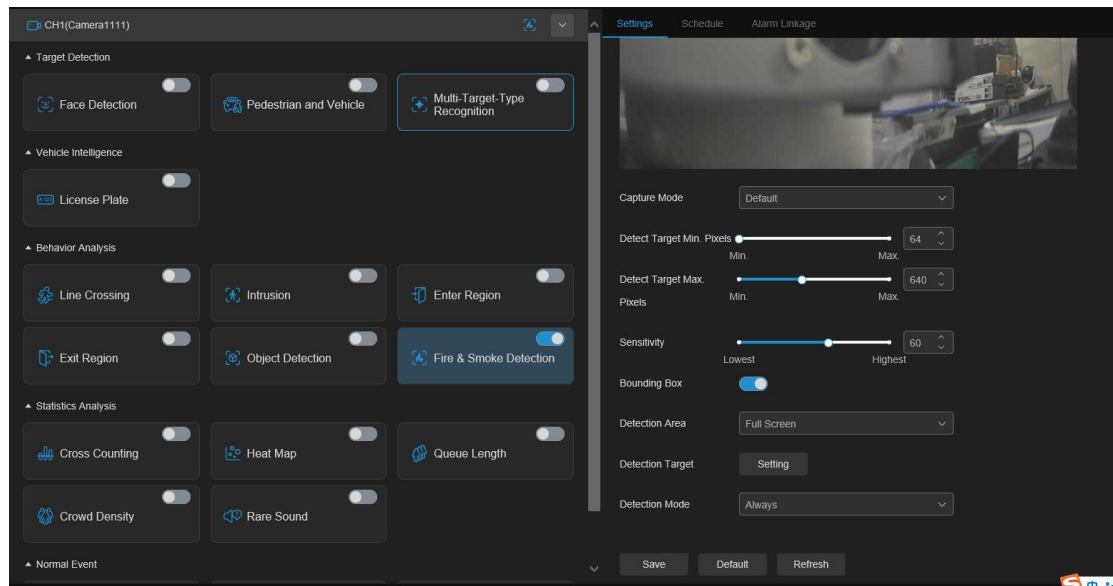
Remove All: Remove all detection rules in the setting area.

In [Global Configuration](#) page includes Long distance mode configuration.

Long Distance Mode: Enable or disable Long distance mode function. After enabling the switch to save parameters, the current camera will be able to apply long distance detection mode logic.

8.14.3 Mutli-Target-Type Recognition

This function uses built-in AI algorithms to analyze video streams in real time and can simultaneously identify multiple different categories of targets in the picture.



Multi-Target-Type Recognition: Enable Multi-Target-Type Recognition function of all objects.

Detect Target Min.Pixels: Based on 1080p resolution, filter out images with heads smaller than the set target. When you hover your mouse over the progress bar, the image preview on the right will display the actual size of the pixel frame. You can also drag the pixel frame to adjust the size. After 5 seconds, the pixel frame disappears from the image preview.

Detect Target Max.Pixels: Based on 1080p resolution, filter out images with heads larger than the set target. When you hover your mouse over the progress bar, the image preview on the right will display the actual size of the pixel frame. You can also drag the pixel frame to adjust the size. After 5 seconds, the pixel frame disappears from the image preview.

Sensitivity: Higher detection sensitivity result in better target detection, but also

higher false alarm rates.

Detection Mode: Target behavior filtering within the detection area. Two modes are available:

Always: Detect all people or vehicles in the frame.

Moving Only: Filter out stationary people or vehicles.

Bounding Box: Display a detection bounding box around the target, enabling or disabling detection rule lines.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Detection Mode: Target behavior filtering within the detection area. Two modes are available:

Always: Detect all people or vehicles in the frame.

Moving Only: Filter out stationary people or vehicles.

Bounding Box: Display a detection bounding box around the target, enabling or disabling detection rule lines.

Detection Target: Target to be detected. You can select pedestrian, vehicle, animal, public facility, transportation vehicle, mobile equipment, kitchen utensils, other, or select all.

Detection Area: Detection area settings. Two modes are available:

Full Screen: Detects the entire camera's monitorable area.

User-defined: Detects only the area defined by a user-defined bounding box.

Rule Number: Select the rule number. Up to four detection rules can be set.

Different detection zones can have different detection types. For example, detection zone 1 can be set for human and vehicle detection. Detection zone 2 can

be set for animal detection.

Rule Switch: Enable or disable the rule. Each rule has a separate enable switch, associated with the currently selected Rule Number.

Rule Line Setting Area: When using the custom detection zone mode, you can set detection zones with 3-8 sides.

Add: Add a default detection rule to the setting area.

Draw: Manually draw a detection rule in the setting area.

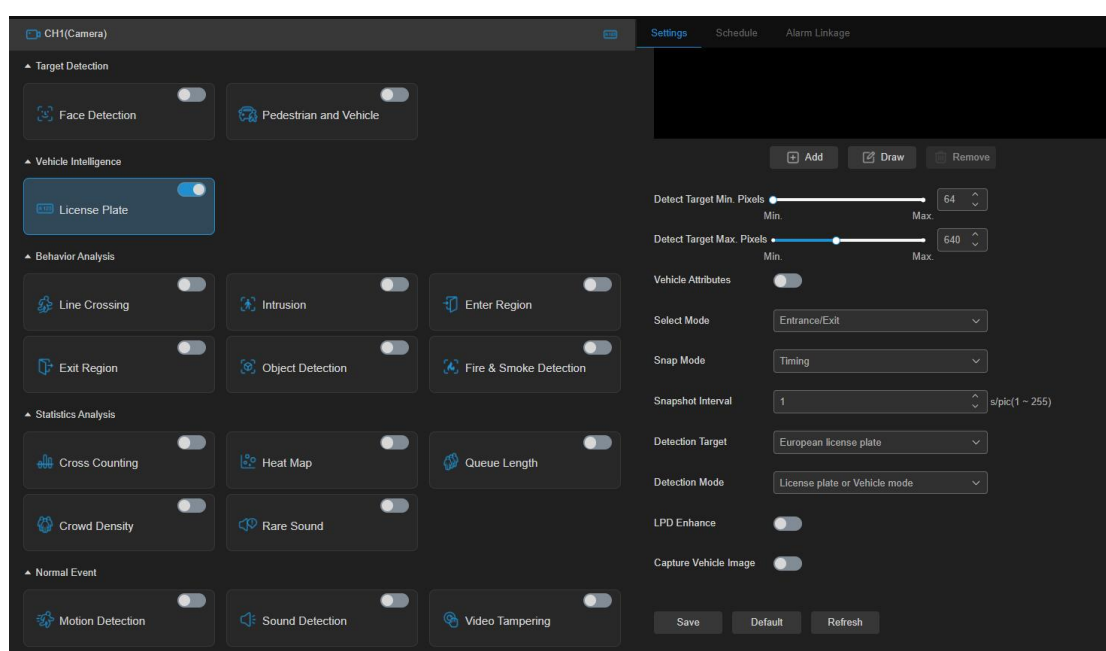
Remove: Delete the selected detection rule.

Remove All: Delete all detection rules in the setting area.

8.14.4 License Plate

The license plate detection function scans passing vehicles' plates to determine if they are unrecognized or already in the database, triggering an alarm accordingly.

Therefore, activating this number plate detection feature is essential first.



License Plate: Enable or disable License Plate detection.

Detect Target Min pixel: The minimum pixel box, the license plate must be larger than the set minimum pixel to be recognition. When the mouse moves to the progress bar, the right image preview will show the actual size of the pixel frame, and drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame in the image preview will disappear.

Detect Target Max pixel: Maximum pixel frame, the license plate has to be smaller than the set maximum pixel in order to be recognition. When the mouse moves to the progress bar, the right image preview will show the actual size of the pixel frame, and drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame in the image preview will disappear.

Detection Target: Type of license plates to be detected. There are two type options.

European license plate: License plates in European region.

American license plate: License plates in American region.

Detection Mode: Set the detection mode options, there are two kinds as below.

Vehicle priority mode: Vehicle priority mode will detect the vehicle first, and then capture the license plate for analysis.

License plate or Vehicle mode: The license plate will be detected and analysis at the same time when the vehicle is detected.

Bounding Box: Display the detection box and detect the rule line switch.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Detection Area: Set the area for license plate detection, there are two kinds as

below:

Full Screen: Detect the whole area monitored by the camera.

User-defined: custom set the detection area.

Rule Line Setting Area: According to the parameter setting, set the detection area or detection trigger line in this area.

Add: Add a default detection rule in the setting area.

Draw: Manually draw a detection rule in the setting area.

Remove: Removes the rule selected in the Rule Settings area.

Snap Mode: Snap mode. Depending on the selected application mode, different snap modes are applied.

Select Mode: Select the application mode based on the actual installation location to improve license plate capture performance. There are three supported modes:

Entrance/Exit: This supports the following three snap modes:

Entrance: When a vehicle enters the detection area and crosses the detection line, an alarm is triggered and a snap is taken.

Exit: When a vehicle leaves the detection area and crosses the detection line, an alarm is triggered and a snap is taken.

Timing: Set the snap interval. When vehicle passes through the detection area and crosses the detection line, an alarm is triggered and a snap is taken at the specified interval.

City Street: This mode supports the following three capture modes:

Entrance: When a vehicle or license plate enters the detection area and crosses

the detection line, an alarm is triggered and a capture is taken.

Exit: When a vehicle or license plate leaves the detection area and crosses the detection line, an alarm is triggered and a capture is taken.

Line Crossing: When a vehicle or license plate crosses the detection line, an alarm is triggered and a capture is taken.

Alarm Input: This mode triggers an I/O signal and requires an external sensor for use.

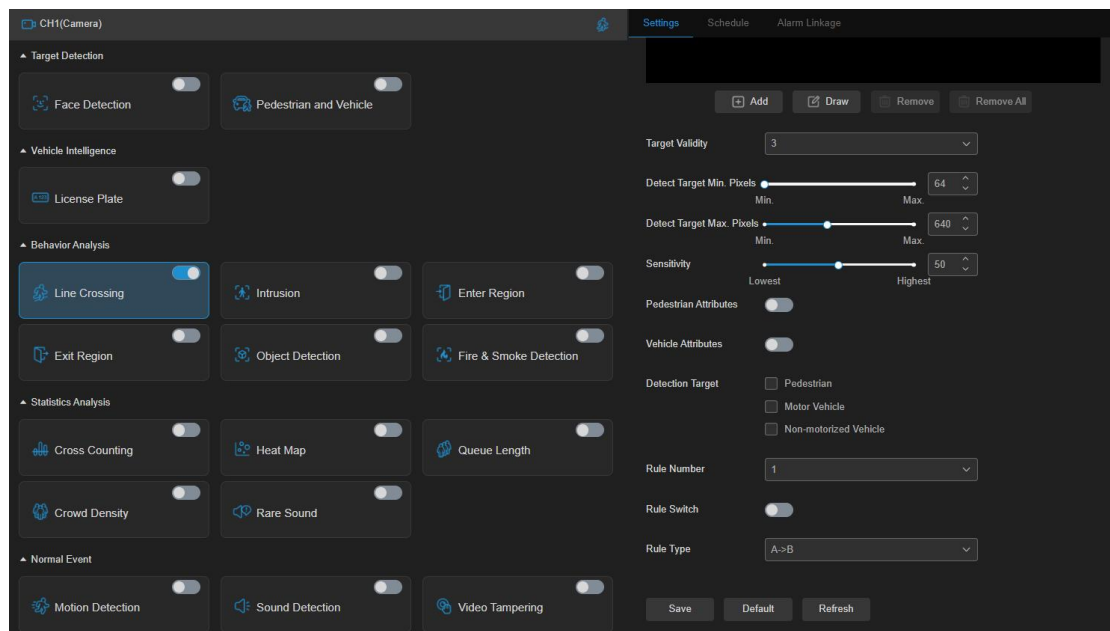
Capture Vehicle Image: This mode controls the vehicle image capture. If this switch is on, even if an alarm is triggered and the license plate cannot be recognized, the vehicle image will be captured and pushed. If this switch is off, even if an alarm is triggered and the license plate cannot be recognized, the vehicle image will not be captured and pushed.

License Plate Enhance: License Plate Enhance can only be switched on when the License Plate Detection function is enabled. When License Plate Enhance is on, the unit will automatically switch to IR-CUT image mode in Day/Night mode, and the settings for Exposure Compensation, Shutter and Exposure Time will be hidden.

Note: When selecting **Entrance/Exit** and **City Street mode**, you need to set the detection line position in the video image. The license plate will be captured only when it touches the detection line. When selecting **Alarm Input mode**, you do not need to set the detection line. When the alarm is triggered, the license plate in the detection area will be captured.

8.14.5 Line Crossing

Line crossing detection function detects Pedestrian and vehicles that cross the set virtual line. When a specific target passes through the preset detection line, an alarm signal is generated.



Line Crossing: Enable or disable Line Crossing detection.

Target Validity: The similarity level between the detection target and the designated detection type: 1 signifies a similarity of 80% or higher, 2 signifies a similarity of 60% or higher, 3 signifies a similarity of 40% or higher, and 4 signifies a similarity of 20% or higher.

Detect Target Min Pixel: Set the minimum recognition pixel box, the target has to be larger than the set pixel to be recognition. When the mouse moves to the progress bar, the image preview on the right side will show the actual size of the pixel frame, and drag the pixel frame to set it, and the pixel frame disappears in the image preview after the mouse moves away for 5 seconds.

Detect Target Max Pixel: Set the maximum pixel frame to be recognition, the target

has to be smaller than the set pixel to be recognition. When the mouse moves to the progress bar, the right image preview will show the actual size of the pixel frame and drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame in the image preview disappears.

Sensitivity: The sensitivity is related to the proportion of the detection target entering the area, the larger the sensitivity setting is for crossing the line, the easier it is to trigger the alarm. For example, if it is set to 100%, the alarm will be triggered when the detection target just touches the boundary of the set area. If it is set to 50%, the alarm will be triggered after 50% of the detection target has crossed the boundary of the set area.

Pedestrian Attributes: Identify the detected pedestrians based on their attributes, including top and bottom clothing color, gender, age, hat/glasses/whether they are wearing, sleeves, bottoms, backpacks, and direction.

Vehicle Attributes: Identify the detected motor vehicle images by attributes such as color, brand, and type (supported by some models)

Detection Target: Set objects for perimeter intrusion detection.

Pedestrian: Line crossing alarm is only triggered for pedestrians.

Motor Vehicle: Line crossing alarm is only triggered for motor vehicles.

Non-motorized Vehicle: Line crossing alarm is only triggered for non-motorized vehicles.

Bounding Box: Display the detection rule line switch.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Rule Number: Rule number selection, Line Crossing function supports to set 4

inspection rule lines.

Rule Switch: Enable switch for rule line, each rule line has its own enable switch, which is related to the currently selected Rule Number.

Rule Type: The rule to be triggered by the rule line, there are three kinds of crossing rules: $A \rightarrow B$, $B \rightarrow A$ and $A \leftrightarrow B$. The setting is related to the currently selected Rule Number.

Rule Line Setting Area: According to the parameter setting, set the detection area or detection trigger line in this area.

Add: Add a default detection rule in the setting area.

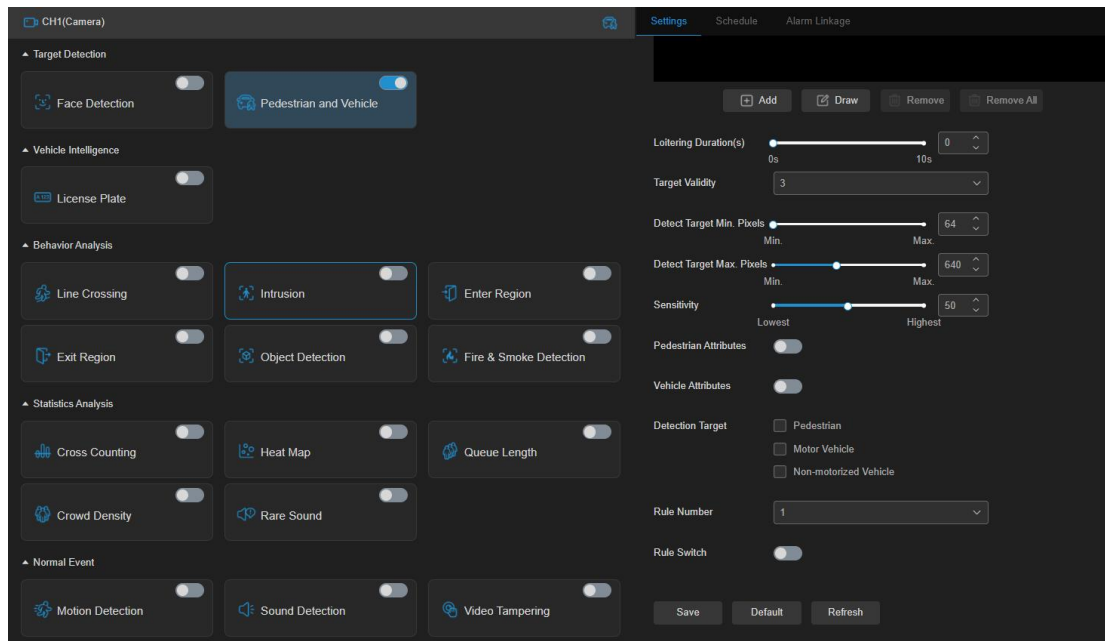
Draw: Manually draw a detection rule in the setting area.

Remove: Removes the rule selected in the Rule Settings area.

Remove All: Remove all rule lines.

8.14.6 Intrusion

Intrusion detection can detect whether there are objects in the video invade the set restricted area, according to the judgement result linkage alarm.



Intrusion: Enable or disable Intrusion detection function.

Loitering Duration: Indicates that the alarm is generated after the target enters the alert area and stays there continuously for that amount of time. For example, if it is set to 1, the alarm will be triggered immediately after the target has invaded the area for 1s, and the maximum length of time can be set to 10s.

Target Validity: The similarity level between the detection target and the designated detection type: 1 signifies a similarity of 80% or higher, 2 signifies a similarity of 60% or higher, 3 signifies a similarity of 40% or higher, and 4 signifies a similarity of 20% or higher.

Detect Target Min Pixel: Set the minimum recognition pixel box, the target has to be larger than the set pixel to be recognition. When the mouse moves to the progress bar, the image preview on the right side will show the actual size of the pixel frame, and drag the pixel frame to set it, and the pixel frame disappears in the image preview after the mouse moves away for 5 seconds.

Detect Target Max Pixel: Set the maximum pixel frame to be recognition, the target has to be smaller than the set pixel to be recognition. When the mouse moves to

the progress bar, the right image preview will show the actual size of the pixel frame, and drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame in the image preview disappears.

Sensitivity: Trigger the sensitivity setting for area intrusion detection, the larger the sensitivity setting, the easier it is to trigger the alarm. The larger the sensitivity setting, the more likely the alarm will be triggered. The sensitivity is related to the percentage of the detection target entering the area. For example, if it is set to 100%, the alarm will be triggered when the target just touches the boundary of the set area. If it is set to 50%, the alarm will be triggered after 50% of the target has already passed the boundary of the set area.

Pedestrian Attributes: Identify the detected pedestrians based on their attributes, including top and bottom clothing color, gender, age, hat/glasses/whether they are wearing, sleeves, bottoms, backpacks, and direction.

Vehicle Attributes: Identify the detected motor vehicle images by attributes such as color, brand, and type (supported by some models)

Detection Target: Set objects for perimeter intrusion detection:

Pedestrian: Intrusion alarm is only triggered for pedestrians.

Motor Vehicle: Intrusion alarm is only triggered for motor vehicles.

Non-motorized Vehicle: Intrusion alarm is only triggered for non-motorized vehicles.

Bounding Box: Display the detection rule line switch.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Rule Number: Rule number selection, intrusion function supports setting 4

detection rules.

Rule Switch: Enable switch for rule line, each rule line has its own enable switch, which is related to the currently selected Rule Number.

Rule Line Setting Area: According to the parameter setting, set the detection area or detection trigger line in this area.

Add: Add a default detection rule in the setting area.

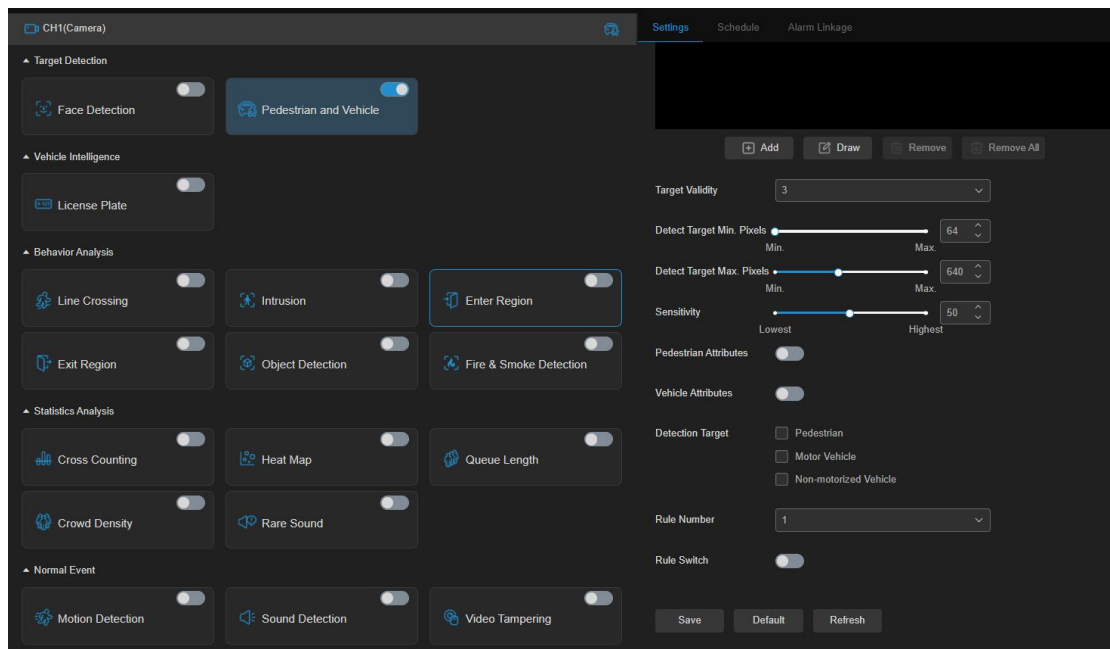
Draw: Manually draw a detection rule in the setting area.

Remove: Remove the rule selected in the Rule Settings area.

Remove All: Remove all rule lines.

8.14.7 Enter Region

Enter Region detection, can detect the target from outside the area into the area, the target generated in the area will not generate alarm, according to the result of the judgement linkage alarm.



Enter Region: Enable or disable Enter Region detection function.

Target Validity: The similarity level between the detection target and the designated detection type: 1 signifies a similarity of 80% or higher, 2 signifies a similarity of 60% or higher, 3 signifies a similarity of 40% or higher, and 4 signifies a similarity of 20% or higher.

Detect Target Min Pixel: Set the minimum recognition pixel box, the target must be larger than the set pixels to be recognition. When the mouse moves to the progress bar, the image preview on the right side will show the actual size of the pixel box, and drag the pixel box to set it at the same time, and the pixel box in the image preview will disappear after the mouse moves away for 5 seconds.

Detect Target Max Pixels: Set the maximum pixel frame to be recognition, the target has to be smaller than the set pixels to be recognition. When the mouse moves to the progress bar, the right image preview will show the actual size of the pixel frame, and drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame in the image preview disappears.

Sensitivity: Trigger the sensitivity setting for area entry detection, the larger the

sensitivity setting, the more likely to trigger the alarm. The sensitivity is related to the percentage of the detection target entering the area, For example, if it is set to 100%, the alarm will be triggered when the detection target just touches the boundary of the set area. If it is set to 50%, the alarm will be triggered after 50% of the target has already passed the boundary of the set area.

Pedestrian Attributes: Identify the detected pedestrians based on their attributes, including top and bottom clothing color, gender, age, hat/glasses/whether they are wearing, sleeves, bottoms, backpacks, and direction.

Vehicle Attributes: Identify the detected motor vehicle images by attributes such as color, brand, and type (supported by some models)

Detection Target: Set objects for Enter Region detection.

Pedestrian: Enter Region alarm is only triggered for pedestrians.

Motor Vehicle: Enter Region alarm is only triggered for motor vehicles.

Non-motorized Vehicle: Enter Region alarm is only triggered for non-motorized vehicle.

Bounding Box: Display the detection rule line switch.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Rule Number: Enter Region function supports setting 4 detection rules.

Rule Switch: Each rule line has its own enable switch, which is related to the currently selected Rule Number.

Rule Line Setting Area: According to the parameter setting, set the detection area or detection trigger line in this area.

Add: Add a default detection rule in the setting area.

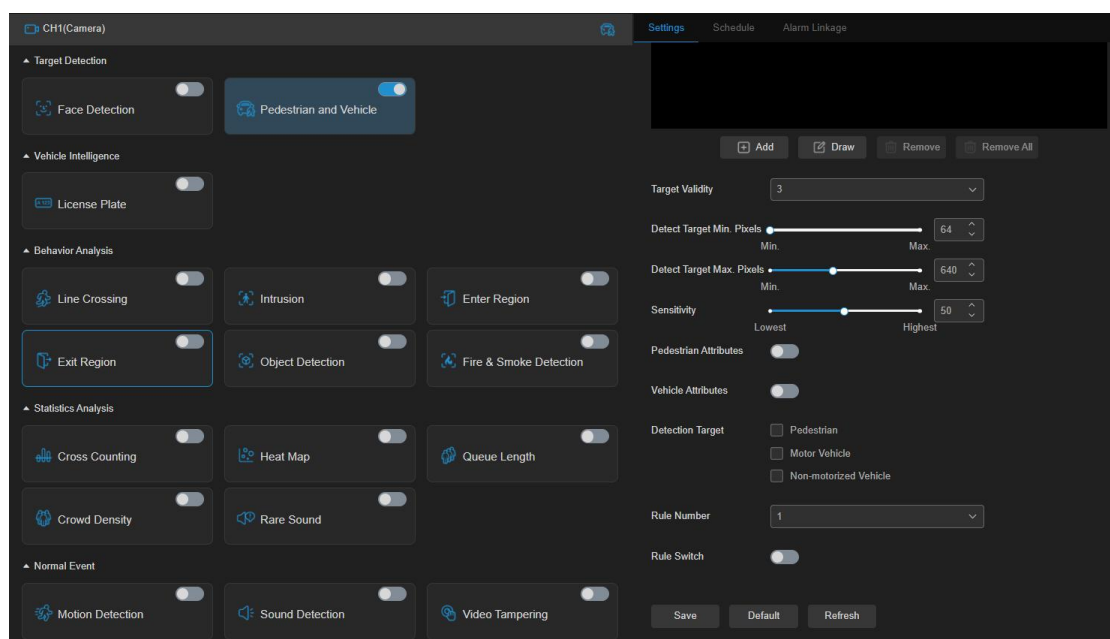
Draw: Manually draw a detection rule in the setting area.

Remove: Removes the rule selected in the Rule Settings area.

Remove All: Remove all rule lines.

8.14.8 Exit Region

Exit Region detection can detect the target from the area to go outside the area, the target generated outside the area will not generate alarm, according to the result of the judgement linkage alarm.



Exit Region: Enable or disable Exit Region detection function.

Target Validity: The similarity level between the detection target and the designated detection type: 1 signifies a similarity of 80% or higher, 2 signifies a similarity of 60% or higher, 3 signifies a similarity of 40% or higher, and 4 signifies a similarity of 20% or higher.

Detect Target Min Pixels: Set the minimum recognition pixel box, the target must be

larger than the set pixels to be recognition. When the mouse moves to the progress bar, the image preview on the right side will show the actual size of the pixel box, and drag the pixel box to set it at the same time, and the pixel box in the image preview will disappear after the mouse moves away for 5 seconds.

Detect Target Max Pixels: Set the maximum pixel frame to be recognition, the target has to be smaller than the set pixels in order to be recognition. When the mouse moves to the progress bar, the right image preview will show the actual size of the pixel frame and drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame in the image preview disappears.

Sensitivity: Trigger the sensitivity setting of area region exiting, the larger the sensitivity setting, the more likely to trigger the alarm. Sensitivity correlates with the proportion of the detection target that exits the area. For example, if it is set to 100%, the alarm will be triggered when the detected target has just touched the boundary of the set area. If it is set to 50%, the alarm will be triggered after 50% of the target has already passed the boundary of the set area.

Pedestrian Attributes: Identify the detected pedestrians based on their attributes, including top and bottom clothing color, gender, age, hat/glasses/whether they are wearing, sleeves, bottoms, backpacks, and direction.

Vehicle Attributes: Identify the detected motor vehicle images by attributes such as color, brand, and type (supported by some models)

Detection Target: Set objects for perimeter region exiting detection:

Pedestrian: Exit Region alarm is only triggered for pedestrians.

Motor Vehicle: Exit Region alarm is only triggered for motor vehicles.

Non-motorized Vehicle: Exit Region alarm is only triggered for non-motorized

vehicles.

Bounding Box: Display the detection rule line switch.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Rule Number: Intrusion function supports setting 4 detection rules.

Rule Switch: Each rule line has its own enable switch, which is related to the currently selected Rule Number.

Rule Line Setting Area: According to the parameter setting, set the detection area or detection trigger line in this area.

Add: Add a default detection rule in the setting area.

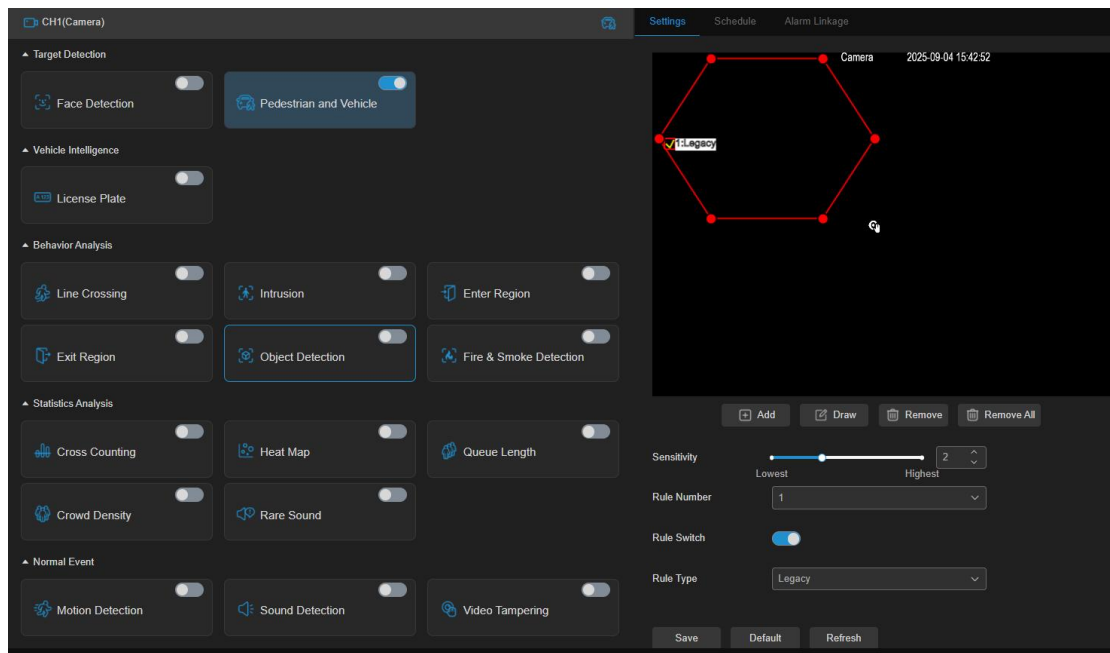
Draw: Manually draw a detection rule in the setting area.

Remove: Remove the rule selected in the Rule Settings area.

Remove All: Remove all rule lines.

8.14.9 Object Detection

Object detection, generating an alarm when an object is found to have been left behind in a supervised scene or when an object is lost.



Object Detection: Enable Object Detection alarm function switch.

Sensitivity: Filter small interference target settings, the higher the sensitivity, the smaller the detectable object.

Bounding Box: Detection rule line switch.

Rule Number: Support to set 4 detection rules.

Rule Switch: Each rule has an independent enable switch, associated with the currently selected Rule Number.

Rule Type: Set the detection area to be left or lost items to generate an alarm, there are three kinds of rules, Legacy, Lost, Lost & Legacy, and the settings are related to the currently selected Rule Number.

Rule Setting Area: Set, modify and display edited rules.

Add: Add a default detection rule to the setting area.

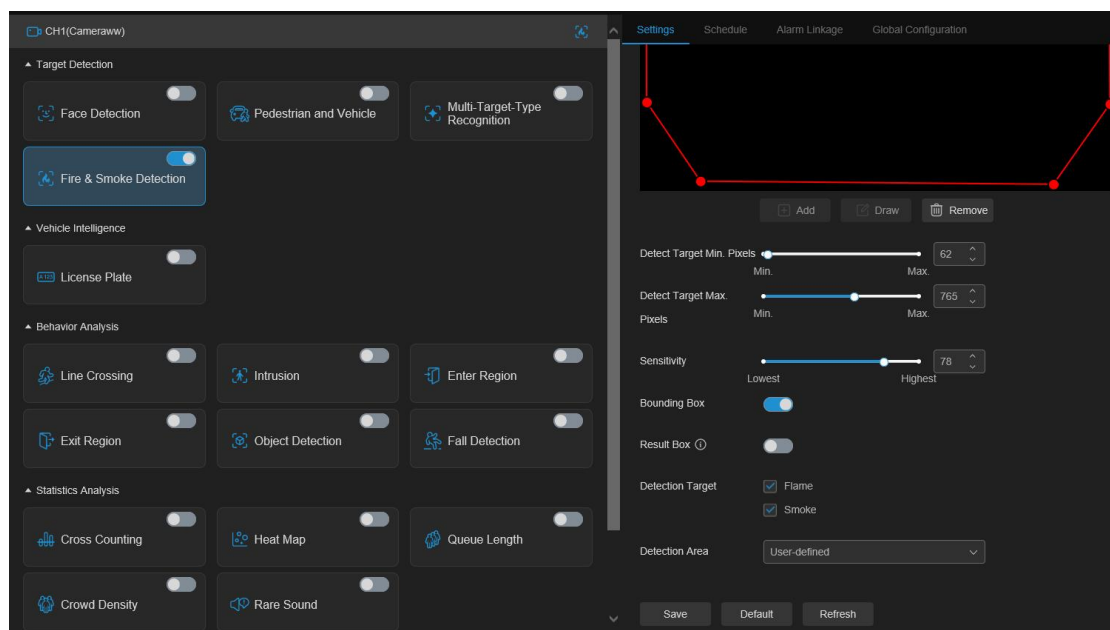
Draw: Manually draw an inspection rule in the setting area.

Remove: Removes the rule selected in the rule setup area.

Remove All: Remove all rules.

8.14.10 Fire & Smoke Detection

This function analyzes the real-time video stream of the camera and uses image recognition algorithms to detect whether there is flame or smoke in the area and issue an alarm.



Fire & Smoke Detection: Enable or disable Fire&Smoke detection function.

Detect Target Min.Pixels: Set the minimum pixel size for fire and smoke detection.

Fire and smoke targets must be larger than the set pixel size to be detected. When you hover your mouse over the progress bar, the image preview on the right will display the actual pixel size. also drag the pixel size to adjust the size. After 5 seconds, the pixel size in the image preview will disappear after you move your mouse away.

Detect Target Max.Pixels: Set the maximum pixel size for fire and smoke detection.

Fire and smoke targets must be smaller than the set pixel size to be detected. When you hover your mouse over the progress bar, the image preview on the right will display the actual pixel size. You can also drag the pixel size to adjust the size. After 5 seconds, the pixel size in the image preview will disappear after you move your mouse away.

Sensitivity: Higher sensitivity setting increases flame and smoke detection sensitivity, but there's still a chance of false alarms.

Bounding Box: Display the detection rule line switch.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Detection Target: Select the specific target type you want the camera to detect.

Flame: Detect open flames.

Smoke: Detect smoke.

Detection Area: Set the detection area, with two modes.

Full Screen: Detects the entire camera's monitorable area.

User-defined: Detects only the area selected with a custom detection box.

Rule Settings: Set, modify, and display edited rules. Detection areas with 3-8 polygons are supported.

Add: Adds a default detection rule to the settings area.

Draw: Manually draws a detection rule in the settings area.

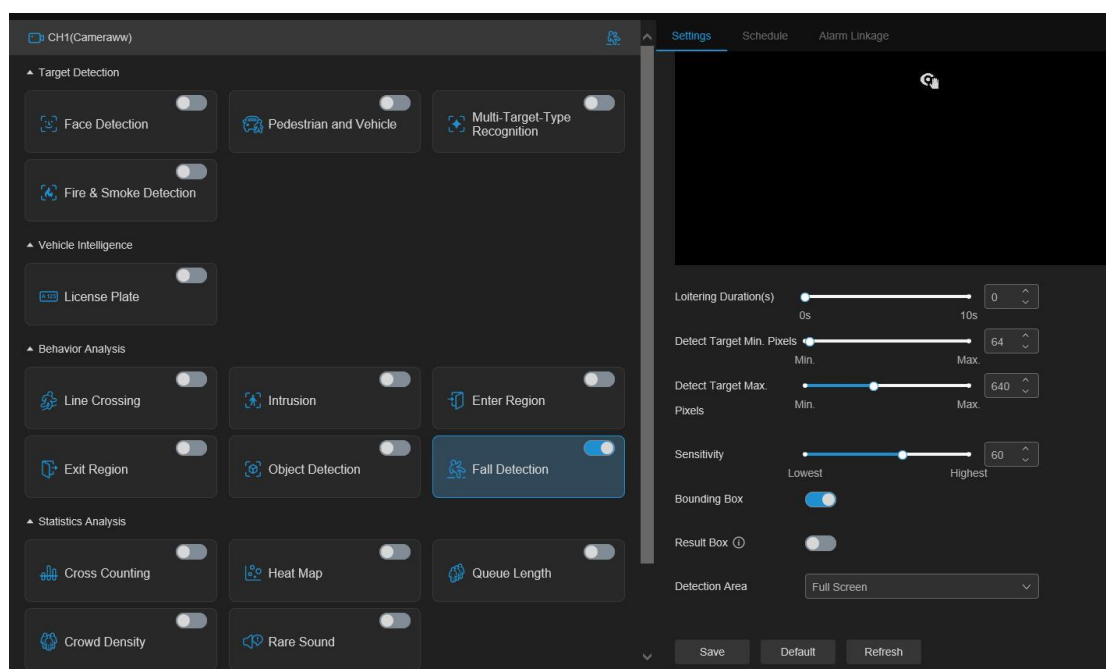
Remove: Delete the selected rule in the rule settings area.

In **Global Configuration** page includes Long distance mode configuration.

Long Distance Mode: Enable or disable Long distance mode function. After enabling the switch to save parameters, the current camera will be able to apply long distance detection mode logic.

8.14.11 Fall Detection

It detects human figures in the frame to determine if their current posture is a fall position, and trigger an alarm based on whether the predefined parameter conditions are met.



Loitering Duration(s): A threshold indicating how long the target state must persist before detection and alarm activation, subject to additional conditions. For example, setting it to 5 seconds triggers an alarm if a person falls in the frame and the state persists for 5 seconds or longer while meeting other criteria.

Detect Target Min.Pixels: Set the minimum pixel size for fire and smoke detection.

Fire and smoke targets must be larger than the set pixel size to be detected. When you hover your mouse over the progress bar, the image preview on the right will display the actual pixel size. also drag the pixel size to adjust the size. After 5 seconds, the pixel size in the image preview will disappear after you move your mouse away.

Detect Target Max.Pixels: Set the maximum pixel size for fire and smoke detection.

Fire and smoke targets must be smaller than the set pixel size to be detected. When you hover your mouse over the progress bar, the image preview on the right will display the actual pixel size. You can also drag the pixel size to adjust the size. After 5 seconds, the pixel size in the image preview will disappear after you move your mouse away.

Sensitivity: Higher sensitivity setting increases flame and smoke detection sensitivity, but there's still a chance of false alarms.

Bounding Box: Display the detection rule line switch.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Detection Area: Set the detection area, with two modes.

Full Screen: Detects the entire camera's monitorable area.

User-defined: Detects only the area selected with a custom detection box.

Rule Settings: Set, modify, and display edited rules. Detection areas with 3-8 polygons are supported.

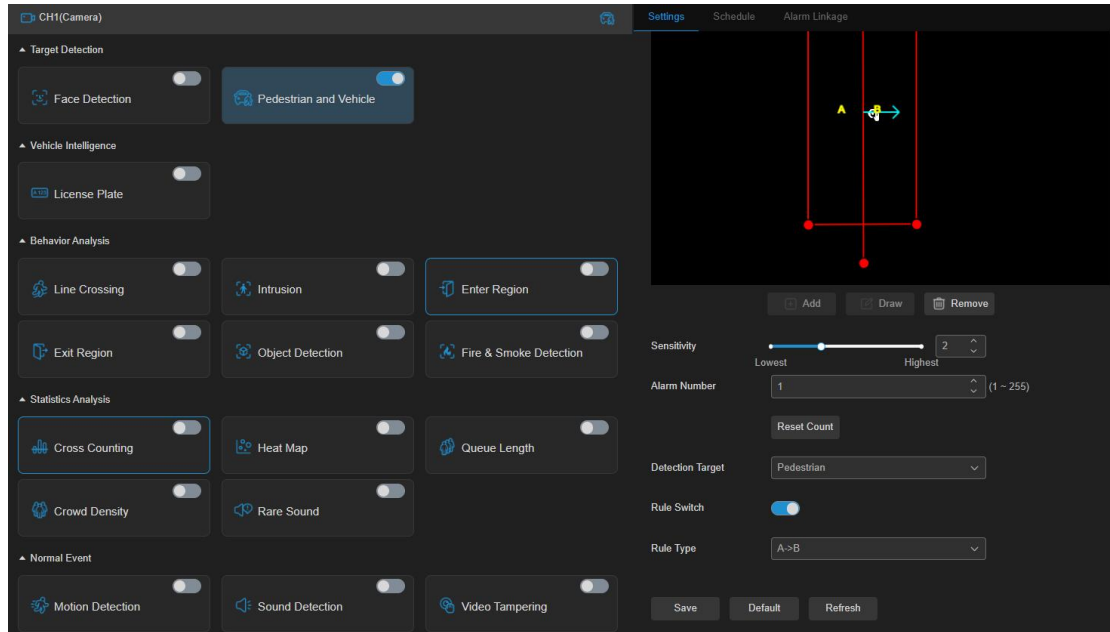
Add: Adds a default detection rule to the settings area.

Draw: Manually draws a detection rule in the settings area.

Remove: Delete the selected rule in the rule settings area.

8.14.12 Cross Counting

Cross Counting function to make a cross line record of specific objects in the monitoring area. Set the crossing line with two areas AB on both sides of the set line. For example, if the trigger rule of the rule line is $A \rightarrow B$, when the object enters from the area of A and passes through the detection line, and leaves the area of B, the count of in is increased by 1. When the object enters from the area of B and passes through the detection line, and leaves the area of A, the count of out is increased by 1. In the case of triggering the increase of the counting, an alarm will be generated only when the in count minus out of the current counting is greater than or equal to the Alarm Number count of the setup, and the interface is shown in the below picture.



Cross Counting: Enable or disable Cross Counting function.

Sensitivity: Filter small interference target settings, the higher the sensitivity, the smaller the detectable object, can also be used to detect more distant targets in the scene.

Detection Target: Set the type of target to be recognition by Cross Counting over the line detection, there are 4 modes, switching to save will clear the current count.

Motion: Detect all objects, including people, cars, cartons and other objects.

Pedestrian: Only identify the target in human form.

Motor Vehicle: Only motorized vehicles are identified.

Non-motorized Vehicle: Identify only non-motorized vehicles.

Alarm Number: Set the conditions for triggering the alarm. The camera will trigger the Cross Counting alarm when the trigger count is updated and the in count minus the out count is greater than or equal to the current setting.

Reset Count: Clear the currently displayed count.

Bounding Box: Detect rule line switch.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Rule Switch: Enable the switch for the current numbered rule line.

Rule Type: set the direction to increase the trigger count of in and out counts, there are two kinds: $A \rightarrow B$ and $B \rightarrow A$. For example, if $A \rightarrow B$ is selected, the in count will be increased when the monitoring target enters the region A and leaves the region B, and the out count will be increased when the target enters the region B and leaves the region A.

Cross Counting Area Setting: Set the rule line for Cross Counting detection in this area.

Add: Add a default detection rule in the setting area.

Draw: Draw a detection rule manually in the setting area.

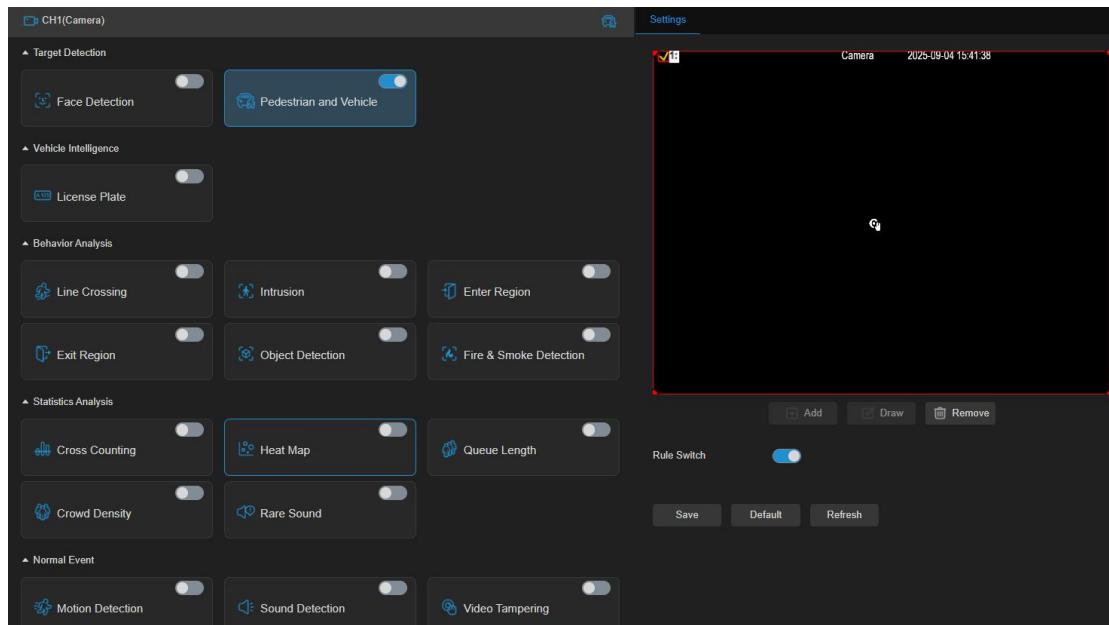
Remove: Removes the rule line selected in the Rule Line Setup area.

Count Area: Display the Cross Counting statistics. Refer to section 8.1 to adjust the display position.

8.14.13 Heat Map

Heat map, the user can set all or specific areas, used to detect the specified area of the personnel active information. And the changes will be saved and uploaded at 10-minute intervals. Through the heat map report, the distribution of personnel

can be visually presented for both time or space dimensions, which makes it easy to understand the activity level of each area in the scene. This function only supports video recording and it's not event alarm.



Heat Map: Enable or disable Heat Map statistics function.

Rule Switch: Enable the rule switch for the current number.

Monitoring Area Settings: Set the area where the camera's Heat Map function will count the heat, by default all areas are checked.

Add: Add a default detection rule to the setting area.

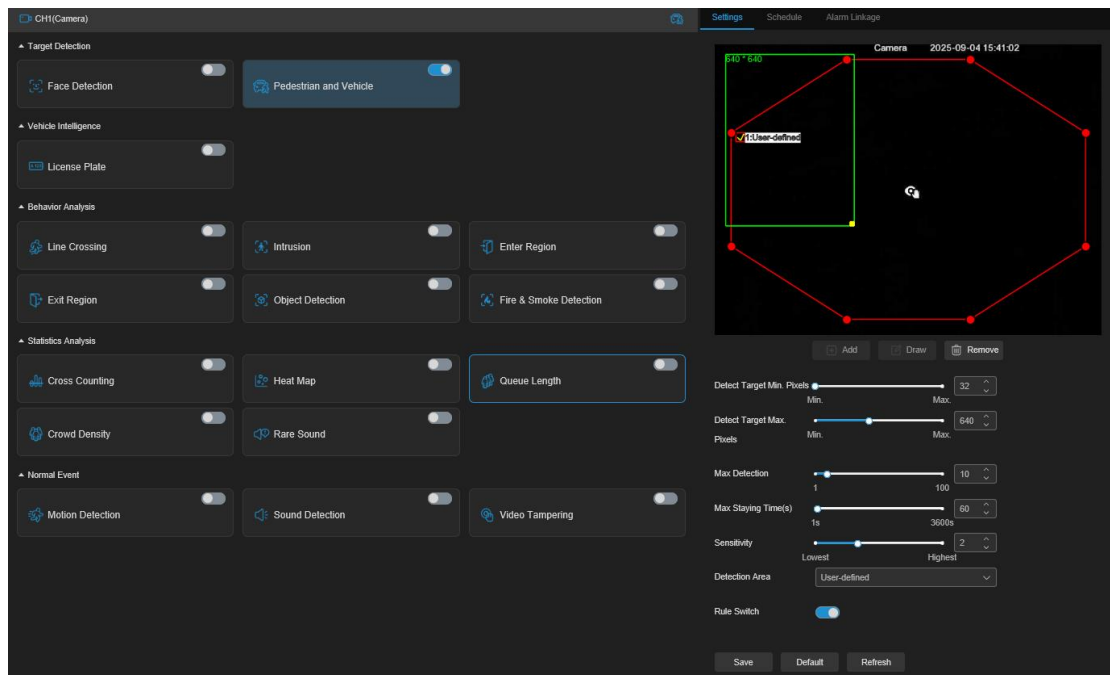
Draw: Manually draw a detection rule in the setting area.

Remove: Remove the rule selected in the rule settings area.

8.14.14 Queue Length

Queue Length detection function, by monitoring the number of people queuing in

the set queue area, as well as the queuing waiting time, generates an alarm when the queue is too long or the queuing time exceed.



Queue Length: Enable or disable Queue Length detection function.

Detect Target Min Pixels: Based on the resolution of 1080P, filter out the targets with head smaller than the setting in the screen. When the mouse moves to the progress bar, the image preview on the right side will show the actual size of the pixel frame, and drag the pixel frame to set it at the same time, and the pixel frame in the image preview will disappear after the mouse moves away for 5 seconds.

Detect Target Max Pixels: Based on the resolution of 1080P, filter out the targets with head larger than the setting in the screen. When the mouse moves to the progress bar, the right image preview will show the actual size of the pixel frame, and at the same time, drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame in the image preview disappears.

Max Detection: Maximum value of heads allowed to be detected in the detection

area, exceeding this value generates an alarm.

Max Staying Time: The maximum length of time allowed to stay in the detection area, when more than the set length of time, no personnel to leave the detection area to generate an alarm (This time length statistics from the last person to leave the region to start timing, to reach the set length of time has not yet left the personnel, it will be considered processing timeout, triggering an alarm).

Note: Only when there is target leaves the detection area to restart counting, the sudden disappearance of the target in the region is ignored. only in the region when there is a detected target to count.

Sensitivity: Filter the smaller interference target settings, the higher the sensitivity, the smaller the target can be detected.

Bounding Box: Display the detection box, detect the rule line switch.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Detection Area: Set the area to be detected by the Queue Length detection function, there are two modes.

Full Screen: Detect the whole area monitored by the camera.

User-defined: Custom the detection area.

Rule Switch: Enable switch for the current numbered rule, displayed when setting the custom detection area.

Detection area setting: Open the setting when opening the custom detection area, support to set the detection area of 3-8 sides.

Add: Add a default detection rule to the setting area.

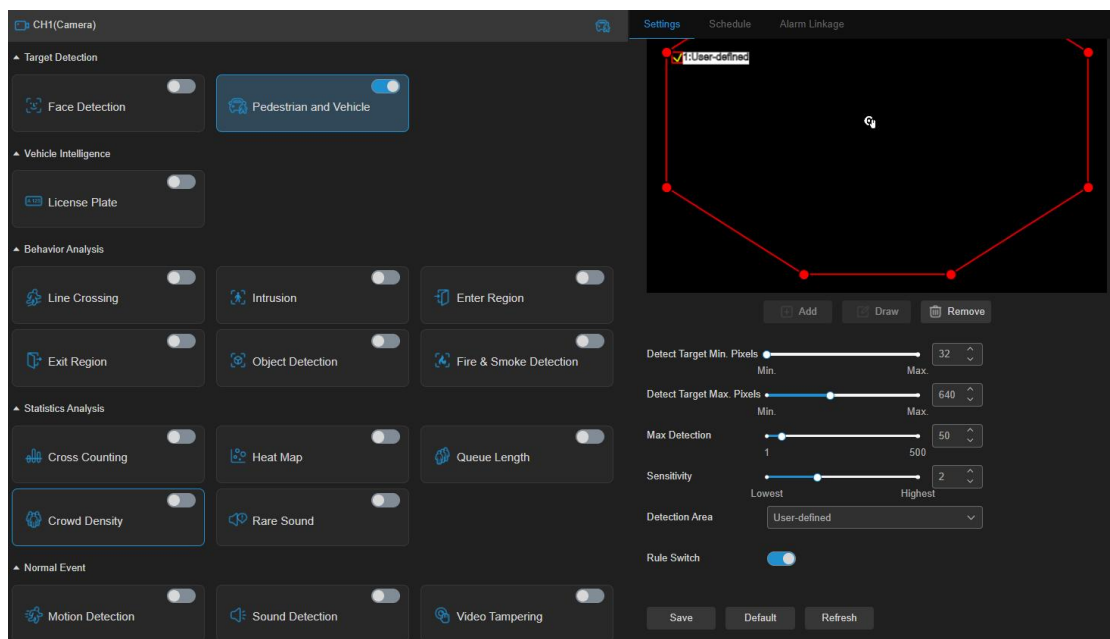
Draw: Manually draw an inspection rule in the setting area.

Remove: Delete the selected rule in the rule setting area.

Count Display Area: Display the number of people in the current monitoring area and the time the queue is waiting for the person who is serving to finish the service, please refer to section 8.1 for the adjustment of the display position.

8.14.15 Crowd Density

Crowd density detection function, through the human figure recognition function to identify the way the human head, identify the number of people appearing in the monitoring area, when the number of people over the preset value to produce an alarm.



Crowd Density: Enable or disable Crowd Density detection function.

Detect Target Min Pixels: Based on the resolution of 1080P, filter out the targets with head smaller than the setting in the screen. When the mouse moves to the progress bar, the right image preview will show the actual size of the pixel frame, and drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame in the image preview will disappear.

Detect Target Max Pixels: Based on the resolution of 1080P, filter out the targets with head larger than the setting in the screen. When the mouse moves to the progress bar, the right image preview will show the actual size of the pixel frame, and at the same time, drag the pixel frame to set it, when the mouse moves away for 5 seconds, the pixel frame in the image preview disappears.

Max Detection: The maximum value of head detection allowed in the detection area, exceeding this value generates an alarm.

Sensitivity: Filtering smaller interference target settings, the higher the sensitivity, the smaller the target can be detected

Bounding Box: Display the detection box, detection rule line switch.

Result Box: The result box displays when the target is detected upon opening (up to 32 result boxes).

Detection Area: Set the detection area of crowd density detection function, there are two modes.

Full Screen: Detect the whole area monitored by the camera.

User-defined: Custom the detection area.

Rule Switch: The current numbered Rule Enable switch, displayed when setting the

custom detection area.

Detection Area Setting: Open the setting when opening the custom detection area, support to set the detection area with 3-8 sides.

Add: Add a default detection rule to the setting area.

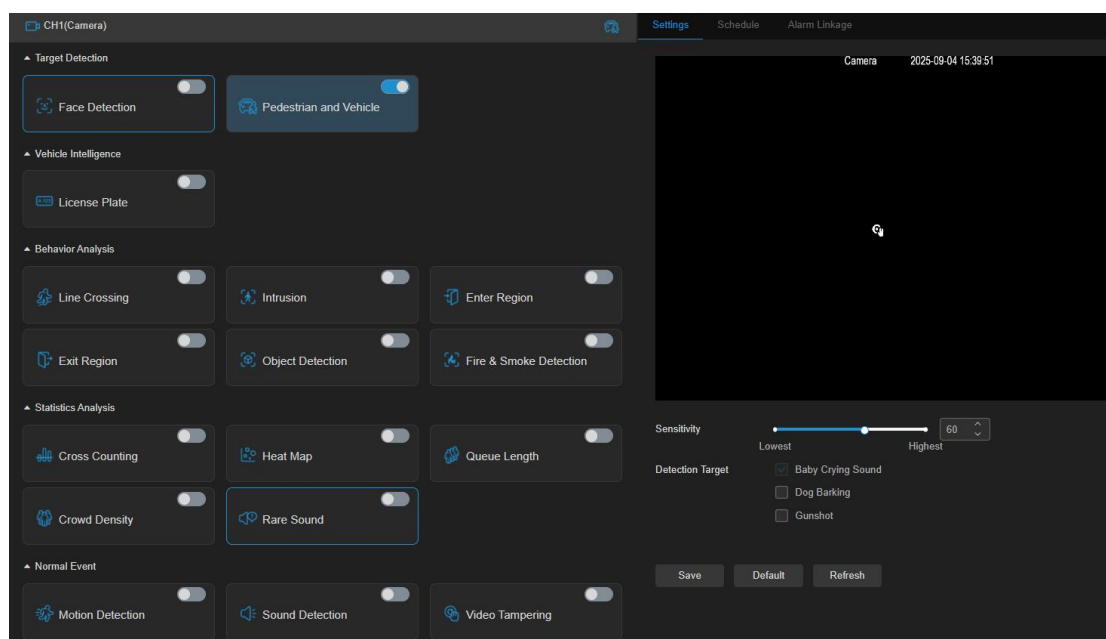
Draw: Manually draw an inspection rule in the setting area.

Remove: Delete the selected rule in the rule setting area.

Count Display Area: Display the number of people in the current monitoring area, please refer to chapter 8.1 Display Settings for adjusting the display position.

8.14.16 Rare Sound

Rare Sound detection, according to the need of application scene can be set to different detection types, such as baby crying, gunshots, dog barking, etc. When the camera detects the set sound alarm.



Rare Sound: Enable or disable Rare Sound detection function.

Sensitivity: Sensitivity, range 1~100.

Detection Target: Detection types.

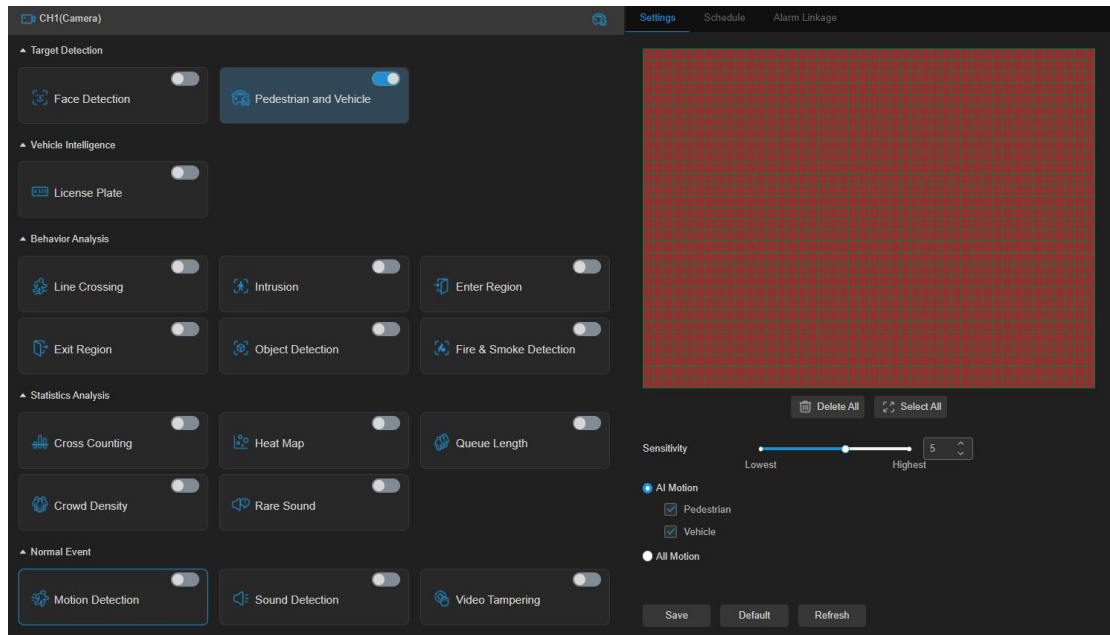
Baby Crying Sound: Check the box to detect baby crying sound.

Dog Barking: Check the box to detect dog barking sound.

Gunshot: Check the box to detect gunshot sound.

8.14.17 Motion Detection

Configure the parameters related to Motion detection on this page. When the camera detects Motion of a detected target within the frame, the camera will trigger a series of alarms. For example, it will send an email alert containing an additional image of the camera that triggered the alarm to a user-specified email address (if this option is enabled), as well as push notification via the mobile application.



Drag the left mouse button to delineate the detection zone in the right viewport.

Only movements within the zone will trigger the alarm.

Motion Detection: Activate or deactivate Motion detection.

AI Motion: Set the target for Motion detection.

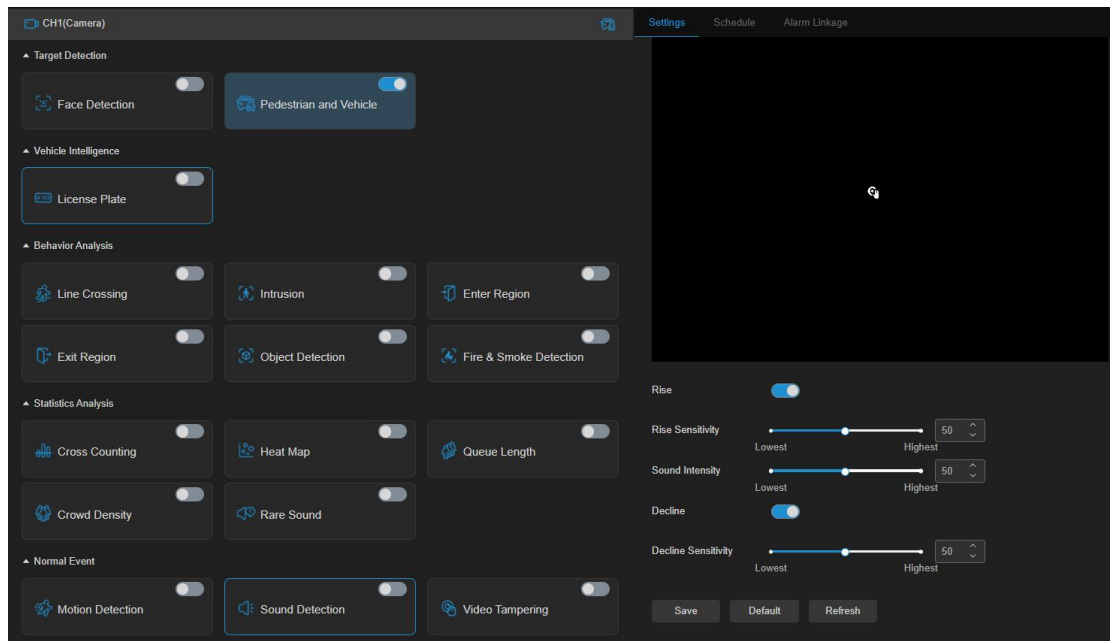
Pedestrian: Detect and alerts only for human-shaped objects.

Vehicle: Detect and alerts only for vehicle-shaped objects.

All Motion: Trigger an alarm based on Motion within the detection area.

8.15.18 Sound Detection

When the camera detects a change in the audio input that meets the requirements of the alarm detection settings, an alarm will be triggered.



Sound Detection: Enable or disable audio detection.

Rise: Enable or disable volume detection. When enabled, the alarm is only triggered when the volume rises suddenly.

Rise Sensitivity: Trigger the sensitivity level for sound rises. The sensitivity can be set from 1 to 100, with higher values indicating a higher sensitivity to rising sounds.

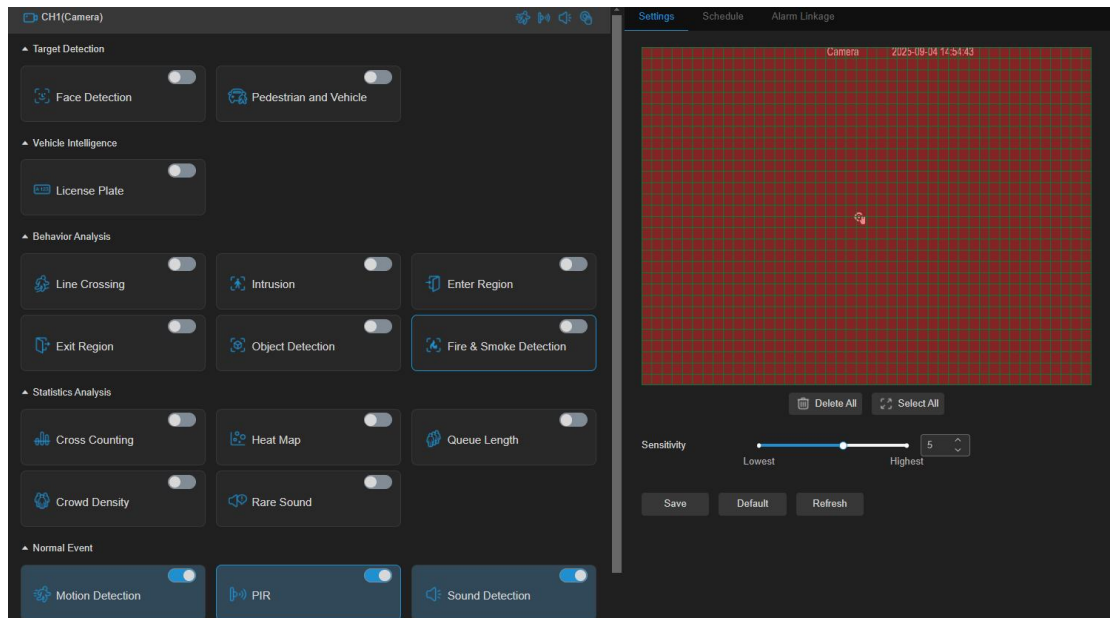
Sound Intensity: Set the sound intensity threshold. A higher threshold requires a louder sound to trigger the rise alarm (can be set from 1 to 100).

Decline: Enable or disable volume drop. When enabled, the alarm is only triggered when the volume drops suddenly.

Decline Sensitivity: Trigger the sensitivity level for sound drops. The sensitivity can be set from 1 to 100, with higher values indicating a higher sensitivity to falling sound.

8.14.19 PIR

PIR function achieves detection by sensing the infrared radiation emitted by the human body or other living organisms.



Drag the left mouse button to delineate the detection area in the right window.

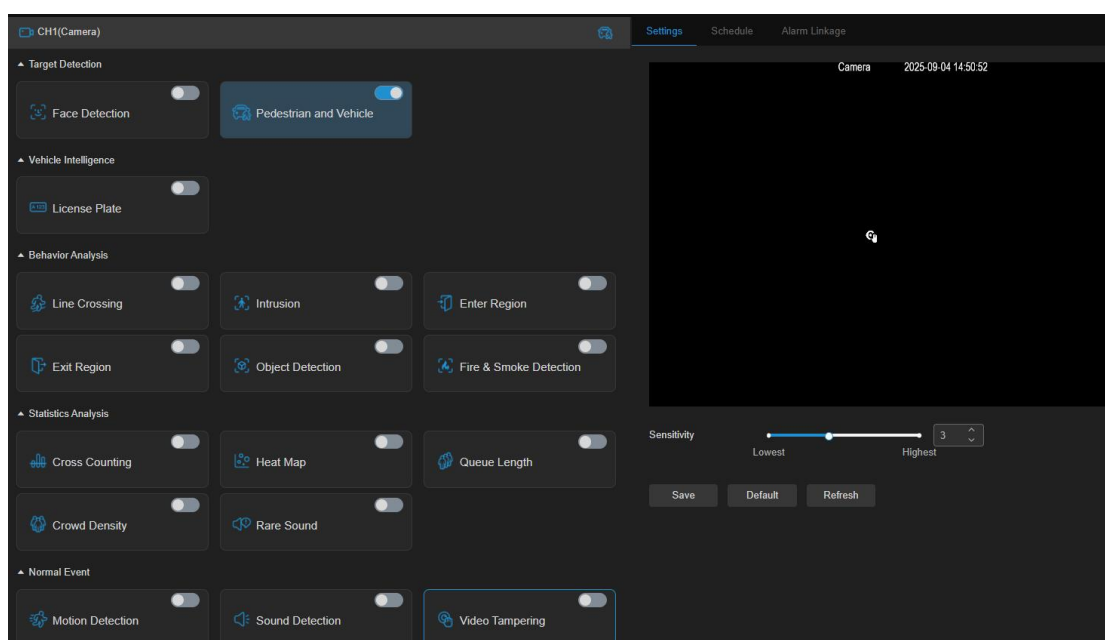
Only movement within the area will trigger an alarm.

PIR: Enable or disable the PIR.

Sensitivity: Set the sensitivity of Motion detection, the larger the value the more sensitive.

8.14.20 Video Tampering

Detect live view screen video tampering and trigger alarm.

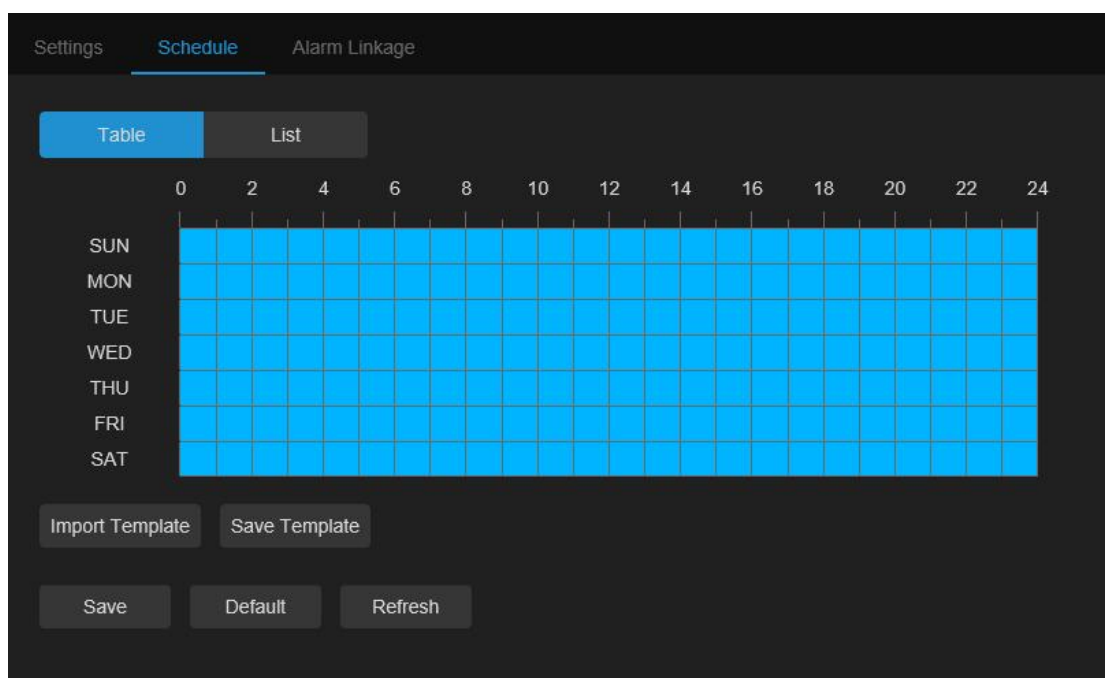


Video Tampering: Switch for camera tampering detection.

Sensitivity: Set the sensitivity of video tampering detection, the larger the value the more sensitive.

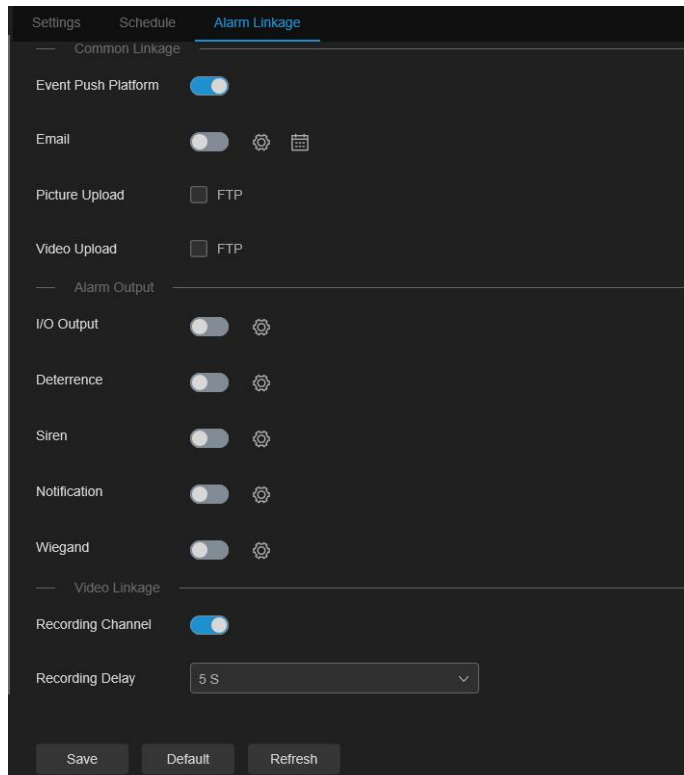
8.14.21 Event Schedule

To set the schedule for each event to take effect, refer to 8.7 Schedule Setup.



8.14.22 Alarm linkage settings

Set the function to be linked when each event triggers an alarm.



Event Push Platform: Pushes events to third-party service platforms after an IO alarm occurs. It is checked by default. For detailed settings, please refer to chapter 8.24.2 Event Push Platform.

Email: Whether the camera sends an email when an event alarm is triggered. Click on the Setup button or the Schedule button on the right to set the email parameters, see chapter 8.19 Email Settings.

Picture Upload: If FTP is checked, the camera sends a picture to the associated FTP server when an event alarm is triggered. The FTP server needs to be associated first. Refer to chapter 8.8 FTP Server Settings. Click on the Setup button on the right to select which channel's corresponding alarm picture should be uploaded to the FTP

server.

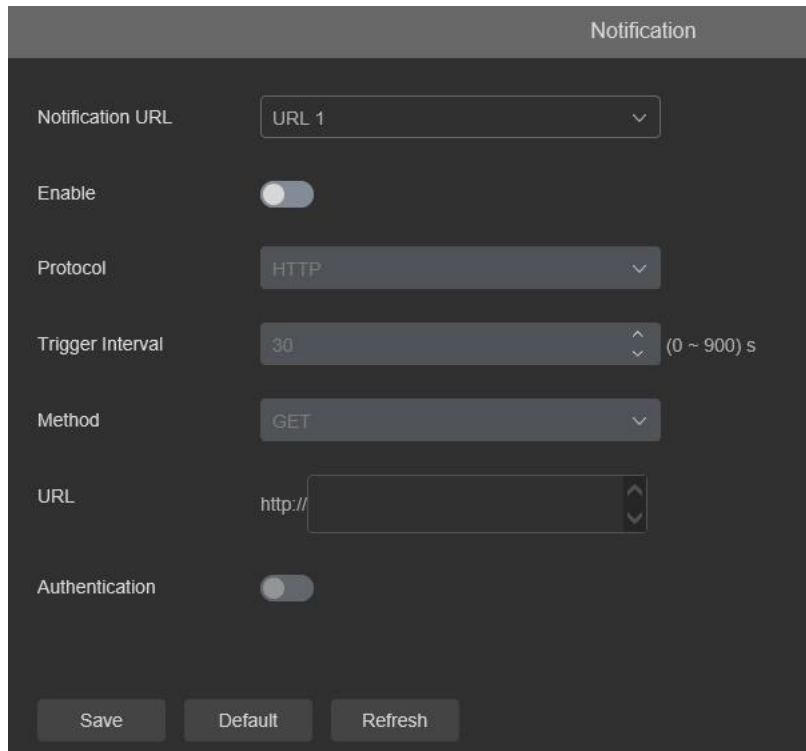
Video Upload: Check FTP to send the video to the associated FTP server when the camera triggers an event alarm. An FTP server needs to be associated with the camera first. Refer to chapter 8.9 FTP Server Settings Click on the Setup button on the right to select which channel should be uploaded to the FTP server.

I/O Output: The alarm output of the camera's linked I/O when the camera triggers an event alarm. Click the Setup button on the right to tick the I/O alarm output source. The output duration and schedule can refer to chapter 8.10.2 Alarm Output Settings.

Deterrence: Light deterrent linkage switch, when alarm is triggered, alarm response will be performed according to the warm light and warning light setting parameters in chapter 8.11 Deterrence Settings. Set the parameters directly by clicking the setting button on the right side.

Siren: Siren switch, when the alarm is triggered, the alarm response will be made according to the parameter of chapter 8.12 Siren Settings. Set the parameters directly by clicking the setting button on the right side.

Notification: Custom alarm push can push device side alarm information to multiple specified servers (this function requires ensuring that the server has completed docking and debugging with the device). When the device side needs to set up custom alarm push, click the custom alarm push settings button  to enter the settings page.

The image shows a 'Notification' settings window with a dark background. It contains several configuration options: 'Notification URL' with a dropdown menu showing 'URL 1'; 'Enable' with a toggle switch that is currently turned off; 'Protocol' with a dropdown menu showing 'HTTP'; 'Trigger Interval' with a numeric input field showing '30' and a range '(0 ~ 900) s'; 'Method' with a dropdown menu showing 'GET'; 'URL' with a text input field starting with 'http://'; and 'Authentication' with a toggle switch that is currently turned off. At the bottom, there are three buttons: 'Save', 'Default', and 'Refresh'.

Notification URL: Select server, supports three identical or different servers

Enable: Enable/disable switch, set server related parameters, and push alarm information to the server when the device generates an alarm. The switch is turned off, and setting parameters to gray cannot be done. After the device generates an alarm, it will not push the alarm information to the server (each server switch is independent of each other)

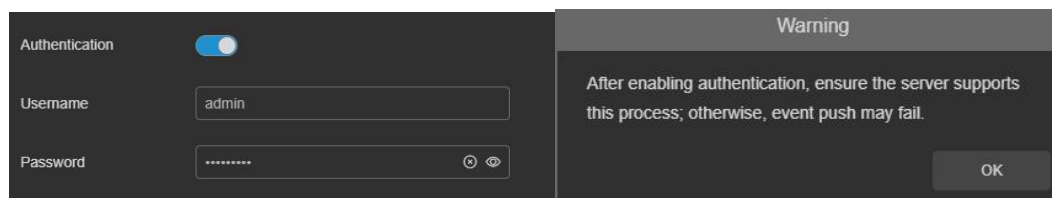
Protocol: Protocol mode, supporting HTTP and HTTPS protocols to push alarm information to the server

Trigger Interval: Push interval, ranging from 0s to 900s. The device can send alarm information to the server according to the set push interval. For example, when a person moves in front of the camera for a long time, it will trigger multiple Motion detections continuously. After setting a 30 second interval, the device will not send a new alarm even if triggered again within 30 seconds after sending one alarm. If

the target is still present after 30 seconds, a second alarm will be sent.

Method: Push method, support Post method and Get method (Post method supports push image)

URL: Server address, fill in the service address and port number according to the selected protocol, in the format of "Address: Port Number/String" (Users can freely choose the corresponding server and string for configuration, for example: 192.168.1.100:1133/Notification...)



Authentication: Authentication switch, when turned on, an authentication prompt will pop up. If the server needs authentication services, the authentication switch must be turned on to use custom push alerts normally

Username: Server authentication username

Password: Server authentication password

Default: Restore to default. Clicking the restore button will restore all settings of Notification

Wiegand: Wiegand linkage switch, which transmits to the control system or data centre via the Wiegand interface when a license plate is recognised (supported on some models)

Recording Channel: Recording channel linkage switch, click the right setup button to select the linkage channel. When an alarm is triggered, the selected channel will record the corresponding alarm type.

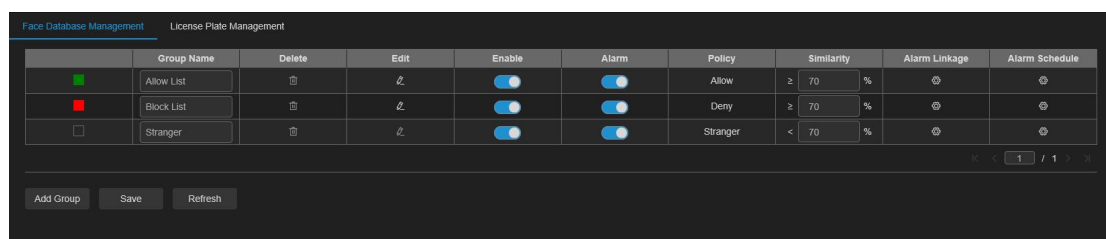
Recording Delay: The delay time for the camera to record after the alarm ends.

8.15 List Management

8.15.1 Face Database Management

The face recognition function, which focuses on identifying the identity of the detection target, requires basic data for comparison. The program establishes the database base for face matching through the database management function.

Note: Modifications to the database require a small period of system reloading to take full effect.



	Group Name	Delete	Edit	Enable	Alarm	Policy	Similarity	Alarm Linkage	Alarm Schedule
■	Allow List	🗑️	✎	🔵	🔵	Allow	≥ 70 %	⊗	⊗
■	Block List	🗑️	✎	🔵	🔵	Deny	≥ 70 %	⊗	⊗
□	Stranger	🗑️	✎	🔵	🔵	Stranger	< 70 %	⊗	⊗

1 / 1

Add Group Save Refresh

Alarm Policy Display: In the camera, it only serves as a policy prompt. Green represents white list, red represents black list, and no color represents stranger group.

Group Name: Edit and modify the current group name, the specific group name will be prompted when the alarm is pushed.

Delete: Delete the group, the first 3 groups are not allowed to delete.

Edit: Open the picture setting of group reference, please continue to the following picture for specific information.

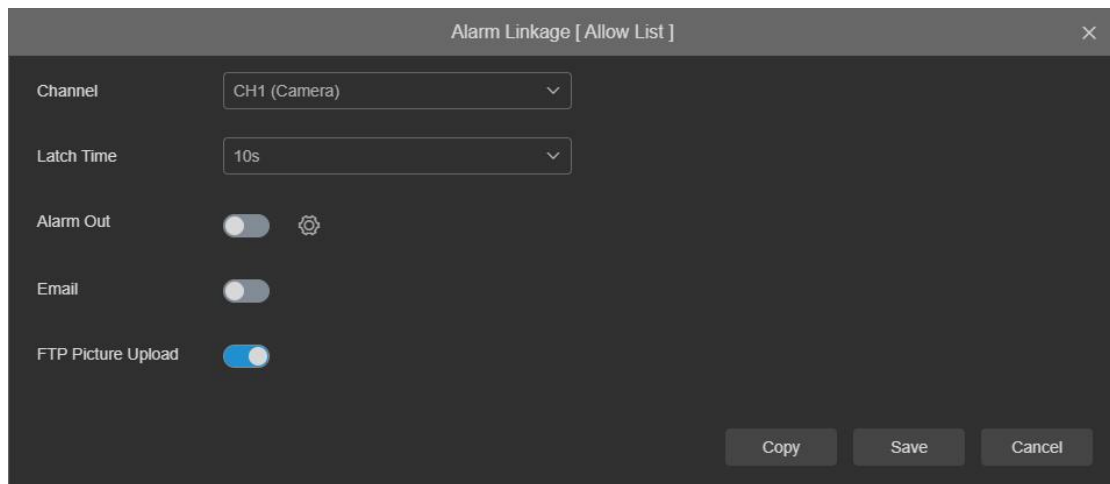
Enable: Face recognition uses grouped data for comparison.

Alarm: Enable alarm response setting master switch.

Police: Alarm policy, the first 3 groups can not be modified, other groups can be custom as Allow, Deny.

Similarity: When face matching, the similarity is greater than the setting to generate an alarm.

Alarm Linkage: Group alarm setting.



Alarm Linkage [Allow List]

Channel: CH1 (Camera)

Latch Time: 10s

Alarm Out: ☐

Email: ☐

FTP Picture Upload: ☒

Copy Save Cancel

Latch Time: The time that the I/O alarm tail line continues to alarm when the camera acquires a picture and matches it successfully.

Note: The camera must support the I/O output function and the working time is controlled by the corresponding schedule.

Alarm Out: Set the Enable switch.

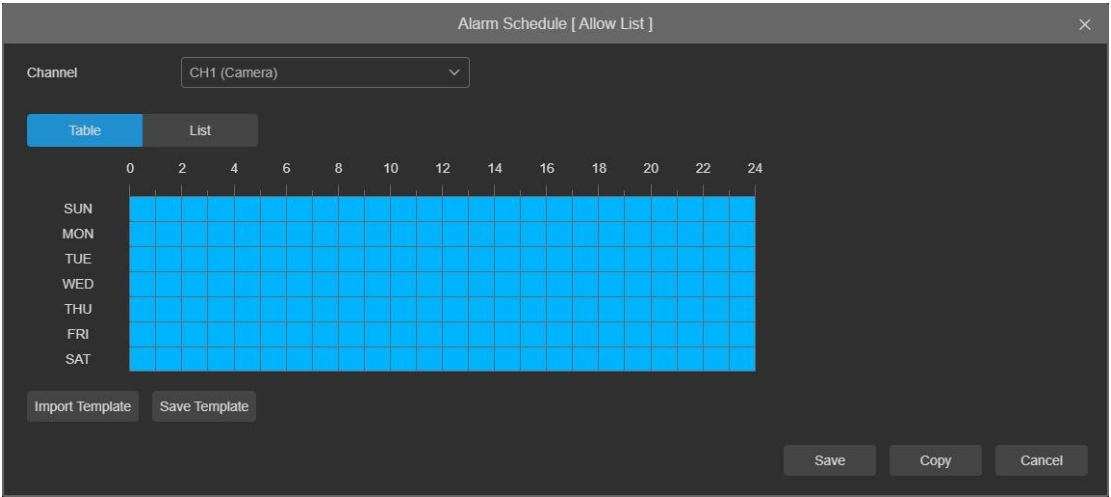
Email: Switch to send an email when the grouped face recognition matches are successful.

FTP Picture Upload: Switch to send the picture to the associated FTP server when the group face recognition match is successful.

Note: At the same time by the schedule control effective time, need to associate

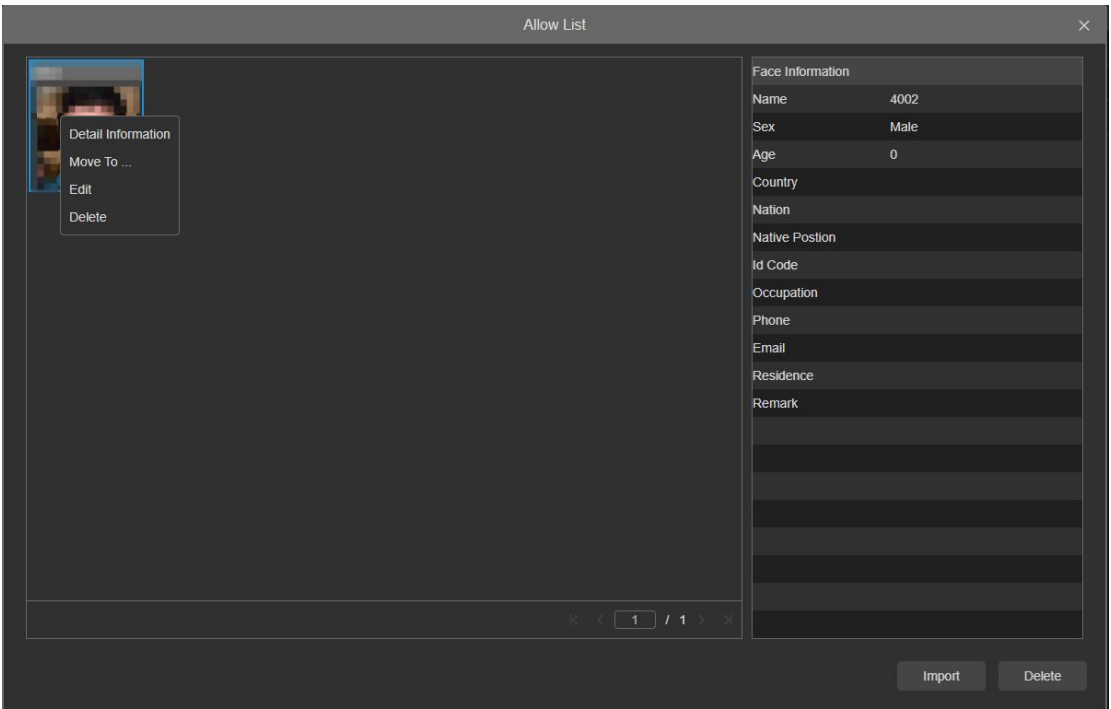
FTP server first.

Alarm schedule: Set the effective time of Alarm Out, Email and FTP Picture Upload for group alarm, please refer to section 8.7 Schedule Settings.



Add Group: Add a new database group, support up to 16 database groups.

Click **Edit** icon, set the specific reference data of the corresponding group, the interface is shown in the below picture.



Added Picture Display Area: Display the current face database pictures that have been added to the group.

Info: Display the editing information of the currently selected picture.

Detail Information: Right mouse button event to view the detail information of the currently selected picture.

Move To ... : Right mouse button event, move the currently selected image to other group.

Edit: Right mouse button event, open the editing interface of the currently selected picture, re-edit the information.

Delete: Right mouse button event, delete the currently selected picture.

Import: Add new face data to the current group, import local pictures or pictures already captured by the camera.

Delete: Delete face data from the database in a batch, click on the control, then select the pictures to be deleted and click **Delete** again.

8.15.2 License Plate Management

The license plate recognition function, which focuses on identifying the identity of the detection target, requires basic data for comparison. The program establishes the database base for license plate matching through the database management function.

Note: Changes to the database require a small system reload to take full effect.

Face Database Management License Plate Management											
	Group Name	Delete	Edit	Enable	Alarm	Policy	Fault-tolerant	Alarm Linkage	Alarm Schedule	Alarm Channel	
■	Allow List	🗑️	✎️	🔴	🔴	Allow	≤ 1 character(s)	⊗	⊗	⊗	
■	Block List	🗑️	✎️	🔴	🔴	Deny	≤ 1 character(s)	⊗	⊗	⊗	
□	Unknown	🗑️	✎️	🔴	🔴	Unknown	> 1 character(s)	⊗	⊗	⊗	

Add Group Save Refresh

Alarm strategy display: In the camera, it only serves as a strategy reminder. Green for white list, red for black list, colourless for unfamiliar license plate list.

Group Name: Edit and modify to show the current group name, the specific group name will be prompted when the alarm is pushed.

Delete: Group delete function, the first 3 groups are not allowed to delete.

Edit: Open the picture settings of the grouping reference, for more information, please continue with the content of the below picture.

Enable: License plate recognition using grouped data for comparison.

Alarm: Enable alarm response setting master switch.

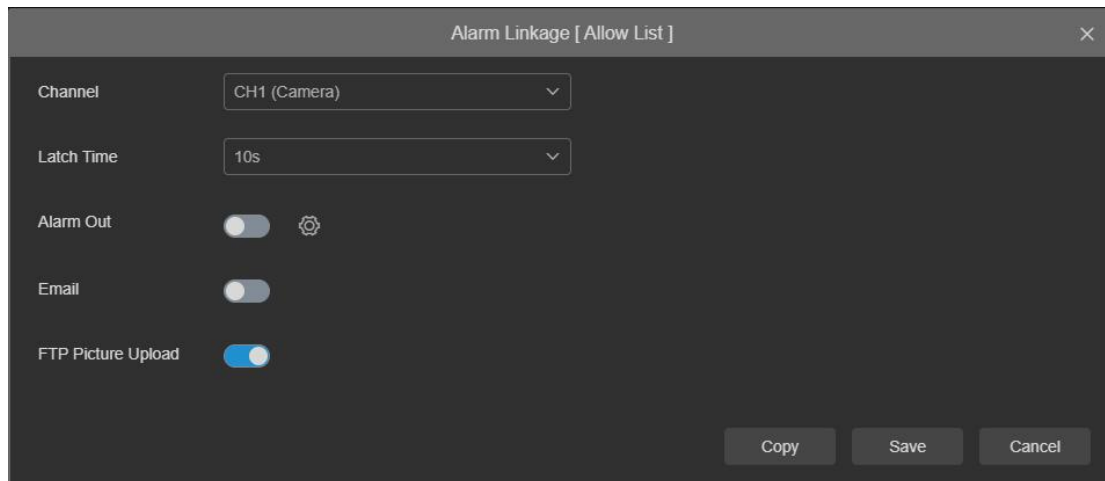
Police: Alarm policy, the first 3 groups can not be modified, other groups can be customised as **Allow**, **Deny**.

Fault-tolerant: Fault-tolerant characters, allows the search result to display the number of inconsistent characters between the license plate number and the set number of characters, the lower the setting, the higher the match of the search result.

Note: If you want to search the target license plate with only few characters, set the error tolerance rate to the maximum, at this time, many irrelevant license plates will be searched, but the search result are sorted by similarity, and the license

plates with high similarity are in the front, so that find the desired target license plate.

Alarm Linkage: Group alarm settings.



The screenshot shows a configuration window titled "Alarm Linkage [Allow List]" with a close button (X) in the top right corner. The window contains the following settings:

- Channel:** A dropdown menu showing "CH1 (Camera)".
- Latch Time:** A dropdown menu showing "10s".
- Alarm Out:** A toggle switch that is currently turned off, with a gear icon to its right.
- Email:** A toggle switch that is currently turned off.
- FTP Picture Upload:** A toggle switch that is currently turned on.

At the bottom right of the window, there are three buttons: "Copy", "Save", and "Cancel".

Latch Time: The time that the IO alarm tail line continues to alarm when the camera acquires a picture and matches it successfully.

Note: The camera must support the IO output function and the working time is controlled by the corresponding schedule.

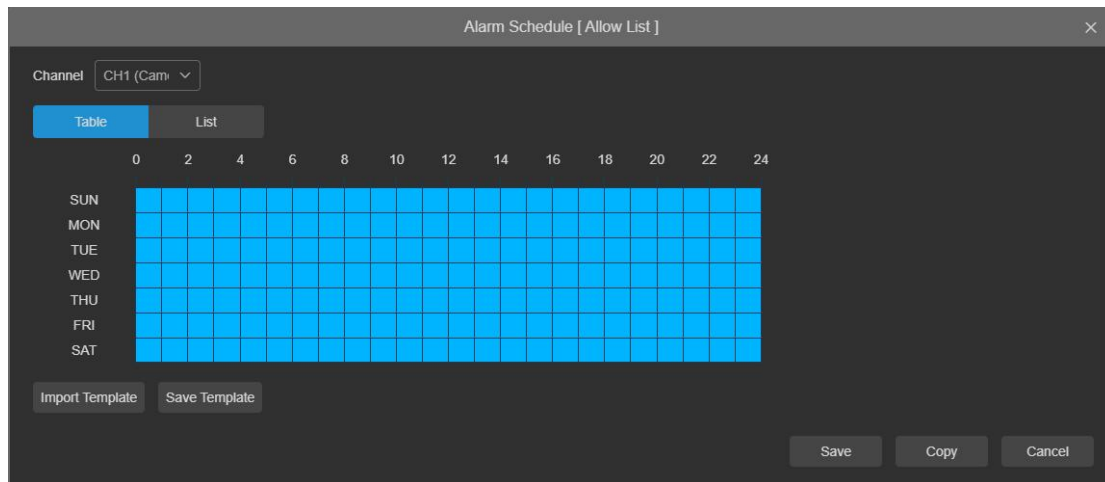
Alarm Out: Set the Enable switch.

Email: Switch to send an email when the grouped face recognition matches are successful.

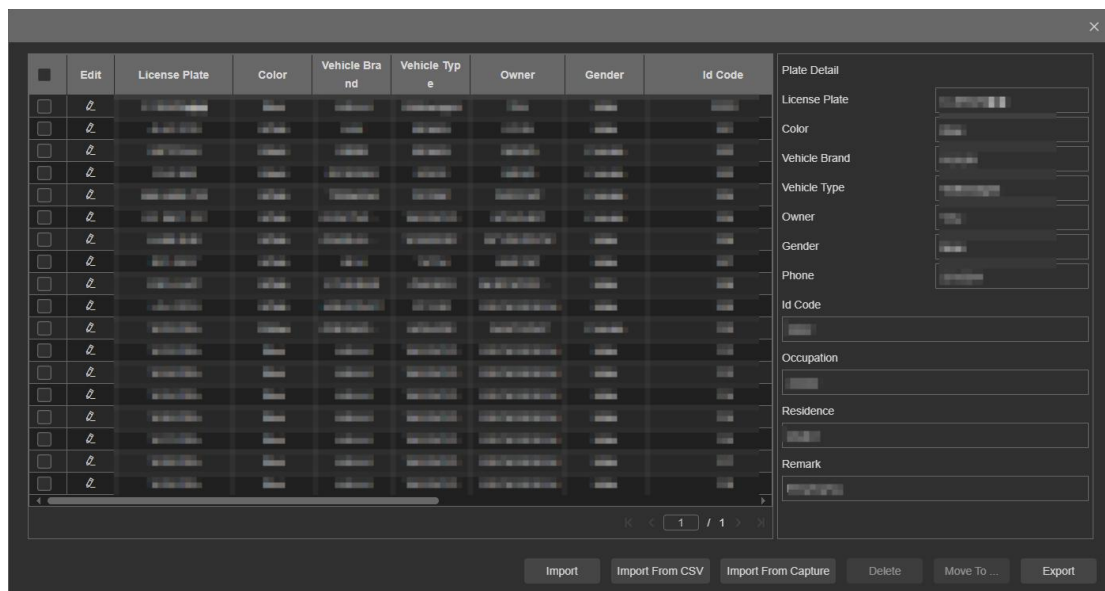
FTP Picture Upload: Switch to send the picture to the associated FTP server when the group face recognition match is successful.

Note: At the same time by the schedule control effective time, you need to associate FTP server first.

Alarm schedule: Set the effective time of Alarm Out, Email and FTP Picture Upload for group alarm, please refer to chapter 8.7 Schdeule Setup.



Click **Edit** icon to set the specific reference data of the corresponding group. The interface is shown in the below picture.



There are three ways to add license plate information: Import, Import From CSV, Import From Local Capture. When you add more than 5000 pieces of data, a pop-up box will appear with the content 'The number of data added has reached the group limit.

- 1) Click **Import** button to manually add a single license plate.
- 2) Click **Import From CSV** button to import single or multiple data from CVS form, the format of CVS form is as below.

	A	B	C	D	E	F	G	H	I	J	K
1	License Plate	Color	Car Brand	Car Type	Owner	Sex	Id Code	Phone	Occupation	Residence	Remark
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											

Select the license plate file of CSV you want to import, click import button to add to the group, Delete button to delete the unwanted license plate information.

3) Click **Import From Capture** button to import license plate information from local to database.

Select Date, Duration and Alarm Group and click **Search**, it will search all the license plates saved by all devices in this period.

All: Select all the license plate information.

	Status	Edit	License Plate	Color	Vehicle Brand	Vehicle Type	Owner	Gender		
☒			123456789	Red	Toyota	Sedan	John Doe	Male		
☒			987654321	Blue	Honda	SUV	Jane Smith	Female		
☒			567890123	Yellow	Ford	Truck	Mike Johnson	Male		
☒			234567890	Green	BMW	Coupe	Sarah Lee	Female		
☒			890123456	Black	Mercedes	Van	David Kim	Male		
☒			456789012	White	Volkswagen	Minivan	Emily White	Female		
☒			012345678	Purple	Audi	Sedan	Chris Brown	Male		
☒			678901234	Orange	Subaru	Truck	Alexander Green	Male		
☒			345678901	Brown	Nissan	SUV	Mia Garcia	Female		
☒			789012345	Pink	Jeep	Truck	Noah Davis	Male		
☒			109876543	Gray	Volvo	Sedan	Olivia Miller	Female		
☒			543210987	Gold	Porsche	Coupe	Liam Wilson	Male		
☒			901234567	Silver	Ferrari	Sports	Ava Martinez	Female		
☒			210987654	Dark Blue	Lexus	SUV	Ethan Hall	Male		
☒			654321098	Light Blue	Hyundai	Truck	Sophia King	Female		
☒			098765432	Dark Green	Kia	Sedan	Lucas Scott	Male		
☒			432109876	Light Green	Seat	SUV	Isabella Adams	Female		
☒			876543210	Dark Red	Skoda	Truck	Benjamin Baker	Male		
☒			210987654	Light Red	Alfa Romeo	Sports	Charlotte Clark	Female		
☒			654321098	Dark Purple	Fiat	Sedan	Leo Evans	Male		
☒			098765432	Light Purple	Land Rover	SUV	Aria Foster	Female		
☒			432109876	Dark Orange	Jeep	Truck	Wyatt Gibson	Male		
☒			876543210	Light Orange	Volvo	Sedan	Madison Hill	Female		
☒			210987654	Dark Yellow	Subaru	Truck	Grayson King	Male		
☒			654321098	Light Yellow	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Gray	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Gray	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Blue	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Blue	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Green	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Green	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Red	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Red	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒			654321098	Light Purple	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Orange	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Orange	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Yellow	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Yellow	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Gray	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Gray	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Blue	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Blue	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒			654321098	Light Purple	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Orange	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Orange	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Yellow	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Yellow	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Gray	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Gray	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Blue	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Blue	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒			654321098	Light Purple	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Orange	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Orange	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Yellow	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Yellow	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Gray	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Gray	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Blue	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Blue	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒			654321098	Light Purple	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Orange	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Orange	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Yellow	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Yellow	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Gray	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Gray	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Blue	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Blue	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒			654321098	Light Purple	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Orange	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Orange	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Yellow	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Yellow	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Gray	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Gray	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Blue	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Blue	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒			654321098	Light Purple	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Orange	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Orange	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Yellow	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Yellow	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Gray	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Gray	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Blue	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Blue	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒			654321098	Light Purple	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Orange	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Orange	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Yellow	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Yellow	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Gray	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Gray	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Blue	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Blue	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒			654321098	Light Purple	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Orange	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Orange	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Yellow	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Yellow	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Gray	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Gray	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Blue	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Blue	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒			654321098	Light Purple	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Orange	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Orange	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Yellow	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Yellow	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Gray	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Gray	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Blue	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Blue	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒			654321098	Light Purple	Toyota	SUV	Skylar Knight	Female		
☒			098765432	Dark Orange	Honda	Sedan	Julian Knight	Male		
☒			432109876	Light Orange	Ford	Truck	Stella Knight	Female		
☒			876543210	Dark Yellow	BMW	Coupe	Maxwell Knight	Male		
☒			210987654	Light Yellow	Mercedes	Van	Isabella Knight	Female		
☒			654321098	Dark Gray	Audi	Sedan	Leo Knight	Male		
☒			098765432	Light Gray	Volkswagen	Minivan	Aria Knight	Female		
☒			432109876	Dark Blue	Subaru	Truck	Wyatt Knight	Male		
☒			876543210	Light Blue	Volvo	Sedan	Madison Knight	Female		
☒			210987654	Dark Purple	Jeep	Truck	Grayson Knight	Male		
☒		<								

4) **Delete:** Check the checkbox of the license plate information and click the button to delete the license plate information.

5) **Move to...:** Tick the checkbox of the license plate information and then click the button to move the license plate information to other groups.

6) Click **Export** button to export and save the information of the whole group.

Enable: The license plate recognition uses grouped data for comparison.

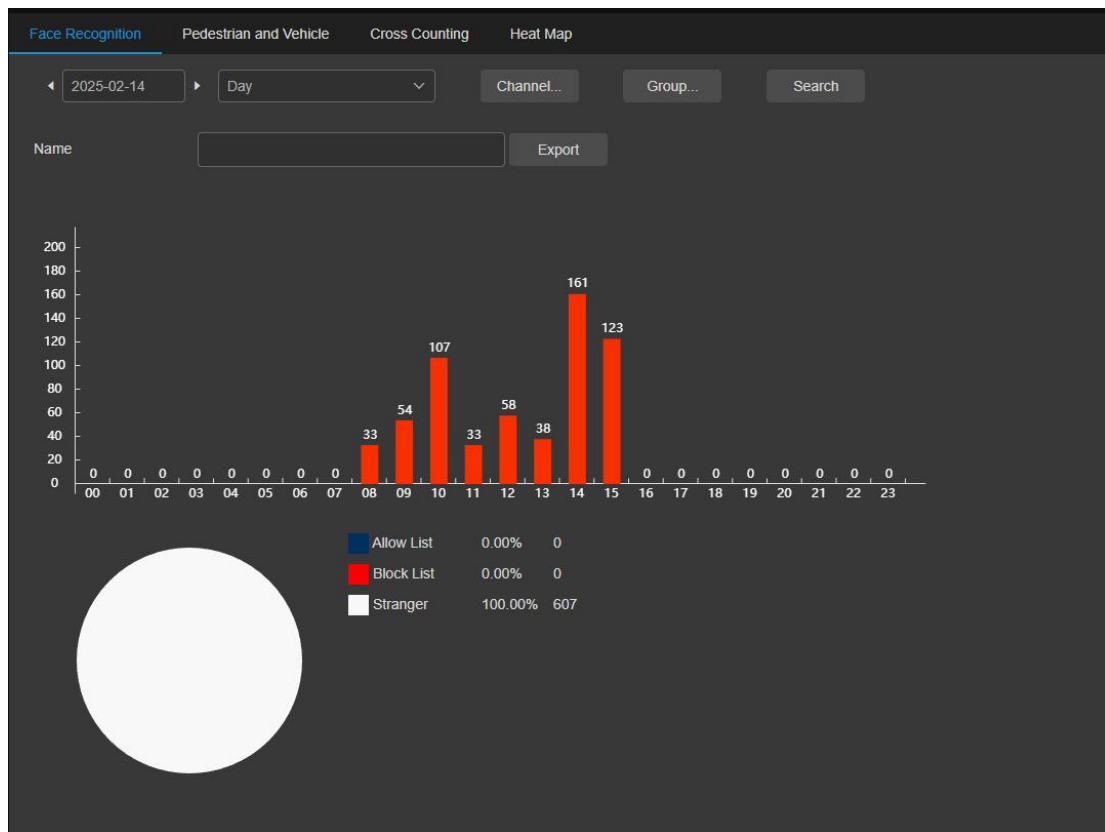
Add Group: Add a new database group, support up to 16 database groups.

8.16 Statistics

AI data statistical analysis function.

8.16.1 Face Recognition

The face capture data statistics analysis function searches and counts the face data saved in the SD card according to the search settings, and its interface is shown in the below picture.



Time: Reference time for search mode.

Search Mode: The data search supports 5 time ranges: **Day**, **Week**, **Month**, **Quarter**, **Year**.

Group: The group for searching when searching statistics.

Search: Re-search the data according to the current search settings.

Export: You need to add an export file name to export the current search data using an Excel document.

Display Area: Display the current search result in the form of charts and fan charts below.

8.16.2 Pedestrian and Vehicle

Pedestrian and Vehicle data statistics. Including alarm for Pedestrian and Vehicle,

Cross Counting, Intrusion, Entrance Region, Exit Region and etc with the interface as shown in the below picture.



Time: The reference time for the search pattern.

Search Mode: Data search supports 5 time ranges: Day, Week, Month, Quarter, Year.

Intelligent: Search according to the type of marker at the time of capture, Pedestrian, Motor Vehicle, Non-motorized Vehicle, Line Crossing [Pedestrian], Line Crossing [Motor Vehicle], Line Crossing [Non-motorized Vehicle], Intrusion [Pedestrian], Intrusion [Motor Vehicle], Intrusion [Non-motorized Vehicle], Enter Region [Pedestrian], Enter Region [Motor Vehicle], Enter Region [Non-motorized Vehicle], Exit Region [Pedestrian], Exit Region [Motor Vehicle], Exit Region [Non-motorized Vehicle] and a total of 18 type groups.

Search: Re-search the data based on the current search settings.

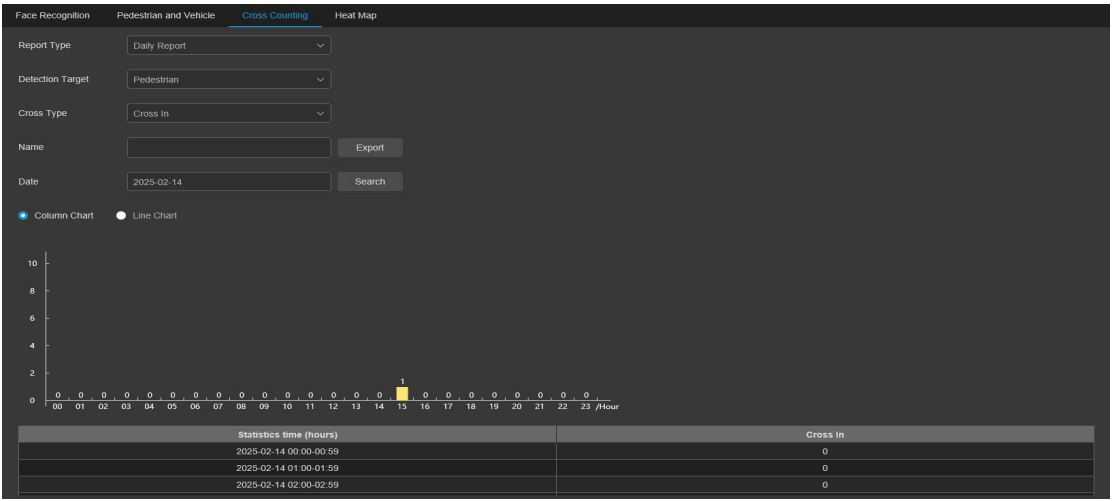
Export: You need to add an export file name to export the current search data

using an Excel document.

Display Area: Show the current search result in the form of charts.

8.16.3 Cross Counting

Cross Counting is function of searching and counting the data across the line, and its function interface is shown in the below picture.



Report Type: The data search supports 4 types of time ranges: Daily report, **Weekly report**, **Monthly report** and **Annual report**.

Detection Target: Set the corresponding alarm model that the data needs, for example, the data triggered by Motion cannot be searched by other types. For example, Motion triggered data cannot be searched by other types. There are three types of models, Motion, Person and Vehicle, corresponding to the function settings.

Cross Type: Search data according to the crossing statistics, there are two types of models: Cross In and Cross Out.

Export: You need to add export file name to export the current search data using Excel file.

System time: The reference time of current Report Type.

Mode: Whether the chart in the icon display area is displayed as a bar chart or a line chart.

Display Area: Show the current search result in the form of charts.

Search: Search data according to the current settings.

8.16.4 Heat Map

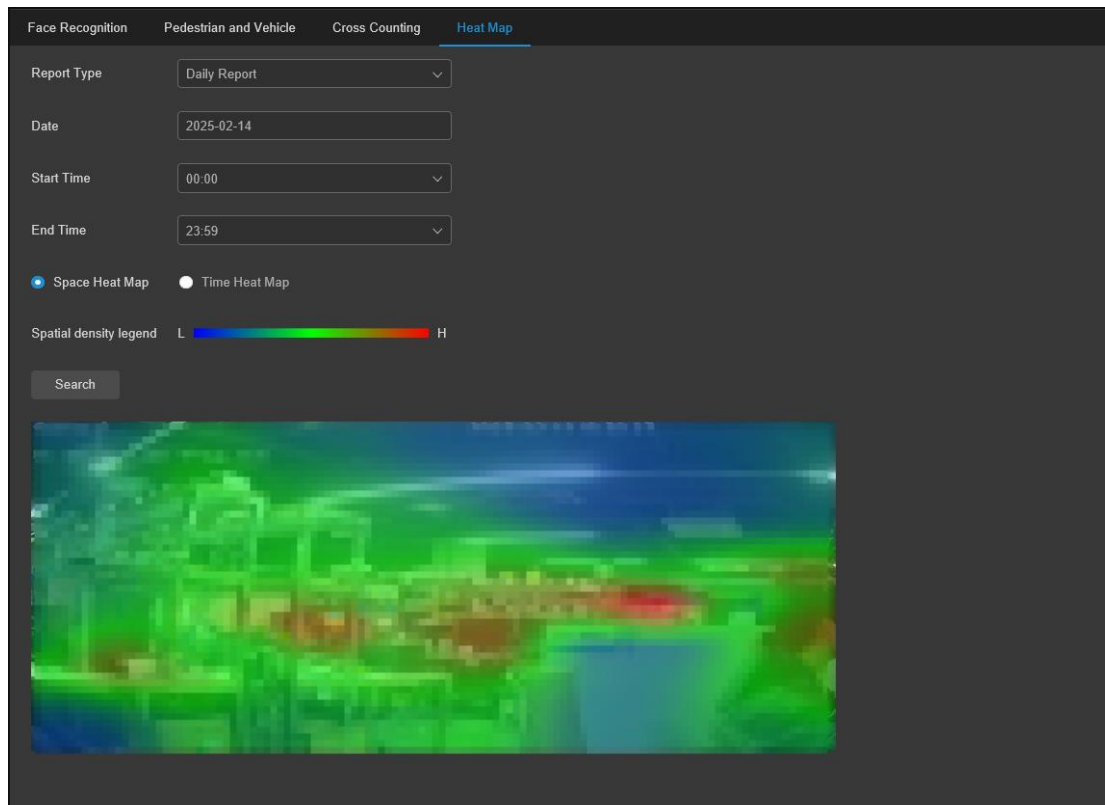
The heat map report allows you to visualise the distribution of people in two dimensions, **space** or **time**.

Space heat map: The different areas in the screen of the personnel active situation.

The red color is the densest area, i.e. the most active, and the blue color is the least densely populated area.

Time heat map: People's activity at different times in the screen. The vertical coordinate value is the index calculated according to the number of people, stay time and other comprehensive calculation, the larger the value the higher the activity, does not represent the number of people.

The camera must be equipped with a usable SD card, the heat map information will be stored in the SD card, the interface effect is shown in the figure.



Report Type: The data search supports the search of Daily report, Weekly report, Monthly report and Annual report in 4 time ranges.

Date: The date to which the data search refers.

Start Time: only shown in Daily report setting, set the specific hour to start the search.

End Time: Displayed only when setting up a daily report, sets the specific hour at which the search ends.

Mode: Set the way to display the data when searching, there are two ways: graph and table.

Display Area: Display the frequency of changes in the monitoring area in the form of a graph, and display the frequency of changes in the monitoring area in the form of a table for different time periods.

Search: Search data according to the current settings.

8.17 Network Settings

8.17.1 General settings

The screenshot shows the 'General' tab of the Network Settings interface. The interface has a dark theme with a light blue accent. At the top, there are tabs for 'General', 'PPPoE', 'SNMP', 'IEEE802.1X', and 'Port Configuration'. The 'General' tab is active. Below the tabs, there are several settings:

- DHCP:** A toggle switch is turned on (blue).
- IP Address:** A text input field contains '172.20.65.54'. To its right is a 'Test' button.
- Subnet Mask:** A text input field contains '255.255.255.0'.
- Gateway:** A text input field contains '172.020.065.001'.
- IPv6 DHCP:** A toggle switch is turned off (grey).
- IPv6 Address:** A text input field contains 'fe80::0023:63ff:fe90:93ea'.
- Subnet Prefix Length:** A dropdown menu shows '64' with a range '(1 ~ 128)'.
- IPv6 Default Gateway:** A text input field contains 'fe80::0023:63ff:fe90:93ea/64'.
- DNS 1:** A text input field contains '172.018.001.221'.
- DNS 2:** A text input field contains '008.008.008.008'.
- IPv6 DNS 1:** A text input field contains '2606:4700:4700::1111'.
- IPv6 DNS 2:** A text input field contains '2606:4700:4700::1122'.

Below these settings is a section for 'Multicast' with a toggle switch turned on (blue). Under 'Multicast', there is a 'Multicast Address' text input field containing '239.255.255.255' and a range '(224.0.0.0~239.255.255.255)'. Below this is a section for 'Stream Encryption' with two toggle switches: 'Audio-Video Encrypted Transmission' (turned on) and 'Intercom Encrypted Transmission' (turned on). At the bottom, there are 'Save' and 'Refresh' buttons.

If connecting to a router that allows DHCP, tick the DHCP box. The router will automatically assign all network parameters to the device. Unless the following parameters are set manually for the network.

IP Address: The IP address is the identifier of IPC on the network. It consists of four numbers between 0 and 255 separated by periods. For example, "192.168.001.100".

Subnet Mask: Subnet mask is network parameter that defines the range of IP addresses that can be used in the network. If the IP address is likened to the street you live on, then the subnet mask is the community. A subnet address also consists of four numbers separated by periods, for example, "255.255.000.000".

Gateway: This address allows IPC to access the network. The format of a gateway address is the same as that of an IP address, for example, "192.168.001.001".

IPv6 Address: The IPv6 address is the identifier of IPC on the network. It consists of eight numbers between 0 and FFFF, separated by colons, for example, "ABCD: EF01: 2345: 6789: ABCD: EF01: 2345: 6789" .

DNS1/DNS2: DNS1 is the active DNS server and DNS2 is the standby DNS server. Usually you just need to enter the DNS1 server address.

Main Stream: If this option is enabled, the main stream can be used for multicast.

Multicast Address: Specify a multicast address. A third-party player can request the camera to send a multicast media stream through the RTSP protocol.

Video Encryption Transmission: Indicates audio/video encryption transmission.

If the IPC is capable of warning you of repeated IP addresses in the same network segment, when IP addresses are repeatedly used, the following message will pop up when you click  button.

If connecting to a router that allows DHCP, tick the DHCP box. The router will automatically assign all network parameters to the device. Unless the following parameters are set manually for the network.

IP Address: The IP address is the identifier of IPC on the network. It consists of four

numbers between 0 and 255 separated by periods. for example, "192.168.001.100".

Subnet Mask: Subnet mask is network parameter that defines the range of IP addresses that can be used in the network. If the IP address is likened to the street you live on, then the subnet mask is the community. A subnet address also consists of four numbers separated by periods, for example, "255.255.000.000".

Gateway: This address allows IPC to access the network. The format of a gateway address is the same as that of an IP address, for example, "192.168.001.001".

IPv6 Address: The IPv6 address is the identifier of IPC on the network. It consists of eight numbers between 0 and FFFF, separated by colons, for example, "ABCD: EF01: 2345: 6789: ABCD: EF01: 2345: 6789" .

DNS1/DNS2: DNS1 is the active DNS server and DNS2 is the standby DNS server. Usually you just need to enter the DNS1 server address.

Main Stream: If this option is enabled, the main stream can be used for multicast.

Multicast Address: Specify a multicast address. A third-party player can request the camera to send a multicast media stream through the RTSP protocol.

Video Encryption Transmission: Indicates audio/video encryption transmission.

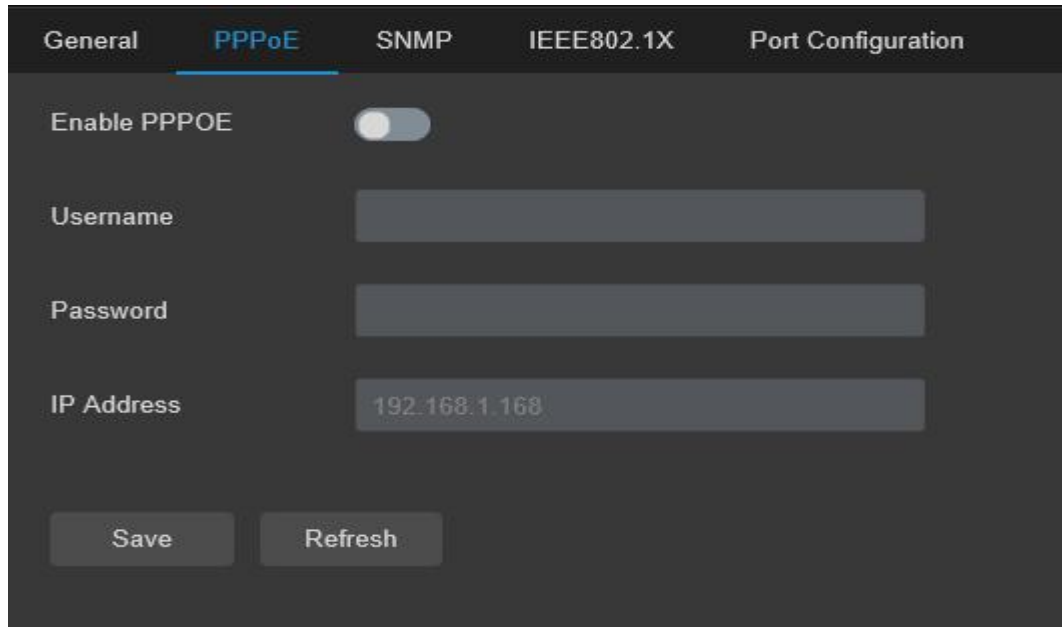
If the IPC is capable of warning you of repeated IP addresses in the same network segment, when IP addresses are repeatedly used, the following message will pop up when you click  button.



The screenshot shows a dark-themed configuration window. It has two input fields: 'IP Address' with the value '172.20.65.39' and 'Subnet Mask' with the value '255.255.255.0'. To the right of the IP Address field is a 'Test' button. Below the IP Address field, the text 'The address is used' is displayed in red. The Subnet Mask field is empty.

8.17.2 PPPoE

The device supports networking communication via PPPoE dial-up.



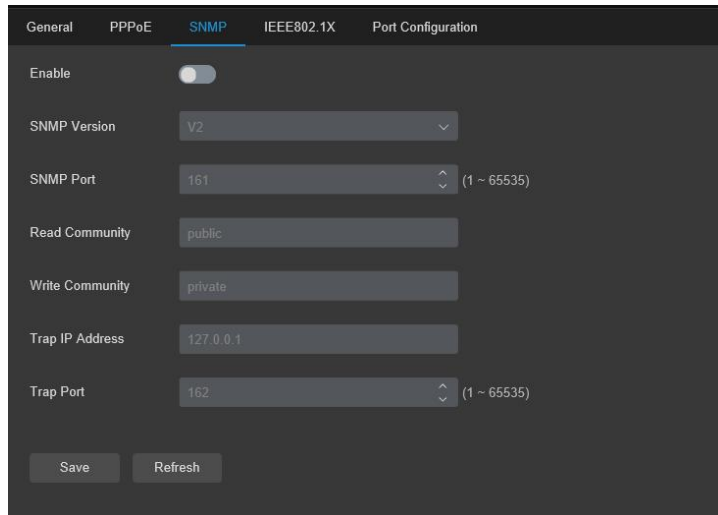
The screenshot shows a web-based configuration interface for a network device. At the top, there are five tabs: "General", "PPPoE", "SNMP", "IEEE802.1X", and "Port Configuration". The "PPPoE" tab is currently selected and highlighted with a blue underline. Below the tabs, the configuration area is divided into sections. The first section is "Enable PPPOE", which contains a toggle switch that is currently turned off. Below this are three input fields: "Username", "Password", and "IP Address". The "IP Address" field is pre-filled with the value "192.168.1.168". At the bottom of the configuration area, there are two buttons: "Save" and "Refresh".

Check the “**Enable PPPoE**” box and enter the PPPoE username and password.

Click “**Save**” to save and the system will reboot to activate the PPPoE settings.

8.17.3 SNMP

Simple Network Management Protocol(SNMP), enabling this protocol, supports remote monitoring of devices through the network.

A screenshot of a network configuration interface for SNMP. The interface has a dark theme with a top navigation bar containing tabs: 'General', 'PPPoE', 'SNMP' (which is selected and highlighted in blue), 'IEEE802.1X', and 'Port Configuration'. Below the tabs, there are several configuration fields: 'Enable' with a toggle switch currently turned off; 'SNMP Version' with a dropdown menu set to 'V2'; 'SNMP Port' with a numeric input field set to '161' and a range '(1 ~ 65535)' to its right; 'Read Community' with a text input field set to 'public'; 'Write Community' with a text input field set to 'private'; 'Trap IP Address' with a text input field set to '127.0.0.1'; and 'Trap Port' with a numeric input field set to '162' and a range '(1 ~ 65535)' to its right. At the bottom left, there are two buttons: 'Save' and 'Refresh'.

Enable: Enable or disable SNMP.

SNMP Version: Set the version of SNMP server, V1, V2 and V3 are available.

SNMP Port: Set the port of the SNMP server.

Read Community: Set the SNMP server Read Community value.

Write Community: Set the SNMP server Write Community value.

Trap IP Address: Set the SNMP server Trap IP address.

Trap Port: Set the SNMP server trap port.

8.17.4 IEEE802.1X

IEEE 802.1X is a port based network access control protocol primarily used in local area network surrounding to enhance network security by verifying user identity and controlling access permissions at the port level. Network devices connected to

switch ports can access resources in the local area network through authentication. If authentication cannot be passed, resources in the local area network cannot be accessed.

General

PPPoE

SNMP

IEEE802.1X

Port Configuration

Enable IEEE802.1X

Authentication methods

EAP-MD5

EAPOL Version

IEEE802.1X-2010

Username

username

Password

Save

Refresh

- Enable IEEE802.1X:** Enable or disable IEEE802.1X.
- Authentication Methods:** Set the authentication methods of IEEE802.1X.
- EAPOL Version:** EAPOL Version.
- Username:** Set the IEEE802.1X authentication username.
- Password:** Set the IEEE802.1X authentication password.

8.17.5 Port Configuration

General

PPPoE

SNMP

IEEE802.1X

Port Configuration

Server	Internal Port	External Port	Protocol	UPNP Status	Mapping Strategy	UPNP
HTTP Port	80	80	TCP	Inactive	Auto	
HTTPS Port	443	443	TCP	Inactive	Auto	
RTSP	554	554	TCP	Inactive	Auto	

Multicast Port

10000

(1024-65535)

P2P Switch

Save

Default

Refresh

HTTP Port: Use the web to access the device's port through the HTTP protocol, with

a default of 80

HTTPS Port: Use the web to access the device's port via HTTPS protocol, default 443

RTSP Port: The port used to access devices using the RTSP protocol, default 554.

UPNP: If you want to use Web Client to log in to the device remotely, port

forwarding needs to be done in the router. If the user's router supports UPnP,

please enable this option. In this case, users do not need to manually configure

port forwarding in the router. If the user's router does not support UPnP, please

ensure that port forwarding is done manually in the router.

Multicast port: Allow to set the multicast port.

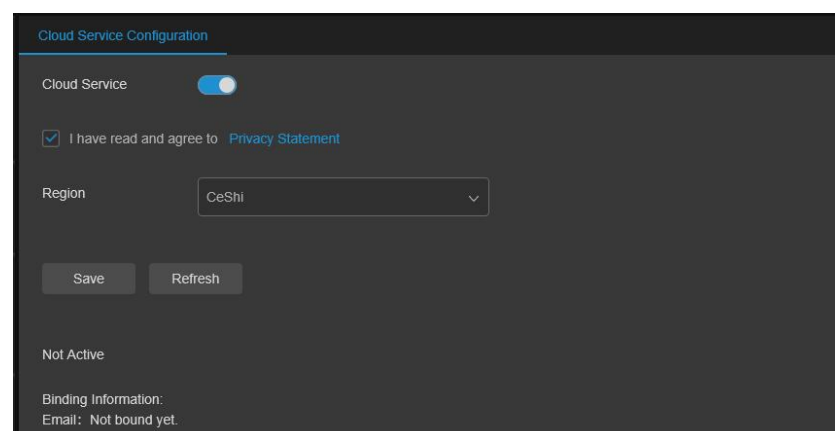
P2P Switch: P2P will not take effect when it is disabled.

8.18 Cloud Service Configuration

By enabling the cloud service function, setting the region you belong to,

generating a dynamic QR code, and scanning this QR code using the APP, add the

device to the APP for management.



The screenshot shows the 'Cloud Service Configuration' window. At the top, the title 'Cloud Service Configuration' is displayed. Below it, there is a 'Cloud Service' toggle switch that is currently turned on. Underneath the toggle, there is a checkbox labeled 'I have read and agree to' followed by a link to the 'Privacy Statement'. Below this, there is a 'Region' label and a dropdown menu showing 'CeShi'. At the bottom of the configuration area, there are two buttons: 'Save' and 'Refresh'. Below the configuration area, there is a status section that says 'Not Active'. At the very bottom, there is a 'Binding Information' section with the text 'Email: Not bound yet.'

Cloud Service: Cloud service switch.

Privacy Statement: To enable the cloud service feature, you need to read and agree to the privacy statement first.

Region: Select cloud service region (must be the same as CybVu APP registered region)

QR code display: After enabling cloud service and setting the region you belong to, dynamic QR code will be generated automatically (the validity of QR code is 300s, after expiry, it will be invalid automatically and you need to get it again). Use CybVu APP to scan the QR code, add the camera to APP for management.

Unbind: Click the 'Unbind' button to unbind the camera from CybVu APP account, the device prompts offline and inaccessible on the APP after unbinding.

Note: The cloud service function requires communication with the cloud server, so you need to ensure that the device is connected to the Internet when using this function.

8.19 Mail Settings

8.19.1 Parameter Settings

This menu is allowed to configure email settings. To receive system notifications on email when an alarm is triggered and the hard disk is full, complete these settings.

Email: Tick to enable.

Type: mailbox type, there are two types: Outlook and Other.

Encryption: Enable if the user's email server requires SSL or TLS authentication. If you are not sure, set to **Auto**.

SMTP Port: Enter the SMTP port of the email server.

SMTP Server: Enter the address of the SMTP server for e-mail.

UserName: Enter the user's email address.

Password: Enter the user's email password.

Receiver 1~3: Enter the e-mail address where the user wants to receive event notifications from the camera.

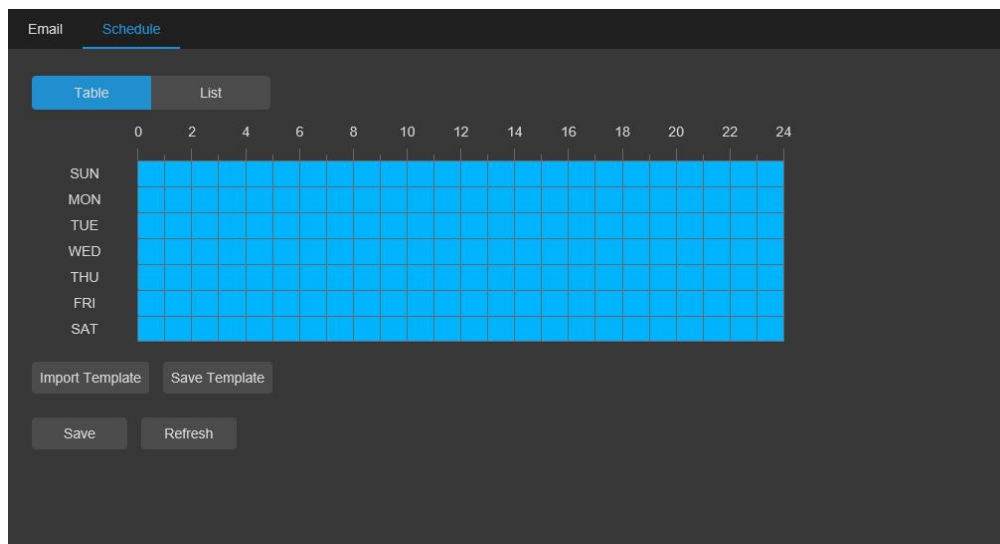
Interval: Configure the time interval between the camera's notification e-mails.

To ensure that all settings are correct, click **Test Email**. An email will be sent to the user's inbox. If the user receives the test email, the configuration parameters

are correct.

8.19.2 Schedule Setup

Set the schedule for the mail function to take effect, so that the mail function will take effect only during the schedule time period. Refer to chapter 8.7 Schedule Setup.



8.20 RTSP Protocol Settings

RTSP(Real Time Streaming Protocol), Real time streaming protocol control the transmission of data streams by setting RTSP parameters.

RTSP

RTSP Enable ☒

Anonymous Login ☐ (No username or password required)

Metadata Platform ? None ▾

Instruction:
rtsp://IP:RtspPort/rtsp/streaming?channel=01&subtype=A
A: 0(main stream), 1(sub stream), 2(mobile stream)

Save Refresh

RTSP Enable: RTSP switch. Tick to enable and use the protocol.

Anonymous Login: Anonymous login. When enabled, no authentication is required to use this protocol.

Metadata Platform: Used to control the pushing of event alarm data to the third-party platform when the device is interfaced to the third-party monitoring platform using the onvif protocol.

None: No external metadata push

General: Push common format metadata externally, available for third-party platforms without special requirements

Milestone: Pushing metadata externally for the Milestone platform.

8.21 Dynamic Domain Name Settings

On this page, you can configure the applied domain name to access the device through domain name.

The image shows a dark-themed web interface for DDNS configuration. At the top, there's a tab labeled 'DDNS'. Below it, a toggle switch is labeled 'DDNS'. Underneath, there's a 'Server' dropdown menu with 'NO_IP' selected. Below that are four text input fields labeled 'Hostname', 'Username', and 'Password'. At the bottom, there are three buttons: 'Save', 'Test', and 'Refresh'.

DDNS: DDNS switch, check to enable DDNS.

Server: Select the preferred DDNS server (DYNDNS, NO_IP, partial support for CHANGEIP, DNSEXIT).

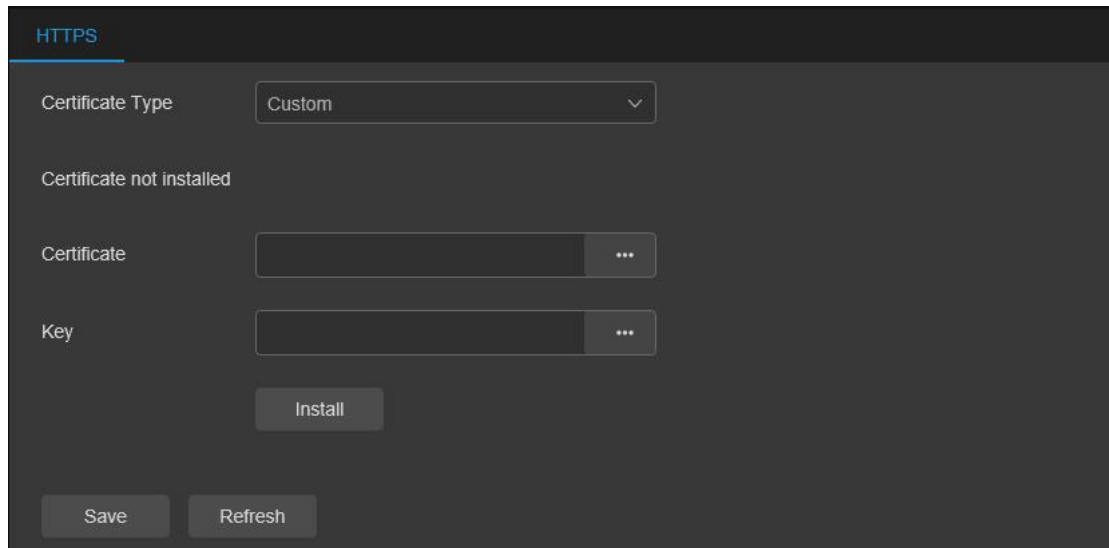
Hostname: Enter the domain name that the user created on the web page of the DDNS service provider. This is the address that the user types in the URL box when they want to connect to the camera remotely via a PC.

User/Password: Enter the user name and password obtained when creating an account on the DDNS service provider's web page.

After entering all parameters, click **“Test”** to test the DDNS settings. If the test result is **“Network unreachable or DNS error”**, please check whether the network is normal or the DDNS information is correct.

8.22 HTTPS protocol settings

This menu allows access to the device via HTTPS protocol.



The screenshot shows the 'HTTPS' settings page. At the top, there's a 'Certificate Type' dropdown menu set to 'Custom'. Below it, a message states 'Certificate not installed'. There are two input fields: 'Certificate' and 'Key', each with a file selection icon (three dots). An 'Install' button is positioned below these fields. At the bottom, there are 'Save' and 'Refresh' buttons.

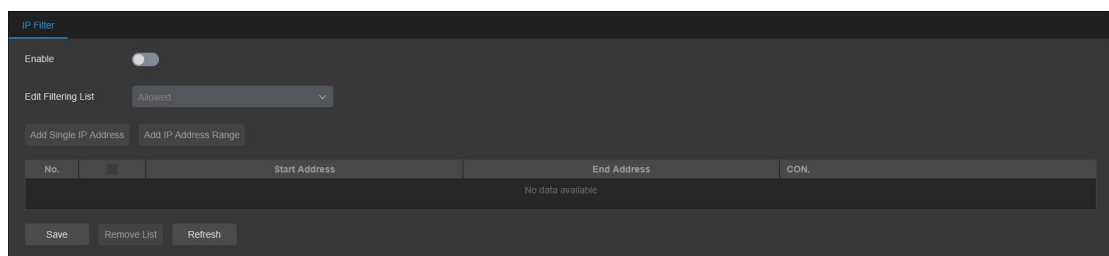
Certificate Type: There are two options, including default and custom. The Custom option allows to connect devices using your own certificate.

Certificate: Select a custom certificate when the Custom option is selected.

Key: Select a custom key file when the Custom option is selected.

8.23 IP Filter

The IP Filter function allows you to set a black and white list of connected devices.



The screenshot shows the 'IP Filter' settings page. It starts with an 'Enable' toggle switch. Below it is an 'Edit Filtering List' dropdown menu set to 'Allowed'. There are two buttons: 'Add Single IP Address' and 'Add IP Address Range'. A table is present with columns: 'No.', 'Start Address', 'End Address', and 'CON.'. The table is currently empty, with a 'No data available' message. At the bottom, there are 'Save', 'Remove List', and 'Refresh' buttons.

Enable: Enable or disable the IP filter. choose to enable the block list or allow list if this option is turned on.

Edit Filtering List: Select the list you want to set (allow list or block list).

Single Add: Add a single IP address.

Network Segment Add: Network Segment Add.

Start Address: Enter the start address.

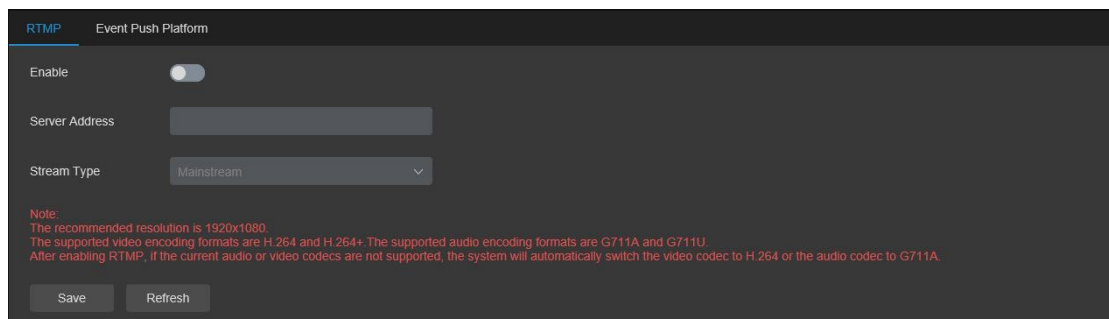
End Address: Enter the end address.

Delete: Delete the added user IP from the allow/block list.

8.24 Platform Access

8.24.1 RTMP

RTMP function page, when you turn on the enable switch and fill in the correct server address, push the audio and video stream of the device to the YouTube live server.



The screenshot shows the 'RTMP' configuration page within the 'Event Push Platform'. It features a dark-themed interface. At the top, there's a tab labeled 'RTMP' and a title 'Event Push Platform'. Below this, there's an 'Enable' toggle switch which is currently turned off. Underneath the toggle is a 'Server Address' text input field. Below that is a 'Stream Type' dropdown menu with 'Mainstream' selected. A red 'Note' is displayed below the dropdown, stating: 'The recommended resolution is 1920x1080. The supported video encoding formats are H.264 and H.264+. The supported audio encoding formats are G711A and G711U. After enabling RTMP, if the current audio or video codecs are not supported, the system will automatically switch the video codec to H.264 or the audio codec to G711A.' At the bottom of the form, there are two buttons: 'Save' and 'Refresh'.

Enable: Enable or disable the RTMP function.

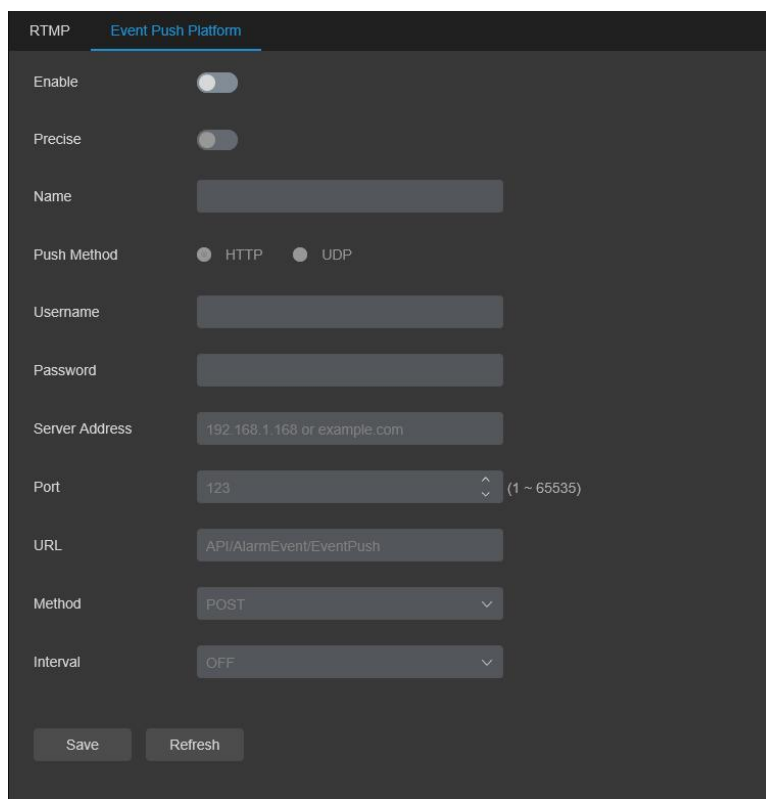
Server Address: The address of the server to be pushed.

Stream Type: Select the audio and video stream to be pushed to the server.

8.24.2 Event Push Platform

Event push can be divided into HTTP push method, HPPTS push method, and UDP push method: HTTP/HTTPS method includes POST method and GET method. UDP has three methods: **unicast**, **multicast**, and **broadcast**. (**Note:** Some models support event push function).

1. HTTP/HTTPS Push



The screenshot shows a configuration interface for the 'Event Push Platform' under the 'RTMP' tab. The interface is dark-themed and contains the following fields and controls:

- Enable:** A toggle switch currently turned off.
- Precise:** A toggle switch currently turned off.
- Name:** A text input field.
- Push Method:** Radio buttons for 'HTTP' (selected) and 'UDP'.
- Username:** A text input field.
- Password:** A text input field.
- Server Address:** A text input field with the placeholder '192.168.1.168 or example.com'.
- Port:** A numeric input field with '123' and a range indicator '(1 ~ 65535)'.
- URL:** A text input field with the value 'API/AlarmEvent/EventPush'.
- Method:** A dropdown menu currently set to 'POST'.
- Interval:** A dropdown menu currently set to 'OFF'.
- Buttons:** 'Save' and 'Refresh' buttons at the bottom.

Enable: Enable or disable the Event Push function.

Precise: Enable or disable the Precise function. When on, pushes once when an alarm is triggered and again when the alarm ends. When it is off, it will only push once when the alarm is triggered.

Name: Set the channel name. Do not support Chinese display.

Push method: Supports HTTP push, HTTPS push, and UDP push methods.

Username: Set the username.It can be set to NULL if there is not any.

Password: Set the password.It can be set to NULL if there is not any.

Server Address: Set the server address.

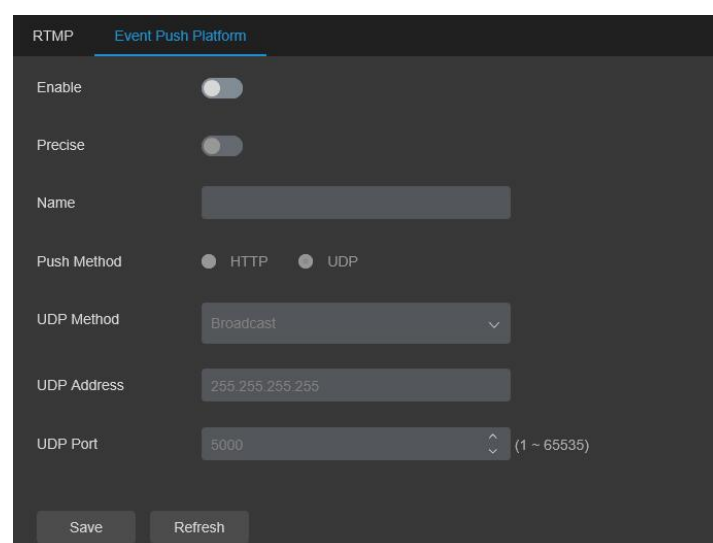
Port: Set the server port(Port number range: 1-65535).

URL: Set the server API. It can be set to NULL if there is not any.

Method: HTTP/HTTPS push type. Support POST and GET methods: Only the HTTP/HTTPS-POST method supports pushing graphs, while others only push messages without accompanying graphs. The alarm type of the push image should be consistent with the preview alarm bar on the web end.

Interval: Set the keep-alive interval.The keep-alive mechanism ensures that a notification is periodically pushed to the client in accordance with the preset time while normal alarm push is not affected.There is no keep-alive mechanism in UDP mode.

2. UDP Push



The screenshot shows a configuration window titled "Event Push Platform" with a tab for "RTMP". The "Enable" toggle is turned on. The "Precise" toggle is turned off. The "Name" field is empty. The "Push Method" is set to "UDP" (radio button selected). The "UDP Method" is set to "Broadcast" (dropdown menu). The "UDP Address" is set to "255.255.255.255" (text input). The "UDP Port" is set to "5000" (spin box) with a range of "(1 ~ 65535)". At the bottom, there are "Save" and "Refresh" buttons.

Enable: Enable or disable the event push function.

Precise: Enable or disable Precise Push. When it is on, push once when alarm is triggered and again when the alarm is over. When it is off, it will only push once when the alarm is triggered.

Name: Channel name, does not support Chinese display.

Push Method: Support HTTP push method and UDP push method. Check HTTP for HTTP push method, check UDP for UDP push method.

UDP Method: UDP push type, supports Unicast, Multicast and Broadcast methods:

Unicast: Enter the IP address and port of the client's UDP server to receive push messages, and only this address can receive messages

Multicast: Multiple client UDP servers on the same network segment using the same UDP address and port can receive the message, while other non-UDP addresses will not receive it.

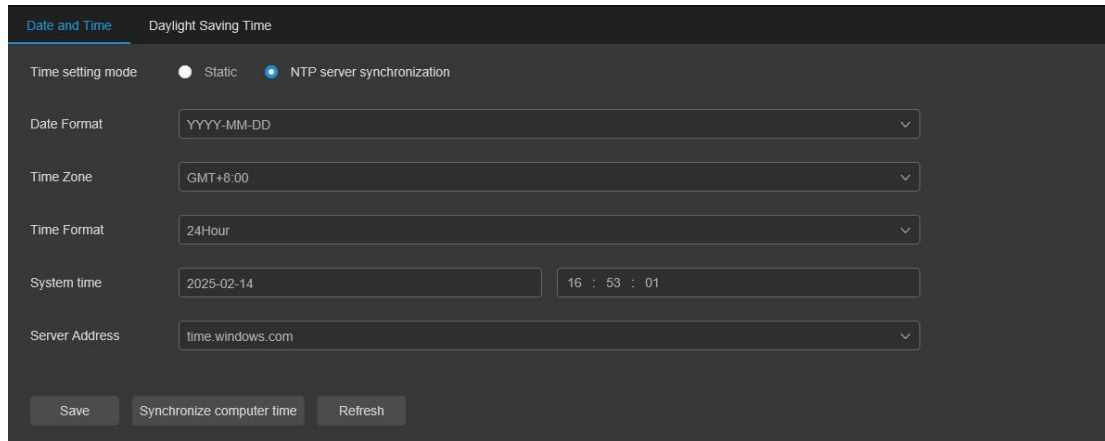
Broadcast: All UDP servers under the same network segment can receive the message.

UDP Address: UDP server address.

UDP Port: UDP server port (port range 1-65535).

8.25 General system setup

8.25.1 Date and time



The screenshot shows a 'Date and Time' settings window. At the top, there are two tabs: 'Date and Time' (active) and 'Daylight Saving Time'. Below the tabs, the 'Time setting mode' is set to 'NTP server synchronization' (indicated by a blue dot). The 'Date Format' is 'YYYY-MM-DD', 'Time Zone' is 'GMT+8:00', and 'Time Format' is '24-Hour'. The 'System time' is displayed as '2025-02-14' and '16 : 53 : 01'. The 'Server Address' is 'time.windows.com'. At the bottom, there are three buttons: 'Save', 'Synchronize computer time', and 'Refresh'.

Time settings mode: There are static and NTP sync options. The static mode requires you to set the time by yourself, while the NTP sync will be calibrated over the network.

Date Format: Set the date format.

Time Zone: Select the time zone associated with the user's region or city.

Time Format: Select the preferred time format.

System Time: Click in the box to change the date and time.

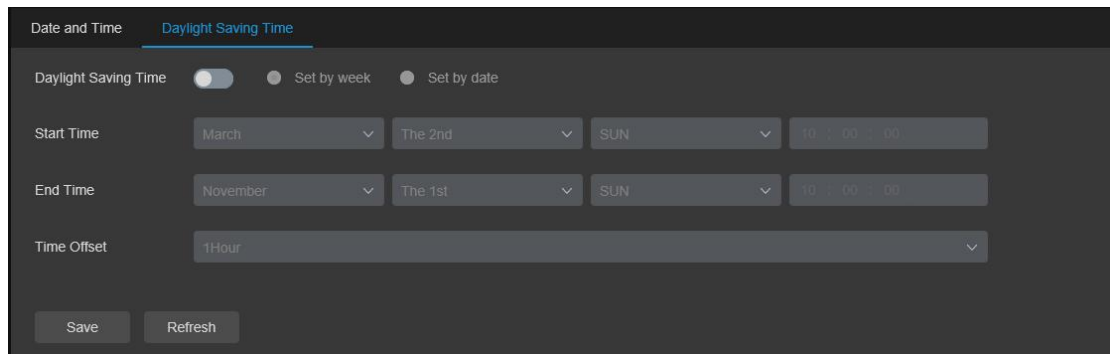
Synchronize computer time: Synchronise time to computer time.

If you select the NTP calibration mode, you cannot set the time manually at this time.

Sever Address: Optional automatic timekeeping site.

8.25.2 Daylight Saving Time

The DST (Daylight Saving Time) feature gives the user the option to add daylight saving time to a specific time zone or region.



The screenshot shows a configuration window titled "Date and Time" with a sub-tab "Daylight Saving Time". At the top, there are three radio buttons: "Daylight Saving Time" (which is selected), "Set by week", and "Set by date". Below these are three rows of input fields. The "Start Time" row has dropdowns for "March", "The 2nd", and "SUN", followed by a time field set to "10 : 00 : 00". The "End Time" row has dropdowns for "November", "The 1st", and "SUN", followed by a time field set to "10 : 00 : 00". The "Time Offset" row has a single dropdown menu set to "1Hour". At the bottom of the form are two buttons: "Save" and "Refresh".

Daylight Saving Time: Enable this option if the user's time zone uses daylight saving time.

Set by week: Select the month, specific day of the week and time when Daylight Saving Time begins and ends. For example, 2:00 a.m. on the first Sunday of a particular month.

Set by date: Select the date and time when daylight saving time starts and ends.

Start Time / End Time: Set the start time and end time for daylight saving time.

Time Offset: Select the amount of time Daylight Saving Time adds to the user's time zone. This is the difference between Coordinated Universal Time (UTC) and local time.

8.26 Multi-User Management

This menu is user configurable with user name, password and user rights.

The system supports the following user types.

ADMIN - System Administrator: The administrator can fully configure the system and change the administrator and user password.

And enable/disable password protection.

USER - Normal User: User can only access preview, search, playback and other functions. Users can set up multiple users with different system access rights.

ADMIN - System Administrator: The administrator can fully configure the system and change the administrator and user password.

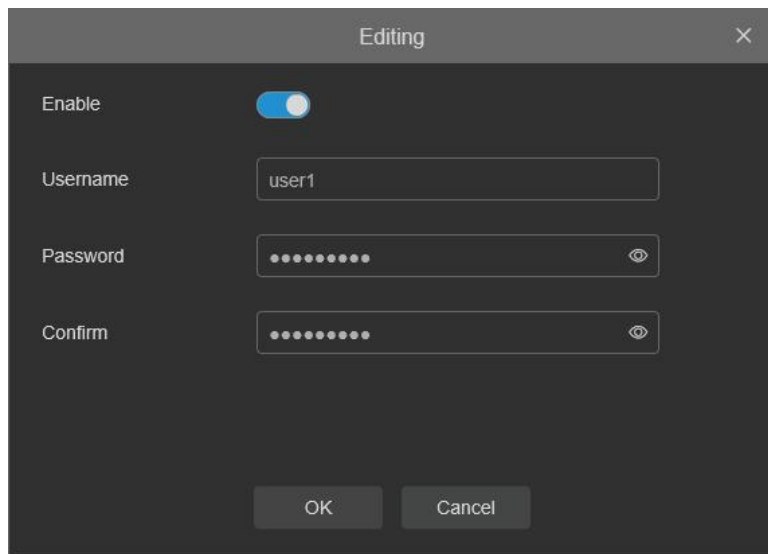
And enable/disable password protection.

USER - Normal User: User can only access preview, search, playback and other functions. Users can set up multiple users with different system access rights.

Multi-User					
NO.	Username	Level	Enable	Password	Policy
1	admin	ADMIN	Enable	ℓ	
2	user1	USER	Disable	ℓ	⊗
3	user2	USER	Disable	ℓ	⊗
4	user3	USER	Disable	ℓ	⊗
5	user4	USER	Disable	ℓ	⊗
6	user5	USER	Disable	ℓ	⊗
7	user6	USER	Disable	ℓ	⊗

Refresh

To change the password for an administrator or user, click the **“Password Edit”** icon. The password must be 8-16 digits and at least 2 combinations of numbers, uppercase letters, lowercase letters and special characters. Enter the new password again to confirm. Save the new password and the system will ask the user to enter the old password for authentication.



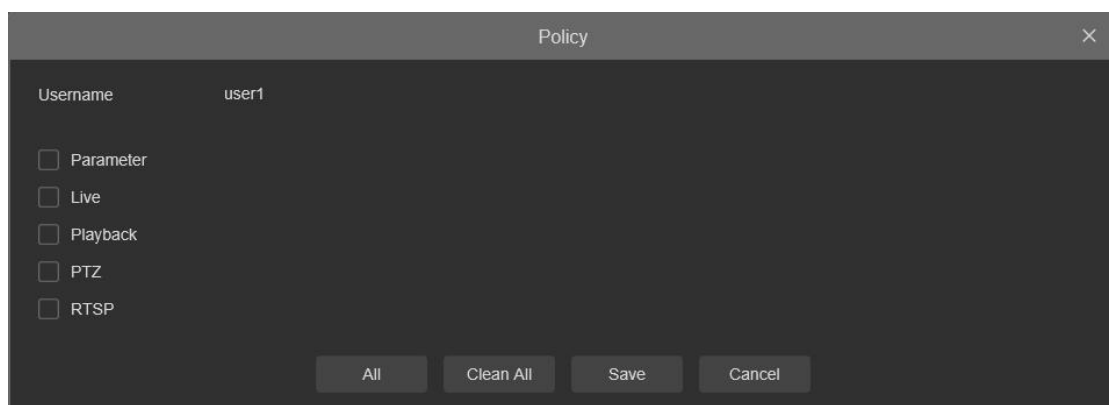
The 'Editing' dialog box has a title bar with 'Editing' and a close button. It contains four fields: 'Enable' with a toggle switch, 'Username' with a text input containing 'user1', 'Password' with a masked input (dots) and an eye icon, and 'Confirm' with a masked input (dots) and an eye icon. At the bottom are 'OK' and 'Cancel' buttons.

1. One of the currently inactive users and click the Password Edit icon.
2. Tick '**Enable**' to enable users.
3. Click '**UserName**' to edit the user name.
4. Click the field next to **Password** to enter the desired password.
5. Click the field next to **Confirm** to re-enter your password.

Click **OK**. The user will be required to enter the administrator password for authentication.

To set the permissions for sub users: Click  enter the Policy page and tick the box corresponding to the function to enable the sub user's permissions in this area.

Click **All** to check all boxes and Clear to **clear** all boxes.



The 'Policy' dialog box has a title bar with 'Policy' and a close button. It shows 'Username' as 'user1'. Below are five unchecked checkboxes: 'Parameter', 'Live', 'Playback', 'PTZ', and 'RTSP'. At the bottom are four buttons: 'All', 'Clean All', 'Save', and 'Cancel'.

8.27 Maintenance

The system log displays important system events such as Motion alerts and system warnings. Users can easily import a backup file of the system log to their computer for a set period of time.

8.27.1 Log management

The system log displays important system events such as Motion alerts and system warnings. Users can easily import a backup file of the system log to their computer for a set period of time.

Log

Load Default

Upgrade

Parameter Management

Auto Maintenance

Developer Mode

Log Type

All

Search

Name

Export

Start Time

02/14/2025

00 : 00 : 00

End Time

02/14/2025

23 : 59 : 59

No.	Time	Log Content	Log Info
1	02/14/2025 16:43:19	Cloud Server	Type: Cloud Service Save Operation result: The operation was successful User Name: admin IP: 172.20.65.2
2	02/14/2025 16:43:01	Login	Operation result: The operation was successful User Name: admin IP: 172.20.65.2
3	02/14/2025 00:07:50	Change Time	
4	02/14/2025 00:07:50	NTP	

Total: 4

Log Search and Backup.

Select **Log type** of event to search for from the drop-down list next to Log Type, or select **All** to view the entire system log for the selected time period. The available types are System Log, Configuration Log, Alarm Log, Account Log, Record Log, Storage Log and Network Log.

System: System Settings, Reboot, Auto Reboot, Upgrade, Time Settings, and NTP Calibration.

Configuration: IPC live control , private area settings , recording mode settings , recording plan settings , main stream settings , network settings, Sub Stream settings, email settings, color settings, Motion detection settings, hard disk settings, multi-user settings, NTP settings, image control, third stream settings, RTSP settings, IP filter settings, restore factory settings, rare sound detection settings, export settings, and import settings. Event Push settings, Capture settings, Deterrent settings, AI settings, FTP settings, DDNS settings, HTTPS settings, audio settings, Siren settings, system maintenance, video masking, IO alarms, cloud service setup.

Alarm: Start of Motion detection, end of Motion detection. Start of I/O alarm, end of I/O alarm. Start of Video Tamper , end of Video Tamper. Start of Line Crossing, end of Line Crossing. Start of Object Detection, end of Object Detection. Start of Pedestrian and Vehicle, end of Pedestrian and Vehicle. Start of Face Detection, end of Face Detection. Start of Cross Counting, end of Cross Counting. Start of Crowd Density, end of Crowd Density. Start of Queue Length, end of Queue Length. Start of License plate detection, end of License plate detection. Start of Intrusion, end of Intrusion. Start of Enter Region, end of Enter Region. Start of Exit Region, end of Exit Region. Start of Rare Sound, end of Rare Sound. Start of Sound detection, end of Sound detection.

Account: Log in, log out, lock and switch users.

Recording: Search, playback and backup.

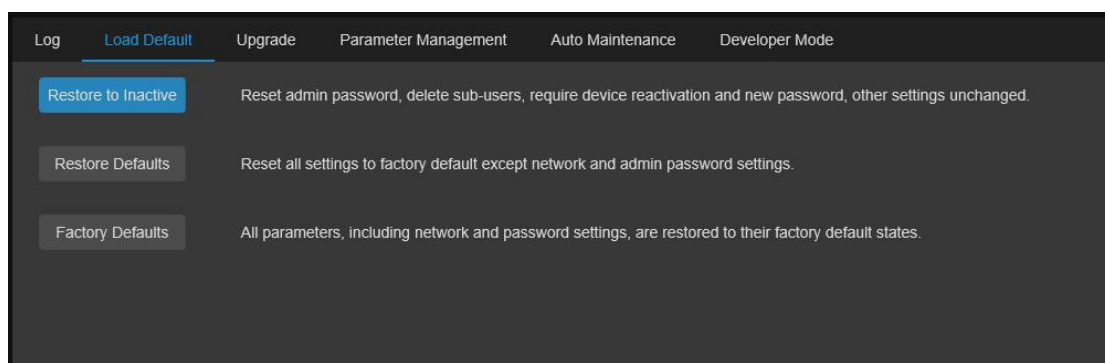
Storage: Format hard disk, hard disk full and hard disk error.

Network: Network down, network up, network error and network mode change.

1. Select the event type to search for from the drop-down list next to **Minor Type** (if ALL is selected for Log Type, this menu will not be available).
2. Enter the export file name in the field next to **Name**. Click Export to create a backup of the syslog.
3. Click the area next to **Start Time** to select the start date and time of the search from the on-screen calendar.
4. Click the area next to **End Time** to select the end date and time of the search from the on-screen calendar.
5. Click **Search**.
6. Browse the system log from the selected time period:
7. Use the **< > / < >** button in the lower right corner of the menu to switch between pages of syslog events.

8.27.2 Load Default

Users can select different reset methods on this page to restore the device's configuration parameters to factory settings. Restoring the factory settings will not format the data of the TF card.



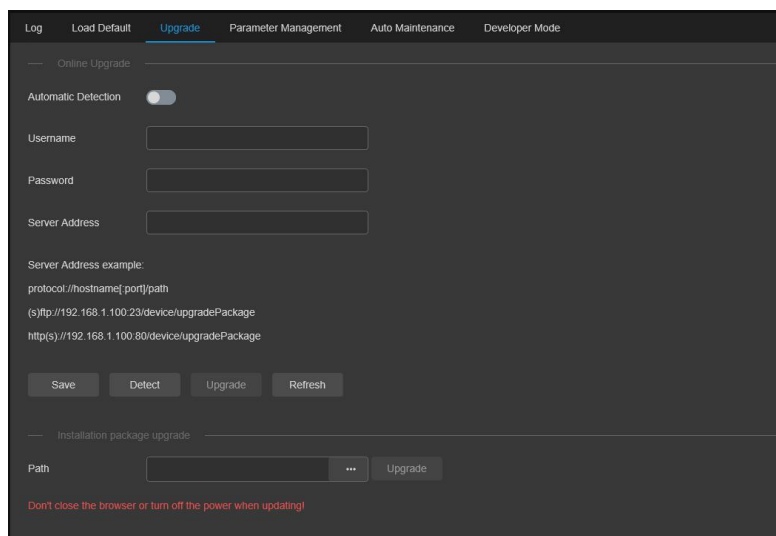
Restore to Inactive: Reset the administrator password, deletes all sub-users, the camera needs to be reactivated, and the parameters of the other pages remain unchanged.

Restore Defaults: Except for the network and administrator password, all other pages are restored to the factory settings.

Factory Defaults: All parameters of the camera are restored to the factory settings.

8.27.3 System Upgrade

This menu is allowed to upgrade the firmware of your device.



The screenshot shows a web interface with a top navigation bar containing 'Log', 'Load Default', 'Upgrade' (highlighted), 'Parameter Management', 'Auto Maintenance', and 'Developer Mode'. The main content area is titled 'Online Upgrade' and includes an 'Automatic Detection' toggle switch. Below this are input fields for 'Username', 'Password', and 'Server Address'. A 'Server Address example' section shows the format: 'protocol://hostname[:port]/path' with examples '(s)ftp://192.168.1.100:23/device/upgradePackage' and 'http(s)://192.168.1.100:80/device/upgradePackage'. At the bottom of this section are 'Save', 'Detect', 'Upgrade', and 'Refresh' buttons. A second section titled 'Installation package upgrade' has a 'Path' input field with a file selector icon and an 'Upgrade' button. A red warning message at the bottom states: 'Don't close the browser or turn off the power when updating!'.

Automatic Detection: Automatic detection. Turn on this button to automatically detect online upgrade files.

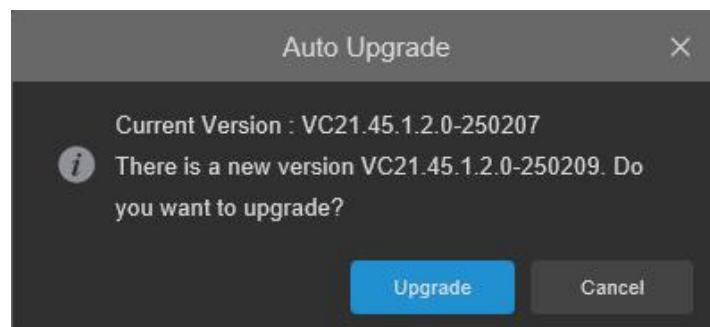
Username: Server username.

Password: The server password.

Server Address: Enter the online upgrade address (HTTP upgrade does not require user name and password).

Save: Click this button to save the current setting.

Detect: After uploading the upgrade file and setting the upgrade path, click Detect to manually detect the online upgrade file. When a new version is detected, a prompt will pop up, as shown below picture.



Upgrade: Click this button to start the system upgrade.

Place the firmware file (.bin file) on your computer's hard drive.

Click "..." next to "Path" to select the firmware file in your computer.

Click the **Upgrade** button to start the system upgrade. The system upgrade will last about 2-3 minutes, please do not power off the device or close IE during the firmware upgrade process.

Note: If the device needs to detect the latest firmware version of the cloud server, please turn on the cloud service switch to bind CybVu APP and clear the configuration parameters of online upgrade on this page.

8.27.4 Parameter Management

The user can export the configured main menu parameters to a computer or import the exported setup file from the computer to the device.

Import File: Click on the box to bring up the path window, select the parameter file and click **Import** to start importing parameters.

Export file name: Click the box to enter the file name of the exported parameter.

Click **Export** to export the parameters.

8.27.5 Auto Maintenance

The user can export the configured main menu parameters to the computer or import the exported setup file from the computer to the device.

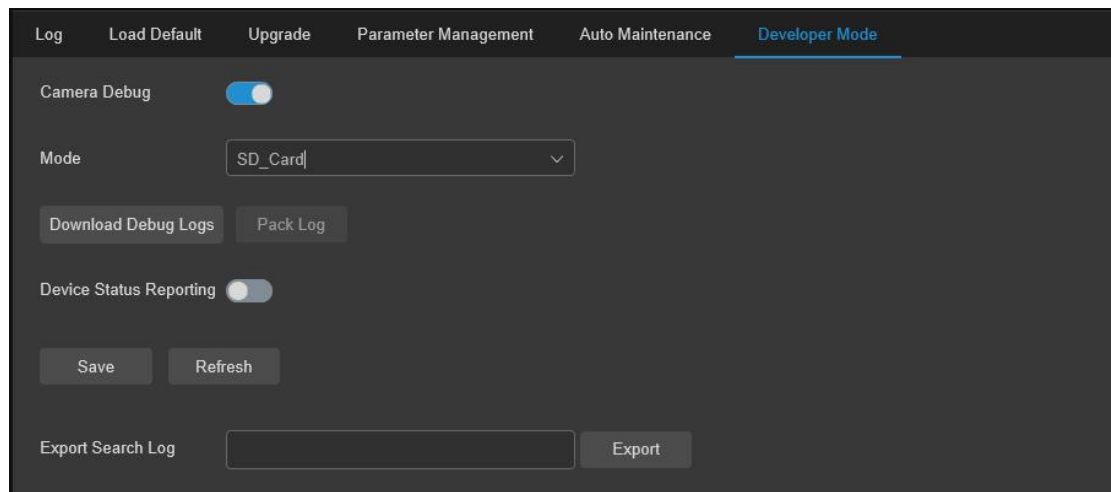
Auto Maintenance: Enable or disable automatic maintenance feature

Maintenance Interval: Set the automatic maintenance interval of the camera.

Maintenance Time: Set the time period for automatic camera maintenance. (**Note:** the device will reboot at random times during this period).

8.27.6 Developer Mode

This menu enables developer mode, which is convenient for developers to collect and record log information for device debugging.



Camera Debug: Tick to enable.

Mode: Select the mode of collecting and logging debugging information, there are three modes: **NVR**, **SD_Card** and **FTP**.

Download Debug Logs: Export debug information. Select SD_Card mode, click the button, enter the correct password, the device will export the debug information to the local computer.

Pack Log: Pack logs. Select NVR or FTP mode, click this button, the device will upload the pack log information to FTP server.

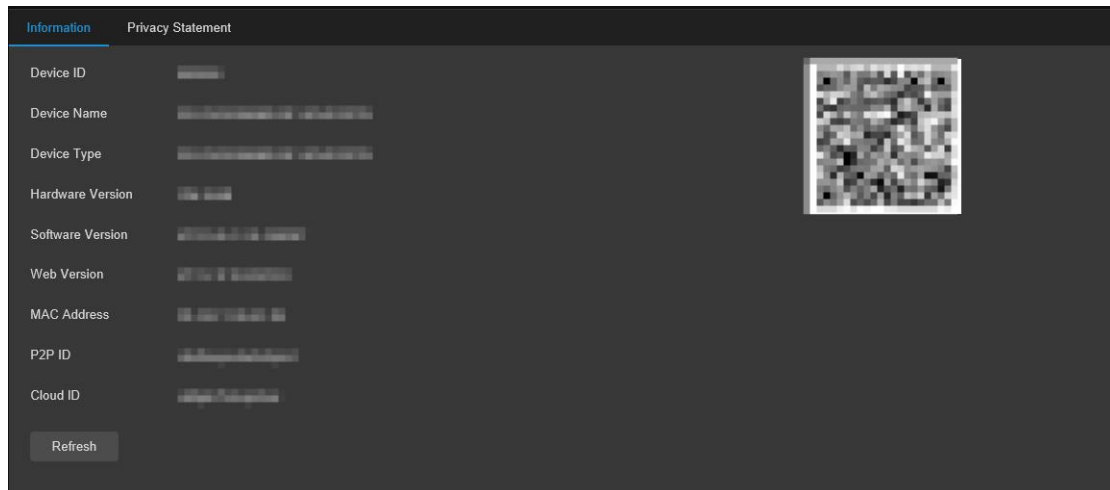
Device Status Reporting: Enable this function to upload the storage status, channel status and device information to P2P server.

Export Search Log: Export the search log. Enter the file name of the log to be exported and click the Export button to export all the log files stored on the device to the local PC.

8.28 System information

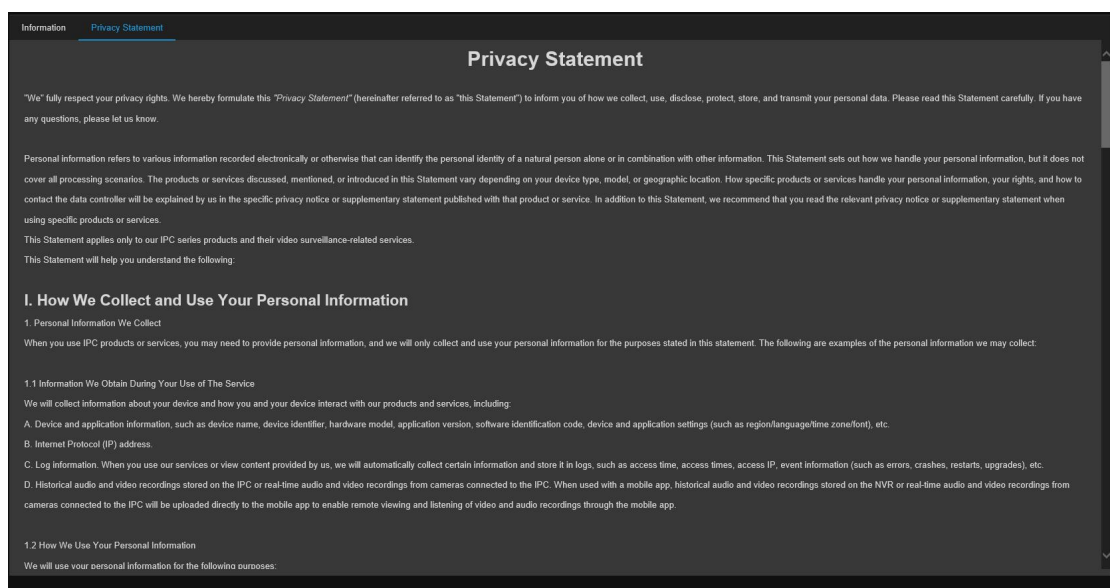
8.28.1 Device information

This menu allows users to view system information, such as device ID, device model name, MAC address, firmware version, etc.



8.28.2 Privacy Statement

Users can view the specifics of the device's privacy agreement on this page.



Chapater 9 Local settings

This menu allows you to set the save paths for recordings, downloads, and screenshots, as well as the formats for recordings and screenshots.

Note: This page is visible only when accessed in Internet Explorer. It compatibles with plug-in-free programs and can be ignored when accessing the web using browsers such as Safari 12 or later, Chrome 57 or later, Firefox 52 or later, or Edge 41.

Path configuration

Record Path

D:\Device\Record

Download Path

D:\Device\Download

Snapshot Path

D:\Device\Capture

File type

MP4

Interval

10

Minute

Capture Type

JPG

Save