

HD IP CAMERA

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Statement

Thank you for using our IP camera series. This series products are integrated IP cameras developed for network video surveillance, including wired IP box cameras, Wi-Fi-enabled IP box cameras, IR-enabled IP dome cameras, IR-enabled waterproof IP cameras, 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 the IE browser. 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 cameras refer to network cameras.
- Click indicates click on the left mouse button.
- Double click indicates double click on the left mouse button.
- The default IP address of an IP camera is 192.168.1.168.
- You must set the password as instructed when using the IP camera for the first time. You can log in with admin (in lowercase) as username and set the password as described
- In Section 4.2.
- The web port number is 80 by default. The ONVIF port number is the same as the web port number. The media port number is 9000 by default.

Notes:

Some information contained in this manual may differ 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.

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 environments requiring high-definition video images such as banks and traffic control systems, as shown below:



1.2. Product Description

An IP camera is a digital network monitoring camera that can operate independently with a builtin 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 environments, 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 allows you 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. Operating Environment

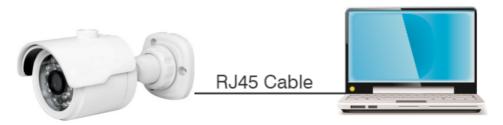
System: Windows XP/Windows 7/ Windows 8/ Windows 10/ Windows 11/MacOS 10 or later. CPU: Intel I3 or later Memory: 2 GB or higher Video memory: 1 GB or higher Display: 1024×768 or higher Browsers: IE10 and later, Chrome 57 and later, Firefox 52 and later, Edge 41 and later, and Safari 12 and later

2. Device Connection

An IP camera can be connected in two ways:

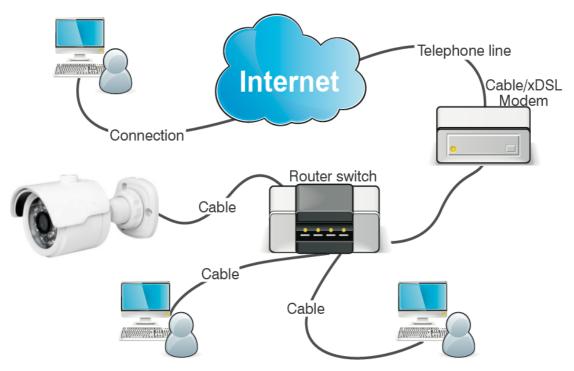
2.1. Connecting to a PC

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. Connecting Through a 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.



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 figure below, and locate your desired IPC based the P2P or MAC address of the camera.

Se	arch	Upgr	ade	Config Stream	m Config OS	iD Config Re	covery Import/E	xport ChangePassword						Filtration	IP	,
No	.	IP	Media Port	Web Port	Channel	Device Name	Device Type	Device Version	Net Mask	Gateway	MAC	Network Mode	P2P ID		Status	
1	1	<u>172.20.58.24</u>	9000	80	1	327DE@307	RS-CH281M4ND-DF- WA2812PW	V18.25.8.2.2_220402	255.255.255.0	172.20.58.1	00-23-63-94-A7-01	DHCP	NK8RKSMX2VT4SSSP11	1A		
2	2	172.20.58.25	9000	80	1	RS-CH228M8TA- LDF-LFWA2812PW	RS-CH228M8TA-LDF- LFWA2812PW	V31.35.8.2.2_220301	255.255.255.0	172.20.58.1	00-23-63-94-A6-BC	DHCP	RSV2106001549442			
3	3	172 20 58 32	9000	80	1	Hhh	IP CAMERA	V1.0.0.B0001701010103_220331	255.255.255.0	172.20.58.1	00-23-63-98-C4-CE	DHCP	H3LXDSD24U2PVBF411	IA		
4	4	172.20.58.36	9000	80	1	IP CAMERA	IP CAMERA	V27.45.8.2.2_220318	255.255.255.0	172.20.58.1	00-23-63-91-EC-FB	DHCP	V5LR322T76EHP1HA111	A		
5	5	172.20.58.37	9000	80	1	IP CAMERA	IP CAMERA	V31.35.8.2.2_220301	255.255.255.0	172.20.58.1	00-23-63-92-14-50	DHCP	W6RNEWB2B9XJNV6R11	1A		
6	3	172.20.58.38	9000	80	1	IP CAMERA	IP CAMERA	V26.34.8.2.2_220402	255.255.255.0	172.20.58.1	00-23-63-90-8D-9C	DHCP	SRDGHGWYYUFAS7CX1	1A		
. 7	7	172.20.58.41	9000	80	1	98529_IM415	RS-CH340N4MDA-LDF- LFWA2812PW	V30.85.8.2.2_220412	255.255.255.0	172.20.58.1	00-23-63-94-A7-0D	DHCP	ZPBFUMZ7SWHLPCW51			
8	3	172.20.58.54	9000	80	40	DVR7116	D7116	V8.2.2-20220416	255.255.255.0	172.20.58.1	00-23-63-98-48-4F	DHCP	RSV2111004372562			
9	9	172.20.58.58	9000	80	1	dwl	RS-CH340N4KRB-LTF- LFW36PW-M	V30.85.8.2.2_220412	255.255.255.0	172.20.58.1	00-23-63-94-46-E1	DHCP	RSV2106001591170			
1	0	172.20.58.70	9000	80	1	IP CAMERA	IP CAMERA	V1.0.0.B0001701010103_220331	255.255.255.0	172.20.58.1	00-23-63-98-C4-C4	DHCP	F2TXPBB234ZFLHD511	A		

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

Step 2. select the corresponding device, enter your username and password, edit the corresponding network information, and click Modify to save changes.

Note: Change the Net Mode to DCHP to get the IP address if the current network supports DHCP.

Search	Upgrade	Confg Stream (Config OSD	Config Re	acovery Import/Export	ChangePassword					Filtration	IP
No. IP	Media Port	Web Port	Channel	Device Name	Device Type	Device Version	Net Mask	Gateway	MAC	Network Mode	P2P ID	Statu
8 172.20	8.45 9000	80	1	IP CAMERA	IP CAMERA	V1.0.1.B0001701020104_220811	255.255.255.0	172.20.58.1	00-23-63-94-A9-52	DHCP		
7 172.20	8.43 9000	80	1	RS-CH298I4CU- HALTF-LF36PW	RS-CH298I4CU-HALTF- LF36PW	V1.0.1.80001703011304_221028	255.255.255.0	172.20.58.1	00-23-63-9E-7B-E9	DHCP	G3H14LAA/ZB2K637111A	
4 172.20	8.28 9000	80	1	T40Xp	RS-CH348I3KMB-HALTF- LF36PW	V1.0.1.B0001703021305_221028	255.255.255.0	172.20.58.1	00-23-63-9E-7B-B1	DHCP	H68C21NK3DH6YHTC111A	
3 172.20	8.27 9000	80	1	528	RS-CH348N3KGB-TF- L28PW-M	V27.45.8.2.3_221019	255.255.255.0	172.20.58.1	00-23-63-92-01-47	DHCP	5TCW1J19FH4YSYY1111A	
2 172.20	8.23 9000	80	1	IP CAMERA	IP CAMERA	V30.85.8.2.3_221019	255.255.255.0	172.20.58.1	00-23-63-9E-5F-D3	DHCP	RWGBU6HRXL1KPD59111A	
6 172.20	8.35 9000	80	1	IP CAMERA	IP CAMERA	V31.35.8.2.3_221019	255.255.255.0	172.20.58.1	00-23-63-9D-24-8B	DHCP	GGVTVYZRBU5NB5BN111A	
1 172.20	8.22 9000	80	1	IP CAMERA	IP CAMERA	V34.45.8.2.3_220914	255.255.255.0	172.20.58.1	00-23-63-A9-0A-90	DHCP		
9 172.20.5	<u>8.110</u> 9000	80	8	N8208	N8208	V8.2.3-20221014	255.255.0.0	172.20.58.1	00-23-63-9E-7B-FC	Static	RSV2111004625541	
5 172.20	8.32 9000	80	8	N8708	#8708	V8.2.3-20221102	255.255.255.0	172.20.58.1	00-23-63-9C-29-C1	DHCP	H44F9L1YL2TXBDEK111A	

4. Login from Web Client

4.1. Accessing Camera from Web Client

Use Device Config Tool to search the IPCs in the current network. As shown in the following figure, directly click an IP address and use your IE browser to log into the corresponding camera.

No.	h l	pgrade	Config Stre	am Config OS	D Config Rei	:overy Import/E	xport ChangePassword						Filtration	IF	
	IP	Media Port	Web Port	Channel	Device Name	Device Type	Device Version	Net Mask	Gateway	MAC	Network Mode	P2P ID		Status	
1	172.20.58.2	4 9000	80	1	327DE@307	RS-CH281M4ND-DF- WA2812PW	V18.25.8.2.2_220402	255.255.255.0	172.20.58.1	00-23-63-94-A7-01	DHCP	NK8RKSMX2VT4SSSP111A			
2	172 20 58 2	5 9000	80	1	RS-CH228M8TA- LDF-LFWA2812PW	RS-CH228M8TA-LDF- LFWA2812PW	V31.35.8.2.2_220301	255.255.255.0	172.20.58.1	00-23-63-94-A6-BC	DHCP	RSV2106001549442			
3	172.20.58.3	2 9000	80	1	Hhh	IP CAMERA	V1.0.0.B0001701010103_220331	255.255.255.0	172.20.58.1	00-23-63-98-C4-CE	DHCP	H3LXDSD24U2PVBF4111A			
] 4	172.20.58.3	<u>5</u> 9000	80	1	IP CAMERA	IP CAMERA	V27.45.8.2.2_220318	255.255.255.0	172.20.58.1	00-23-63-91-EC-FB	DHCP	V5LR322T76EHP1HA111A			
5	172.20.58.3	Z 9000	80	1	IP CAMERA	IP CAMERA	V31.35.8.2.2_220301	255.255.255.0	172.20.58.1	00-23-63-92-14-5C	DHCP	W6RNEWB2B9XJNV6R111A			
] 6	172.20.58.3	8 9000	80	1	IP CAMERA	IP CAMERA	V25.34.8.2.2_220402	255.255.255.0	172.20.58.1	00-23-63-90-8D-9C	DHCP	SRDGHGWYYUFAS7CX111A	ν		
7	172.20.58.4	1 9000	80	1	98529_IM415	RS-CH340N4MDA-LDF- LFWA2812PW	V30.85.8.2.2_220412	255.255.255.0	172.20.58.1	00-23-63-94-A7-0D	DHCP	ZPBFUMZ7SWHLPCW511			
3 8	172.20.58.5	4 9000	80	40	DVR7116	D7116	V8.2.2-20220416	255.255.255.0	172.20.58.1	00-23-63-98-48-4F	DHCP	RSV2111004372562			
9	172.20.58.5	8 9000	80	1	dwl	RS-CH340N4KRB-LTF- LFW36PW-M	V30.85.8.2.2_220412	255.255.255.0	172.20.58.1	00-23-63-94-A6-E1	DHCP	RSV2106001591170			
10	172 20.58 7	9000	80	1	IP CAMERA	IP CAMERA	V1.0.0.B0001701010103_220331	255,255,255.0	172.20.58.1	00-23-63-98-C4-C4	DHCP	F2TXPBB234ZFLHD5111A			

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 figure above, 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. When You Log in for the First Time

Firstly, access the camera from a web client. As the default password of the device is simple, the program will pop up the screen as shown in Figure 4.2.1, asking you to set a more complex

password. Click **Line** to check password setting requirements:

A password must be 8 to 15 characters long consisting of letters, digits or special characters.

- 1. A string of 8 to 9 characters containing at least three uppercase letters, lowercase letters, digits, or special characters.
- 2. A string of 10 to 15 characters containing at least two uppercase letters, lowercase letters, digits, or special characters.
- 3. Do not contain more than four consecutive or repeated characters.
- 4. Do not contain more than four consecutive key patterns.

User Manual

	Password		
New Password ()			
Password cannot be empty!			
Password Strength			
Confirm Password			

Figure 4.2.1

Set a new password and click OK to save your change. The web client will display the screen as shown in Figure 4.2.2. Users can open the corresponding password retrieval method by checking the box, or cancel the setting directly without checking the box, and do not enable the password retrieval function.

	Recover Password	
Security Question Configuration		
Security Question 1		
Answer		
Security Question 2		
Answer		
Security Question 3		
Answer		
Certificate of authorization		
Super code(Not recommended)		
	Cirk Cancel	

Figure 4.2.2

①Security 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 retrieve your password.

②Certificate 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.

③Super 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 log in from the web client and use Super code to change the user password.

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

4.3. Normal Login

After accessing the from web client, you will be directed to the login screen as shown in Figure 4.3.1. 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.

ENGLISH
▲ Usersane → Password
▲ Usersane → Password
-0 Password

Figure 4.3.1

4.4. Password Retrieval

When the password retrieval 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 retrieve 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 Figure 4.4.1. Fill in the answers to security questions. You can directly change the user password.

	Recover Password	
Verification Mode	Security Question Verification	
Security Question 1		
Answer		
Security Question 2		
Answer		
Security Question 3		
Answer		
New Password		
Password Strength		
Confirm Password		
	OK Canoel	

Figure 4.4.1

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 retrieve 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 Figure 4.4.2. Click Import and select the certificate.txt file. Then, enter a new password to change the user password.

	Recover Password		
Verification Mode	Certificate of authorization		
Certificate of authorization		Import	
New Password			
Password Strength			
Confirm Password			
	OK Cancel		

Figure 4.4.2

4.4.3. Super Code

A super code is an insecure way to retrieve the password. The super code is calculated based on the MAC address of the camera and the time of the super verification code according to certain rules. Then the user password can be changed by entering the verification code.

		ecover Password	
Verification N	fode Si	uper Code	
Super code			
New Passwo			
Password St	rength —		
Confirm Pase			
	word	aword cannot be empty! K Cancel	

Figure 4.4.3

4.5. Password Aging

Security risks may arise if you use the same password for a long period of time. To this end, the program records the time when the password was changed last time. The system will ask you whether to change the password again if the current login time is 90 days later than the last password change time.

When you decide to change the password, the screen as shown in Figure 4.5.1 displays. As instructed on the screen, use your old password for verification and set a new password.

New Password Password Kow Password Cordim Pa		Password	
Password cannot to energy! Password Sterrigh Low Confirm Password			
Passand cannot be samply Passand Strongh Low Contirm Passand	New Password 0		
Password Strength Lox			
Confirm Password			
Contim Passaord	Password Strength		
OK Carosi	Confirm Password		
OK Cancel			
OK Canoel			
			Cancel

Figure 4.5.1

5. Installing Plug-in

An image can be normally previewed only when the plug-in is installed when you log in from your IE browser. Download and install the plug-in as instructed on the screen as shown in Figure 5.1.1.

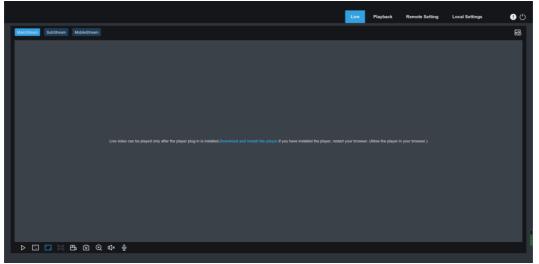


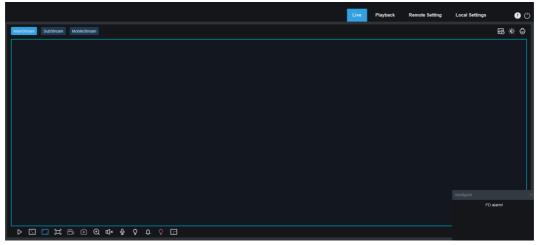
Figure 5.1.1

Note: You can skip the plugin installation when you access the web client from Safari 12 and later, Chrome 57 and later, Firefox 52 and later, and Edge 41.

6. Live View

6.1. Live View Menu

The web client enters the login live view upon login, as shown in the figure below. Note: Features may differ depending on product models.



Stream switching menu: You can switch the picture quality of the current live view at 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.

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

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

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

AI alarm: Used to open the alarm push bar on the right and push images during face alarming and human & vehicle detection.

Color: Used to adjust the current image settings, such as image saturation and sharpness.

PTZ Setting: Used for PTZ settings and re-focusing.

Exit: Log out.

Recording & alarm status: Displays the alarm and recording status of the camera. For details, see Section 6.2.

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

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

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

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

Record: Used to manually record the stream in preview.

Capture: Used to manually capture the image of the current stream.

Digital Zoom: Used to zoom in a certain area of the display.

Audio: Used to turn on/off or adjust the audio in preview.

Voice Intercom: Used to communicate with the camera.

Warning Light: Used to manually turn on/off the white light.

Siren: Used to manually turn on/off the siren.

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

Popup Info: The current alarm is displayed at the lower right corner.

6.2. Recording Status

The recording status is a simple presentation of the current alarm at the web client and indicates whether the recording is normal. A variety of alarms can be stored at a time, as described below: No icon: The memory card functions normally but no recording is executing.

^R : The camera is normally recording.

Note: When the camera is recording an alarm, the icon disappears, but the normal recording process continues.

 $^{\sf H}\,$: The memory card is normal. Check the memory card.

M : A motion alarm is in progress but the motion alarm recording is not turned on.

M: A motion alarm is in progress and the motion alarm recording is turned on.

- An I/O alarm is in progress, but the I/O alarm recording is not turned on.
- An I/O alarm is in progress, and the I/O alarm recording is turned on.

PIR : A PIR alarm is in progress, but the PIR alarm recording is not turned on.

PIR : A PIR alarm is in progress, and the PIR alarm recording is turned on.

S : An intelligent alarm is in progress, but the intelligent alarm recording is not turned on. Note: Intelligent alarms include face, human, and vehicle alarms.

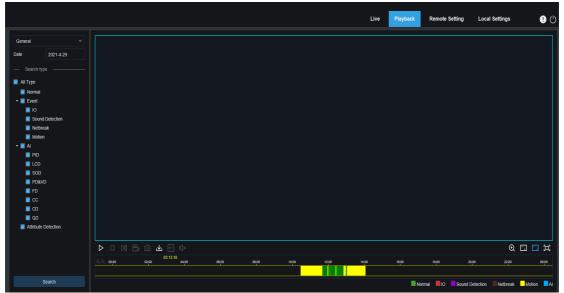
S : An intelligent alarm is in progress, and the intelligent alarm recording is turned on.

7. Playback

The camera not only need to be able to show us images in real time, but also save the image information so that we can call it up when needed.

7.1. Normal Playback

The playback function mainly includes general video search and AI search, as shown in the following figure.



Search Mode switching: Used to switch search functions, as shown in the figure above. General is selected by default to search for general recording files. You can switch to AI image search by referring to the following part in this section.

Date: Used to set the date to search for recording files. Click Search. You will be prompted with the dates with available recording files.

Search type: Displays the search types supported by the camera. You can search for only part of recording files as required.

Search: Display and search for recording files stored in the memory card according to search settings.



Pause/Play: Used to pause/play streams.



Ю

Stop: Used to stop streams.

Forward by One Frame: Used to play one frame with one click.

- Record: Used to manually record the stream in preview.
- **Capture:** Used to manually capture the image of the current stream.

Download: Download the searched recording file.



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

ら し て Audio: Used to turn on/off or adjust stream sound.

Playback progress bar: The time bar on the bottom displays the current playback progress bar and playback progress in different colors based on the search results.

Digital Zoom: Used to zoom in a certain area of the stream.

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

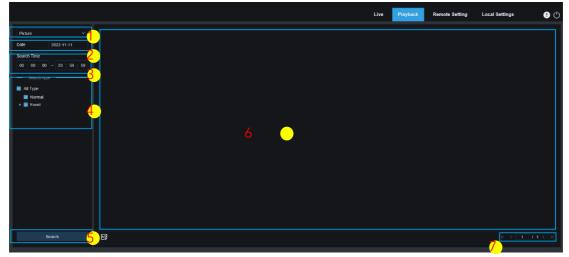
Stretch: Displays the current live view in a way that stretches the display area.

Full Screen: Displays the playback stream in full screen. You can double-click the screen to enable or disable the function, and press Esc to exit the full screen mode.

Zooming in/out playback progress bar: By default, the progress bar displays the progress within 24 hours. By zooming in and out the progress bar, you can jump to the corresponding playback position more accurately. You can also use the mouse wheel to zoom in/out the progress bar.

7.2. Image Search

When the auto capture function is enabled, you can search and play pictures on this screen.



- 1. **Search Mode switching:** Used to switch the current search function. The current Search Mode is Picture.
- 2. **Date:** Used to set the date to search for pictures. By clicking Search, you will be prompted with the dates for which recording files are available.
- 3. Search time: Used to set the time to search for pictures, allowing users to search for pictures in a specific period of time.
- 4. **Search type:** Used to select the picture capture type you want to search for, or check "All Type" to select all pictures.
- 5. Search: Click Search to start searching images.
- 6. **Search Result Display Area:** Displays the desired search results. Double-click on a picture will play the video after and before the picture.
- 7. Search Result Scrolling Through: You can scroll through search results at the lower right corner.

7.3. Playback by Tag

This screen allows you to view all previously added tags and edit, play back, or delete them.

						Live Playback Remote Settin	ig Local Settings	!
Tag v 🚺	No.	Name	Date	Time	Playback	Edit	Delete	
Start time	1	Tag	11/11/2022	00:00:02				
2022-11-11 00 : 00 : 00 📿	2	Tag	11/11/2022	08:15.53				
End time		Tag	11/11/2022	10:19:46				
2022-11-11 23 : 59 : 59 3	4	Tag	11/11/2022	10:41:53				
Keyword <u>0-20</u>					6			
Search							7 K K 1	/1>

- 1. **Search Mode switching:** Used to switch the current search function. The current Search Mode is Tag.
- 2. Start time: Used to set the start time to search for tags.
- 3. End time: Used to set the end time to search for tags.
- 4. Keyword: You can search for tags with keywords.
- 5. Search: Click Search to start searching.
- 6. Search Result Display Area: Displays the desired search results.

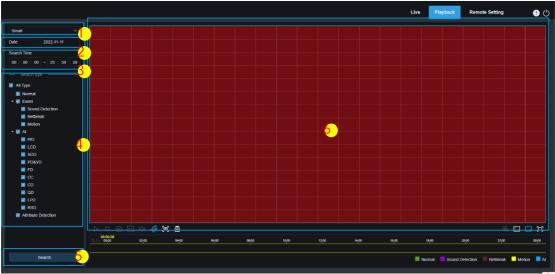
Click the button to play back events, click the *button to change event name, click the Save*

button to display the Modify Success prompt dialog box, and click the button to delete this event.

7. Search Result Scrolling Through: You can scroll through search results at the lower right corner.

7.4. Smart

Log in from a browser without the need of plugin to start smart playback, as shown in the figure below:



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

1. Search Mode switching: Used to switch the current search function. The current Search

	Mode is Smart.
2.	Date: Used to 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: Used to set the time for searching for events to facilitate querying.
3. 4.	Search type: Displays the search types supported by the camera. You can search for only
4.	
F	part of recording files as required.
5.	Search: Click Search to start searching.
6.	Search Result Display Area: Displays the desired search results.
\triangleright	Pause/Play: Used to pause/play streams.
	Stop: Used to stop streams.
5	
0	Capture: Used to manually capture the image of the current stream.
~1	
~	Speed: Supports playing at a speed of 1/8, 1/4, 1/2, 1, X2, X4, X8, and X16.
-1.	
Ч	Audio: Used to turn on/off or adjust stream sound.
$\langle \lambda \rangle$	Add Default Tag: Used to add default tags. Mark the video playback start time at the current
time	in the current channel and click this icon to add tags.
Q	Add Tag: Used to add custom tags. When you click this icon to add a tag, a custom window
anne	ears and you can specify a name for this tag.
appe	and you can specify a name for tins tag.
చ్చొం	Smart: You can click this icon to enter the Smart area setting screen.
⊞	All: Click on All will set the full screen as the Smart detection area.
-	An. Chek on An win set the run screen as the Smart detection area.
Ē	Delete: Click on Delete All will clear the entire area.
_	
Ð	Digital Zoom: Used to zoom in a certain area of the stream.
ر ً	O : to I December 2
	Original Proportions: Displays the current live view in its original proportion.
	Stretch: Displays the current live view in a way that stretches the display area.
[[]]	
	Full Screen: Displays the playback stream in full screen. You can double-click the screen to
enat	ble or disable the function, and press Esc to exit the full screen mode.

7.5. AI

7.5.1. Face Search and Playback

The camera performs face recognition, stores the obtained face information to the TF card, and saves the image-related information. You can quickly retrieve captured faces meeting user requirements and easily locate corresponding videos. The face search and playback screen is shown below.

		Live	Playback	Remote Setting	Local Settings	! 🖱
Face Detection ~	Add Delete	Similarity 70 %	Compare			
Start time						
2021-4-29 00 : 00 : 00						
End time						
2021-4-29 23 : 59 : 59						
Face Attribute						
please choose v						
Alarm Group						

Search Mode switching: Used to switch the current search function. The current Search Mode is AI-Face Detection.

Start time: Used to set the start time to search for captured faces.

End time: Used to set the end time to search for captured faces.

Face Attribute: The Face Attribute box is unchecked by default. If this box is checked, only face images captured when the face attribute detection function is started are searched. The program can recognize five face attributes, including gender, age, mask, glasses, and expression.

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 allows you to search for images of only the groups you want.

Search: Used to search for face data according to settings.

Add: Add images to the image display area for comparison purpose. You can add local images and captured images.

Delete: Used to delete currently added images.

Similarity: Used to set the lowest similarity of feature values of matching faces when using the Compare function.

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.

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

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

7.5.2. Human and Vehicle Search and Playback

Similar to the face capture function, the camera can distinguish humans or vehicles, and record them according to what you need to obtain required records. The screen is shown in the figure below.

Human & Vehicle De	etection ~
Start time	
	00 : 00 : 00
End time	23 : 59 : 59
2021-4-23 Detection Type	za : 69 : 69
please choose	

Search Mode switching: Used to switch the current search function. The current Search Mode is AI-Human & Vehicle Detection.

Start time: Used to set the start time to search for human and vehicle images.

End time: Used to set the end time to search for human and vehicle images.

Detection Type: Used to select human or vehicle images as needed, or select both.

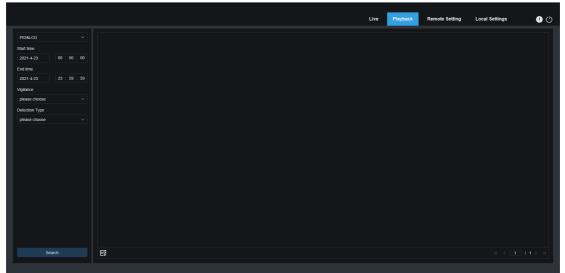
Search: Used to search for human and vehicle images according to search settings.

Search Result Display Area: Displays the desired search results. Double-click on a picture will play the video after and before the picture.

Search Result Scrolling Through: You can scroll through search results at the lower right corner.

7.5.3. PID&LCD

With the development of technology, AI-PID&LCD can not only detect objects in the warning area, but also provide the human and vehicle detection function that only detects human or vehicle objects and record image or video information for easy retrieval and viewing. The screen is shown in the figure below.



Search Mode switching: Used to switch the current search function. The current Search Mode is AI-PID&LCD.

Start time: Used to set the start time to search for human and vehicle images.

End time: Used to set the end time to search for human and vehicle images.

Vigilance: Used to select PID or LCD or both as the capture method.

Detection Type: Used to select human or vehicle images as needed, or select both.

Search: Used to search for human and vehicle images according to search settings.

Search Result Display Area: Displays the desired search results. Double-click on a picture will play the video after and before the picture.

Search Result Scrolling Through: You can scroll through search results at the lower right corner.

7.5.4. Repeat Customer Detection

The face recognition function can not only provide alarms in real time, but also deeply dig into data to meet customer needs. For example, for the repeat customer detection function, a camera is installed in a certain area of the mall. The repeat customer detection function allows you to check whether a customer stops to check out goods in this area. You can 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 figure below.

											Live	Playback	Remote S	setting	Local Se	ttings	• 🙂
Repeat customer																	
Start time																	
2021-4-23	00.1	00 : 00															
	00 .	00 . 00															
End time																	
2021-4-23	23 :	59 : 59															
Minimum time																	
interval																	
Similarity																	
Face Attribute																	
please choose																	
Alarm	n Group																
				nber of occurren				<u>~ () (</u>	Refresh								
			No. S	art Time	E	nd Time	Play										
	arch																

Search Mode switching: Used to switch the current search function. The current Search Mode is AI-Repeat customer.

Start time: Used to set the start time to search for human and vehicle images.

End time: Used to set the end time to search for human and vehicle images.

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

Similarity: Used to 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.

Face Attribute: Used to filter searched images according to face feature 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 Attribute enabled are searched.

Alarm Group: Used to 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.

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

Search Result Display Area: Displays the search results 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 replay.

Minimum number of occurrences: Used to filter search results by number of occurrences. You have to click Refresh to update the display.

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

Refresh: Refresh the sorting in your IE according to Minimum number of occurrences and Sort Type.

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

7.5.5. Face Attendance

In addition to the repeat customer function, the face recognition function also provides the face attendance function. The face attendance (FA) function is used to retrieve face matching status in different groups (excluding stranger group) saved in the memory card in a specified period of time, and generate attendance results according to capture records. The functional screen is shown in the figure below.

							Live Playback	Remote Setting	Local Settings	• 🙂
Face attendar	1Ce ~	Working day	Mon. 😮 + 4			Duty Time 08 : 30 : 00 ~ 17 : 3	30 : 00			Export
		No.	Name	Group De	tail Late Leav	Early	Ab	sence		
day										
2021-4-23	2021-4-23	🗸 Normal	→ Late ←	Leave Early 🗧 Late	and Leave Early 🔵 Absen	e				
Import type	By group \sim									
	Search									

Search Mode switching: Used to switch the current search function. The current Search Mode is AI-Face Attendance.

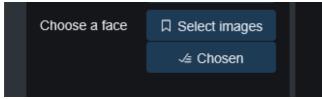
Select Time Mode: Options include day, week, month, customize, and today. After you select a type, the system will automatically change the start date and end date. If day is selected, the end date and start date will be automatically synchronized. If week is selected, the start date and end date will be automatically changed to Monday and Sunday of the week to which the selected date belongs. If month is selected, the start date and end date will be automatically changed to the first and last day of the month to which the selected date belongs. If customize is selected, the search date is customizable. If today is selected, the start date and end date will be changed to the current date.

Start Date: Used to set the start date for searching by face attendance.

End Date: Used to set the end date for searching by face attendance.

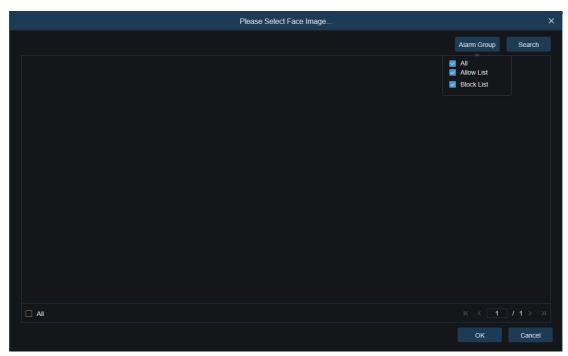
Import type: Used to select import type, including by group and by face. The former takes all the people in the existing group as detection objects to search for matching results. The latter selects people in a certain group to search for matching results.

Alarm Group: When by group is selected, face attendance results will be searched by groups in the database.



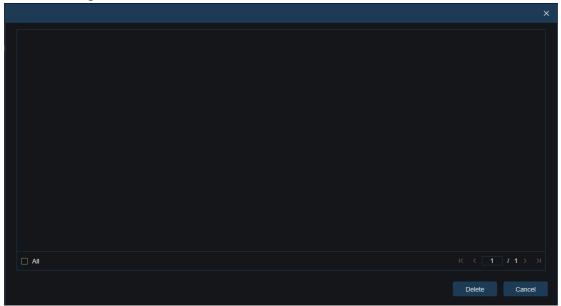
When by Face is selected, the screen will change to the menu shown in the figure above. Select images: Select and click the face image to be detected. The window shown below is displayed.

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Click **Alarm Group** to select a group and click Search again to search for all face images in this group. Select the face image for face attendance detection, and click **OK**. The face image will be added to the **Chosen** list. You can click **Cancel** to close this window.

Chosen: Displays a list of selected face images. You can click Chosen to display the window shown in the figure below.

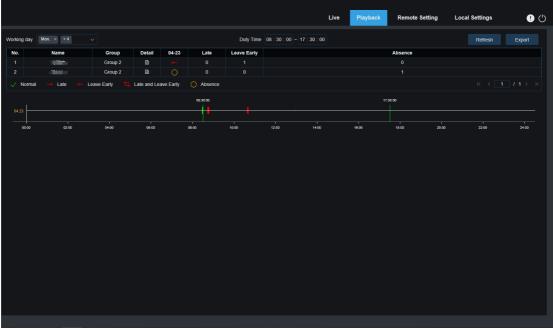


Select a face image and click **Delete**. The face image will be deleted from the list. You can also click **All** to select all face images. You can click **Cancel** to close this window.

Search: Used to search face attendance information according to settings.

Search Result Display Area: Displays search results in a table at the upper right, as shown in the figure below.

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Working Day: You can set working day here.

Duty Time: You can set duty time here.

Refresh: After changing attendance parameters, you can click Refresh to refresh search results. **Export:** You can click Export to export results to your PC.

Attendance Results: " \leftarrow " indicates leave early, " \rightarrow " indicates late, both indicates late and leave early, " $\sqrt{}$ " indicates normal attendance, and " \circ " indicates absence. The green lines indicate the start and end time of attendance.

Secondary Search Result Display Area: Clicking on a person will display detailed time information at the lower right. The timepoint that matches this person will be marked with a red bar. Click on the red bar will jump to the corresponding quick replay.

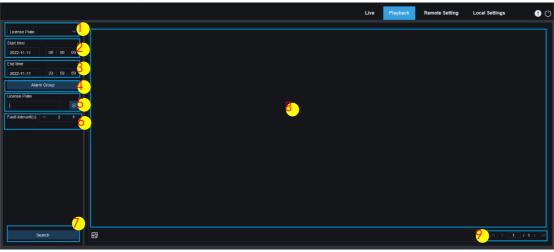
You can click the **Detail** icon to check details. You can click the **playback** icon to go to quick replay.

n Duty	No.	Channel	Start time	End time	Playbacl
tatus Leave Early N DUTY 08:26:57	1	IP CH3	2021-4-23 08:26:57	2021-4-23 08:27:15	
	2	IP CH1	2021-4-23 08:26:58	2021-4-23 08:27:18	
	3	IP CH1	2021-4-23 08:27:19	2021-4-23 08:27:24	
	4	IP CH3	2021-4-23 08:27:19	2021-4-23 08:27:22	
	5	IP CH3	2021-4-23 08:27:24	2021-4-23 08:30:05	
	6	IP CH1	2021-4-23 08:27:25	2021-4-23 08:30:06	
f Duty		IP CH3	2021-4-23 08:30:13	2021-4-23 08:30:15	
atus Leave Early	8	IP CH3	2021-4-23 08:30:21	2021-4-23 08:30:22	
FF DUTY 12:56:43	9	IP CH3	2021-4-23 08:41:15	2021-4-23 08:41:24	
	10	IP CH1	2021-4-23 08:42:26	2021-4-23 08:47:34	⊳
	11	IP CH3	2021-4-23 08:47:18	2021-4-23 08:47:32	
	12	IP CH3	2021-4-23 10:36:54	2021-4-23 10:37:30	
				К < 1	/ 2 >

You can click the arrow at the lower right corner to scroll through results.

7.5.6. License Plate Detection

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 figure below.



- 1. **Search Mode switching:** Used to switch the current search function. The current Search Mode is License Plate.
- 2. Start time: Used to set the start time to search for captured license plates.
- 3. End time: Used to set the end time to search for captured license plates.
- 4. Alarm Group: Used to recognize license plates by groups in the database.

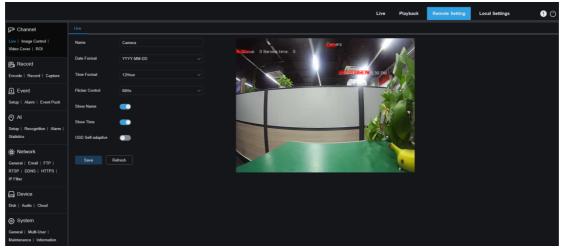
Note: All images will be searched when no group limitations are set. In this case, the similarity setting takes effect. Unknown license plates will be ignored when group limitations are set.

- 5. License Plate: Used to 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. Search: Used to search for captured license plates according to settings.
- 8. **Search Result Display Area:** Displays the desired search results. Double-click on a picture will play the video after and before the picture.
- 9. Search Result Scrolling Through: You can scroll through search results at the lower right corner.

8. Remote Setting

8.1. Live View

On the Live view, you can set channel name, device time, CC, as well as statistical data and image covering. The view is shown in the figure below.



Name: Here, you can set the channel name of the camera displayed on the OSD.

Date Format: Here, you can set the date format of the camera displayed on the OSD, including MM/DD/YYYY, YYYY-MM-DD, and DD/MM/YYYY.

Time Format: Here, you can set the hour format of the camera on the OSD, including 12-Hour and 24-Hour.

Flicker Control: Here, you can set the image refresh rate, including 60 Hz and 50 Hz, corresponding to N and P respectively.

Show Name: Here, you can set whether to display channel name on images.

Show Time: Here, you can set where to display channel time on images.

OSD Self-adaptive: The OSD font color of the camera time and channel name is self-adaptive. The color switches between white and black based on the image background to ensure clear display.

Channel Name Display Location: Here, you can set the location where the channel name appears by dragging its location on the image.

Time Display Location: Here, you can set the location where the channel time appears by dragging its location on the image.

Alarm Statistic Display Location: Here, you can set the location where alarm statistic appears by dragging its location on the image. This setting is available only when the alarm statistic display function is enabled.

Save: Used to save current changes.

Refresh: Used to refresh parameters on the current view.

8.2. Image Control

Image control is to directly control and modify graphic parameters, such as color to black mode, wide dynamic range, backlight compensation, etc. The view is shown in the figure below.

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				Live Playback Remote Setting Local Settings
🖵 Channel	Image Control			
Live Image Control Video Cover	Image Setting	Full Color Mode		Camera 2022-04-13 15-49:13
🛱 Record	White Light	Manual		
Encode Record Capture	Sensitivity			
Event	Light Distance — Advanced —		0100	
AI	Corridor Mode	Disable		
Setup Recognition Alarm Statistics	Angle Trad			
. (b) Network	Mirror	Disable		
General Email FTP RTSP DDNS HTTPS	Backlight	Disable		
IP Filter	White Balance	Automatic mode		
Device	Shutter	Automatic mode		
Disk Audio Cloud	Time Exposure			
General Multi-User	3D Noise Reduction	Automatic mode		
Maintenance Information	Save D	efault Refresh		
				Live Playback Remote Setting Local Settings
다" Channel	Image Control			Live Playback Remote Setting Local Settings
Channel Uve Image Control Video Cover	Image Control	Day/Night Mode	~	Live Playback Remote Setting Local Settings
Live Image Control		Day/Ngit Model	~	
Live Image Control Video Cover	Image Setting		✓ ✓ ✓	
Uve Image Control Video Cover B. Record Encode Record Capture Execut	Image Setting	Auto	→ → →	
Live Image Control Video Cover B Record Encode Record Capture	Image Setting IR-CUT Mode IR-CUT Delay	Auto	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	
Une Image Control Video Cover B Record Encode Record Capture Excent Setup Alarm C Al	Image Setting IR-CUT Mode IR-CUT Delay IR-LED Low Beam Light — Advanced —	Auto	2 2 100	
Uve image Control Video Cover Record Encode Record Capture Event Setup Alarm	Image Setting IR-CUT Mode IR-CUT Deby IR-LED Low Beam Light — Advanced — Contidor Mode	Auto	> > > > > > >	
Live mage control Vidioo Cover B Record Encode Record Capture C Event Setup Alarm O Al Setup Recognition Alarm	Image Setting IR-CUT Mode IR-CUT Delay IR-LED Low Deam Light — Advanced — Contact Mode Angle Trad	Auto	▼ ▼ 2 ▼ ■ 100	
Uve mage control Voido Cover B Record Encode Record Capture C Event Setup Alarm O Al Sutations Sutations (in Network General Final FIP	Image Setting IR-CUT Mode IR-CUT Deby IR-LED Low Beam Light — Advanced — Contidor Mode	Auto		
Live mage control Video Cover B. Record Encode Record Capture C. Event Settip Alarm O Al Setup Recognition Alarm Statistics Setup Network	Image Setting IR-CUT Mode IR-CUT Delay IR-LED Low Deam Light — Advanced — Contact Mode Angle Trad	Auto		
Lue mage control Votion Cover B. Record Capture Control Cap	Image Setting IR-CUT Mode IR-CUT Mode IR-CUT Delay IR-LED Low Beam Light — Advanced — Cornifor Mode Angle Trad Mirror	Auto		
Live mage control Video Cover B. Record Capter Cover Auron Cover Au	Image Setting IR-CUT Mode IR-CUT Delay IR-LED Los Bean Light — Advanced — Contion Mode Angle Trad Mirror Backlight	Auto Auto Manual Disable Disable Disable Disable		
Uver mage control Vveloo Cover B. Record Capter Cover Auren Cover Cover Auren Cover Cover Auren Cover Cover Auren Cover Cover Auren Cover Cover Cove	Image Setting IR-CUT Mode IR-CUT Mode IR-CUT Delay IR-LED Low Deam Light — Advanced — Contion Mode Angle Triad Mirror Backlight While Batance	Ado Manual Disable 0 Disable Disable Disable Automatic mode		
Live mage control Video Cover B. Record Capter Cover Auron Cover Au	Image Setting IR-CUT Mode IR-CUT Mode IR-CUT Delay IR-LED Low Deam Light — Advanced — Advanced Mirror Buckslight White Balance Shutter	Auto Auto Mansat Deable 0 Deable Deable Deable Deable Automatic mode Automatic mode		

Image Setting: Used to set Camera Mode. There are three mode options.

Full Color Mode: The camera works in Full Color Mode.

Day/Night Mode: The camera works in Day/Night Mode.

Schedule: The camera works in schedule mode. The Full Color Mode and Day/Night Mode will be switched as scheduled.

White Light: Used to set the fill-in light for the white light in Full Color Mode. There are four mode options.

Automatic mode: In Automatic Mode, the camera automatically adjusts the intensity of the fill-in light according to ambient illumination.

Manual: In Manual Mode, the fill-in light is applied on the environment with a fixed brightness value.

Schedule: In Schedule Mode, the white light is automatically switched on and off for fill-in as scheduled.

OFF: Used to turn off the white light.

Sensitivity: Sensitivity 0-3. The degree to which the camera is sensitive to ambient light. The higher the value is, the higher the sensitivity is.

Light Distance: Ranging from 0 to 100 and used to adjust the brightness of the fill-in light. The higher the value is, the higher the brightness is.

IR-CUT Mode: Used to set the day/night switching mode of the camera in Day/Night Mode. There are five mode options.

Auto: Used to automatically control the Switching mode. Among them, color to b/w is judged by images and b/w to color is judged by light sensitivity to ambient light.

Day: Forced Color mode will not be switched to b/w.

Night: Forced B/W mode will not be switched to color.

Image: Similar to the Auto Mode, color to black and black to color are judged by images (for non-photosensitive models).

Schedule: Used to switch between b/w and color as scheduled. If this function is enabled, the start time and end time for night vision shall be set.

IR-CUT Delay: Used to switch day/night for the Automatic Mode and Image Mode. The day/ night switchover delay is adjustable from 1 s to 36 s. The day/night switchover is performed only when the ambient illumination meets switchover requirements and the retention time exceeds the preset threshold.

IR-LED: Used to set the fill-in light effect of the IR light at night vision. There are three mode options.

SmartIR: Used to intelligently control the fill-in light intensity of the IR light according to focal length and overexposure condition.

Manual: Manual Mode in which the fill-in light is applied in the form of the set brightness of the IR light.

OFF: No fill-in light is applied for any light.

Low Beam Light: Here, you can manually adjust the brightness of the IR light (0 to100, of which 0 indicates that the IR light is off and 100 indicates the highest brightness).

Corridor Mode: Corridor Mode.

Angle Trad: Image rotation setting. The camera is reverse to the presetting in some usage scenarios. For example, the camera is designed to be hung upside down, but in practice it is used flatwise. You can set this value to adjust the image.

Mirror: You can set the mirror mode to adjust the picture effect. There are four mode options. Disable: Used to disable the Mirror Mode.

Vertical: Used to set the Mirror Mode in the vertical direction to interact the image on the picture up and down.

Horizontal: Used to set the Mirror Mode in the horizontal direction to interact the image on the picture left and right.

All: Used to enable Vertical and Horizontal at the same time. The effect is similar to that of 180° rotation, but the implementation principle is different.

Backlight: Used to set the performance of the program when the backlight is turned on. There are four mode options.

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.

HLC: Highlight compensation in which the objects in the highlighted area are clearer in the picture. (applicable for some models).

Back Light: Backlight compensation in which the objects in the dark area are more clearer.

Disable: An image will not be optimized with backlight on.

White Balance: White balance is a measure of the accuracy of white produced by mixing red, green, and blue. There are two mode options.

Automatic mode: Allows you to adjust the white light using default parameters.

Manual: Allows you to actively set the synthetic gained white light of red, green, and blue.

Shutter: Used to set the shutter exposure time. There are two mode options.

Automatic mode: The program automatically selects a proper exposure time according to the Time Exposure setting.

Manual: Allows you to directly use the Time Exposure setting.

Note: Deselect the flickerless option of the exposure time in shutter manual mode, and select the option in shutter auto mode. If you switch the shutter to manual mode, the exposure time is switched automatically to 1/100 or 1/120.

Time Exposure: Used to set the exposure time of the camera and use this parameter in combination with Shutter. When the exposure time is too long, there may be overexposure. When the exposure time is too short, the picture may be dark.

Defog: Foggy days will lead to deteriorated images. The defog function can optimize image rendering in foggy days. There are three settings:

OFF: Used to disable the defog function.

Automatic mode: In this mode, the camera automatically judges the defog effect.

Manual: Allows you to manually set the defog value.

3D Noise Reduction: You can reduce image noise by setting this parameter to obtain a clearer picture. There are three mode options.

Automatic mode: In this mode, the camera will automatically select the noise reduction effect according to algorithms.

OFF: Used to disable the noise reduction function.

Manual: Allows you to manually set the noise reduction coefficient to reduce image noise.

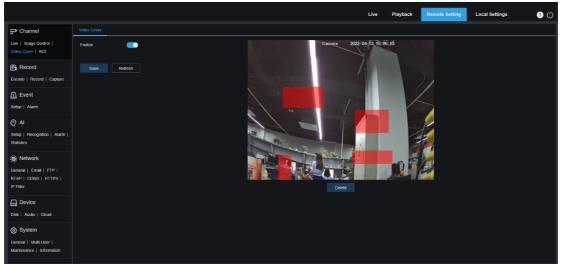
Save: Used to save parameter changes to an image.

Default: Used to restore image parameters to default settings.

Refresh: Used to refresh image parameters.

8.3. Video Tampering

In practical applications, if areas that can be monitored by the camera are not suitable for monitoring and recording, you can use this function to occlude these areas. The screen is shown in the figure below.



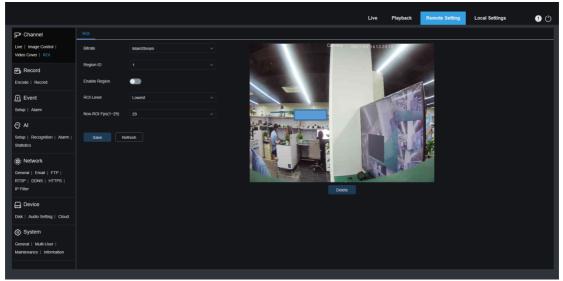
Enable: Used to enable the video tampering function.

Tampering Area Setting: Used to 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. You can set four tampering blocks.

Delete: Used to delete selected tampering blocks.

8.4. ROI

ROI (sensitive area) is a region of interest selected from the video area. This area can be set to a different frame rate and sharpness than the unselected area.



Bitrate: Used to select the bit rate to be set.

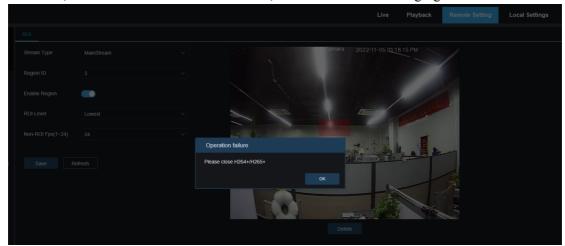
Region ID: Used to select region IDs. You can set up to eight regions.

Enable Region: Used to enable regions.

ROI Level: Used to set image quality in regions. The higher the quality, the higher the resolution and frame rate.

Non-ROI Fps: Used to set the frame rate of non-region of interest.

If the video code type is H264+ or H265+, the ROI function and the type are mutually exclusive. Therefore, the ROI function cannot be enabled, as shown in the following figure:



Enabling ROI does not take effect when the substream is in MJPEG format. (Note: ROI is supported in some models.)

8.5. Recording Parameters

This menu allows you to configure preview parameters and recording parameters.

8.5.1. Encoding Parameters

This menu allows you to configure the image quality for video recording or network transmission. In general, "MainStream" defines the quality parameters of recorded videos that will be stored in the HDD, "SubStream" defines the quality parameters of live videos that are remotely accessed from for example the web client and CMS, and "MobileStream" (can be turned off) defines the quality parameters of live views that are remotely accessed and viewed from mobile devices.

				Live	Playback	Remote Setting	Local Settings	! C
₽ Channel	MainStream SubSt	ream MobileStream						
Live Image Control Video Cover ROI	Resolution	3840 x 2160						
음 Record	FPS							
Encode Record Capture	Video Code Type	H.265						
f Event	Video Code Level	Main Profile						
Setup Alarm	Bitrate Control	VBR						
AI Setup Recognition Alarm	Video Quality	Highest						
Statistics	Bitrate Mode	User-defined						
) Network	Bitrate	3072	Ç (256-16384)Kbps					
General Email FTP RTSP DDNS HTTPS	I Frame Interval							
IP Filter	Audio	-						
E Device								
Disk Audio Cloud	Save Re	fresh						
③ System								
General Multi-User Maintenance Information								

Resolution: This parameter defines the resolution of a recording image. **FPS**: This parameter defines the frame rate of recording in your IPC.

Video Code Type: Channel decoding types. The options include H.264, H.265, H.264+, H.265+, and MJPEG (MJPEG only exists in substream mode).

Video Code Level: Video quality levels. The options include Bestline, Main Profile, and High Profile (for H.265, only Main Profile is available).

Bitrate Control: Used to select a bit rate level. For a simple scenario such as a plastered wall, a constant bit rate is preferred. For a complicated scenario such as a busy street, a variable bit rate is preferred.

Bitrate Mode: To manually set a bit rate, select the "Custom" Mode. To select a preset bit rate, select the "Preset" Mode.

Bitrate: This parameter corresponds to the data transmission speed used by the IPC to record a video. Recording in a higher bit rate will gain better image quality.

I Frame Interval: Used to set an I-frame interval. This option is only available in the IPC. **Audio:** Select this option if you want to record both audio and video and connect your microphone to IPC or use a camera with audio capability.

8.5.2. Recording Parameters

8.5.2.1. Recording Parameters

This menu allows you to set recording parameters.

User Manual

						Live	Playback	Remote Setting	Local Settings	• 🕛
₽ Channel	Record Sche	dule								
Live Image Control Video Cover ROI	Stream Mode	MainStre	eam							
₽ Record	Record									
Encode Record Capture	PreRecord									
Event Setup Alarm	Netbreak									
@ AI		Refresh								
Setup Recognition Alarm Statistics										
() Network										
General Email FTP RTSP DDNS HTTPS IP Filter										
Device										
Disk Audio Cloud										
System										
General Multi-User Maintenance Information										

Stream Mode: Used to select a Recording Mode, that is, video stream to be saved in the memory card. The main stream is selected by default.

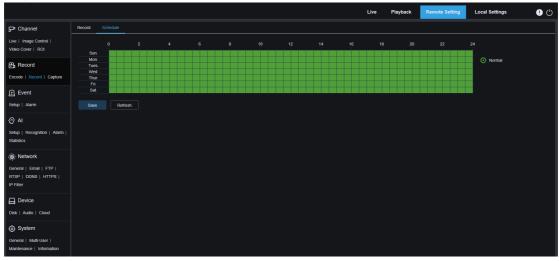
Record: Select this option to start recording.

PreRecord: If this option is enabled, the IPC will start recording a few seconds before an alarm event occurs. This option is recommended if your main recording type is based on motion detection or I/O alarm.

Netbreak: If this option is selected, recording continues even when the network is disconnected or network failure occurs.

8.5.2.2. Recording Plan

This menu allows you to specify when the IPC starting recording. You can set a recording plan in the recording schedule. The recording is performed only within the selected time period. You can drag your cursor to mark areas.



8.5.3. Capture

8.5.3.1. Capture Settings

		Live Playback Remote Setting Local Settings	• 🕛
₽ Channel	Capture Capture Schedule		
Live Image Control Video Cover	Normal interval 5 S v		
B Record	Alarm Interval 5 S V		
Encode Record Capture	Auto Capture		
Event Setup Alarm	Save Reflecti		
(2) AI			
Setup Recognition Alarm Statistics			
ز Network			
General Email FTP RTSP DDNS HTTPS IP Filter			
Disk Audio Cloud			
System			
General Multi-User Maintenance Information			

Normal Interval: Normal capture interval, used to specify the capture interval in normal recording.

Alarm Interval: Alarm capture interval, used to specify the capture interval when motion detection, I/O alarm, or PIR is triggered.

Auto Capture: Automatic capture.

8.5.3.2. Capture Schedule

This menu allows you to specify when the IPC capture images. You can set a capture plan in the capture schedule. The capture is performed only within the selected time period. You can drag your cursor to mark areas.

									Li	ve P	layback	Remote Setting	Local Settings	_
₽ Channel	Capture Capture	Schedule												
Live Image Control Video Cover			4	6	8	10	12	14	16	18	20	22		
B Record	Sun.												O Normal	
incode Record Capture	Mon.												Motion	
Event	Tues.												<u>о</u> ю	
) AI	Wed.													
etup Recognition Alarm tatistics	Thur.													
); Network														
Seneral Email FTP RTSP DDNS HTTPS	Sat.													
P Filter	Save	Refresh												
] Device Isk Audio Cloud														
System														
- Seneral Multi-User faintenance Information														

Normal: When the area is marked green, the channel performs normal capture on the area in the corresponding time period.

Motion: When the area is marked yellow, the channel performs motion capture on the area in the corresponding time period.

IO: When the area is marked red, the channel performs I/O alarm capture on the area in the corresponding time period.

PIR: When the area is marked purple, the channel performs PIR alarm capture on the area in the corresponding time period.

No Capture: When the area is marked black, the channel will not perform capture in this time period.

8.6. Event Setup

8.6.1. Parameter Setup

8.6.1.1. Motion Detection

This menu allows you to configure motion detection parameters. When motion is detected, a series of alarms will be triggered, such as sending an email alert with attached images from the camera (if this option is enabled) and a push notification via the app.

			Live Playbac	Remote Setting Local Settings	•
₽ Channel	Motion Deterrence Siren Sound Detection Video 1	ampering			
Live Image Control Video Cover	Enable		2022-11-11 15:19:89p)		
Encode Record	Sensitivity 5 ~ ~ Target Detection Motion ~				
Event Setup Alarm	Save Refresh				
Al Setup Alarm					
Network General Email FTP RTSP DDNS HTTPS					
Device		Clear	AI		
System General Multi-User Maintenance Information					

You can drag the left mouse button to delimit the detection area in the right window. An alarm will be triggered only when motion is detected in this area.

Enable: Used to enable or disable motion detection.

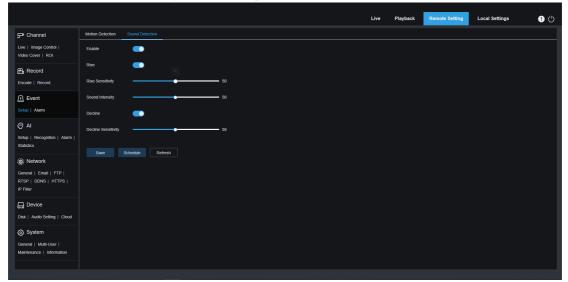
Sensitivity: Used to set the sensitivity of motion detection. The higher the value, the higher the

sensitivity.

Target Detection: Intelligent motion detection. You can set the target detection type and area. The motion detected in the area can trigger an alarm. The detection type includes the following four options: Motion, Pedestrian, Vehicle, and Pedestrian&Vehicle. (Note: Only some models support target detection.)

8.6.1.2. Sound Alarm

Used to set the response to sound alarm. An alarm will be triggered when the camera detects that the connected audio has changed and the requirement of alarm detection is met.



Enable: Used to enable or disable audio detection.

Rise: Volume rise switch. When this option is turned on, an alarm will be triggered only when the volume rises steeply.

Rise Sensitivity: Rise sensitivity. The higher the value, the easier it is to trigger an alarm.

Sound Intensity: Used to send sound intensity. This setting is the sound threshold. The larger the threshold, the louder the sound is required to trigger a rise alarm, and vice versa.

Decline: Volume decline switch. When this option is turned on, an alarm will be triggered only when the volume declines steeply.

Decline Sensitivity: Decline sensitivity. The higher the value, the easier it is to trigger an alarm. **Schedule:** Used to set a sound alarm schedule. A sound alarm will be triggered only within the planned time.



8.6.1.3. White Light Deterrence

This menu allows you to configure white light deterrence parameters when the camera supports white light and the image control is set to Day/Night Mode. When the alarm linking to deterrence is triggered, the white light will be automatically turned on for deterrence purpose. as shown in the figure below:

User Manual

		Live	Playback	Remote Setting	Local Settings	! U
P Channel	Motion Deterrence Sound Detection					
Live Image Control Video Cover	Light Contraction of the second secon					
🛱 Record	Duration 60 (5 ~ 180)					
Encode Record Capture	Color Image					
Event Setup Alarm Event Push	Determines Mode Light Warning v					
Al Setup Recognition Alarm Statistics	Save Default Refresh					
 Network General Email FTP RTSP DDNS HTTPS IP Filter 						
Device						
System General Multi-User Maintenance Information						

Note: When the camera supports white light and image control is set to Full Color Mode, the white light parameters such as **Light** become unavailable; when image control is set to Day/Night Mode, all parameters on this screen are available.

Light: White light deterrence switch.

Duration: Used to set the duration of white light deterrence.

Color Image: A switch used to determine whether to switch the image to color mode when the white light deterrence is triggered. If this option is enabled, if you switch to the night vision mode in Day/Night Mode, when an alarm is triggered and white light deterrence is performed, the image will switch to the color mode and not switch back to the night vision mode until the end of white light deterrence.

Deterrence Mode: White light Deterrence Mode. There are two mode options:

Light Warning: The white light is steady on during deterrence.

Light Strobe: The white light blinks at a set frequency during deterrence.

When the camera supports white light and warning light, you can set deterrence parameters on this screen. When an alarm linking to deterrence is triggered, the light can be turned on as configured. As shown in the following figure.

					Live	Playback	Remote Setting	Local Settings	• 🕛
🖵 Channel	Motion Deterrence	Siren Sound Detection							
Live Image Control Video Cover ROI	Light	•							
멾, Record	Duration		<u></u> (5 ~ 180)						
Encode Record Capture	Color Image	•							
Event	Deterrence Mode								
Setup Alarm Event Push	Warning Light	•							
Al Setup Recognition Alarm Statistics	Warning Light Duration	60 refault Refresh							
ز Network	Save	Retresh							
General Email FTP RTSP DDNS HTTPS IP Filter									
🖨 Device									
Disk Audio Cloud									
System General Multi-User Maintenance Information									

Note: When the camera supports white light and image control is set to Full Color Mode, the white light parameters such as **Light** become unavailable; when image control is set to Day/Night Mode, all parameters on this screen are available.

Light: White light deterrence switch.

Duration: Used to set the duration of white light deterrence.

Color Image: A switch used to determine whether to switch the image to color mode when the white light deterrence is triggered. If this option is enabled, if you switch to the night vision mode in Day/Night Mode, when an alarm is triggered and white light deterrence is performed, the image will switch to the color mode and not switch back to the night vision mode until the end of white

light deterrence.

Deterrence Mode: White light Deterrence Mode. There are two mode options:

Light Warning: The white light is steady on during deterrence.

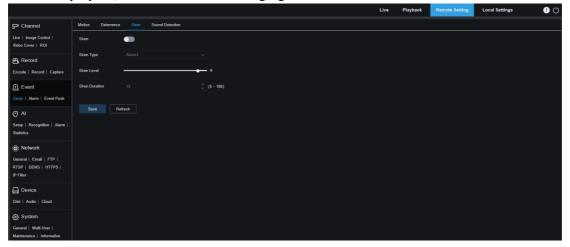
Light Strobe: The white light blinks at a set frequency during deterrence.

Warning Light: Turn on or turn off warning light.

Warning Light Duration: Set the warning light duration.

8.6.1.4. Siren Deterrence

When the PTZ camera supports siren, you can set siren deterrence parameters on this screen. When an alarm linking to deterrence is triggered, the siren is automatically turned on for deterrence purpose, as shown in the following figure.



Siren: Used to turn on/off the siren.

Siren Type: Used to set the siren file type.

By default, there are two files for users to configure. You can customize and import three siren audio files (the audio file format can be .wav and .pcm, and the file size is not larger than 256 K).

Siren Level: Used to set the siren level. **Siren Duration:** Used to set the siren duration.

8.6.1.5 Video Tampering Detection

Used to detect the live view tampering and trigger an alarm.

						Live	Playback	Remote Setting	Local Settings	•
₽ Channel	Motion	Sound Detection	Video Tampering							
Live Image Control Video Cover	Enable	•								
음, Record		Refresh								
Encode Record Capture										
Event										
Setup Alarm										
AI										
Setup Recognition Alarm Statistics										
) Network										
General Email FTP RTSP DDNS HTTPS IP Filter										
Device										
Disk Audio Cloud										
System										
General Multi-User Maintenance Information										

Enable: Used to enable or disable video tampering detection.

8.6.2. Alarm Setting

This menu allows you to set the actions to be performed when an alarm is triggered.

8.6.2.1. Motion Detection

							Live	Playback	Remote Setting	Local Settings	•
🖵 Channel	Motion Sound De	tection									
Live Image Control Video Cover	Post Recording										
B Record	Send Email										
Encode Record Capture	FTP Picture Upload										
f Event	FTP Video Upload										
Setup Alarm Event Push	Cloud Picture										
🖉 Al Setup Recognition Alarm	Cloud Video	•									
Statistics	Enable Record										
Network	Event push										
General Email FTP RTSP DDNS HTTPS	Light	•									
IP Filter	Warn Light										
Device	Siren										
System			Refresh								
General Multi-User Maintenance Information											

Latch Time: Used to set the duration for triggering an external alarm when motion is detected. **Post Recording**: You can set the duration of continuous recording after an event occurs. The options include 5s, 10s, 20s, and 30s. The default duration is 5s, but the maximum duration can be set to 30s.

Send Email: You can have the device automatically send you an email when it detects motion.

FTP Picture Upload: Used to upload alarm pictures to the FTP server.

FTP Video Upload: Used to upload alarm videos to the FTP server.

Cloud Picture: Used to upload alarm pictures to the cloud platform for storage.

Cloud Video: Used to upload alarm videos to the cloud platform for storage.

Alarm Out: Optional. If your device supports connection to an external alarm device, you can turn on this switch to activate the external alarm device.

Enable Record: If this option is turned on, this kind of recording will be enabled when an alarm is triggered.

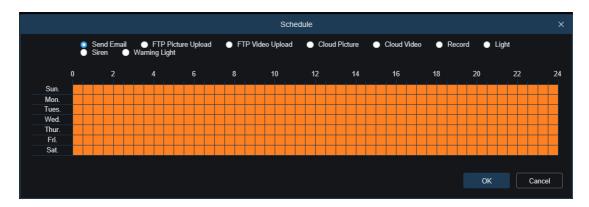
Event push: If this option is set to ON, this type of information will be pushed to the client when an alarm is triggered.

Light: If this option is set to ON, the white light will be turned on for deterrence when an alarm is triggered.

Warn Light: If this option is set to ON, the warning light will be turned on for deterrence when an alarm is triggered.

Siren: If this option is set to ON, the siren will be turned on for deterrence when an alarm is triggered.

Schedule: Used to set the scheduled time when an alarm acts. A series of alarm actions are triggered only within the scheduled time.



8.6.2.2. I/O Alarm

This function is available only when your device supports I/O sensors and is connected to an external I/O alarm device.

						Live	Playback	Remote Setting	Local Settings	• 🕛
P Channel	Motion VO Se	ound Detection								
Live Image Control Video Cover	Alarm Type									
₽ Record	Latch Time									
Encode Record Capture	Post Recording									
Event	Send Email	•••								
Setup Alarm Event Push	FTP Picture Upload	•								
Al Setup Recognition Alarm	FTP Video Upload									
Statistics	Cloud Picture	•								
() Network	Cloud Video	•								
General Email FTP RTSP DDNS HTTPS IP Filter	Alarm Out	•								
	Enable Record									
Device	Light									
System	Event push	•								
General Multi-User Maintenance Information	Save Sct	hedule Refresh]							

Alarm Type: You can select three alarm types: NO, NC, and Off. You can select a type that matches your sensor type, or select "Off" to turn off sensor triggering.

Latch Time: Used to set the duration for triggering an external alarm when an I/O alarm is triggered.

Post Recording: You can set the duration of continuous recording after an event occurs. The options include 5s, 10s, 20s, and 30s. The default duration is 5s, but the maximum duration can be set to 30s.

Send Email: You can have the device automatically send you an email when it detects an I/O alarm.

FTP Picture Upload: Used to upload alarm pictures to the FTP server.

FTP Video Upload: Used to upload alarm videos to the FTP server.

Cloud Picture: Used to upload alarm pictures to the cloud platform for storage.

Cloud Video: Used to upload alarm videos to the cloud platform for storage.

Alarm Out: Optional. If your device supports connection to an external alarm device, you can turn on this switch to activate the external alarm device.

Enable Record: If this option is turned on, this kind of recording will be enabled when an alarm is triggered.

Deterrent: If this option is turned on, the white light will be turned on for deterrence when an alarm is triggered.

Event push: If this option is set to ON, this type of information will be pushed to the client when an alarm is triggered.

Schedule: Used to set the scheduled time when an alarm acts. A series of alarm actions are triggered only within the scheduled time.

						Sch	edule						×
		Send Email Light	🔵 Alarm C	out 🕒	FTP Picture Up	oload 🔵 I	FTP Video Up	pload 🔵	Cloud Picture	Cloud	Video	Record	
		2	4	6	8	10	12	14	16	18	20	22	24
Sun.													
Mon.	\top												
Tues.													
Wed.	T												
Thur.													
Fri.													
Sat.													
											ок	Ca	ncel

8.6.2.3. Sound Alarm

		Live	Playback	Remote Setting	Local Settings	• 🕛
P Channel	Motion I/O Sound Detection					
Live Image Control Video Cover	Latch Time 5 S v					
E Record	Post Recording 5 S v					
Encode Record Capture	Send Email					
Event	FTP Picture Upload					
Setup Alarm Event Push	FTP Video Upload 💿					
@ AI	Cloud Picture					
Setup Recognition Alarm Statistics	Cloud Video					
Network	Alarm Out					
General Email FTP RTSP DDNS HTTPS	Enable Record					
IP Filter	Event push					
Device						
Disk Audio Cloud	Save Schedule Refresh					
System						
General Multi-User Maintenance Information						

Latch Time: Used to set the duration for triggering an external alarm when a sound alarm is triggered.

Post Recording: You can set the duration of continuous recording after an event occurs. The options include 5s, 10s, 20s, and 30s. The default duration is 5s, but the maximum duration can be set to 30s.

Send Email: You can have the device automatically send you an email when it detects a sound alarm.

FTP Picture Upload: Used to upload alarm pictures to the FTP server.

FTP Picture Video: Used to upload alarm videos to the FTP server.

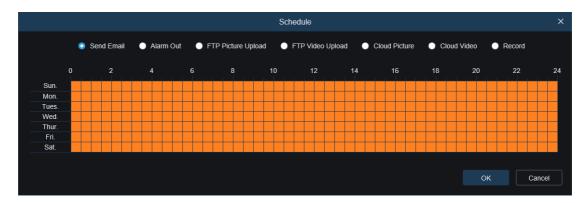
Cloud Picture: Used to upload alarm pictures to the cloud platform for storage.

Cloud Video: Used to upload alarm videos to the cloud platform for storage.

Alarm Out: Optional. If your device supports connection to an external alarm device, you can turn on this switch to activate the external alarm device.

Enable Record: If this option is turned on, this kind of recording will be enabled when an alarm is triggered.

Schedule: Used to set the scheduled time when an alarm acts. A series of alarm actions are triggered only within the scheduled time.



8.6.2.4. Video Tampering Alarm

						Live	Playback	Remote Setting	Local Settings	• 🕛
₽ Channel	Motion I/O	Sound Detection	Video Tamper	ing						
Live Image Control Video Cover	Latch Time	5 S								
Encode Record Capture	Send Email FTP Picture Upload	• • • • •								
Event Setup Alarm	FTP Video Upload									
Al Setup Recognition Alarm	Cloud Picture Cloud Video	•								
Statistics	Alarm Out	•								
General Email FTP RTSP DDNS HTTPS IP Filter			Refresh							
Device										
System General Multi-User										

Latch Time: Used to set the duration for triggering an external alarm when a video tampering alarm is triggered.

Send Email: You can have the device automatically send you an email when it detects a sound alarm.

FTP Picture Upload: Used to upload alarm pictures to the FTP server.

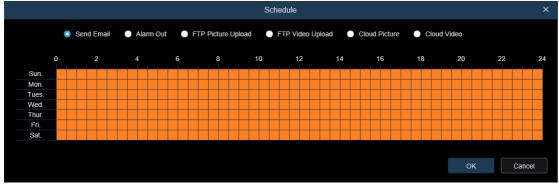
FTP Video Upload: Used to upload alarm videos to the FTP server.

Cloud Picture: Used to upload alarm pictures to the cloud platform for storage.

Cloud Video: Used to upload alarm pictures to the cloud platform for storage.

Alarm Out: Optional. If your device supports connection to an external alarm device, you can turn on this switch to activate the external alarm device.

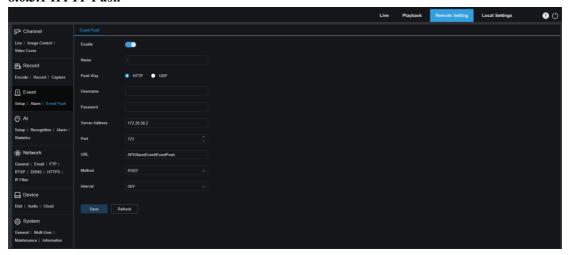
Schedule: Used to set the scheduled time when an alarm acts. A series of alarm actions are triggered only within the scheduled time.



(Note: Video tampering alarm is supported in some models).

8.6.3 Event Push Function Settings

Event push can be implemented in two modes: HTTP push mode and UDP push mode. HTTP push mode provides POST method and GET method. UDP push mode provides unicast, multicast, and broadcast methods. (Note: Only some models support the event push function.) **8.6.3.1 HTTP Push**



Enable: Used to enable or disable the event push function.

Name: Used to set the channel name.

Push Way: Used to set the push mode. Both HTTP push mode and UDP push mode are supported. You can select **HTTP** or **UDP** as required.

Username: Used to set the username. It can be set to NULL if there is not any.

Password: Used to set the password. It can be set to NULL if there is not any.

Server Address: Used to set the server address.

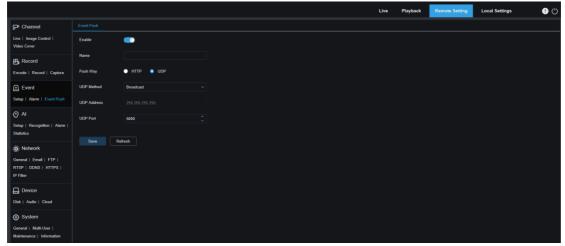
Port: Used to set the server port. (port number range: 1–65535.)

URL: Used to set the server API. It can be set to NULL if there is not any.

Method: Used to set the HTTP push method. Both POST and GET methods are supported. Only the HTTP-POST method supports image push. Other methods push notifications only. The alarm type of image push is the same as that in the alarm column of live view on the Web client. **Interval:** Used to 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.





Enable: Used to enable or disable the event push function.

Name: Used to set the channel name.

Push Way: Used to set the push mode. Both HTTP push mode and UDP push mode are supported. You can select **HTTP** or **UDP** as required.

UDP Method: Used to set the UDP push method. There are three options: **Unicast**, **Multicast**, and **Broadcast**.

Unicast: Enter the IP address and port number of the client UDP server for receiving push notifications. The notifications can be received by this address only.

Multicast: Multiple clients in the same network segment of which the UDP servers use the same UDP address and port number can receive notifications. Other UDP addresses cannot receive notifications.

Broadcast: All UDP servers in the same network segment can receive notifications. **UDP Address:** Used to set the UDP server address.

UDP Port: Used to set the UDP server port. (port number range: 1–65535)

8.7. AI

8.7.1. Setup

To use the AI alarm function, enable the alarm function in the Setup menu. Enabling the function consumes the computing power of the camera. Due to the limited performance of the camera, HM, RSD, and other functions can be enabled at the same time but not PID, LCD, SOD, FD, PD&VD, CC, CD, QD, and LPD.

8.7.1.1. FD

Face detection function. First, the camera detects the face and obtain the capture image that meets the requirements. Then, the face feature data of the capture image is calculated by the face model algorithm and then compared with that in the face database. Finally an alarm is triggered. To do this, you need to enable the face detection function.

											Live	Playback	Remote Setting	Local Settings	• 🙂
₽ Channel	FD PD&VD	PID LCD	SOD	сс нм	CD	QD	LPD	RSD	Al Schedule						
Live Image Control Video Cover ROI	Enable	•							M	Camera	14/04/2022 09:	46:55			
음 Record	Dynamic Marking														
Encode Record Capture	Face Enhance	•											1		
Event	Face Attribute	•									3	-			
Setup Alarm	Snap Mode						12		- Ard	e Pin	to da		9		
Al Setup Recognition Alarm	Apply Mode									8		e			
Statistics	Min Pixel				Ĵ (32 ~ 108	30)		-	-						
() Network	Max Pixel					080)				- 27					
General Email FTP RTSP DONS HTTPS IP Filter	Detection Mode									िलि					
Device	Rule Kind														
Disk Audio Cloud	Detection Range														
System		Refresh													
General Multi-User Maintenance Information															

Enable: Used to enable the face detection function.

Dynamic Marking: Displays the face detection box and used to turn on or off the detection rule line.

Face Enhance: Face enhancement switch to increase the capture effect of moving objects. It will also adjusts the brightness of the recognized face closest to the camera to optimize the capture effect.

Face Attribute: Used to recognize the features of the detected face image, including age, gender, mask, glasses, expression, and so on. Note: To use the AD alarm, enable this function.

Snap Mode: Used to set the snap mode. You can 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.

Interval Mode: Used to 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.

Apply Mode: Used to 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: You can choose to push images containing only side faces.

Customize: Used to 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: Used to 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: Used to 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: Used to 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.

Min Pixel: Based on the 1080p resolution, filter out faces lower than the setting in the snap screen. The default resolution is 64×64 pixels, and the setting range is 32 to 1080 pixels.

Max Pixel: Based on the 1080p resolution, filter out faces greater than the setting in the snap screen. The default resolution is 640×640 pixels, and the setting range is 320 to 1080 pixels.

Detection Mode: Used to filter the performance of detected objects in the camera. There are two mode options.

Static Mode: Allows you do face detection for all objects in the view.

Motion Mode: Allows you to filter out motionless faces, such as such as portraits and statues in the scene.

Rule Kind: Used to set the detection rule line type. There are two rule types.

Rect: Allows you to detect only face objects in the set area.

Line: In this mode, face objects are tracked only when the detection line is crossed according to settings.

Detection Range: 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.

Customize: Only the areas selected in quadrilateral boxes are detected.

The Rule Type setting option is available only when the line-crossing detection mode is used. There are $A \rightarrow B$ and $B \rightarrow A$ detection Trigger Modes.

Frontal Default Apply Mode: This control is displayed when Customize is selected. Set the angles of the image to be pushed as follows: Range: 30, Pitch Range: 30, Yaw Range: 45, Picture Quality: 100

Multi Default Apply Mode: This control is displayed when Customize is selected. Set the angles of the image to be pushed as follows: Range: 180, Pitch Range: 180, Yaw Range: 180, Picture Quality: 100

Rule Line Setting Area: You can set the quadrilateral detection area or detection triggering line in this area according to parameter settings.

8.7.1.2. PD&VD

Pedestrian detection and vehicle detection function, used to recognize pedestrian or vehicles in the

									Live	Playback	Remote Setting	Local Settings	• C
🖵 Channel	FD PD&VD	PID LCD	SOD CC	нм с	D QD	LPD	RSD Al Schedu	e					
Live Image Control Video Cover ROI	Enable	•					M	Camera	14.04/2022 09	47.32			
B Record	Sensitivity							-					
Encode Record Capture	Dynamic Marking	-											
Event	Snap Mode					1.10		6					
Setup Alarm	Min Pixel			¢ (i4 - 1080)	<u>_1</u> #	and a	<u> </u>	al da		4		
AI	Max Pixel				1080}			1					
Setup Recognition Alarm Statistics	Detection Type	Pedestrian								-			
Network		Motor Vehick				1	*	-		T			
General Email FTP RTSP DDNS HTTPS								30	1				
RTSP DUNS HTTPS IP Filter	Detection Mode												
Device	Detection Range												
Disk Audio Cloud		Refresh											
System													
General Multi-User													

Enable: Used to enable the pedestrian and vehicle detection function.

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

Dynamic Marking: Displays the pedestrian and vehicle detection box and used to turn on or off the detection rule line.

Snap Mode: Used to set the snap mode. You can receive push notifications in live view or connect an 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: Used to push images at a set interval.

Snap Num: Images for the same object as determined by the camera will be pushed 1, 2, 3, or unlimited times at an interval set in Snap Frequency.

Snap Frequency: Images will be pushed based on the set time upon appearance of an object or since the last push.

Min Pixel: Based on the 1080p resolution, filter out pedestrian or vehicle objects lower than the setting in the view.

Max Pixel: Based on the 1080p resolution, filter out pedestrian or vehicle objects greater than the setting in the view.

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

Detection Mode: Used to filter object behaviors in the detection area. There are two mode options.

Static Mode: Allows you to detect all pedestrians or vehicles in the view.

Motion Mode: Allows you to filter out motionless pedestrians or vehicles.

Detection Range: Detection area setting. There are two mode options:

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

Customize: Only the areas selected in quadrilateral boxes are detected.

Rule Line Setting Area: Allows you to configure detection settings in this area when the custom detection area mode is used.

8.7.1.3. PID

Perimeter intrusion detection. An alarm is triggered when a specific object enters or leaves the warning area.

User Manual

									Live	Playback	Remote Setting	Local Settings	•
🖵 Channel	FD PD&VD	PID LCD	SOD CC	: нм с	D QD	LPD	RSD AI Sche	ule					
Live Image Control Video Cover ROI	Enable	•					M	Camera	14/04/2022 09	53-24			
음, Record	Sensitivity												
Encode Record Capture	Dynamic Marking	•								and the second s	1		
<u>∩</u> Event Setup Alarm	Detection Type	Pedestrian Motor Vehici Non-motoriz							at Los	L	a		
Al Setup Recognition Alarm Statistics	Rule Number								1				
	Rule Switch	•				M							
(i) Network General Email FTP RTSP DDNS HTTPS	Rule Type								N.	4			
IP Filter		Refresh											
E Device													
Disk Audio Cloud													
System													
General Multi-User Maintenance Information													

Enable: Used to turn on or off the perimeter intrusion alarm function.

Sensitivity: Used to filter small disturbing objects. The higher the sensitivity, the smaller the object can be detected.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line. **Detection Type:** Used to set objects for perimeter intrusion detection:

Pedestrian: An alarm is triggered when a pedestrian intrudes the perimeter.

Motor Vehicle: An alarm is triggered when a motor vehicle intrudes the perimeter.

Non-motorized Vehicle: An alarm is triggered when a non-motorized vehicle intrudes the perimeter.

Rule Number: Allows you to select a rule line number. The PID function allows you to set four detection rule lines.

Rule Switch: Used to turn on or off rule lines. Each rule line has an independent enable switch that is associated with the currently selected Rule Number.

Rule Type: Specifies the rule to trigger rule lines. There are $A \rightarrow B$, $B \rightarrow A$, and $A \leftarrow \rightarrow B$ linecrossing rules whose settings are related to the currently selected Rule Number.

Rule Line Setting Area: Allows you to set and view edited rule lines.

Delete: Allows you to delete selected rule Lines in the rule line setting area. **Delete All:** Allows you to delete all rule lines.

8.7.1.4. LCD

Line-crossing detection function. An alarm is triggered when a specific object crosses the preset detection line.

										Live	Playback	Remote Setting	Local Settings	• 🕛
₽ Channel	FD PD&VD	PID LCD	SOD CO	C HM CD	QD	LPD	RSD	Al Schedule						
Live Image Control Video Cover ROI	Enable	•						W	Camera	14/04/2022 09:5	59.03			
음, Record	Sensitivity					-								
Encode Record Capture	Dynamic Marking								0		C. C	Contra la		
f Event	Detection Type	Pedestria					-							
Setup Alarm		Motor Vet				-1		Hak de	2.200	- La	目線	3		
(?) AI	Rule Number										6			
Setup Recognition Alarm Statistics	Rule Switch	•				N			-		T			
Network	Rule Type						*		-		1			
General Email FTP RTSP DDNS HTTPS IP Filter		Refresh				I.V			Delete	Delete All				
Device														
Disk Audio Cloud														
System														
General Multi-User Maintenance Information														
Maintenance Information														

Enable: Used to enable the line-crossing detection function.

Sensitivity: Used to filter small disturbing objects. The higher the sensitivity, the smaller the object can be detected.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line. **Detection Type:** Used to set objects for perimeter intrusion detection:

Pedestrian: A perimeter intrusion alarm is triggered only for pedestrians.

Motor Vehicle: A perimeter intrusion alarm is triggered only for motor vehicles.

Non-motorized Vehicle: A perimeter intrusion alarm is triggered only for non-motorized vehicles.

Rule Number: Allows you to select a rule line number. The LCD function allows you to set four detection rule lines.

Rule Switch: Used to turn on or off rule lines. Each rule line has an independent enable switch that is associated with the currently selected Rule Number.

Rule Type: Specifies the rule to trigger rule lines. There are $A \rightarrow B$, $B \rightarrow A$, and $A \leftarrow \rightarrow B$ linecrossing rules whose settings are related to the currently selected Rule Number.

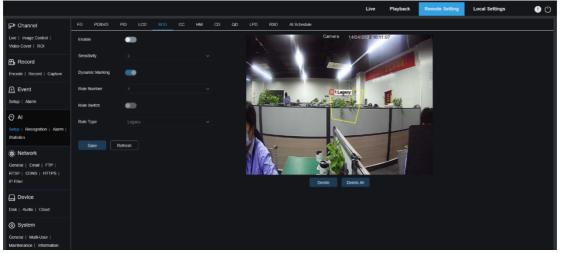
Rule Line Setting Area: Allows you to set, modify, and view edited rule lines.

Delete: Allows you to delete selected rule Lines in the rule line setting area.

Delete All: Allows you to delete all rule lines.

8.7.1.5. SOD

Salient object detection. An alarm will be triggered when there are items left or lost in the monitored scene.



Enable: Used to turn on or off the SOD function.

Sensitivity: Used to filter small disturbing objects. The higher the sensitivity, the smaller the object can be detected.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line.

Rule Number: Allows you to select a rule line number. The LCD function allows you to set four detection rule lines.

Rule Switch: Used to turn on or off rule lines. Each rule line has an independent enable switch that is associated with the currently selected Rule Number.

Rule Type: Specifies the rule to trigger rule lines. You can set to trigger an alarm when an item is left or lost in the detection area. There are three rules including Legacy, Lost, and Lost & Legacy whose settings are related to the currently selected Rule Number.

Rule Line Setting Area: Allows you to set, modify, and view edited rule lines.

Delete: Allows you to delete selected rule Lines in the rule line setting area.

Delete All: Allows you to delete all rule lines.

8.7.1.6. CC

Cross counting (CC) statistics function. Used to record the line-crossing information of a specific object in the monitored area. Set a crossing line. There are A and B areas on two sides of the set line. For example, the triggering rule for the rule line is $A \rightarrow B$. When an object enters from area A

and crosses the detection line, in is increased by I when the object leaves area B. When the object enters from area B and crosses the detection line, out is increased by 1 when the object leaves area A. When the increase is to be calculated, an alarm is triggered only when the current IN count minus the out count is greater than or equal to the set Alarm Number, as shown in the following figure.

									Live	Playback	Remote Setting	Local Settings	•
🖵 Channel	FD PD&VD	PID LCD	sod cc	ни с	D QD	LPD RSD	Al Schedule						
Live Image Control Video Cover ROI	Enable	•				1	W	Camera 1	4/04/2022 10:1	1:54			
음 Record	Sensitivity									and it			
Encode Record Capture	Dynamic Marking	-						0	THE	-	1 1		
Event	Туре					· stans			-				
Setup Alarm	Alarm Number				~ 255)		nand of	2 49/2	100	14			
Al Setup Recognition Alarm	Start Time												
Statistics	End Time					1 a				5			
General Email FTP	Rule Number					1 PA			2				
RTSP DONS HTTPS IP Filler	Rule Switch	-						Delete De	siete All				
E Device	Rule Type												
Disk Audio Cloud		Refresh Reset 0	count										
System													
General Multi-User Maintenance Information													

Enable: Used to enable the cross counting (CC) statistics function.

Sensitivity: Used to filter small disturbing objects. The higher the sensitivity, the smaller the object can be detected. This can also be used to detect distant objects in the scene.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line.

Type: Used to set the type of objects to be recognized in the cross counting (CC) detection. There are three modes. Switchover or saving operation will clear the current count.

Motion: All objects, including pedestrians, vehicles, and cartons, will be detected.

Pedestrian: Only pedestrian objects will be recognized.

Motor Vehicle: Only motor vehicle objects will be recognized.

Non-motorized Vehicle: Only non-motorized vehicle objects will be recognized.

Alarm Number: Used to set conditions to trigger an alarm. The camera will trigger a CC alarm when the count is updated and the in count minus the out count is greater or equal to the current setting.

Start Time: The time when the line-crossing detection function starts to work every day.

Start Time: The time when the line-crossing detection function stops working every day.

Rule Number: Rule line number. Only one detection rule line is supported for cross counting (CC).

Rule Switch: Used to turn on or off the current rule line.

Rule Type: Used to set the direction to increase the in/out trigger count, that is, $A \rightarrow B$ and $B \rightarrow A$. For example, if $A \rightarrow B$ is selected, the in count increases when the monitored object enters area A and leaves area B, and the out count increases when the monitored object enters area B and leaves area A.

Reset Count: Used to clear the currently displayed count.

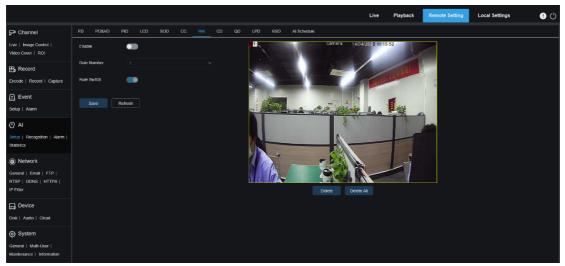
Line-crossing Setting Area: Allows you to set the rule line for cross counting (CC) detection in this area.

Count Area: Displays cross counting (CC) statistics. For details, refer to Adjusting Display Location in Section 8.1.

8.7.1.7. HM

Heat map. You can set all areas or a specific area to detect the people activity information in the specified area. You can also save and upload changes at an interval of 10 minutes. The heat map can intuitively present people distribution in temporal and spatial dimensions for good understanding of activity degrees in each area in the scene. This function only supports data recording, not alarming.

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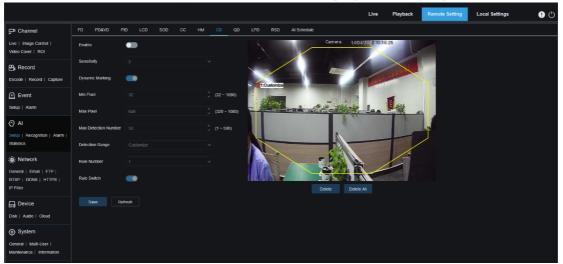
Enable: Used to turn on or off the HM statistics.

Rule Number: Rule line number. Only one detection rule line is supported for HM. **Rule Switch:** Used to turn on or off the current rule line.

Monitoring Area Setting: Used to set the areas for collecting heat statistics. By default, all areas are selected.

8.7.1.8. CD

Crowd detection function. Perform people counting and identify number of people in the monitored area. An alarm is triggered when the number of people exceeds the preset value.



Enable: Used to turn on or off the crowd detection function.

Sensitivity: Used to filter small disturbing objects. The higher the sensitivity, the smaller the object can be detected.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line.

Min Pixel: Based on the 1080p resolution, filter out objects with heads smaller than the setting in the view.

Max Pixel: Based on the 1080p resolution, filter out objects with heads larger than the setting in the view.

Max Detection Number: Maximum number of heads that can be detected in the detection area. An alarm will be triggered when this value is exceeded.

Detection Range: Used to set the area where the crowd detection function will be applied. There are two modes.

Full Screen: In this mode, all areas covered by the camera will be detected.

Customize: Allows you to customize detection areas.

Rule Number: Rule line number. This number is displayed when you set a custom detection area.

One detection rule line is supported.

Rule Switch: Used to turn on or off the current rule line. This switch is displayed when you set a custom detection area.

Detection Area Setting: This setting is available when you set a custom detection area. An octagonal detection area needs to be set.

Count Display Area: Displays the number of people in the current monitored area. For adjustment of display location, see Section 8.1.

8.7.1.9. QD

Queue detection function. Used to set the people number in the queue and wait time. An alarm will be triggered when the queue is too long or the wait time is too long.

	Live Playback Remote Setting Local Settings 🕕 🕚
₽ Channel	FD PDAVD PID LCD SCD CC HM CD QD LPD RSD AllSchedule
Live Image Control Video Cover ROI	Enable Camera 14/0/2022/1017.33
멾 Record	Sensitivity 2 v
Encode Record Capture	Dynamic Marting
Event	Min Patel 32 C (32 - 1080)
Setup Alarm	Max Peer 640 C (220 - 1000)
Al Setup Recognition Alarm	Max Detection Number 10 C (1 - 100)
Statistics	Max Pro Time 60 C (1 ~ 5000)
 Network 	Detection Range Customize v
General Email FTP RTSP DDNS HTTPS IP Filter	Rule Number 1 Celebra
Device	Rule Switch
Disk Audio Cloud	Save Retrest
System	
General Multi-User Maintenance Information	

Enable: Used to turn on or off the queue detection function.

Sensitivity: Used to filter small disturbing objects. The higher the sensitivity, the smaller the object can be detected.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line.

Min Pixel: Based on the 1080p resolution, filter out objects with heads smaller than the setting in the view.

Max Pixel: Based on the 1080p resolution, filter out objects with heads larger than the setting in the view.

Max Detection Number: Maximum number of heads that can be detected in the detection area. An alarm will be triggered when this value is exceeded.

Max Pro Time: The maximum duration allowed for people to stay in the detection area. An alarm will be triggered when the set duration is exceeded and no one leaves the detection area. (This duration starts from the time when the last person leaves the detection area. If no one leaves within the set duration, the processing will be considered as timeout and an alarm will be triggered.)

Note: Counting is restarted only when a target leaves the detection area. Counting will be ignored if the target in the area suddenly disappears. Counting is started only if a target is detected in the detection area.

Detection Range: Used to set the area where the queue detection function will be applied. There are two modes.

Full Screen: In this mode, all areas covered by the camera will be detected.

Customize: Allows you to customize detection areas.

Rule Number: Rule line number. This number is displayed when you set a custom detection area. One detection rule line is supported.

Rule Switch: Used to turn on or off the current rule line. This switch is displayed when you set a custom detection area.

Detection Area Setting: This setting is available when you set a custom detection area. An octagonal detection area needs to be set.

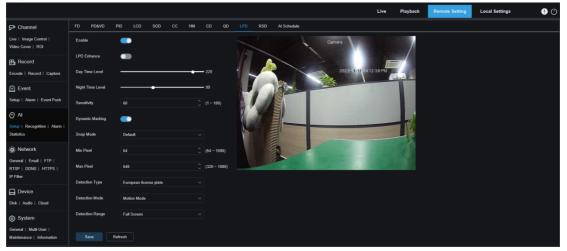
Count Display Area: Displays the number of people in the current monitored area and queue

time. For adjustment of display location, see Section 8.1.

8.7.1.10. LPD

License plate detection function. Used to detect license plates of passing vehicles to determine whether vehicles are registered to the database or not. An alarm will be triggered where necessary. Therefore, the license plate detection function needs to be enabled.

Currently, the license plate detection function is only available for European and American regions.



Enable: Used to turn on or off the license plate detection function.

LPD Enhance: Enable or disable the LPD Enhance function. This function and WDR, HLC, as well as BLC are mutually exclusive. Therefore, they cannot be enabled simultaneously. If the enhancement mode is enabled, the shutter mode and exposure time also cannot be adjusted. **Day Time Level:** Day time level. When IR light is disabled for the camera, the higher the level, the brighter the image. Likewise, the lower the level, the dimmer the image. The level value ranges from 0 to 255.

Night Time Level: Night time level. When IR light is enabled for the camera, the higher the level, the brighter the image. Likewise, the lower the level, the dimmer the image. The level value ranges from 0 to 255.

Note: The level can be adjusted only when LPD and LPD Enhance are both enabled. When the LPD Enhance mode is enabled, the image brightness is adjusted based on the specified value for the day mode and night mode respectively. The two modes do not interfere with each other as they are switched automatically depending on whether the camera IR light is enabled. In addition, the LPD Enhance mode and the exposure compensation of image control, as well as the shutter manual mode are mutually exclusive. Therefore, they cannot be enabled simultaneously. If the LPD Enhance mode is enabled, the time exposure of image control also cannot be changed.

Sensitivity: Used to filter small disturbing objects. The higher the sensitivity, the easier it is to detect an object.

Dynamic Marking: Displays the detection box and used to turn on or off the detection rule line. **Snap Mode:** Used to set the snap mode. You can receive push notifications in live view or connect an NVR to check the image effect. The program supports three Snap Modes.

Default: The camera pushes only one license plate 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: Used to push images at a set interval.

Min pixel: Minimum recognition pixel. Only license plates greater than the set minimum pixel can be recognized.

Max pixel: Maximum recognition pixel. Only license plates lower than the set maximum pixel can be recognized.

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

European license plate: License plates in European regions.

American license plate: License plates in American regions.

Detection Mode: License plate detection mode. There are two mode options.

Static Mode: In this mode, static license plates in the view will be detected.

Motion Mode: In this mode, motionless vehicles and their license plates will be filtered out and only license plates in motion will be detected.

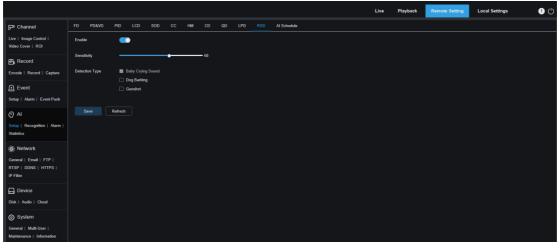
Detection Range: Used to set the area where the license plate detection function will be applied. There are two type options.

Full Screen: Detection in full screen.

Customize: Allows you to customize detection areas.

8.7.1.11. RSD

Sound exception detection. Here you can set different detection requirements depending on application requirements, for example, baby crying sound, gunshot, and dog barking. An alarm will be triggered when the camera detects the set sound.



Enable: Used to turn on or off the sound exception detection function.

Sensitivity: Sensitivity. 1 indicates the minimum setting and 100 indicates the maximum setting. **Detection Type:** Specifies detection type.

Baby Crying Sound: A baby crying sound can be detected if this box is checked. **Dog Barking:** A dog barking sound can be detected if this box is checked. **Gunshot:** A gunshot sound can be detected if this box is checked.

8.7.1.12. AI Schedule

AI schedule. You can set the AI enable schedule with this function. This function can be enabled or disabled.

														Live	Playback	Remote Setting	Local Settings	• 🕛
₽ Channel	FD PD&VE	D PIE	LCD	SOD	CC HIN	(CD	QD	LPD	RSD	Al Sch	edule							
Live Image Control Video Cover ROI	Enable		•															
B Record		💿 FD	PD & VD	O PID	🟮 LCD	SOD	o cc	CD CD	00	iD 🔾	LPD	о ни	RSD					
Encode Record Capture	Sun.	0	2	4	6		8	10		12		14	16	18	3 20	22	24	
Event	Mon. Tues.							++		++	Ħ							
Setup Alarm	Wed. Thur.																	
() AI	Fri. Sat.																	
Setup Recognition Alarm Statistics																	Functions are mutual	illy exclusive
(); Network	Save	Refre	esh															
General Email FTP RTSP DDNS HTTPS IP Filter																		
Device																		
Disk Audio Cloud																		
System																		
General Multi-User Maintenance Information																		

Enable: Used to turn on the schedule.

Functions are mutually exclusive: Functions that are mutually exclusive to the selected functions.

Note:

- Functions that are mutually exclusive cannot be set at the same time. That is, two mutually exclusive AI functions cannot be enabled at the same time. There will be restrictions on this UI.
- After the AI schedule is enabled, all AI function switches for the channel can no longer be manually enabled or disabled and are controlled by the schedule. However, parameters

8.7.2. Recognition

8.7.2.1. Face Recognition

Face recognition function. The focus is to recognize the identity of a detection object and use base data for comparison. The program establishes a database for face matching using the database management function.

Note: Changes to the database take full effect after the system reloads data for a short period of time.

				Live Playback Ren	note Setting Local Settings
🖵 Channel	Database Management				
Live Image Control		Group Name	Delete	Edit	Enable
Video Cover ROI		Allow List			
🖺 Record		Block List			
Encode Record		Stranger			
f Event		Group 1			
Setup Alarm		Refresh			
🤊 AI					
– Setup Recognition Alarm Statistics					
Setup Recognition Alarm Statistics					
Setup Recognition Alarm Statistics					
Setup Recognition Alarm Statistics					
etup Recognition Alarm Matistics) Network General Email FTP RTSP DDNS HTTPS					
setup Recognition Alarm Italistics) Network Seneral Email FTP KTSP DDNS HTTPS P Filler					
setup Recognition Alarm Hatistics) Network Seneral Email FTP KTSP DDNS HTTPS P Filter ☐ Device					
Setup Recognition Alarm Statistics					
Setup Recognition Alarm					

Alarm Policy Display: This serves as a policy prompt only in the camera. Green indicates the allow list, red indicates the block list, and colorless indicates the stranger group.

Group Name: Here you can edit, modify, and view the current group name. A group name will be pushed together with an alarm.

Delete: Here you can delete a group. The first three group cannot be deleted.

Edit: Here you can open the image setting example for this group. For details, please continue editing the content on the next image.

Enable: Used to turn on or off the face recognition function for data comparison between groups. **Add Group:** Allows you to add a new database group. Up to 16 database groups can be added.

You can click the **Edit** icon to set the reference data for the corresponding group. The view is shown in the figure below.

						•
		Group 1			×	
Б	ouxuxiang_0_0		Face Information			
			Name	zouxuxiang_0_0_	[g3_f62]	
				Male		
	Detail Information		Age			
	Move To		Country			
	Edit		Nation Native Postion			
	Delete		Id Code			
			Occupation			
			Phone			
			Email			
			Residence			
			Remark			
					Delete	

Added Image Display Area: Displays images that have been added to groups in the face database.

Info: Displays the editing information of the selected image.

Detail Information: Right click event to check the information of the selected image.

Move To...: Right click event to move the selected image to other groups.

Edit: Right click event to open the editing interface of the selected image to edit the information again.

Delete: Right click event to delete the selected image.

Import: You can add new face data in the current group and import local images or captured images by the camera.

Delete: Used to delete face data in batches in the database. You can click this icon, select the image to be deleted, and then click the Delete icon again to delete the image.

8.7.2.2. License Plate Recognition

License plate recognition function. The focus is to recognize the identity of a detection object and use base data for comparison. The program establishes a database for license plate matching using the database management function.

Note: Changes to the database take full effect after the system reloads data for a short period of time.

				Live Playback	Remote Setting Lo	ocal Settings	•
P Channel	Face Database Management License Plate Management	gement					
Live Image Control		Group Name	Delete	Edit		Enable	
Video Cover ROI		Allow List					
B Record		Block List					
Encode Record Capture		Unkown					
O Event		Group 1					
Event							/1>>
Setup Alarm Event Push	Add Group Save Refresh						
AI	Aud on up Save Refresh						
Setup Recognition Alarm							
Statistics							
:) Network							
General Email FTP							
RTSP DDNS HTTPS							
IP Filter							
🖨 Device							
Disk Audio Cloud							
System							
General Multi-User							
Maintenance Information							

Alarm Policy Display: This serves as a policy prompt only in the camera. Green indicates the allow list, red indicates the block list, and colorless indicates the unknown license plate list.

Group Name: Here you can edit, modify, and view the current group name. A group name will be pushed together with an alarm.

Delete: Here you can delete a group. The first three group cannot be deleted.

Edit: Here you can open the image setting example for this group. For details, please continue editing the content on the next image.

You can click the **Edit** icon to set the reference data for the corresponding group. The view is shown in the figure below.

										× En:
	License Plate	Color	Car Brand	Car Type	Owner	Gender	ld Code	Plate Detail		
	W5074 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male		License Plate	W5074 PRA	
Capture	W5075 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male				
	W5076 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male		Color	Blue	
	W5077 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male		Car Brand	НЈНЈН	
	W5078 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male		Car Type	Volkswagen	
	W5079 PRA	Blue	нунун	Volkswagen	GSY5DGDXGH	Male		Owner	GSY5DGDXGH	
	W5080 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	5179			
	W5081 PRA	Blue	нунун	Volkswagen	GSY5DGDXGH	Male	5180	Gender	Male	
n Alarm	W5082 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	5181 5182	Phone	2217284	
	W5083 PRA W5084 PRA	Blue	нунун	Volkswagen	GSY5DGDXGH GSY5DGDXGH	Male	5182	ld Code		
	W5084 PRA	Blue	нунун Нунун	Volkswagen Volkswagen	GSY5DGDXGH	Male Male	5183	5173		
	W5086 PRA	Blue	нунун	Volkswagen	GSY5DGDXGH	Male	5185			
FTP	W5087 PRA	Blue	нунун	Volkswagen	GSY5DGDXGH	Male	5186	Occupation		
TTPS	W5088 PRA	Blue	нунун	Volkswagen	GSY5DGDXGH	Male	5187	22222		
	W5089 PRA	Blue	нунун	Volkswagen	GSY5DGDXGH	Male	5188	Residence		
	W5090 PRA	Blue	нунун	Volkswagen	GSY5DGDXGH	Male	5189	51534		
	W5091 PRA	Blue	нунун	Volkswagen	GSY5DGDXGH	Male	5190	Remark		
				Ľ				agregaegea		

There are three ways to add license plate information: Import, Import From CSV, and Import From Local Capture.

- 1) You can click the **Import** button to manually add individual entries of license plate information.
- 2) You can click the **Import From CSV** button to import one or multiple data entries from CSV. The CSV sheet is formatted as follows:

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6	В	C	D	Ε	F	G	Н	I			L	Л	в	0	Р	Q	R	S	т	U	v	v	х	Y	Z
1 License	FColor	Car Bra	ncCar Typ	e Owner	Sex	Id Code	Phone	Occupati.	ResidenceRe	mark															
2 号C-3R5		HJHJH	Volkswa	s∈YHJ	nale	2222	2212211	22222																	
3 A-HP-23	3 white	HJH	NOMAL	UYUU	nale	101	11111	LLLL	KKLKLK FQ	6040															
4 MCT164J		BEBB	NOWAL.	0000	female		2145435																		
5 FLB-360		R23R2AD		QRQD	female		432525			TT#E															
6 MA 5465		T#WAGA		F#FF#F	female		532535			FVA															
7 GC 9871		RG₩TWZG	EAVEGVIG	₩TAZHRT	female	105	2.35E+09	VAVAGEG	AGHAG AG	87															
8 LH66 BU			FJWTASDSB				3.47E+08		agshsrh ag																
9 R21 R0Y		HEH	T4T34	AWETAT					STUUROFYBET																
10 DE14 LV	P white	BTUURHS	4YAGRG	AERTWYDE	Male	108	45634	VEGARGA																	
11 1218 LG		HSHRTHS		GSY5DGD1			4673T3878		SDGSHHRTFTR																
12 ¥12 FRA		GREGAGA	G AGEAGE	GA4TGZV2			4546363		GSG WG																
13 ¥13 PRA	blue	HJHJH	WEGWTG	GSY5DGD3	KGmale	112	2212223	22222	46473 FF	OFOFO															
14 ¥14 PRA		HJHJH	WEGWTG	CSY5DGD3			2212224	22222																	
15 ¥15 PRA		HJHJH	WEGWTG	GSY5DGD2			2212225	22222																	
16 ¥16 PRA		HJHJH	WEGWTG	GSY5DGD1			2212226	22222																	
17 ¥17 PRA		HJHJH	WEGWTG	CSY5DGD3			2212227	22222																	
18 ¥18 PRA		HJHJH	WEGWTG	GSY5DGD2			2212228	22222	46478 AG	87															
19 ¥19 PRA		HJHJH	WEGWTG	GSY5DGD1			2212229	22222																	
20 ¥20 PRA		HJHJH	WEGWTG	GSY5DGD3			2212230	22222																	
21 ¥21 PRA		HJHJH	WEGWTG	GSY5DGD1			2212231	22222																	
22 ¥22 PRA		HJHJH	WEGWTG	CSY5DGD3			2212232	22222																	
23 ¥23 FRA		HJHJH	WEGWTG	GSY5DGD3			2212233	22222																	
24 ¥24 PRA		HJHJH	WEGWTG	GSY5DGD1			2212234	22222																	
25 ¥25 PRA		HJHJH	WEGWTG	GSY5DGD3			2212235	22222																	
26 ¥26 FRA		HJHJH	WEGWTG				2212236	22222																	
27 ¥27 PRA		HJHJH		ge GSY5DGD3			2212237	22222																	
28 ¥28 PRA		HJHJH		geGSY5DGD3			2212238	22222																	
29 ¥29 PRA		HJHJH		geGSY5DGD1			2212239	22222																	
30 ¥30 PRA		HJHJH		geCSY5DGD3			2212240	22222																	
31 ¥31 PRA		HJHJH		geGSY5DGD3			2212241	22222																	
32 ¥32 PRA		HJHJH		ge GSY5DGDI			2212242	22222																	
33 ¥33 PRA		HJHJH		geGSY5DGD3			2212243	22222																	
34 W34 PRA		HJHJH		geGSY5DGD3			2212244	22222																	
35 W35 PRA		HJHJH		geCSY5DGD3			2212245	22222																	
36 ¥36 PRA		HJHJH		geGSY5DGD3			2212246	22222																	
37 W37 PRA		HJHJH		geGSY5DGD3			2212247	22222																	
38 ¥38 PRA		HJHJH		geGSY5DGD3			2212248	22222																	
39 ¥39 PRA		HJHJH		geGSY5DGD3			2212249	22222																	
40 ¥40 PRA		HJHJH		ge GSY5DGD3			2212250	22222																	
41 ¥41 PRA		HJHJH		geGSY5DGD3			2212251	22222																	
40 1940 1004	主境庄将	0000			ec.l.	1.0	001.0080	00000	44EOD 87	0.0011															
	干部件句	0000	÷												4										

Select the license plate file in CSV format you want to import and click the Import button to add it to the group. You can click the Delete button to delete unwanted license plate information, as shown in the figure below.

											× Enable	
	Status	Edit	License Plate	Color	Car Brand	Car Type	Owner	Gender	Plate Detail			
			W5002 PRA	Blue	НЈНЈН	Volkswagen	GSY5DGDXGH	Male	License Plate	W5002 PRA		
			W5003 PRA	Blue	НЈНЈН	Volkswagen	GSY5DGDXGH	Male	Color			
			W5004 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male		Blue		
			W5005 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	Car Brand	нјнјн		
			W5006 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	Car Type	Volkswagen		
			W5007 PRA	Blue	HJHJH	Volkswagen	GSY5DGDXGH	Male	Owner	GSY5DGDXGH		
			W5008 PRA	Blue	HJHJH	Volkswagen	GSY5DGDXGH	Male				
			W5009 PRA	Blue	HJHJH	Volkswagen	GSY5DGDXGH	Male	Gender	Male		
			W5010 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	Phone	2217212		
			W5011 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	ld Code			
			W5012 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	5101			
			W5013 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male				
			W5014 PRA	Blue	HJHJH	Volkswagen	GSY5DGDXGH	Male	Occupation			
			W5015 PRA	Blue	HJHJH	Volkswagen	GSY5DGDXGH	Male	22222			
			W5016 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	Residence			
			W5017 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	51462			
			W5018 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	Remark			
	٢	e	W5019 PRA	Blue	нјнјн	Volkswagen	GSY5DGDXGH	Male	FFQFQFQ			
<		_						< 1 / 278				

Note: When more than 5000 data entries will be added, a dialog box indicating "Data entries exceed the upper limit" will appear.

3) You can click the **Import From Capture** button to import license plate information from a local directory to the database.

				Please Select Image			Enable	
Record	Start time 2022-04-11		End time 2022-04-11		 ▲ 1Day ~ ▶ 			
	2022-4-11 14:02:15	2022-4-11 14:03:37	2022-4-11 15:45:46	2022-4-11 15:45:50	2022-4-11 15:46:08			
Event			-	0	RC-HT979			
	LHGG BUE	CHI CHI	A-66666	68 59458 CHI	CHI			
Device								

You can select the date, duration, and Alarm Group, and then click the **Search** button to retrieve all the license plates saved by the device within this time range.

All: Used to select all license plate information.

	Status	Edit	License Plate	Color	Car Brand	Car Type	Owner	Gender	Plate Detail			
			LH66BUE	Blue				Male	License Plate	CHT979RCHT979		
		0_	LH66BUE A66666	Blue				Male	Color	Green	-	
			0306	Blue				Male	Car Brand			
			CHT979RCHT979	Green				Male	Car Type			
									Owner			
									Gender	Male		
									Phone			
									ld Code			
									Occupation			
									Residence			
									Remark			
<												

You can click a data entry to edit the corresponding license plate information. Then, you can click

the Save button to save changes. Upon completion of change, ¹ will changes to 会变成¹.

- 4) **Delete:** You can check the checkbox next to the license plate information and then click this button to delete the information.
- 5) **Move to...**: You can check the checkbox next to the license plate information and then click this button to move the information to other groups.
- 6) You can click the **Export** button to export the information of the entire group and then save it.

- 1. **Enable:** Used to turn on or off the license plate recognition function for data comparison between groups.
- 2. Add Group: Allows you to add a new database group. Up to 16 database groups can be added.

8.7.3. Alarm Setup

Alarm response to AI functions of the camera can be divided into three categories in the implementation dimension:

Category I includes FD, AD, PD&VD, PID, LCD, SOD, CC, CD, QD, LPD, and RSD. Alarm response will be generated directly if alarm conditions are met as determined by the camera. Category II includes FR and LPR. The camera captures an alarm image and recognizes the face feature value or license plate information in the image, then compares it with the information in the database, and finally generates an alarm response according to the alarm group setting. Category III includes FA. Automatically search data at a specific time to generate alarm push email.

8.7.3.1. FD, AD, PD&VD, PID, LCD, SOD, CC, CD, QD, LPD, RSD

Alarm response will be generated directly if alarm conditions are met as determined by the camera.

														Live	Playback	Remote Setting	Local Settings	! 🖱
₽ Channel	FD FR	AD	LPR	PD&VD	PID	LCD	SOD	сс	FA	CD	QD	LPD	RSD					
Live Image Control Video Cover	Alarm Type		Close															
음, Record	Latch Time																	
Encode Record Capture	Post Recording																	
Event	Send Email																	
Setup Alarm Event Push	FTP Picture Upl	load																
AI Setup Recognition Alarm	FTP Video Uplo	ad	•															
Statistics	Cloud Picture		•															
) Network	Cloud Video																	
General Email FTP RTSP DDNS HTTPS IP Filter	Alarm Out																	
Device	Enable Record		•															
Disk Audio Cloud	Light		•															
System	Event push																	
General Multi-User Maintenance Information	Save	Sch	iedule	Refresh														

Alarm Type: This option is specific to AD alarms. Enable the face attribute recognition function for AD alarms according to Section 8.7.1.1. An alarm will be generated to alert whether the detected object wears a mask. There are three mode options.

Close: AD alarms are disabled.

NO Mask: An alarm is generated when the detected object is not wearing a mask.

Wear Mask: An alarm is generated when the detected object is wearing a mask.

Latch Time: Specifies the duration of an I/O alarm after the alarm is cleared.

Note: The camera must support the I/O feature and the working time is controlled by the schedule. **Post Recording:** Specifies the duration of recording after the alarm is cleared.

Note: The effective time is also controlled by the schedule.

Send Email: Specifies whether to send an email when an alarm is being triggered.

Note: The effective time is also controlled by the schedule.

FTP Picture Upload: Specifies whether to send pictures to the associated FTP server when an alarm is being triggered. If the alarm is continuously triggered, the pictures will be sent at an interval of 10s until the alarm is cleared.

Note: The effective time is also controlled by the schedule and the FTP server shall be associated in advance.

FTP Video Upload: Specifies whether to send videos to the associated FTP server when an alarm

is being triggered. If the alarm is continuously triggered, the videos will be sent at an interval of 10s until the alarm is cleared.

Note: The effective time is also controlled by the schedule and the FTP server shall be associated in advance.

Cloud Picture: Specifies whether to send pictures to the associated cloud storage server when an alarm is being triggered. If the alarm is continuously triggered, the pictures will be sent at an interval of 10s until the alarm is cleared.

Note: The effective time is also controlled by the schedule and the cloud storage server shall be associated in advance.

Cloud Video: Specifies whether to send videos to the associated cloud storage server when an alarm is being triggered. If the alarm is continuously triggered, the videos will be sent at an interval of 10s until the alarm is cleared.

Note: The effective time is also controlled by the schedule and the cloud storage server shall be associated in advance.

Alarm Out: Specifies whether to enable Latch Time.

Enable Record: Specifies whether to enable Post Recording.

- **Schedule:** Used to configure the schedule of Send Email, Alarm Out, FTP Picture Upload, FTP Video Upload, Cloud Picture, Cloud Video, Record, Light (Deterrent), and Siren (Deterrent) for the current alarm. (Note: (The white light deterrence feature is available for some models.)
- **Deterrent:** White light deterrence switch. When an alarm is triggered, an alarm response is generated according to the setting on the Remote Setting-Event-Setup-Deterrence page. Deterrence includes white light and siren which are controlled by the schedule. (Note: (The white light deterrence feature is available for some models.)

Warn Light: Warning light deterrence switch. When an alarm is triggered, the alarm is reported in accordance with the warning light configuration on the Deterrence screen (GUI path: Remote Setting > Event > Setup > Deterrence). (Note: Only some models support warning light.) Siren: Siren deterrence switch. When an alarm is triggered, the alarm is reported in accordance with the siren configuration on the Siren screen (GUI path: Remote Setting > Event > Setup > Siren). (Note: Only some models support siren deterrence.)

Event push: If this option is set to ON, this type of information will be pushed to the client when an alarm is triggered.

8.7.3.2. FR

Face recognition. The camera captures a face image and retrieve matching face data from the database to obtain the group the object is in. Then, the camera generates an alarm by calling out the alarm setting in this group. Changes to parameters take effect after the system reloads data for a short period of time.

1					Live	Playback	Remote Setting	Local Settings	0
₽ Channel									
Live Image Control				Group 1					
Video Cover		Latch Time	10s						
₽ Record									
Encode Record Capture		Alarm Out							
🗈 Event		Face Capture							
Setup Alarm									
		Send Email	•						
(2) AI		FTP Picture Upload							
Setup Recognition Alarm Statistics		Cloud Picture	•						
) Network									
General Email FTP					Save	Cancel			
RTSP DDNS HTTPS IP Filter									
Device									
Disk Audio Cloud									
 System 									
General Multi-User Maintenance Information									

Group Name: Here you can edit, modify, and view the current group name. A group name will be pushed together with an alarm in the live view.

Enable: Specifies whether to enable alarm response settings.

Policy: Alarm policy. The first three groups cannot be edited and other groups can be customized as Allow or Deny.

Similarity: An alarm is triggered when the similarity exceeds the threshold during face matching. **Alarm:** Specifies whether to enable group alarm settings.

Alarm Schedule: Specifies the effective time of the Send Email, Alarm Out, FTP Picture Upload, and Cloud Picture settings.

Latch Time: Specifies the duration of an I/O alarm after the camera captures the image and successfully retrieves the matched image in the database.

Note: The camera must support the I/O feature and the working time is controlled by the schedule. **Alarm Out Latch Time:** Specifies whether to enable settings.

Save Picture: Specifies whether to save face images to the memory card.

This setting is not controlled by the Enable status.

Save the Background: Specifies whether to save face images to the memory card and at the same time save background images.

This setting is not controlled by the Enable status.

Send Email: Specifies whether to send an email when faces in the group are recognized and matched.

Note: The effective time is also controlled by the schedule.

FTP Picture Upload: Specifies whether to send pictures to the associated FTP server when faces in the group are recognized and matched.

Note: The effective time is also controlled by the schedule and the FTP server shall be associated in advance.

Cloud Picture: Specifies whether to send pictures to the associated cloud storage server when faces in the group are recognized and matched.

Note: The effective time is also controlled by the schedule and the cloud storage server shall be associated in advance.

8.7.3.3. FA (Face Attendance)

The face attendance (FA) function is used to retrieve face matching status in different groups (excluding stranger group) saved in the memory card in a specified period of time, and generate attendance files according to capture records, and send these files to the associated email address.

													Live	Playback	Remote Setting	Local Settings	! 🖱
🖵 Channel	FD FR	AD	PD&VD	PID	LCD	SOD	сс	FA CD	QD								
Live Image Control Video Cover ROI	Enable																
🛱 Record	Send Email																
Encode Record	ON DUTY																
Event Setup Alarm	OFF DUTY																
AI	Mode		day														
Setup Recognition Alarm Statistics	working days		🗆 All 🗹 Mon. 🛛	Tues.	Wed.	Z Thur.	🛛 Fri. 🗌	Sat. 🗌 Su	n.								
 Retwork General Email FTP RTSP DDNS HTTPS IP Filter 	group Save			3 🖬	4 🖬 5	5 🖬 6 🜌	7 🖬 8	9 🛛 1	0 🜌 11	2 12 2 13	3 🜌 14 📱	15 🗾 16					
Device Disk Audio Setting Cloud																	
System																	
General Multi-User Maintenance Information																	

Enable: Used to turn on or off the automatic face attendance file generation function.

Send Email: Specifies the time to send face attendance status. The program will make retrieval at a certain interval. When the retrieval time is greater than the set time, an attendance record file is automatically generated and an email is sent.

Note: No email will be sent if no attendance record is available.

ON DUTY: Specifies the on-duty reference time to generate an attendance file.

OFF DUTY: Specifies the off-duty reference time to generate an attendance file.

Mode: Specifies the time to generate and send an attendance file. There are three mode options. Day: Allows you to send the attendance record file of the day before.

Week: For example, if it is set to Wednesday, the attendance information from last Wednesday to this Tuesday will be sent on Wednesday.

Month: For example, if it is set to the 15th day, the attendance information from the 15th day of the last month to the 14th day of this month will be sent on the 15th day of each month.

Working days: Specifies the on-duty reference working days to generate an attendance file. **Group:** Specifies the group subject to attendance check when an attendance file is generated.

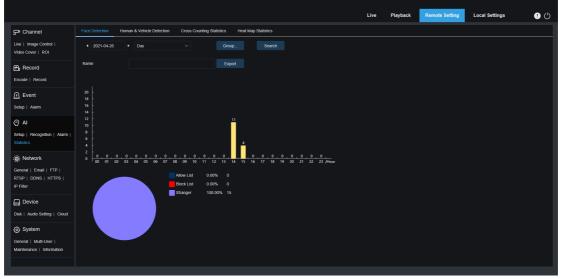
Note: This function is unavailable for the stranger group and grayed out for group 3 by default.

8.7.4. Statistics

AI-enabled statistical analysis function.

8.7.4.1. Face Detection

Face image statistical analysis function. This function allows you to retrieve face data statistics stored in the memory card according to search settings. The screen is shown in the figure below.



Time: Specifies the reference time for the Search Mode.

Search Mode: You can specify Day, Week, Month, Quarter, and Year as time range for data retrieval.

Group: Specifies the group subject to retrieval when statistical data is being retrieved.

Search: Allows you to re-initiate data retrieval according to the current search settings.

Export: You need to give a name to an exported file. Export current search results to an Excel file.

Display Area: Displays search results in a graph below.

8.7.4.2. Human & Vehicle Detection

Human and vehicle statistics, including PD&VD, PID, and LCD alarms. The screen is shown in the figure below.

	Live	Playback	Remote Setting	Local Settings	• 🕛
Channel Face Detection Human & Vehicle Detection Cross Counting Statistics Heat Map Statistics					
Channel Live (2021-04-26) Day Channel Intelligent Search Image Control PTZ					
Video Cover Name Export					
Deterrerce intelligent B. Record 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
Encode Record Capture 60 50 50					
Alarm 40 Motion 10 PiR 30					
Intelligent PTZ_Inkage 20 -					
Q Al Q 0					
Setup Recognition Alarm Statistics					
l (a) Network					
General DDNS Email FTP HTTPS IP Filter					
Dex cloud					

Time: Specifies the reference time for the Search Mode.

Search Mode: You can specify Day, Week, Month, Quarter, and Year as time range for data retrieval.

Intelligent: Allows you to perform search according to tag type of captured images, including PID[Human], PID[Vehicle], LCD[Human], LCD[Vehicle], Human, and Vehicle.

Search: Allows you to re-initiate data retrieval according to the current search settings.

Export: You need to give a name to an exported file. Export current search results to an Excel file.

Display Area: Displays search results in a graph.

8.7.4.3. Cross Counting Statistics

Cross counting (CC) statistics. The screen is shown in the figure below.

						Live	Playback	Remote Setting	Local Settings	•
P' Channel	Face Detection	Human & Vehicle Detection	Cross Counting Statis	ics He	at Map Statistics					
Live Image Control Video Cover ROI	Report Type	Daily report								,
음, Record	Detection Type	Motion								
Encode Record	Cross Type	Cross In								
Event	Name									
Setup Alarm	System time	2021-04-30		Search						
AI	Column Chart	Line Chart								
Setup Recognition Alarm Statistics			Statistics time (hours)					Cross In		
			00:00-00:59					0		
) Network			01:00-01:59							
			02:00-02:59							
General Email FTP RTSP DDNS HTTPS			03:00-03:59							
IP Filter			04:00-04:59							
ir i lilei			05:00-05:59							
🖨 Device			06:00-06:59							
			07:00-07:59							
Disk Audio Setting			08:00-08:59							
Cloud			09:00-09:59							
System			10:00-10:59							
			11:00-11:59							

Report Type: The options include Daily report, Weekly report, Monthly report, and Annual report.

Detection Type: Used to set your desired alarm model. For example, you cannot retrieve motion-triggered data if alarm models other than motion model are selected. There are three model options including Motion, Person, and Vehicle, corresponding to their function settings.

Cross Type: Allows you to search for data according to cross counting (CC) statistics. There are two mode options, including Cross In and Cross Out.

Export: You need to give a name to an exported file. Export current search results to an Excel file.

System time: Specifies the reference time for the selected report type.

Mode: Specifies whether to display graphs in the icon display area in a column or line chart.

Display Area: Displays search results in a graph.

Search: Used to search for data according to current settings.

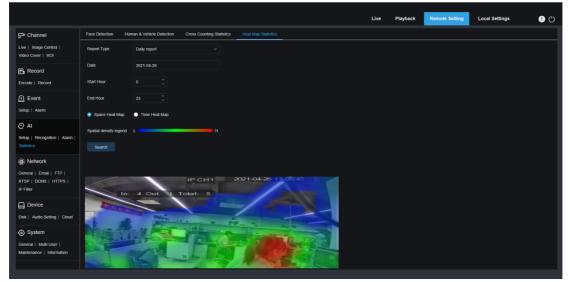
8.7.4.4. Heat Map Statistics

The heat map can intuitively present people distribution in temporal or spatial dimension.

- Space heat map: People activity degree in different areas in the view. Red indicates the
 densest area, meaning the highest activity degree, and blue indicates the lowest dense area.
- Time heat map: People activity degree in different times in the view. The Y-axis value is the index calculated based on the number of people and the duration of stay. The higher the value is, the higher the activity degree will be. It does not represent the number of people.

The smart camera must be equipped with a memory card with free space in which

heat map information will be stored. The screen is shown in the figure below.



Report Type: The options include Daily report, Weekly report, Monthly report, and Annual report.

Date: Specifies the reference date for data search.

Start Hour: This option is available only for Daily report and used to set the hour to start searching.

End Hour: This option is available only for Daily report and used to set the hour to end searching.

Mode: Specifies the data display mode. There are two mode options including graph and table.

Display Area: Displays the change frequency of monitored areas as a graph, and displays the change frequency of monitored areas in different time periods as a table.

Search: Used to search for data according to current settings.

8.8. Network Settings

This menu allows you to configure network parameters, such as, PPPoE, DHCP, and SNMP, of which DHCP is the most common. In most cases, the network type is DHCP unless the static IP address is set manually. If you need an authenticated username and password to connect to the network, select PPPoE.

8.8.1. Basic Settings

				Live	Playback	Remote Setting	Local Settings	• ୯
🖵 Channel	General PPPoE	SNMP Port Configuration						
Live Image Control	IP Address	172.020.058.039	Test					
Video Cover ROI	Subnet Mask							
Encode Record Capture	Gateway							
Event	DHCP IPv6	•						
Setup Alarm	IPv6 address	fe80::223:63ff.fe0a:901b						
@ AI	IPv6 gateway	fe80::223.63ff.fe0a:901b/64						
Setup Recognition Alarm Statistics	DNS 1							
Network	DNS 2							
General Email FTP RTSP DDNS HTTPS	IPv6 DNS 1	2001:4860:4860::8888						
IP Filter	IPv6 DNS 2	2001.4860.48608844						
🖨 Device								
Disk Audio Cloud	Main stream							
System	Multicast Address	239.255.255.255	(224.0.0.0~239.255.255.255)					
General Mutti-User Maintenance Information	Video Encryption Transi							
	Save Re	efresh						

To connect to a router that allows DHCP, check the DHCP box. The router will automatically assign all network parameters to the device. You can also choose to manually set the following parameters 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: A subnet mask is a 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.

Muticast Address: Specifies 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 the icon:

User Manual

IP Address	172.020.058.037	⊗	Test
	The address is used		
Subnet Mask	255.255.255.000	⊗	

8.8.1.2. PPPoE

					Live	Playback	Remote Setting	Local Settings	• 🙂
₽ Channel	General PPPoE	SNMP	Port Configuration						
Live Image Control Video Cover ROI	Enable PPPOE								
음 Record	Username								
Encode Record	Password								
Event	IP Address								
Setup Alarm									
@ AI	Save Re	fresh							
Setup Recognition Alarm Statistics									
Network									
General Email FTP RTSP DDNS HTTPS IP Filter									
Device									
Disk Audio Setting Cloud									
System									
General Multi-User Maintenance Information									

This is an advanced protocol that allows the IPC to connect to the network more easily via DSL modems.

Turn on the "Enable PPPoE" box and then enter the username and password of PPPoE. Click the "Apply" to save data. The system will restart to take PPPoE settings into effect.

8.8.1.3. SNMP

Simple Network Management Protocol (SNMP) is a standard application-layer protocol that is designed to manage nodes such as servers, workstations, routers, switches, and HUBS over IP networks.

						Live	Playback	Remote Setting	Local Settings	• 🕛
🖵 Channel	General PPPoE	SNMP	Port Configuration							
Live Image Control Video Cover ROI	Enable	•								
멾 Record	SNMP Version									
Encode Record	SNMP Port			(1 ~ 65535)						
Event	Read Community									
Setup Alarm	Write Community									
Al Setup Recognition Alarm	Trap IP Address									
Statistics	Trap Port			(1 ~ 65535)						
Network General Email FTP RTSP DDNS HTTPS IP Filter	Save Re	fresh								
Device										
Disk Audio Setting Cloud										
System										
General Multi-User Maintenance Information										

Enable: Used to turn on or off SNMP.

SNMP Version: Specifies the version of the SNMP server. The options include V1, V2 and V1, V2, and V3.

SNMP Port: Specifies the port number of the SNMP server.

Read Community: Specifies the Read Community value of the SNMP server.

Write Community: Specifies the Write Community value of the SNMP server.

Trap IP Address: Specifies the Trap IP address of the SNMP server.

Trap Port: Specifies the Trap port number of the SNMP server.

8.8.1.4. Port Settings

🖵 Channel	General PPPoE	SNMP Port Configu	ration						
Live Image Control	Server	Internal		nal Port	Protocol	UPNP Status	Maping	Strategy	UPNP
Video Cover ROI	HTTP Port					Inactive			
🖴 Record	Client Port	9000				Inactive			
Encode Record	HTTPS Port	443				Inactive			
0.5	RTSP Port	554				Inactive			
Event									
AI Setup Recognition Alarm Statistics	Muticast Port P2P Switch Saive Ri	10000	<u></u> (1024-65535)						
Al Setup Recognition Alarm Statistics Network General Email FTP RTSP DDNS HTTPS	P2P Switch	—	<u></u> (1124-66539)						
Al Al Setup Alarm Al Setup Recognition Alarm Statistics Statistics Terr Transport Prater Device	P2P Switch	—	<u></u> (1024-66535)						
Al Setup Recognition Alarm Statistics Network Conecut Ensail FTP RTSP DDNS HTTPS P Fater D Device	P2P Switch	—	<u></u> (1124-66539)						
Al Statistics Network General Enail FTP RTSP DONS HTTPS P Fater	P2P Switch	—	<u></u> (1124-66535)						

Web Port: This is the port you use to remotely log in to the IPC (for example, using a web client). If port 80 is already used by other applications, change the port number.

Client Port: This is the port through which the IPC will send messages (for example, using a mobile application). If default port 9000 is already used by other applications, change the port number.

RTSP Port: The default port number is 554. If it is already used by other applications, change the port number.

HTTPS: It is an HTTP channel aiming for security. On the basis of HTTP, transmission

encryption and identity authentication are used to ensure the security of transmission. **UPNP**: To remotely log in to the device from a web Client, perform port forwarding on the router. Enable this option if your router supports UPnP. In this case, you do not have to manually configure port forwarding on the router. If your router does not support UPnP, make sure that port forwarding is done manually on your router.

Multicast prot: Specifies a multicast port.

P2P Switch: P2P is ineffective if this switch is turned off.

8.8.2. Email Setting

This menu allows you to configure email settings. Complete these settings if you want to receive system notifications via email when an alarm is triggered and your hard drive is full.

							ive	Playback	Remote Setting	Local Settings	! 🖱
🖵 Channel	Email Configuration										
Live Image Control Video Cover ROI	Email										
음, Record	Encryption										
Encode Record	SMTP Port			Ĵ (1 ~ 6553s	5)						
Event	SMTP Server										
Setup Alarm	Username										
Al Setup Recognition Alarm	Password										
Statistics	Sender										
(iii) Network	Receiver 1										
General Email FTP RTSP DDNS HTTPS IP Filter	Receiver 2										
	Receiver 3										
Device	Interval										
System		Test	ish								
General Multi-User Maintenance Information											

Email: Used to turn on or off email.

Encryption: Enable this option if your email server requires SSL or TLS authentication. Set it to Automatic if you are not sure.

SMTP Port: Specifies the SMTP port number of the email server.

SMTP Server: Specifies the SMTP server address.

UserName: Specifies your email address.

Password: Specifies your email password.

Receiver 1~3: Specifies the email address from which you want to receive event notifications from the IPC.

Interval: Specifies the interval between notification emails on the IPC.

To ensure that all settings are correct, click "**Test Email**". The system will send an email to your inbox. If you receive a test email, the configuration parameters are correct.

8.8.3. FTP Server Settings

This menu enables you to enable the FTP server, through which you can view pictures and videos uploaded from the IPC to your FTP server.

				Live	Playback	Remote Setting	Local Settings	•
₽ Channel	FTP							
Live Image Control Video Cover ROI	FTP Enable	-						
Brecord	Server		(1 ~ 65535)					
Event Setup Alarm	Username Password							
Al Setup Recognition Alarm Statistics	Transfer Images Transfer videos							
Network General Email FTP RTSP DDNS HTTPS IP Filter	Save	eftesh						
Device								
System General Multi-User Maintenance Information								

FTP Enable: You can click this icon to enable the FTP feature.

Server: Specifies the IP address or domain name of your FTP server.

Port: Specifies the port number of your FTP server.

Username/ Password: Specifies the username and password of your FTP server.

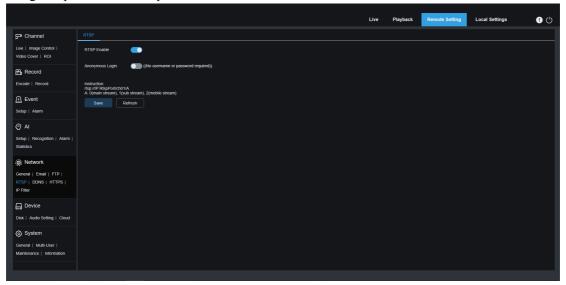
Transfer images: When this option is turned on, alarm images will be uploaded to the FTP server. Otherwise, only alarm texts will be uploaded.

Transfer Videos: When this option is turned on, alarm videos will be uploaded to the FTP server.

8.8.4. RTSP Settings

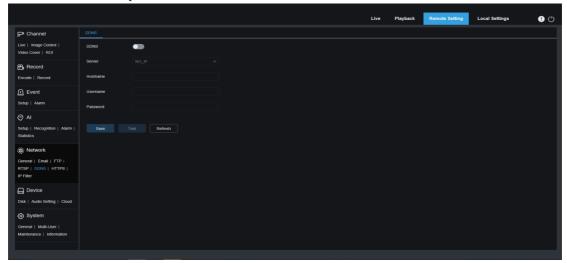
Real Time Streaming Protocol (RTSP), RFC2326, is an application layer protocol in the TCP/IP protocol architecture. This protocol defines how one-to-many applications can efficiently transfer multimedia data over IP networks. You can view real-time images using a video player. **RTSP Enable:** Used to turn on or off the RTSP. This protocol is available only when it is turned on.

Anonymous Login: Allows you to log in as a anonymous user. Authentication is not required for using this protocol if this option is turned on.



8.8.5. Dynamic Domain Name Settings

This menu allows you to configure DDNS settings. DDNS provides a static address to simplify remote connection to the IPC. To use DDNS, you first need to sign up an account on the webpage of the DDNS service provider.



DDNS: Used to turn on or off DDNS.

Server: Specifies your preferred DDNS server (DDNS_3322, DYNDNS, NO_IP, or even CHANGEIP, DNSEXIT).

Hostname: Specifies the domain name you created on the webpage of the DDNS service provider. This is the address you type in the URL bar when you want to connect remotely to the IPC from your PC.

User/Password: Specifies the username and password obtained when you create an account on

```
the webpage of the DDNS service provider.
```

Enter all parameters and then click "**Test DDNS**" to test DDNS settings. If the test result is "Unreachable or DNS error", check whether the network works normally or the DDNS information is correct.

8.8.6. HTTPS Settings

This menu allows you to set HTTPS. You can connect your device over HTTPS.

				Live	Playback	Remote Setting	Local Settings	•
🖵 Channel	HTTPS							
Live Image Control Video Cover ROI	Certificate Type	Custom						
B Record	Certificate not installe	d						
Encode Record	Certificate							
Event	Key							
Setup Alarm		Install						
@ AI								
Setup Recognition Alarm Statistics		Refresh						
(iii) Network								
General Email FTP RTSP DDNS HTTPS IP Filter								
Device								
Disk Audio Setting Cloud								
System								
General Multi-User Maintenance Information								
Maintenance Information								

Certificate Type: There are two options, including default and custom. The Custom option allows you 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.

8.8.7. IP Filter

				Live Playbac	k Remote Setting	Local Settings	! ()
🖵 Channel	IP Filter						
Live Image Control Video Cover ROI	Enable 💽						
멾, Record	Type 💿 Enable Allow List 🗨 E	nable Block List					
Encode Record	Restricted Type Allow List						
Event	Single Add Network Segment Add						
Setup Alarm	No.	Start Address	End Address		CON.		
AI							
Setup Recognition Alarm Statistics	Save Delete Refresh						
(e) Network							
General Email FTP							
RTSP DDNS HTTPS IP Filter							
E Device							
Disk Audio Setting Cloud							
System							
General Mutti-User Maintenance Information							

The IP filter can be used to set the allow list and block list of devices to be connected.

Enable: Used to turn on or off the IP filter. You can choose to enable the block list or allow list if this option is turned on.

Restricted Type: Used to select the list to be set (block list or allow list).

Start Address: Specifies the start address.

End Address: Specifies the end address.

8.9. Device Management

8.9.1. Disk Management

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

								Live	Playback	Remote Setting	Local Settings	•
₽ Channel	Disk											
Live Image Control Video Cover ROI		NO. 1SD		Serial N	D.	Edit	Type Read/Write	Status OK	Free / 1 19G	Total (G) /29G	Free / Total (T) 14Hour/22Hour	
Encode Record Capture	Overwrite	2N A	uto	NASI			Read/Write		49G	/50G	37Hour/37Hour	
Event Setup Alarm					Refresh							
Setup Recognition Alarm Statistics												
(in Network General Email FTP RTSP DDNS HTTPS IP Filter												
Device												
System General Multi-User Maintenance Information												

- 1. **Format Hard Disk**: Select the TF card to be formatted, and then click Format TF Card. To start formatting, enter your username and password and then click OK.
- 2. **Overwrite**: Use this option to overwrite old records in the TF card when the TF card is full. If **Auto** is selected, the oldest data will be automatically overwritten when the TF 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 TF card periodically to ensure that the TF card is not full.

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

								•
		Serial N		Add NetHDD		×		
		SD0	Mounting Type	NFS				
			Server IP	000.000.000.000				
re				000.000.000				
			Directory Name					
			Disk Size		(0 - 65535)GB			
rm				Test Add NetHDD				

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: Used to test the connectivity of NAS.

Add NetHDD: You can click this option to add NAS.

8.9.2. Audio Management

This menu is used to set the volume of your device.

					Live	Playback	Remote Setting	Local Settings	! 🖱
🖵 Channel	Audio Setting								
Live Image Control Video Cover ROI	Enable Audio								
B Record	Output Volume								
Encode Record	Input Volume								
Event	Audio Code Type								
Setup Alarm		Refresh							
Al Setup Recognition Alarm Statistics									
Retwork General Email FTP RTSP DDNS HTTPS IP Filter									
Device									
System									
General Multi-User Maintenance Information									

Enable Audio: Used to turn on or off audio.

Output Volume: Specifies the volume of output audio.

Input Volume: Specifies the volume of input audio.

Audio Code Type: Specifies the audio decoding type. There are two options, including G711A and G711U.

8.9.3. Cloud Storage Settings

Your device can upload snapshots or videos to the cloud service through Dropbox, a free service that enables you to easily store and share pictures.

					Live	Playback	Remote Setting	Local Settings	
P Channel	Cloud								
Live Image Control Video Cover	Cloud Storage								
멾, Record	Cloud Type								
Encode Record Capture	Cloud Overwrite								
Event	Video Type								
Setup Alarm Event Push	Driver Name								
Al Setup Recognition Alarm Statistics		clivate Cloud Refresh							
Network General Email FTP RTSP DDNS HTTPS IP Filter									
Device									
System General Multi-User Maintenance Information									

Before starting the cloud storage service, you are advised to create a Dropbox account with your email address and password. Then, visit <u>www.dropbox.com</u>, enter your email address and password, and click Login button after agreeing to the terms and conditions.

Cloud Storage: Used to turn on or off cloud storage.

Cloud Type: There are two options, including Dropbox and Google Drive.

Cloud Overwrite: Specifies the overwrite frequency of cloud storage.

Video Type: Specifies the format of videos uploaded to the cloud service.

Driver Name: Specifies the name of the folder where the channel videos and images are **stored**. **Activate Cloud**: You can click this button to activate this function. A moment later, the page automatically redirects to the Dropbox link. You can establish the association simply by entering

correct username and password.

8.10. System Settings

Here you can change system information such as date and time and regions, and change the password and permissions.

8.10.1. General

8.10.1.1. Date and Time

					Live	Playback	Remote Setting	Local Settings	
🖵 Channel	Date and Time Day	ylight Saving Time							
Live Image Control Video Cover ROI	Time setting mode	Static Intervention NTP server synches	ronization						
B Record	Date Format	Year-Month-Day							
Encode Record	Time Zone	GMT+8:00							
Event	Time Format	24Hour							
Setup Alarm	System time	2021-04-20							
Al Setup Recognition Alarm Satistics Alarm		chronize computer time Retresh							

Time settings mode: There are two options including Static and NTP server synchronization. When Static is selected, you have to set the time manually. When NTP server synchronization is selected, the time will be synchronized to the network time.

Date Format: Specifies the date format.

Time Zone: Specifies the time zone associated with your region or city.

Time Format: Specifies your preferred time format.

System Time: You can click the box to change the date and time.

Synchronize computer time: Here you can synchronize the time to the computer time.

You cannot set the time manually if NTP server synchronization is selected.

Sever Address: Specifies the automatic time synchronization website.

			Live	Playback	Remote Setting	Local Settings	• 🙂
🖵 Channel	Date and Time Day	rlight Saving Time					
Live Image Control Video Cover ROI	Time setting mode	 Static Structure Synchronization 					
음, Record	Date Format	Year-Month-Day					
Encode Record	Time Zone	GMT+8:00					
🖻 Event	Time Format	24Hour					
Setup Alarm	System time	2021-04-20					
Al Setup Recognition Alarm Statistics	Server Address	time.windows.com					
Satatalics		Introduce computer time Rotresh					

8.10.1.2. Daylight Saving Time

The Daylight Saving Time (DST) function enables you to choose when to add daylight saving time to a specific time zone or region.

In our out	1				 0								
vectors vector Deviget Soving Time Set by week Set by date B Record Set Time March The Drd End Time Newender The Drd Sone Record End Time Sone Record Sone Sone Sone Sone Sone Sone Sone Sone									Live	Playback	Remote Setting	Local Settings	! (
Veto Cover ROI B Record Event B Vett B Vett Setting Ataming O Al Setting Carcing Ataming Carcing Carcing Ataming Carcing Carcing Ataming Carcing Carcing Ataming Carcing Carcin	🖵 Channel	Date and Time Day	rlight Saving	Time									
By Record Extend Extend Extende It me It tende It tende By Levent Time Other It tende It tende It tende Setup I Alam Save Reserved It tende Setup I Alam Save Reserved It tende Setup I Reserved Save Reserved It tende For Reserved Reserved Reserved It tende For Reserved Reserved Reserved It tende For Reserved For Reserved Reserved It tende Set Reserved Reserved Reserved It tende		Daylight Saving Time		Set by wee	 Set by date 								
Cancer Free Device Device Device	음 Record	Start Time											
Setup Atarm Image: A land back setup Accord and p Accord and	Encode Record	End Time											
O A Step fecgnition Alem Statutos Wetwork General Lowal FTP F1807 Device Dek Audo Stem Concert O System General Mak User		Time Offset											
Obs: Audio Setting Coud @ System General Multi-User	Setup Recognition Alarm Statistics Network General Email FTP RTSP DDNS HTTPS												
eneral Mult-User													

Daylight Saving Time: Turn on this option if DST is used in your time zone.

Set by week: Specifies the month, weekday, and time when daylight saving time begins and ends, for example, 2AM on the first Sunday of a month.

Set by date: Specifies the date and time when daylight saving time begins and ends.

Start Time / End Time: Specifies the start time and end time of daylight saving time.

Time Offset: Specifies the time that daylight saving time adds to your time zone. This is the difference between Universal Time Coordinated (UTC) and your local time.

8.10.2. Multi-user Management

This menu allows you to configure username, password, and permissions.

The system supports user types as follows:

ADMIN - System Administrator: A system administrator can fully configure the system and can change administrator and user passwords as well as enable/disable password protection. **USER - Normal User**: A normal user can only access the preview, search, playback and other appropriate functions. You can set multiple users with different system access permissions.

					Live Playback Remote Setting	g Local Settings	•
₽ Channel	Multi-User						
Live Image Control	NO.	Username	Level	Status	Password	Policy	
Video Cover ROI		admin	admin	Enable			
🖴 Record		user1	user1	Disable			
		user2	user2	Disable			
Encode Record		user3	user3	Disable			
Event		user4	user4	Disable			
Setup Alarm		user5	user5	Disable			
Setup Alarm		user6	user6	Disable			
Al Setup Recognition Alarm Suitatics (b) Network General Email FTP RTSP DDNS HTTPS IP Filter D	Refresh						
Device							
System General Mutt-User Maintenance Information							

					ng Local Settings
			Editing		
		Username	admin		
		Password	•••••	Ð	
		Password strength			
		Confirm	•••••		
			OK Cancel		
Disk Audio Setting Cloud					

To change an administrator or user password, click the "Edit Password" icon. The password must be at least 8 characters long and a combination of numbers, letters, and symbols. Enter the new password again for confirmation. Save the new password. You will be asked to enter the old password for authentication.

					g Local Settings Q	
			Editing	×		
음 Record		Enable				
		Username	user1			
		Oscinaine	user			
		Password				
		Password strength				
		Confirm	OK Cancel			

1. Select one of inactive users and click the "Edit Password" icon.

- 2. Turn on "**Enable**" to enable users.
- 3. Click "Username" to edit the username.
- 4. Click the field next to **Password** to enter your password.
- 5. Click the field next to **Confirm** to enter your confirm password.

Click Save. You will have to enter the administrator password for authentication.

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						00
	UUsemame	user1			rd	
	Parameter	useri				
	Live Playback					
	PTZ Control RTSP					
			Cancel			
Disk Audio Setting Cloud						

Set user permissions and check the boxes corresponding to the functions. Click **All** to check all boxes. Click **Clear** to clear all boxes.

8.10.3. System Maintenance

This menu enables you to search for and view system logs, restore factory settings, upgrade the system, export and import system parameters, and configure automatic system restart.

8.10.3.1. Log Management

The system log displays important system events, such as motion alarms and system warnings. You can easily import backup files in the system log to your computer within a set time range.

							Live	Playback	Remote Setting	Local Settings	• •
₽ Channel	Log Load Default	Upgrade	Parame	ter Management	Auto Reboot	Developer Mode					
Live Image Control Video Cover	Log Type										
B Record	Name				Export						
Encode Record Capture	Start Time	04/13/2022									
Event	End Time	04/13/2022									
Setup Alarm	No.			Time		Log Content		Log Info			
			04/13	/2022 16:38:45		Motion End		Is there a video: ha	s record		
() AI			04/13	/2022 16:38:35		Motion Start		Is there a video: ha	s record		
Setup Recognition Alarm		04/13/2022 16:37:58				Motion End		Is there a video: ha	s record		
Statistics			04/13	/2022 16:37:46		Login		Operation result: Th User Name: admin IP: 172.20.58.2	ne operation was successfu	1	
~			04/13	/2022 16:37:42		Motion Start		Is there a video: ha	s record		
General Email FTP			04/13	/2022 16:36:59		Motion End		Is there a video: ha	s record		
RTSP DDNS HTTPS			04/13	/2022 16:36:29		Motion Start		Is there a video: ha	s record		
IP Filter			04/13	/2022 16:35:44		Motion End		Is there a video: ha	s record		
Device			04/13	/2022 16:35:24		Motion Start		Is there a video: ha	s record		
E Device			04/13	/2022 16:35:09		Motion End		Is there a video: ha	s record		
Disk Audio Cloud											
System General Multi-User Maintenance Information											

Log Search and Backup:

- 1. Click the field next to **Start Time** and select the start date and time from the on-screen calendar.
- 2. Click the field next to End Time and select the end date and time from the on-screen calendar.
- 3. Select the event type you want 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 range. The type options include: system log, configuration log, warning log, account log, recording log, storage log, and network log.
- 4. Select the event type you want to search for from the drop-down list next to **Minor Type** (this menu is unavailable if ALL is selected for Log Type), or select **All** to view the entire system log for the selected time range. The type options include:
- System: System settings, restart, automatic restart, upgrade, time settings, and NTP.
- **Configuration**: IPC live control, private area settings, recording mode settings, recording plan settings, main stream settings, network settings, substream settings, email settings, color settings, motion detection settings, hard disk settings, multi-user settings, NTP settings, image control, mobile stream settings, RTSP settings, IP filter settings, restore factory settings, audio settings, video tampering alarm settings, export settings, and import settings.
- Alarm: Start of motion detection, end of motion detection, start of I/O alarm, end of I/O alarm, start of PID, end of PID, start of LCD, end of LCD, start of SOD, end of SOD, start of PD&VD, end of PD&VD, start of FD, end of FD, start of CC, end of CC, start of CD, end of CD, start of QD, end of QD, start of sound alarm, and end of sound alarm.
- Account: Log in, log out, and switch users.
- **Recording:** Search, playback, and backup.
- Storage: Formatting HDD, HDD full, and HDD error.
- **useretwork:** Network disconnected, network online, network exception, and Network Mode changed.
- 5. Click Search.
- 6. Browse system logs from the selected time range:
- 7. Use the K < / > > button in the lower right corner of the menu to switch between pages of system log events.

Enter the name of the exported file in the field next to **Name**. Click **Export** to create the backup of system logs.

8.10.3.2. Load Default

Reset the device to factory settings. You can choose to reset all the settings at a time, or the settings on a specific menu. Note: Restoring the default Settings will not delete videos and snapshots stored in the memory card.

						Live	Playback	Remote Setting	Local Settings	!) (¹)
₽ Channel	Log Load C	Default Upgrade	Parameter Management	Auto Reboot	Developer Mode					
Live Image Control Video Cover	All Channe									
B Record	Record									
Encode Record Capture	Event									
Event										
Setup Alarm	Network									
Ø AI	Device									
Setup Recognition Alarm Statistics	System									
() Network	Save	Refresh								
General Email FTP RTSP DDNS HTTPS IP Filter										
Device										
Disk Audio Cloud										
System										
General Multi-User Maintenance Information										

Select the item to restore, or **All** to select all items. Click "**Save**" to load the default settings for the selected items.

8.10.3.3. System Upgrade

This menu allows you to upgrade firmware.

	Live Playback Remote Setting Local Settings
Channel	Log Load Default Upgrade Parameter Management Auto Reboot
Live Image Control Video Cover ROI	- Onire Upgrade
Encode Record Capture	Usenane
Event	Password
Setup Alarm Event Push	FTP/HTTP url address https://softwareupgrade.attbs.cn/PC/NOF
🔿 AI	protocot //hodiname(port)path
Setup Recognition Alarm Statistics	example: ftp://152.168.1.100.233pctuggradePeckage
) Network	http://192.168.1.100.80/pc/upgradeFacklage
General Email FTP RTSP DDNS HTTPS	Save Detect Upgrade Retresh
IP Filter	
🖨 Device	Path Upgrade
Disk Audio Cloud	
System	
General Multi-User Maintenance Information	

Automatic Detection: Used to enable automatic detection. You can enable this function to automatically detect available updates.

Username: Specifies the username of your FTP server.

Password: Specifies the password of your FTP server.

FTP/HTTP url address: Specifies the over-the-air upgrade address (no username or password is required for upgrade over HTTP).

Note: The FTP address is in the format as below: ftp://{IP address of FTP server: port}/

Upgrade (the name of the folder containing the over-the-air upgrade path of the FTP server).

Save: You can click this button to save current settings.

Detect: After the upgrade file is uploaded and the upgrade path is set, you can click Detect to manually detect the over-the-air upgrade file. A message pops up when updates are available, as shown in the figure below:

Log Load Default						
— Online Upgrade						
Automatic Detection						
Usemame						
Password						
FTP/HTTP url address						
protocol://hostname[:por						
example:			Auto Upgrade			
ftp://192.168.100:23/ipc/			There is a new version	n V34.45.8.2.2_220405. Do		
http://192.168.100:80/ipc			you want to upgrade?			
Save De				Upgrade Cancel		
— Installation packag						
Path		•• Upgrade				

Upgrade: Click this button to start system upgrade. Place the firmware file (.sw) into the HDD of your PC. Click "..." next to "Path" to select the firmware file from your PC.

Click the **Upgrade** button to start system upgrade. The system upgrade will take about 2 to 3 minutes. Do not power off the device or close your IE browser while system upgrade is in progress.

8.10.3.4. Parameter Management

You can export the configured parameters to your PC or import the exported configuration file from your PC to the device.

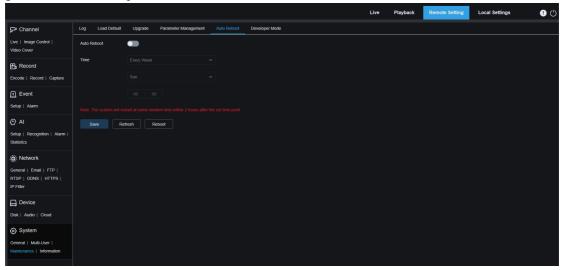
						Live	Playback	Remote Setting	Local Settings	
🖵 Channel	Log Load Default	Upgrade	Parameter Management	Auto Reboot	Developer Mode					
Live Image Control Video Cover	Import File									
🛱 Record	Export file name			Export						
Encode Record Capture										
Event										
Setup Alarm										
@ AI										
Setup Recognition Alarm Statistics										
) Network										
General Email FTP RTSP DDNS HTTPS										
IP Filter										
🔒 Device										
Disk Audio Cloud										
System										
General Multi-User										
Maintenance Information										Ĺ

Import Flie: Click the field to display the path window. Select the parameter file and then click **Import** to start importing parameters.

Export File Name: Click the field to enter the name of the file to which parameters are exported. Click **Export** to export parameters.

8.10.3.5. Auto Reboot

This menu enables the system to automatically reboot. You are advised to enable this function to guarantee the stable operation of the device.



Auto Reboot: Used to turn on or off email. **Time:** You can set IPC to reboot by day, week, or month.

8.10.3.6. Developer Mode

You can export P2P information of the IPC to your PC.

						Live	Playback	Remote Setting	Local Settings	•
₽ Channel	Log Load Default	Upgrade	Parameter Management	Auto Reboot	Developer Mode					
Live Image Control Video Cover	Export RS P2P Log									
E Record										
Encode Record Capture										
Event										
Setup Alarm										
AI										
Setup Recognition Alarm Statistics										
) Network										
General Email FTP RTSP DDNS HTTPS IP Filter										
Device										
Disk Audio Cloud										
System										
General Multi-User Maintenance Information										

Export RS P2P Log: Click the field to enter the name of the file to which parameters are exported. Click **Export** to export parameters.

8.10.4. System Information

This menu allows you to view system information, such as device ID, device model, MAC address, firmware version, and so on.

				Live	Playback	Remote Setting	Local Settings	! ()
🖵 Channel	Information							
Live Image Control Video Cover ROI	Device ID Device Name	AA2011454821 CH240M4ND-DF-WA2812PW						
Encode Record	Device Type Hardware Version	IP CAMERA RS-CM-354A						
Event	Software Version	V21.45.7.1_210412						
@ AI	Web Version MAC Address	V1.0.0.110_210324 00-23-63-97-66-9F						
Setup Recognition Alarm Statistics	Refresh							
 (iii) Network General Email FTP RTSP DDNS HTTPS IP Filter 								
Device Disk Audio Setting Cloud								
System General Multi-User Maintenance Information								

9. Local Settings

This menu allows you to set the path for storing videos and downloaded and captured image files, as well as the format of videos and captured images.

Note: You can skip this page when you access the web client from Safari 12 and later, Chrome 57 and later, Firefox 52 and later, and Edge 41.

		Live	Playback	Remote Setting	Local Settings	• 🕛
Path configuration						
Record Path	D:\Device\Record					
Download Path	D:\Device\Download					
Snapshot Path	D:\Device\Capture					
File type	MP4 V					
Interval	10 V Minute					
Capture Type	JPG V					
	Save					





T. 1 (866) 791-7020 | F. 1 (866) 936-0553

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