

IP Equipment WEB

Web Operation Guide

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Purpose

This document describes how to use the web management system, including network access, network configuration, and troubleshooting.

Intended Audience

This document is intended for:

- Technical support engineers
- Maintenance engineers
- IP camera operators

Symbol Conventions

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

Symbol	Description
	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results. NOTICE is used to address practices not related to personal injury.
	Calls attention to important information, best practices and tips.
	NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration.

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1 Quick Start

1.1 Login and Logout

\triangle caution

You must use Internet Explorer 8, and more to access the web management system; otherwise, some functions may be unavailable.

Login

Step 1 Open Internet Explorer, enter the IP address of the IP camera (default value: 192.168.0.120) in the address box, and press Enter.

The login page is displayed, as shown in Figure 1-1.

Figure 1-1 Login page

	P CAM	ERA
	AL.1111	English 🔻
User Name	admin	
Password	••••	

Step 2 Enter the user name, and password.

- The default user name is **admin**. The default password is 1234567u.
- Please change the password to ensure system security at the first login.
- You can change the system display language on the login page.

Step 3 Click Login to enter the interface.

The main page is displayed.

----End

Logout

To log out of the system, click in the upper right corner of the main page. The login page is displayed after you log out of the system.

1.2 Change the Password

Description

The change default password page will be displayed as shown in Figure 1-2, when you login the system for the first time.

New Password	i			0
Confirm				
	Cancel	0	K	

Figure 1-2 Change the default password page

Or click to change the password for login the system, as show in Figure 1-3.

Figure 1-3 Modify password dialog box

Old Password		
New Password	10. 10. 10.	
Confirm		
assword Advice:	oth of eight characters	
Advice the password len	gui el elgin ellaradoloro.	
Advice the password incl owercase letters and spec	ludes numbers, capital letters	

Procedure

Step 2 Input the old password, new password, and confirmation password.

Step 3 Click OK.

If the message "Change own password success" is displayed, the password is successfully changed. If the password fails to be changed, the cause is displayed. (For example, the new password length couldn't be less than eight.)

Step 4 Click OK.

The login page is displayed.

1.3 Main Page Layout

On the main page, you can view real-time videos, receive alarm and fault notifications, set parameters, change the password, and log out of the system. Figure 1-4 shows the main page layout. Table 1-1 describes the elements on the main page.



Figure 1-4 Main page layout

Table 1-1	Elements	on the main	page
-----------	----------	-------------	------

No.	Element	Description
1	Real-time video area	Real-time videos are played in this area. You can also set sensor parameters, right click on the real-time video display.
2	Playback	You can query the playback videos in this area. NOTE Only when the SD card or NAS has videos that you can query the playback videos.
3	Device configuration	You can choose a menu to set device parameters, including the device information, audio and video streams, alarm setting, and privacy mask function.
4	Change password	You can click <i>b</i> to change the password.

No.	Element	Description					
5	Sign Out	You can click b to return to the login page.					
6	Stream	Choose stream mode from drop-list.					
7	PTZ	Only used for dome cameras, set parameters.					
8	3D	Only used for dome cameras, locate the exact location on the live video screen.					
9	Pause/play	Pause the live video or play the video.					
10	Live/smooth	Switch the resolution of live video automatically.					
11	Audio	Open/close the audio.					
12	Microphone	Open/close the microphone.					
13	Sensor	Set the sensor parameters.					
14	Snapshot	Click the icon to snapshot the video and save the images to the specified location.					
15	Local record	Record the video and save the file to the specified location.					
16	Mode	Only used for fisheye camera, click the icon to choose mode to play video.					
17	Intelligent analysis	Open/close the intelligent analysis. Open the intelligent, choose the stream to stream 2, click to open the intelligent analysis, it will show target information and video stream draw line after you have turned on the function in IVS settings.					

٠

• When the device accepts an alarm signal, the alarm icon will display within 10s in the web management system.

The alarm icon	is displayed. You can click	to view the alarm i	nformation.	
When the device enco	unters an exception, the fault icon	is displayed.	You can click	to view the

1.4 AI Interface

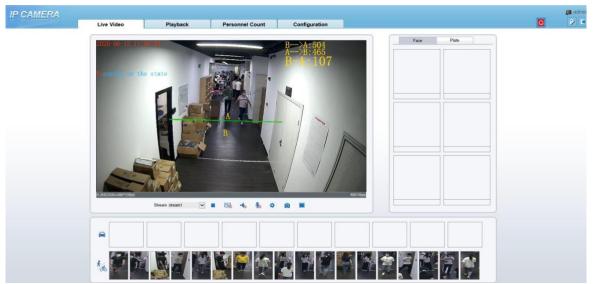
information.

The AI cameras can snapshot some specific goals, such as human face, license plate, ride bicycle,

vehicle, and so on. User can click **user**, at live video interface, it will show the interface of AI, as shown in Figure 1-5.

Stream stream1	~	PTZ	3D		1	\$	0	13	2	
- W -										122-121-2

Figure 1-5 AI multi object interface



The face frame will show the snapshot of human face.

The plate frame will show the snapshot of license plate.

The AI function only can be used some cameras, if the camera has no this function, please ignore this.

1.5 Playback

Click "Playback" at IE web interface, if user install SD card, and there are video in SD card, click "Play" and the playback video will show as in Figure 1-6.

ive Video	Playback Configuration
	2018-12-29 14:54:27 Sat
	Image: State Time 14:11 09/08/2020 Image: State Time 14:11 09/08/2020 Image: State Time 14:11 10/08/2020 Image: State Time

Figure 1-6 Playback interface

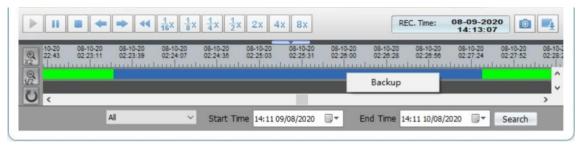
: play, the video will have speaker icon, click it to play sound or close.
: pause.
: stop.
: frame back / frame play.
$\frac{1}{16} \times \frac{1}{8} \times \frac{1}{4} \times \frac{1}{2} \times 2 \times 4 \times 8 \times$: fast forward, user can choose the different speed to play.
: snapshot, click the icon to snapshot current interface

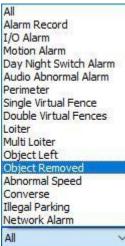
: backup, use can view the status of backup, as shown in Figure 1-7.

 All Tasks ↓ Being Backup ✓ Copy Finished 	- Configu	re Path File Size	128 (10-4096)M Director	y Type Device	+ Save
V copy milancu		File Type				
	Status	Percent	Device IP	Device ID	Camera ID	Pati
			100 AM 100			

Figure 1-7 Record backup

User drag the mouse to choose backup time bar, right-click to backup, as shown in below figure.





choose the type of alarm, set the start time and end time to search alarm record

quickly.

1.6 Personnel Count

At personnel count interface, you can view the personnel count throughout setting query condition (choose the detail time at date's pop up window).

There are three modes to show the data, such as line chart, histogram, and list, as shown in Figure 1-8

	Live Video	Playback	Personnel Count	Configuration			6
Query Condition	Line Chart III Histogra	m III List					
tical Type Year Month D			ln 📒	Out			
2020/06/15							
	210						
Query							
Download	180-						
	150 -						
					_		
	120 -						
	90 -				_		
	60-						
	30 -						
	0 1 2	3 4 5 6	7 8 9 10 11 12	13 14 15 16 17	18 19 20 21 2	2 23 24	

Figure 1-8 Personnel count interface

Click "Download" to download the query result.

----End

2 Browse Videos

2.1 Browse Real-Time Videos

You can browse real-time videos in the web management system.

Preparation

To ensure that real-time videos can be played properly, you must perform the following operations when you login to the web management system for the first time:

Step 1 Open Internet Explorer. Choose Tools > Internet Options > Security > Trusted sites > Sites.

In the displayed dialog box, click Add, as shown in Figure 2-1.

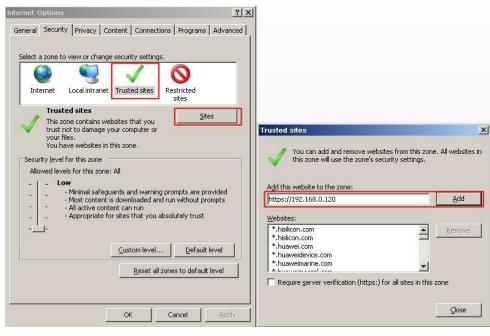


Figure 2-1 Adding a trusted site

Step 2 In Internet Explorer, choose Tools > Internet Options > Security > Customer level, and set Download unsigned ActiveX controls and Initialize and script ActiveX controls not marked as safe for scripting under ActiveX controls and plug-ins to Enable, as shown in Figure 2-2.

elect a zone to view or change security settings.	[[Settings	
Internet Local intranet Trusted sites Restri	d ad	ActiveX controls and plug-ins Allow previously unused ActiveX controls to	o run without prom
site		O Disable	
Internet		O Enable	
This zone is for Internet websites,	Sites	🜒 Allow Scriptlets	
except those listed in trusted and		O Disable	
restricted zones.		 Enable 	
		O Prompt	
Security level for this zone		Automatic prompting for ActiveX controls	
		O Disable	
Custom		Enable	
Custom settings.		Binary and script behaviors	
- To change the settings, click Custom le	vel.	O Administrator approved	
- To use the recommended settings, click	Default level.	O Disable	
		 Enable Display video and animation on a webpage 	
		Lisplay video and animation on a Menhade	That does not use
Custom level	Default level	*Takes effect after you restart Internet Explorer	
		Reset custom settings	
Reset all zones to	o default level		Reset
		Reset to: Medium-high (default)	Keset

Figure 2-2 Configure ActiveX controls and plug-ins

Step 3 Download and install the player control as prompted.

If the repair tips displayed when installing the control, please ignore the prompt, and continue the installation, the login page is displayed when the control is loaded.

----End

Select the play mode

You can select VLC player to play the video, or select the plugin to play the video as shown in Figure 2-1 when you login to the web management system for the first time.

Figure 2-3 Download the plugin page

5	Selecting a play mode, please
	- Continue to use the old plugin.
	 Use the VLC to play
	- Ose the vice to play

If plugin is selected, please install player control at first.

Step 4 Click "download and install the new plugin", download the plugin as shown in Figure 2-4.

Figure 2-4 Run the plugin

NetworkSurveilla This type of fi	C C C C C C C C C C C C C C C C C C C	10 C		68. 0.120
	Run	Save	•	Cancel

Step 5 Click "Run", select destination location as shown in Figure 2-5.

Figure 2-5	Select	destination	location
I Igui c 2-5	Delect	destination	location

etup - iWebLive	· · · · ·
elect Destination Location	
Where should iWebLive be installed?	
Setup will install iWebLive into the following fo	lder.
To continue, click Next. If you would like to select a diff	ferent folder, click Browse.
C:\Program Files (x86)\WebLive	Browse
At least 3. <mark>4</mark> MB of free disk space is required.	

Step 6 Click "Next", ready to install the plugin, as shown in Figure 2-6.

Figure 2-6 Ready to install

ady to Install			
Setup is now ready to begin instal	lling iWebLive on your com	puter.	Ć
Click Install to continue with the in change any settings.	nstallation, or click Back if y	vou want to review	or or
Destination location: C:\Program Files (x86)\iWebl	Live		^
			~
			200

Step 7 Click "Install" to install the plugin, as shown in Figure 2-7.

Figure 2-7 Installing

	×
Ca	ancel

Step 8 Click "Finish", complete to install the plugin, as shown in Figure 2-8.



Figure 2-8 Complete to install the plugin

Step 9 Reopen the browser after installing.

- If the repair tips displayed when installing the control, please ignore the prompt, and continue the installation.
- During installing the plugin, the browser should be closed.

----End

Description

To browse real-time videos, click Live Video. The Live Video page is displayed, as shown in Figure 2-9.

Figure 2-9 Live Video page



On the Live Video page, you can perform the following operations:

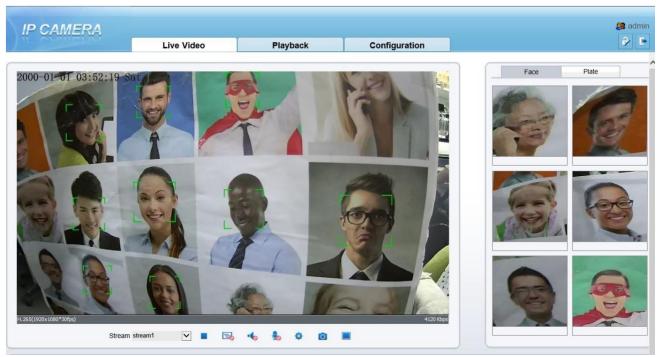
- Click **I** to stop playing a video.
- Click loplay a video.
- Double-click in the video area to enter the full-screen mode, and double-click again to exit.
- Configure the PTZ. For details, see Configure the PTZ.
- Control the PTZ. For details, see Controlling the PTZ.
- Switch among preset streams 1, 2, and 3. For details about how to configure streams, see 3.2 Video and Audio Stream .
- Click 📃 to switch the video to smooth mode.
- Click 🤷 to snapshot and save the photos.
- Click **to enable the local record**.
- Configure the sensor.

You can right-click in the video area. A shortcut menu is displayed and allows you to enter the full-screen mode, set sensor parameters, zoom in or out, and return to the default view.

To set sensor parameters, click it open the **Sensor Setting** page. On the **Sensor Setting** page, you can adjust the image, mirror, camera mode, focus setting, Iris setting, white balance, and noise filter as prompted.

Click to show AI multi object live video, as shown in Figure 2-10

Figure 2-10 AI multi object live video



Click "AI" icon to enter AI multiobject interface, as shown in Figure 2-10. The upper right of interface can switch face snapshot and license plate snapshot.

2.2 Control and Configure the PTZ

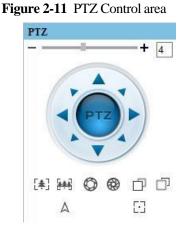
Prerequisite

All PTZ functions are only available to High Speed Network Dome and device connected to an external PTZ.

Controlling the PTZ

When browsing real-time videos shot by a dome camera or a camera connected to an external PTZ, you can control the PTZ to view videos shot in different directions.

Click **ETE** below the **Live Video** page to open the **PTZ Control** page as shown in Figure 2-11, you can click the eight arrow keys to move the PTZ in eight directions. You can also zoom the lens and adjust the focal length.



In the PTZ control area, you can perform the following operations:

- Slide the slider left or right beyond the PTZ rotation keys, you can adjust the PTZ rotation speed.
- Click the arrows on the 😨 to move the PTZ in eight directions.
- Click 🛤 or 🚧 to adjust the focal length.
- Click O or O to adjust the aperture.
- Click 🗇 or 🗇 to focus.
- Click \land to set due north direction.
- Click 🖸 to enable automatic prime function.

Configure the PTZ

If a camera has the PTZ or is connected to a PTZ, you can configure the PTZ in the **PTZ Configure** area, as shown in Figure 2-12.

Figure 2-12 PTZ Configure area

PTZ								
+4	Preset	Track	Scan	Tour	Idle	Timer	Exten	
					Add Pr	eset		
	Pres	et	Preset1	\checkmark	ID	6	~	
		×	:	*	Name			
•							+	
[♠] ₩ ◎ ◎ ⊡ ⊡								
Δ 🖸								

In the PTZ configure area, you can perform the following operations:

- Add, delete, and invoke preset positions.
- Add, delete, and invoke tracks.
- Add, delete, and invoke scans.
- Add, delete, and invoke tours.
- Set the idle.
- Set the timer.
- Set the extension.

Set Light On/Off and Brush function.

Brush is used to clean the lens. Light On/Off is used to control the infrared camera shields on and off.

🛄 ΝΟΤΕ

- **Brush** is available only to a camera with a brush or a camera shield.
- Light On/Off is available only to specific camera shields.

3D Positioning

Click below the Live Video page to configure the 3D positioning function.

The 3D positioning function quickly rotates the PTZ and changes the focal length in specific scenarios. You can also change the focus by drawing rectangle frames.

The default value of 3D Positioning is ON.

Configure and Invoke Preset Positions

You can configure preset positions and quickly rotate the camera to a preset position by invoking the preset position.

The procedure is as follows:

Step 1 Configure a preset position.

- 1. Set the preset ID and name.
- 2. Click to finish the preset position setting.

Step 2 Invoke a preset position.

Select a preset position from the Preset drop-down list box to invoke the preset position.

----End

Configure and Invoke Tracks

You can record a track to allow the camera to repeatedly rotate based on the preset track.

Step 1 Configure a track.

- 1. Set the track ID and name.
- 2. Click to set the starting position of the track.
- 3. Use arrow keys in the **PTZ Control** area to set a required a track.
- 4. Click **I** to finish the track setting.

Step 2 Invoke a track.

Select a track name from the Track drop-down list box to invoke the track.

A maximum of six tracks can be configured.

Configure and Invoke Scans

You can configure a starting point and end point to allow the camera to repeatedly rotate from the starting point to end point.

Step 1 Configure a scan.

1. Click Scan.

The Scan Add page is displayed as shown in Figure 2-13.

Figure 2-13 Scan configuration

				Add S	Scan			
Scan		12345	-	ID		2	•	
	×		*	Value	12			
						•		

- 2. Set the scan ID and name.
- 3. Click 🕨 .
- 4. Use arrow keys in the PTZ Control area to set a start point and an end point.
- 5. Click **to** finish the scan setting.
- Step 2 Invoke a scan.

Select a scan value from the Scan drop-down list box to invoke the scan.

A maximum of twelve scans can be configured.

Configure and Invoke Tours

You can configure a tour to allow the camera to repeatedly rotate based the tours. Each tour includes presets and wait time should be set.

Step 1 Configure a tour.

1. Click Tour.

The Tour Add page is displayed as shown in Figure 2-14.

Figure 2-14 Tour configuration

Add Tour Tour Tour1 Preset Preset1 Preset Preset1	Preset	Track	Scan	Tour	Idle	Timer	Exten	• • •		
Preset Preset1 V Preset1 V					Add Tour					
Preset Preset1 V Preset1 V	Τοι	ır	Tour1	\checkmark		2		~		
······································	Pre	set	Preset1	\checkmark		Pr	eset1	~		
Wait Time 5 Wait Time 0	Wa	it Time	5		Wait Tin	ne O			~	

2. Set the tour ID and name.

- 3. Select a preset and set the wait time and click **•**.
- 4. Continue to Select a preset and set the wait time and click .
- 5. Repeat the step 3 and step 4 to add more presets.
- 6. Click to finish the tour setting.

Step 2 Invoke a tour.

Select a tour value from the **tour** drop-down list box to invoke the tour.

A maximum of twelve tours can be configured.

Configure Idles

You can enable idle to allow the camera to run the preset, track, scan and tour automatically after the waiting time (1 minute \sim 240 minutes).

Step 1 Click Idle.

The Idle Add page is displayed as shown in Figure 2-15.

Figure 2-15 Idle configuration

							×
Preset	Track	Scan	Tour	Idle	Timer	Exten	
		Enable		ON			
		Туре	Tou	Ir	•		
		Name	Tou	ır1	•		
		Wait Tin	ne 2				

Step 2 Enable the Idle button.

Step 3 Set the idle Type and name from the drop-down list box.

Step 4 Set the wait time(1 min ~240 min).

Step 5 Click **I** to finish the idle setting.

Configure Timer

You can set the PTZ timer to allow the camera to invoke the preset, track, scan and tour automatically in the setting time and the camera will restore to the operation and location after the end time.

Step 1 Click Timer.

The **Set the PTZ Timer** page is displayed and click _____, the **Timer** page is displayed as shown in Figure 2-16.

Figure 2-16 Timer configuration

Enabl er Mod		vervd	ay COnc	e	Time 0-	0-0
			2	16 - 21		
Timer	Begin	Time	End Time	PTZ Type	Name	Clear
1	0:30	•	•	•	•	×
2		•	•	•	•	×
3		•	•	-	•	×
	-	_				-

- Step 2 Enable Timer.
- Step 3 Set the Timer Mode. Timer mode includes Everyday and Once. You should set the time when once mode is selected.
- Step 4 Choose Once, click Time to choose day from the pop-up calendar.

Step 5 Set Timers.

Select the begin time, end time, PTZ type and name from the drop-down list box.

- A maximum of eight timers can be configured.
- Click Clear to delete the setting.

Step 6 Click **v** to finish the timer setting.

Configure Extension

You can set light On/Off, brush function and reboot action in extension page.

Click Extension, the Extension page is displayed as shown in Figure 2-17.

Figure 2-17 Extension

		-				Х
Preset	Track	Scan	Tour	Idle	Timer Exten	
, já		*		PTZ 1	уре	
	nt f	nt functior		t function	Rebo PTZ T Name	Reboot Action ON PTZ Type V Name Preset1 V

Light On/Off is used to control the infrared camera shields on and off.

• Brush function

Click to enable brush.

Brush is used to clean the lens.

- Brush is available only to a camera with a brush or a camera shield.
- Light On/Off is available only to specific camera shields.
- Reboot action

The camera will perform the selected PTZ type and name when the camera reboots and the reboot action is enable.

- Click the reboot action button to enable reboot action
- Set the PTZ Type and name from the drop-down list box.
- Click with the reboot setting.

----End

2.3 Sensor Setting

2.3.1 Access the Sensor Setting Interface

Operation procedure:

Step 1 On the web interface or client interface, move the cursor to the real-time video page and right-click on the page. A shortcut menu is displayed, as shown in Figure 2-18. Table 2-1 describes the sensor setting interface.

F	ull Screen
S	Sensor
Z	loomIn
Z	loomOut
F	Restore Panorama

Table 2-1	Sensor	parameters	description
I ubic 4 I	Dembor	purumeters	description

Parameter	Description
Full Screen	It enlarges and displays the image in full screen.
Sensor	It is used for configure the parameter set of front-end images.
Zoom In/Out	It zooms in/out images by electronic means. This function may also be used with the mouse wheel.

Step 2 Choose Sensor Configure and the Sensor Setting dialog box appears.

----End

2.3.2 Mode

Operation procedure:

Step 1 Click Mode tag on sensor setting interface, the Mode page is displayed, as shown in Figure 2-19.

ode	Image	Scene	Exposure	WB	DayNight	Noise	Reduction	n Enh	ance Image	Zoc
SW	vitch Mod	le Non	e	2	Start Time	00	v 1	00	Ŷ	
					End Time	24	~	00	\sim	

Figure 2-19 Mode page

Step 2 Choose Debug Model in the lower left corner to activate the sensor setting page.

Step 3 Tick the Enable, then set the start time and end time.

Step 4 Click Save to save the setting.

2.3.3 Image Setting

Figure 2-20 shows the image setting interface.

Figure 2-20 Image setting interface

Mode	Image	Scene	Exposure	WB	DayNight	Noise Reduction	Enhance Image	Zoc 1
Brig	htness	0		50 100	Saturat	tion 0	50 100	
Sha	rpness	0	•	62 100	Contr	ast 0	50 100	

Table 2-2 describes the image setting parameters.

Parameter	Description	Configuration Method
Brightness	It indicates the total brightness of an image. As the value increases, the image becomes brighter.	[Setting method] Drag the slider. [Default value] 50
Saturation	It indicates the color saturation of an image. As the value increases, the image becomes more colorful.	[Setting method] Drag the slider. [Default value] 50
Sharpness	It indicates the definition of an image. As the value increases, the image becomes more definitional.	[Setting method] Drag the slider. [Default value] 50
Contrast	It indicates the contrast between the bright part and the dark part of an image. As the value increases, the contrast increases.	[Setting method] Drag the slider. [Default value] 50

 Table 2-2
 Image setting parameters description

2.3.4 Scene Mode

Figure 2-21 shows the scene mode interface.

lode	Image	Scene	Exposure	WB	DayNight	Noise Reduction	Enhance Image	e
		Scene	Outdoor		~	Aisle Mo	de	
						•		
					191	ř.		
		Mirror	Normal		~			
		Mirror		update		etection.PrivacvMa	sk.Intelligent	
		Mirror	Tip: Please		the MotionD	etection,PrivacyMa ter (Aisle Mode)/(Mi		ued.
		Mirror	Tip: Please		the MotionD	etection,PrivacyMa ter [Aisle Mode]/[Mi		jed.

Table 2-3 describes the FFC mode parameters.

Parameter	Description	Configuration Method
Scene	It indicates the working mode of a cameraOutdoor: It applies to outdoor scenarios.Indoor: It applies to indoor scenarios.	[Configuration method] Select from the drop-down list [Default value] Outdoor
Mirror	 It is used to select the pixel location of an image. Normal: The image does not flip. Horizontal: The image flips to the left and right. Vertical: The image flips up and down. Horizontal and vertical: The image rotates at 180 degrees. 	[Setting method] Select a value from the drop- down list. [Default value] Normal
Aisle Mode	The image rotates 90 degrees clockwise when aisle mode is enabled.	[Setting method] Tick the Freeze status. [Default value] Disable

 Table 2-3
 FFC mode parameters description

2.3.5 Exposure

Figure 2-22 and Figure 2-23 shows the Exposure interface.

Scene Expos	wB	DayNight	Noise R	leduction	Enhar	nce Image	Zoom Focus	
xposure Mode	Auto		~	Max Sh	utter	1/25		~
Meter area	Whole		~	Max	Gain	0		50 100
					Iris	Auto		~
				Iris Sp		0		50
Debug Modi 🗸	Scheme 1	~	FactoryS	etting			Reset	Save

Mode	Image	Scene	Exposure] WB	DayNight	Noise	Reduction	Enhance Image	Zoc	•
xposure	Mode	Auto		~	Max S	hutter	1/25	~		
Meter	r area	Whole		~	Ma	x Gain Iris	0 F1.6	100	50	

Figure 2-23 Exposure interface for high speed dome

Table 2-4 describes Exposure parameters.

 Table 2-4 Exposure parameters description

Parameter	Meaning	Configuration Method
Exposure Mode	 The exposure modes include: Auto: The system performs auto exposure based on the monitoring environment. Manual: You can adjust the brightness of an image by setting the following three items: Shutter Setting, Iris Setting and Gain Setting. Shutter Priority: You can set Shutter Setting to fixed values. The iris and gain are automatically adjusted by the system. Iris Priority (for high speed dome): You can set Iris Setting to fixed values. The shutter and gain are automatically adjusted by the system. 	[Setting method] Select a value from the drop-down list. [Default value] Auto
Meter area	 It is used to select the metering area. Whole: During metering, all areas of an image have an equal weight, that is, all areas are involved in the metering. Center pot: During metering, the central pot of an image has the highest weight. Center Area: During metering, the middle area (1/2 of the total area) of an image has the highest weight, and other areas have the lowest weight. 	[Setting method] Select a value from the drop-down list. [Default value] Whole

Parameter	Meaning	Configuration Method
Max Shutter	The device automatically adjusts the shutter time based on the ambient brightness. The shutter time is less than or equal to the value of this parameter.	[Setting method] Select a value from the drop-down list. [Default value] 1/25
Max Gain	The device automatically adjusts the gain based on the external light. The gain is less than or equal to the value of this parameter.	[Setting method] Drag the slider. [Default value] 50
Iris (for high speed dome)	It is valid in manual mode and iris priority mode. You can adjust the brightness of an image by setting the iris. As the value increases, the brightness increases (when the shutter and gain remain the same). However, the camera movement automatically adjusts the shutter and gain in this mode. Therefore, the brightness of an image may not increase when you increase the iris.	[Setting method] Select a value from the drop-down list. [Default value] F1.6
Iris (for IP camera)	 It is used to control the light admitted to the lens. The auto iris can be set to either of the following states: Auto The iris is automatically adjusted to control the light admitted to the lens. Open fully The iris is fully open. 	[Setting method] Select a value from the drop-down list. [Default value] Auto
Iris Speed	It indicates the auto adjustment speed of the iris. As the value increases, the speed increases. Excessive speed may cause instability.	[Setting method] Drag the slider. [Default value] 50

2.3.6 WB Setting

Figure 2-24 shows the **WB Setting** interface.

Mode	Image	Scene		WB Day	Night Noise Redu	ction Enhance	Image Zoc •
			Mode	Auto	~		
			Red Gain		100	0	
			Blue Gain		100	0	

Figure 2-24 WB Setting interface

Table 2-5 describes **WB Setting** parameters.

Parameter	Meaning	Configuration Method
Mode	It is adjusted based on application scenarios to improve the fidelity of the image color. The WB modes include: • Auto: In automatic white balance (WB) mode, the system automatically performs white balance based on the monitoring environment. • Tungsten • Fluorescent • Daylight • Shadow • Manual: In manual WB mode, you can manually select a WB mode based on the monitoring environment.	[Setting method] Select a value from the drop- down list. [Default value] Auto
Red Gain	It indicates the gain applied to red channels. As the value increases, the color temperature becomes lower. INOTE This parameter is valid when Manual Mode is set to Customized .	[Setting method] Drag the slider. [Default value] 0

 Table 2-5 WB Setting parameters description

Parameter	Meaning	Configuration Method
Blue Gain	It indicates the gain applied to blue channels. As the value increases, the color temperature becomes higher. NOTE This parameter is valid when Manual Mode is set to Customized .	[Setting method] Drag the slider. [Default value] 0

2.3.7 Daynight

The day night mode settings vary based on device models. For details, see the following sections. Figure 2-25 to Figure 2-28 shows the **DayNight Mode** interface.

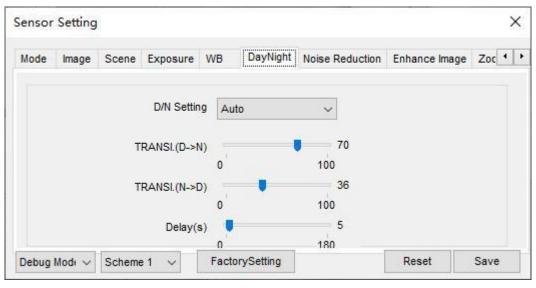


Figure 2-25 DayNight Mode (1) interface

Figure 2-26 DayNight Mode (2) interface

Mode	Image	Scene	Exposure	WB D	DayNight	Noise Reduction	Enhance Image	Zoc 1
	D/N Settin		Mode	~			lanual	~
						Near		50
						0	1	00
						Centre		50
							· · · · · · · · · · · · · · · · · · ·	
						0	1	00
						0 Far	1	00 = 50
						Far 0		

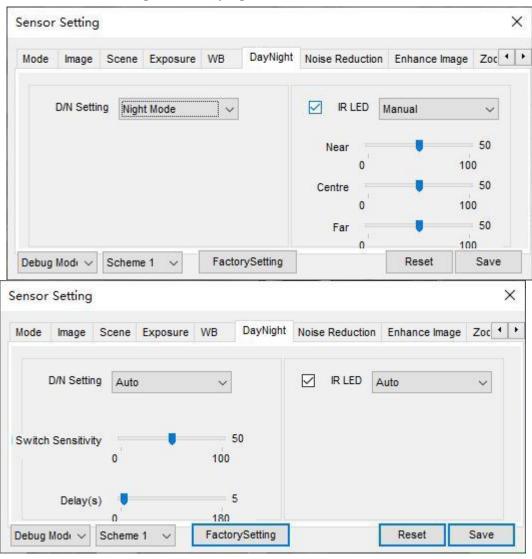


Figure 2-27 DayNight Mode (3) interface

Figure 2-28 DayNight Mode (4) interface

Mode	Image	Scene	Exposure	WB	DayNight	Noise Reduction	Enhance Image	Zoc 1
	D/N Setti	19 Timir	ng	\sim			fanual	~
	DTN Tir	ne 18	✓ : 0	0 ~		Near 0	10	50 0
	NTD Tir	ne 06	✓ : 0	0 ~		Centre 0	10	50 0
						Far	10	50
ehua	Modi 🗸	Scheme	1 ~	Factor	ySetting		Reset	Save

Table 2-6 describes DayNight Mode parameters.

Table 2-6	DNR	parameters	description

Parameter	Meaning	Configuration Method
D/N Setting Mode	 It can be set to Auto, Day, Night or Timing. Auto mode The image color and filter status are automatically switched based on the ambient brightness. The filter prevents infrared light from entering the sensor in the day state and allows all types of light to enter the sensor in the night state. Day mode The image is colored, and the filter is in the day state, preventing infrared light from entering the sensor. Night mode The image is black and white, and the filter is in the night state, allowing infrared light to enter the sensor. Timing Set day to night time and night to day time to switch the daynight mode. 	[Setting method] Select a value from the drop-down list. [Default value] Auto
<mark>Switch</mark> Sensitivity	The sensitivity of switching day and night. The higher value of sensitivity, and the lower light intensity will switch to day. MOTE This parameter is valid in auto mode.	[Setting method] Drag the slider. [Default value] 50
TRANSI.(D- >N)(dB)	It determines the day-to-night switching in auto mode. When the system gain is greater than the value of this parameter, the system enters the night mode. NOTE This parameter is valid in auto mode. The value of TRANSI.(D->N) must be greater than the value of TRANSI.(N->D) .	[Setting method] Drag the slider. [Default value] 70
TRANSI.(N- >D)(dB)	It determines the night-to-day switching in auto mode. When the system gain is smaller than the value of this parameter, the system enters the day mode. NOTE This parameter is valid in auto mode. The value of TRANSI.(D->N) must be greater than the value of TRANSI.(N->D) .	[Setting method] Drag the slider. [Default value] 30
Delay(s)	The delay time of day to night or night to day. Inote This parameter is valid in auto mode.	[Setting method] Drag the slider. [Default value] 0

Parameter	Meaning	Configuration Method
IR LED	 Auto: The infrared lamp is enabled or disabled based on the external environment identified by the light dependent resistor (LDR). ON: The system enters the night mode forcibly. OFF: The infrared lamp is disabled. The filter and image color are switched based on the external environment identified by the LDR. INOTE This parameter is valid in auto mode. 	[Setting method] Select a value from the drop-down list. [Default value] Auto
Strength	Strength of IR LED, as the value increases, the image becomes brighter.	[Setting method] Drag the slider. [Default value] 50
DTN Time	Time of day to night.	[Setting method] Select a value from the drop-down list. [Default value] 18:00
NTD Time	Time of night to day.	[Setting method] Select a value from the drop-down list. [Default value] 6:00

2.3.8 Noise Reduction

Figure 2-29 shows the Noise Reduction interface.

Figure 2-29 Noise Reduction interface(manual)

Mode	Image	Scene	Exposure	WB	DayNight	Noise Red	luction	Enhance Image	Zoc
	2D NR ed Streng	Man th	ual	~ 100] 3D NR ed Strength	Manu 0	al v	50

Mode	Image	Scene	Exposure	WB	DayNight	Noise Red	uction	Enhance Image	Zoc 1
	2D NR ax Streng	Auto th 0	•	~ 100		3D NR x Strength	Auto	i	50 00
Debug	Modi 🗸	Scheme	1 ~	Factor	rySetting			Reset	Save

Figure 2-30 Noise Reduction interface(auto)

Table 2-7 describes DNR parameters.

Parameter	Meaning	Configuration Method
2D NR	Reduce noise of image.	[Configuration method] Select from the drop-down list [Default value] Auto
3D NR	Reduce noise of image.	[Configuration method] Select from the drop-down list [Default value] Auto
Max Strength	It is valid in auto noise filter mode. When the parameter value is 0 , the noise filter is disabled. When the parameter value is greater than 0 , the noise filter is enabled, and the system automatically adjusts the noise filter level based on the ambient brightness without exceeding the value of this parameter.	[Setting method] Drag the slider. [Default value] 50
Fixed Strength	It is valid in a manual noise filter mode.	[Setting method] Drag the slider. [Default value] 50

 Table 2-7
 DNR parameters description

2.3.9 Enhance Image

Figure 2-31 shows the enhance image interface and Table 2-8 shows the enhance image parameter.

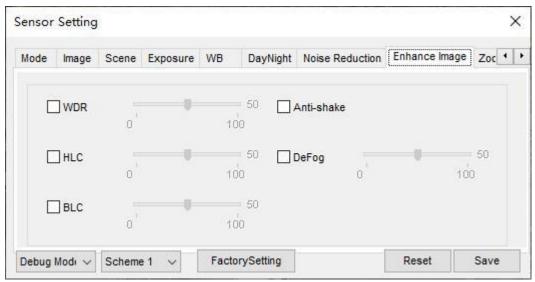


Figure 2-31 Enhance image interface

Parameter	Meaning	Configuration Method
WDR	It is used to display the foreground and background at the same time in the environment with a large brightness difference. When the brightness difference is larger, you can increase the WDR level to obtain better image effect.	[Setting method] Tick the WDR mode and drag the slider. [Default value] 50
HLC	It provides a clearer view of an image in the highlight environment. When HLC is enabled, the total brightness of an image is reduced, allowing you to view objects in front of the highlight.	[Setting method] Tick the HLC mode and drag the slider. [Default value] 50
BLC	It provides a clearer view of an image in the backlight environment. When BLC is enabled, the total brightness of an image increases, allowing you to view objects in front of the backlight. Meanwhile, the objects behind the backlight are exposed excessively.	[Setting method] Tick the HLC mode and drag the slider. [Default value] 50
Anti-shake	The shakes and visual angle of image will reduce when the camera shakes slightly and the anti-shake is enable.	[Setting method] Tick the Anti- shake mode.

 Table 2-8
 Enhance image parameters description

Parameter	Meaning	Configuration Method
DeFog	It provides a clearer view of an image in the fogged environment when Defog is enabled. As the value increases, the image becomes clearer.	[Setting method] Tick the Defog mode and drag the slider. [Default value] 50

2.3.10 Zoom Focus

Figure 2-32 and Figure 2-33 shows the zoom focus interface and Table 2-8 shows the zoom focus parameter.

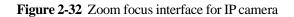


Figure 2-33 Zoom focus interface for high speed dome

cene	Exposure	WB	Dayl	Night	Noise Reduction	Enhance Image	e Zoom F	ocus	
] Digital Zool	m			Focus Mode	semi-autom	atic	~	
				Au	to Focus Sensitivity	0	•	50	
				the I	east focus <mark>d</mark> istance	6m		\sim	

Parameter	Meaning	Configuration Method
D/N Auto Focus	It is used to trigger auto focus when day to night or night to day.	[Setting method] Tick the Auto focus.
Auto Focus Once	It is used to trigger auto focus.	[Setting method] Click the button.
Init	The lens of camera returns to the initial position.	[Setting method] Click the button.
Digital	This function enables digital zoom after an image is zoomed in by 20 times in optical mode.	[Setting method] Tick the Digital.
Focus Mode	It can be set to the auto, manual or semi- automatic mode. Auto focus mode: The system automatically triggers focus based on application scenarios. Manual focus mode: You can trigger focus by using the buttons on the client. Semi-automatic focus mode: The system only automatically trigger focus once when the PTZ move or zoom in a scene.	[Configuration method] Select from the drop-down list [Default value] Semi-automatic
Auto Focus Sensitivity	It indicates the sensitivity of auto focus. When the sensitivity is high, the camera movement is more likely to focus again at slight changes of an image.	[Setting method] Drag the slider. [Default value] 50
The least focus distance	It indicates the minimum focus distance. A camera does not focus when the distance is smaller than this value. For example, if the minimum focus distance is set to 1.5 m, a camera focuses only on objects more than 1.5 m away, and the changes of objects less than 1.5 m away do not affect the focusing.	[Configuration method] Select from the drop-down list [Default value] 3 m

 Table 2-9
 Zoom focus parameters description

----End

3

Configure the Device

3.1 Device Information

Description

The device information includes:

- Device ID, name, type, model, and MAC address.
- Hardware and software versions.

• Number of video channels, number of alarm input channels, number of alarm output channels, and number of serial ports.

- You can modify the device name. All other parameters can only be viewed.
- When the device is upgraded, the device information is updated automatically.

Procedure

Step 1 Click Configuration > Device Info.

The **Device Info** page is displayed, as shown in Figure 3-1.

Figure 3-1 Device Info page

Device ID	10190
Device Name	· · · · · · · · · · · · · · · · · · ·
MAC Address	00:1C:27:10:19:0
Camera Type	IPCAMER/
Product Model	IPC57/20HDN/F/1
Manufacturer Name	IPCamer
Hardware Version	V060051_
Firmware Version	v3.5.0804.1003.3.0.18.3.
Channel Quantity	
Alarm Input Quantity	
Alarm Output Quantity	
Serial Port Quantity	
Network Card Quantity	

Step 2 View the device information, set the device name according to Table 3-1.

Parameter	Description	Setting
Device ID	Unique device identifier used by the platform to distinguish the devices.	[Setting method] The parameter cannot be modified.
Device Name	Name of the device. NOTE The device name cannot exceed 32 bytes or 10 simplified characters; otherwise, the modification fails.	[Setting method] Enter a value manually.
MAC Address	N/A	[Setting method]
Camera Type		These parameters cannot be modified.
Product Model		
Manufacturer Name		
Hardware Version		
Firmware Version		
Video Channel(s)		
Channel Quantity		
Alarm Input Quantity		
Alarm Output Quantity		
Serial Port Quantity		
Network card Quantity		

 Table 3-1
 Device parameters

Step 3 Click **Step 3**.

- If the message "Apply success!" is displayed, click **OK**. The system saves the settings.
- If the message "Apply failed!" is displayed, you must apply for the Parameter Configure permission from an administrator. For details, see 11.1 Configure a User.

----End

3.2 Video and Audio Stream

Procedure

Step 1 Click Configuration > Stream > Base Stream.

The **Stream Configuration** page is displayed, as shown in Figure 3-2.

Figure 3-2 Stream Configuration page

😴 Stream

Stream ID	1
Name	stream1
Video Encode Type	H265
Video Encode Level	Mid
Audio Encode Type	G711_ALAW
Resolution	2048x1536
Frame Rate(fps)	25
I Frame Interval(Unit: Frame)	50
Bit Rate Type	VBR
Max Bitrate(kbps)(500-12000)	4096
Image Quality	Mid
Smart Encode	ON

Step 2 Set the parameters according to Table 3-2.

Table 3-2 Stream configuration parameters

Parameter	Description	Setting
Stream ID	 The device supports at most three main streams. Streams 1 and 2 use the H.264 codec. The maximum resolution can be set for streams 1. Only a low resolution can be set for stream 2. Stream 3 is the lowest resolution. Stream 4 is the sub stream. 	[Setting method] Select a value from the drop- down list box.

Parameter	Description	Setting
Name	Stream name. NOTE The stream name is combined with character, number, character and underline.	[Setting method] Enter a value manually. The value cannot exceed 32 bytes. [Default value] Stream 1
Video Encode Type	 The video codec determines the image quality and network bandwidth required by a video. Currently, the following codec standards are supported: MJPEG MJPEG is a standard intra-frame compression codec. The compressed image quality is good. No mosaic is displayed on motion images. MJPEG does not support proportional compression and requires large storage space. Recording and network transmission occupy large hard disk space and bandwidth. MJPEG is not applicable to continuous recording for a long period of time or network transmission of videos. It can be used to send alarm images. H.264 H.264 consists of H.264 Base Profile, H.264 Main Profile, and H.264 High profile. The performance of H.264 High Profile is higher than that of H.264 Main Profile is higher than that of H.264 Main Profile is higher than that of H.264 Base Profile. If a hardware decoding device is used, select the appropriate codec based on the decoding performance of the device. H.264 High Profile has the highest requirements on the hardware performance, and H.264 Base Profile has the lowest requirements on the hardware performance. H.265 H.265 is the advanced video encoding standard. It's the improvement standard from H.264. H.265 improves the streams, encoding quality and algorithm complexity to make configuration as optimization. 	[Setting method] Select a value from the drop- down list box. [Default value] H.264 High Profile NOTE The H.264 High Profile codec means high requirements on the hardware. If the hard decoding capability is low, use H.264 Main Profile or H.264 Base Profile.
Audio Encode Type	 The following audio codec standards are supported: G711_ULAW: mainly used in North America and Japan. G711_ALAW: mainly used in Europe and other areas. RAW_PCM: codec of the original audio data. This codec is often used for platform data. 	[Setting method] Select a value from the drop- down list box.

Parameter	Description	Setting
Resolution	A higher resolution means better image quality. NOTE IP cameras support the different resolutions based on the model.	[Setting method] Select a value from the drop- down list box.
Frame Rate(fps)	 The frame rate is used to measure displayed frames. A higher frame rate means smoother videos. A video whose frame rate is higher than 22.5 f/s is considered as smooth by human eyes. Frame rates for different frequencies are as follows: 50 Hz: 1–25 f/s 60 Hz: 1–30 f/s NOTE The frequency is set on the Device Configuration > Camera page. The biggest MJPEG coding format frame rate is 12 frames per second. 	[Setting method] Select a value from the drop- down list
I Frame Interval(f)	I frames do not require other frames to decode. A smaller I frame interval means better video quality but higher bandwidth.	[Setting method] Select a value from the drop- down list
Bit Rate Type	 The bit rate is the number of bits transmitted per unit of time. The following bit rate types are supported: Constant bit rate (CBR) The compression speed is fast; however, improper bit rate may cause vague motion images. Variable bit rate (VBR) The bit rate changes according to the image complexity. The encoding efficiency is high and the definition of motion images can be ensured. 	[Setting method] Select a value from the drop- down list box.
Max bit Rate(500- 12000)	Indicates the maximal value of the bit rate.	[Setting method] Enter a value manually.
Image Quality	The video quality the camera output.	[Setting method] Select a value from the drop- down list box.
Smart Encode	 Smart Encode. Smart encode includes H.264 & H.265. The storage space will be reduced fifty percent when smart encode is enabled. Only main stream supports smart encode. 	[Setting method] Click the button on to enable Smart Encode .

Step 3 Click Apply.

• If the message "Apply success!" is displayed, and the system saves the settings.

• If the message "Apply failed!" is displayed, you must apply for the Parameter Configure permission from an administrator. For details, see 11.1 Configure a User.

• If a message indicating that the bit rate invalid is displayed, enter a new bit rate value.

----End

3.3 SVC Stream

Procedure

Step 1 Click Configuration > Stream > SVC Stream.

The SVC Stream page is displayed, as shown in Figure 3-3.

Figure 3-3 SVC Stream Configuration page

🖻 SVC Stream

SVC Stream ID	4
SVC Stream Name	stream4
Elementary Stream ID	1
P Frame Rate	1/2

Refresh

Apply

Step 2 Set the parameters according to Table 3-3.

 Table 3-3
 Stream configuration parameters

Parameter	Description	Setting
SVC Stream ID	The ID of the SVC stream.	[Setting method] Select a value from the drop- down list box. [Default value] 4
SVC Stream Name	Stream name. NOTE The stream name is combined with Chinese character, number, character and underline.	[Setting method] Enter a value manually. The value cannot exceed 32 bytes. [Default value] Stream 4
Elementary Stream ID	ID of the elementary stream.	[Setting method] Select a value from the drop- down list box.

Parameter	Description	Setting
P Frame Rate	The P frame rate of SVC stream and elementary stream.	[Setting method] Select a value from the drop- down list box.

Step 3 Click Apply.

• If the message "Apply success!" is displayed, and the system saves the settings.

• If the message "Apply failed!" is displayed, you must apply for the Parameter Configure permission from an administrator. For details, see 11.1 Configure a User.

----End

3.4 ROI Parameter

Procedure

 $Step 1 \ Click \ Configuration > Stream > ROI.$

The **ROI** page is displayed, as shown in Figure 3-4.

Figure 3-4 ROI Configuration page

🖻 ROI

Enable Area ID Level Area Name Note: Max size 50% ;Right click to remove the zones drawn	
Level Area Name Note: Max size 50% ;Right click to remove the zones drawn	
Area Name Note: Max size 50% ;Right click to remove the zones drawn	5
Note: Max size 50% ;Right click to remove the zones drawn	
2017-02-10 H4:28:46 Fri	

Step 2 Set the parameters according to Table 3-4.

 Table 3-4
 ROI configuration parameters

Parameter	Description	Setting
Stream	Stream ID.	[Setting method] Select a value from the drop- down list box. [Default value] Stream 1
Enable	Enable the ROI	[Setting method] Click the button. [Default value] OFF

Parameter	Description	Setting
Area ID	ROI area ID	[Setting method]
		Select a value from the drop- down list box.
		[Default value]
		1
Level	Visual effect of ROI. The higher the grade is, the more clearly areas inside and the vaguer areas outside are	[Setting method] Select a value from the drop- down list box. [Default value] 5
Area Name	The marked name used for areas.	[Setting method] Enter a value manually. The value cannot exceed 32 bytes.

Step 3 Click Apply.

The message "Apply success!" is displayed, and the system saves the settings.

----End

3.5 Snapshot

Procedure

Step 1 Click Configuration > Stream > Snapshot.

The **ROI** page is displayed, as shown in Figure 3-4.

Figure 3-5 ROI Configuration page

로 Snapshot

Snapshot Resolution	1280x	′20 •
Snapshot Quality	Mid	¥
		Apply

Step 2 Set the parameters according to Table 3-4.

Parameter	Description	Setting
Snapshot Resolution	Choose resolution of snapshot	[Setting method] Select a value from the drop- down list box. [Default value] 1280*720
Snapshot Quality	Choose the quality of snapshot.	[Setting method] Click the button. [Default value] Mid

 Table 3-5
 ROI configuration parameters

3.6 Local Network

Description

Local network parameters include:

- IP protocol
- IP address
- Subnet mask
- Default gateway
- Dynamic Host Configuration Protocol (DHCP)
- Preferred Domain Name System (DNS) server
- Alternate DNS server
- MTU

Procedure

Step 1 Choose Device Configuration > Local Network.

The Local Network page is displayed, as shown in Figure 3-6.

Figure 3-6 Local Network page

2 Local Network

Network Card ID	1 🔻
IP Protocol	IPv4
DHCP	ON
DHCP IP	192.168.0.120
Preferred DNS Server	192.168.0.1
Alternate DNS Server	192.168.0.2
MTU(1280-1500)	1500
	Refresh Apply

Step 2 Set the parameters according to Table 3-6.

Parameter	Description	Setting
IP Protocol	IPv4 is the IP protocol that uses an address length of 32 bits.	[Setting method] Select a value from the drop-down list box. [Default value] IPv4
Obtain IP address automatically	The device automatically obtains the IP address from the DHCP server.	[Setting method] Click the button on to enable obtain IP address automatically. NOTE To query the current IP address of the device, you must query it on the platform based on the device name.
DHCP IP	IP address that the DHCP server assigned to the device.	N/A
IP Address	Device IP address that can be set as required.	[Setting method] Enter a value manually. [Default value] DHCP on

 Table 3-6
 Local network parameters

Parameter	Description	Setting
Subnet Mask	Subnet mask of the network adapter.	[Setting method] Enter a value manually. [Default value] 255.255.255.0
Default Gateway	This parameter must be set if the client accesses the device through a gateway.	[Setting method] Enter a value manually. [Default value] 192.168.0.1
Preferred DNS Server	IP address of a DNS server.	[Setting method] Enter a value manually. [Default value] 8.8.8.8
Alternate DNS Server	IP address of a domain server. If the preferred DNS server is faulty, the device uses the alternate DNS server to resolve domain names.	[Setting method] Enter a value manually. [Default value] 8.8.4.4
MTU	Set the maximum value of network transmission data packets.	[Setting method] Enter a value manually. NOTE The MTU value is range from 1280 to 1500, the default value is 1500, Please do not change it arbitrarily.

Step 3 Click Apply.

• If the message "Apply success!" is displayed, and the system saves the settings. The message "Setnetwork parameter success, Please login system again" is displayed. Use the new IP address to loginto the web management system.

• If the message "Invalid IP Address", "Invalid Subnet Mask", "Invalid default gateway", "Invalid primary DNS", or "Invalid space DNS" is displayed, set the parameters correctly.

----End

3.7 Device Port

Description

You must configure the HTTP port, control port, Real Time Streaming Protocol (RTSP) port and SSL Control port for device route mapping in a LAN.

Procedure

Step 1 Choose Configuration > Device > Device Port.

The **Device Port** page is displayed, as shown in Figure 3-7.

Figure 3-7 Device Port page

韋 Device Port

Control Port	30001
Http Port	80
RTSP Port	554
HTTPS Port	443
SSL Control Port	20001

Refresh Apply

Step 2 Set the parameters according to Table 3-7.

Parameter	Description	Setting
Control Port	Port used for audio and video transfer and signaling interaction.	[Setting method] Enter a value manually. [Default value] 30001
HTTP Port	Port used in web access.	[Setting method] Enter a value manually. [Default value] 80
RTSP Port	RTSP protocol port.	[Setting method] Enter a value manually. [Default value] 554
HTTPS Port	Hyper Text Transfer Protocol over Secure Socket Layer	[Setting method] Enter a value manually. [Default value] 443
SSL Control Port	Secure socket layer control port	[Setting method] Enter a value manually. [Default value] 20001

 Table 3-7 Device port parameters

It's not recommended to modify the control port, for details about the value ranges of the control port, HTTP port and SSL Control port, see the communication matrix.

Step 3 Click Apply.

• If the message "Apply success!" is displayed, and the system saves the settings.

• If the message "Invalid Control Port, Please input an integer between 1025 and 65535" is displayed, enter correct port numbers.

----End

3.8 Date and Time

Description

On the **Date and Time** page, you can modify the date and time. Parameters that can be set include:

- Time zone and daylight saving time (DST)
- Date and time
- Network Time Protocol (NTP) server

Procedure

Step 1 Choose Configuration > Device > Date and Time.

The Date and Time page is displayed, as shown in Figure 3-8. Table 3-8 describes the parameters.

Figure 3-8 Date and Time page

韋 Date and Time

Time Zone	(GMT) Greenwich Mean Time :	Dublin,	Edinburgh, L	isbon, Lond	lon▼
Daylight Savings Time				ON	
Begin Time	Mar	✔ 5th	∨ Sun	▶ 1:00	~
End Time	Oct	✔ 5th	✓ Sun	▶ 2:00	~
					*
Device Time			02/27/	2019 15:1	14:08
Current PC Time			02/27/2019 1	15:11:08	
Set Manually			02/27/2019 1	5:13:24	~
NTP				ON	
NTP Server Addr					-
NTP Port			123		
Check the time interval(greater than 10s)			3600		
					~
				Refre	sh

Parameter	Description	Setting
Time Zone	N/A	[Setting method] Select a value from the drop- down list box. [Default value] Greenwich mean time
Daylight Saving Time	 When the DST start time arrives, the device time automatically goes forward one hour. When the DST end time arrives, the device time automatically goes backward one hour. NOTE DST is the practice of advancing clocks so that evenings have more daylight and mornings have less. Currently, about 110 countries in the world use DST. Different countries have different DST provisions. Since March 27, 2011, Russia has started to use permanent DST. 	[Setting method] Click the button on to enable Daylight Saving Time .
Device Time	Device display time.	[Setting method]Synchronize the time from the PC.Enter a value manually.
Current PC Time	Time on the current PC.	N/A
Set Manually	Enables you to manually set the device time.	[Setting method] Click Set Manually and set the date and time in the format <i>YYYY-MM-DD</i> <i>HH:MM:SS</i> .
NTP	IP address or domain name of the NTP server.	[Setting method] Click the button on to enable NTP and enter a value manually.
NTP Server Addr	The NTP server IP.	[Setting method] Enter a value manually.
NTP Port	Port number of the NTP server.	[Setting method] Enter a value manually. [Default value] 123
Check the time interval(at least 10 s)	Set time interval to check if the device time synchronizes with the NTP server time.	[Setting method] Enter a value manually. [Default value] 3600

 Table 3-8
 Date and Time parameters

- Step 2 Select a time zone from the Time Zone drop-down list box.
- Step 3 (Optional) Click the button on to enable Daylight Saving Time and specify the DST start time and end time.

Step 4 Modify the device time.

- Synchronizing time from the PC
 - Click Current PC Time.
- Manually setting the device time
 - Click Set Manually.
 - A time setting control is displayed.
 - Set the date and time.

Step 5 Configure the NTP.

- 1. Click the button on to enable **NTP**.
- 2. Enter the IP address or domain name of the NTP server, the port number and the time interval.

Step 6 Click .

The message "Apply success!" is displayed and the system saves the settings.

----End

3.9 Camera

Procedure

Step 1 Choose Configuration > Device > Camera.

The **Camera** page is displayed, as shown in Figure 3-9. Table 3-9 describes the parameters.

```
Figure 3-9 Camera page

Channel Name

Video System

PAL

✓

Video Refresh Frequency

Refresh
```

Parameter	Description	Setting
Channel Name	Channel name within the length of 0 to 32 bytes.	[Setting method] Enter a value manually.

Parameter	Description	Setting
Video System	 The options are as follows: PAL: Used in Europe and China mainland, India, Pakistan, etc. NTSC: Used in USA ,Japan, South Korea, and Taiwan Province of China, etc. 	[Setting method] Select a value from the drop- down list box. [Default value] PAL NOTE Whether the video system can be changed depends on the
Video Refresh Frequency	 The options are as follows: 50 Hz: corresponds to the PAL system. 60 Hz: corresponds to NTSC system. 	device model. [Setting method] Corresponds to the video system.

Step 2 Enter a channel name.

The channel name must be within the length of 0 to 32 bytes, it is combined with digital and character (except for some special character, such as $< > \% \& \,=+|$).

Step 3 Click .

The message "Apply success!" is displayed.

If the video system is modified, the message "The device will be restart, are you sure to modify?" is displayed, and the system automatically saves the settings. The settings take effect after the device restarts.

----End

3.10 OSD

Description

The on-screen display (OSD) function allows you to display the device name, channel ID and name, time, and other customized contents on videos.

- When the resolution is D1 and CIF, the OSD customized in web interface can show at most 22 words normally.
- The OSD support simplified Chinese, English, digital and some special character only.

Procedure

Step 1 Choose Configuration > Device > OSD.

The OSD page is displayed, as shown in Figure 3-10.

Figure 3-10 OSD page

🖻 OSD

Time 02_27 15:23:05 Wed Channel0707	PTZ Position		Align Left▼	Time
5730MDR	PTZ Temperature		Align Left▼	PTZ Position
			Align Left▼	PTZ Action
			Align Left▼	PTZ Temperature
		Custo	m OSD Align Left▼	Channel07
Carlon March in the strate	the state as a second second as the state in the		Align Left	5730MDR
State Party			Align Left T	
			Align Left▼	

	Advanced
Time Format	YYYY-MM-DD hh:mm:ss ww
Font Color	\checkmark
Font Size	Mid
Font Transparency	Opaque
Font On lighted back	ON
Device Name	OFF
PTZ Position	ON
PTZ Action	ON
PTZ Temperature	ON

Step 2 Set the parameters according to Table 3-10.

• There are at most six OSD display areas..

Table 3-10 OSD parameters

Parameter	Description	Setting
Time	Indicates whether to display the time.	[Setting method] Tick the time.
Focusing on the state	Displays the state of focusing on. NOTE: Only applied for camera of auto focusing lens.	[Setting method] Tick the Focusing on the state.
Custom OSD	Enables you to enter a line of characters.	 [Setting method] 1. Tick the custom OSD list. 2. Enter the characters. Click solution to save the value.

Parameter	Description	Setting
Time Format	Format in which the time is displayed.	[Setting method] Select a value from the drop- down list box. [Default value] YYYY-MM-DD hh:mm:ss ww
Font Color	Set the font color.	[Setting method] Select a value from the drop- down list box. [Default value] Blank
Font Size	Set the font size.	[Setting method] Select a value from the drop- down list box. [Default value] Mid
Font Transparency	Set the font transparency.	[Setting method] Select a value from the drop- down list box. [Default value] Opaque
Font on lighted back	Enable the font on lighted back.	[Setting method] Click the button on to enable Font on lighted back .
Device Name	Indicates whether to display the device name.	[Setting method] Click the button on to enable Device Name

Step 3 Click Advanced, set the parameter of "Time Format", "Font Color", "Font Transparency", "Font on lighted back"

Step 4 Click Apply.

The message "Apply success!" is displayed And the system saves the settings.

----End

3.11 Microphone

Description

On the Microphone page, you can set the microphone input mode and volume.

Procedure

Step 1 Choose Configuration > Device > Microphone.

The Microphone page is displayed, as shown in Figure 3-11. Table 3-11 describes the parameters.

Figure 3-11 Microphone page

Microphone	ON
Microphone Type	Internal
Microphone Volume	+ [

Parameter	Description	Setting
Enable Microphone	Indicates whether to enable the microphone function.	[Setting method] Click the button on to enable microphone.
Microphone Type	Microphone types include: • Line In An active audio input is required.	[Setting method] Select a value from the drop- down list box.
Microphone Volume	Allows you to adjust the microphone volume.	[Setting method] Slide the slider left or right.[Default value] 50 NOTE The value ranges from 0 to 100.

Step 2 Click Apply.

The message "Apply success!" is displayed. And the system saves the settings.

----End

3.12 Dome PTZ

Description

This function only used for dome cameras.

Procedure

Step 1 Choose Configuration > Device > Dome PTZ.

The **Dome PTZ** page is displayed, as shown in Figure 3-12.

Figure 3-12 Dome PTZ page

🖻 Dome PTZ

Refresh	ľ

Step 2 Set the PTZ address

Step 3 Click Apply.

The message "Apply success!" is displayed. And the system saves the settings.

- The PTZ address should keep the same address with the actual PTZ .
- The value of PTZ address ranges from 1 to 255.

3.13 Analog Output Function

Preparation

Connect a display device to the VIDEO OUT port.

Description

When the analog output function is enabled, the IP camera can send analog signals to a video server or display device through the VIDEO OUT port.

Procedure

Step 1 Choose Configuration > Device > CVBS.

The **BNC Video Output** page is displayed, as shown in Figure 3-13.

Figure 3-13 BNC Video Output page

🖻 BNC Video Output

BNC Video Output	ON
IP Show	ON

Refresh

Apply

Step 2 Click the button on to enable BNC Video Output.

Step 3 Click Apply.

The message "Apply success!" is displayed. And the system saves the settings.

----End

3.14 System Service

Procedure

4

Step 1 Choose Configuration > Device > System.

The System Service page is displayed, as shown in Figure 3-14.

Figure 3-14 System Service page

Language	English
Neb Mode	HTTP

Step 2 Select an language from the Language drop-down list box.

Step 3 Click *M*, the message "Apply success" is displayed.

Step 4 Click OK, the system saves the settings.

Step 5 Select a Web Mode from the Web Mode drop-down list box.

Step 6 Click 🥙 , the message "This operation will lead to the device to restart, continue?" is displayed.

Step 7 Click OK, the device restarts and saves the settings automatically.

----End

3.15 Video Denoise

Description

On the **Voice Denoise** page, you can enable the Voice Denoise to reduce the effect of external environmental noise on the built-in MIC.

Procedure

Step 1 Choose Configuration > Device > Voice Denoise

The Voice Denoise page is displayed, as shown in Figure 3-15.

Figure 3-15 Voice Denoise page

/oice Denoise	

Step 2 Click the Voice Denoise button to enable the Voice Denoise.

Step 3 Click Apply.

The message "Apply success" is displayed, the system saves the setting.

----End

3.16 Software Licenses

Procedure

Step 1 Click Configuration > Device > Software Licenses.

The Software Licenses page is displayed, as shown in Figure 3-16.

Figure 3-16 Software licenses page

🚖 Software Licenses

Open Source Software Licenses

Step 2 Click the view licenses, you can view the open source software licenses.

----End

View Licenses

Configure Intelligent Analysis

4.1 Advane Settings

After logging in to the device, select **Intelligent Analysis** > **Advanced** to access the **Advanced** setting interface, as shown in Figure 4-1.

Figure 4-1 Advanced Parameter Setting Interface

🖻 Advanced





Scene Setting

You can set scene of camera, ID, real size in scene and depth of field validate on Scene settings. Table 4-1 describes the specific parameters

Parameter	Description	Setting
Scene	The scene which camera installed. Select	[How to set]
	indoor/outdoor base on the Environment.	Select from the drop- down list.
		[Default value]
		Outdoor
ID	Mark the line base on the ID of line, select the according line by the ID.	[How to set] Select from the drop- down list.
Real Size in scene (cm)	Length of line according to the real size in scene. The default value is 0 and the setting value is 10-10000 centimeters.	[How to set] Input a value in the area box. [Default value] 0
Depth of field validate	Validate the size of setting area in the scene according the marking line.	[How to set] Click and Input a value in the area box.

Set methods and rules

Set advanced parameters before setting function parameters. Draw lines in advanced parameters Interface so that the true object has a mapping relation with the image object. The method and rules for drawing line as below:

• 2-4 vertical lines or 2 vertical lines and 2 ground lines need to be entered.

• In the case of low marking requirement, two vertical lines can meet most scene requirements. Normally, the vertical line is marked based on person height.

• The lines are distributed near and far. Two vertical lines are in the scene, one near and the other far. On the screen, draw a vertical line along the target object height, measure the actual length of this target, and enter the actual length in **Real Size in Scene** box for saving. Similarly, two horizontal lines on the ground are in the scene, one near and the other far. Measure and enter the actual length.

• Click a marking line (turning red after clicking)and click **Delete** to delete the marking line

• Click a marking line (turning red after clicking), to modify the marking line data. You can also modify the line parameters by selecting a number and enter the actual size in **Real Size in Scene** box on the advanced parameter interface.

4.2 Perimeter

Description

The perimeter function refers to that an alarm is generated when the targets of specified types (such as person, car, and both person and car) enter the deployment area.

Procedure

Step 1 Select Intelligent Analysis > Perimeter to access the Perimeter interface, as shown in Figure 4-2

		and the second s	/	the second				1					24		Ena	ble								ON	~
		1			A							32			Lim	it Ta	arget	Тур	e					OFF	
		5			N.	No. of the second secon	=	and the second							Lim	it Ta	arget	Size	е					OFF	
Sec. 1					2	G	32	as lat							Upl	oad	Targ	get Ir	nfo					OFF	
						*	1.22		R		1		(6.5 J		Out	put	Char	nnel						□1 □ 2	
					*****		-	in de							Ala	rm F	Reco	rd						OFF	
				and a second	4	8		-	-						SM	TP								OFF	
						ir -					Clea	ar			FTF	, Ub	load						[OFF	~
					253		1.11		3535	2260							13/5		1.111	222577	1994		2233	-	
(S) (S)	0 :	. 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
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	1																								
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Fri 🔄																									
Fri 🔇																									

Figure 4-2 Perimeter Setting Interface

Step 2 Set all parameters for perimeter. Table 4-2 describes the specific parameters.

Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click Enable to enable. [Default value] OFF

Parameter	Description	Setting				
Limit Target Type	Effective alarms are set based on target type, with options of Person or Car, person, car. When the device is used indoors, because of small space and large targets, alarms are triggered by person sometimes even if car is selected, leading to false alarms. It is recommended to set the target type to person for indoor use.	[How to set] Click to enable Limit Target Type. [Default value] OFF				
Limit Target Size	The target size for triggering an effective alarm is set based on the actual target size. The minimum size is 1000 square centimeters and the maximum size is 100000 square centimeters. When setting the target size, you need to well set "Real size in scene" in advanced parameters, otherwise no alarms may be generated.	[How to set] Click to enable Limit Target Size. [Default configuration] OFF				
Upload Target Info	Enable the function of uploading target information by clicking below the real- time video in a browser to turn within the when an alarm is triggered, the target movement trace can be displayed (The trace can be seen only within the deployment area and disappears after the target leaves the deployment area).	[How to set] Click to enable Upload Target Info. [Default value] OFF				
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.				
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF				
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5 Details please refer to chapter 10.5 Details please refer to <i>chapter 10.5</i>	[How to set] Click to enable SMTP. [Default value] OFF				
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6. Details please refer to <i>chapter 10.6</i>	[How to set] Click to enable FTP Upload. [Default value] OFF				
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF				

Parameter	Description	Setting
Video Stream	Enable the button, the draw line will show at	[How to set]
Draw Line	live video when the stream is stream 2.	Click to enable Video
		Stream Draw Line.
		[Default value]
		OFF

Step 3 Set a deployment area

Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing, as shown in Figure 4-3.

Figure 4-3 Deployment Area Setting Interface



- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 8 sides at most can be drawn.
- The quantity of deployment areas is not limited yet and will be described in future when a limit is applied.

Step 4 Set deployment time

Method 1 : Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday as shown in Figure 4-4.

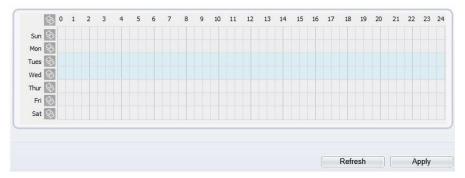
Method 2: Hold down the left mouse button, drag and release mouse to select the deployment time within 0:00-24:00 from Monday to Sunday.

When you select time by dragging the cursor, the cursor cannot be moved out of the time area. Otherwise, no time can be selected.

Method 3 : Click in the deployment time page to select the whole day or whole week.

Deleting deployment time: Click 🚳 again or inverse selection to delete the selected deployment time.

Figure 4-4 Deployment Time Setting Interface



----End

4.3 Single Virtual Fence

Description

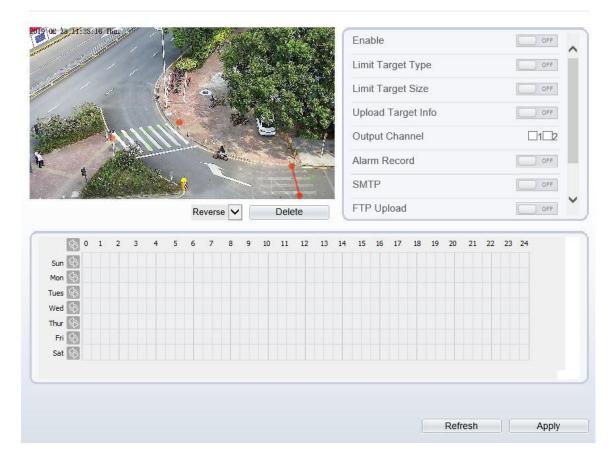
A single virtual fence is a line that is set at a concerned position within the monitored field of view and specifies the forbidden travel direction, an alarm is generated when the targets of specified types (such as person or car) cross this line.

Procedure

Step 1 Select Intelligent Analysis > Single Virtual Fence to access the Single Virtual Fence setting interface, as shown in Figure 4-5.

Figure 4-5 Single Virtual Fence Setting Interface

🚖 Single Virtual Fence



Step 2 Set all parameters for the single virtual fence. Table 4-3 describes the specific parameters.

Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click Enable to enable . [Default value] OFF
Limit Target Type	Effective alarms are set based on target type, with options of Person or Car, person, car. When the device is used indoors, because of small space and large targets, alarms are triggered by person sometimes even if car is selected, leading to false alarms. It is recommended to set the target type to person for indoor use.	[How to set] Click to enable Limit Target Type. [Default value] OFF
Limit Target Size	The target size for triggering an effective alarm is set based on the actual target size. The minimum size is 1000 square centimeters and the maximum size is 100000 square centimeters. When setting the target size, you need to well set "Real size in scene" in advanced parameters, otherwise no alarms may be generated.	[How to set] Click to enable Limit Target Size. [Default configuration] OFF

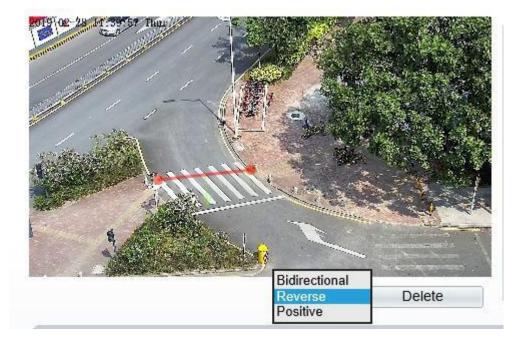
Table 4-3	Description of	Parameters for	Single	Virtual Fence
			~	

Parameter	Description	Setting
Upload Target Info	Enable the function of uploading target information by clicking below the real- time video in a browser to turn into . When an alarm is triggered, the target movement trace can be displayed (The trace can be seen only within the deployment area and disappears after the target leaves the deployment area).	[How to set] Click to enable Upload Target Info. [Default value] OFF
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6.	[How to set] Click to enable FTP. [Default value] OFF
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF
Video Stream Draw Line	Enable the button, the draw line will show at live video when the stream is stream 2.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

Step 3 Set a deployment area

Drawing a line: move the cursor to the drawing interface, hold down the left mouse button, and move the cursor to draw a line. When you release the left mouse button, a single virtual fence is generated.

Setting a single virtual fence: click a line (and the trip line turns red) to select the single virtual fence and set its direction as **positive**, **reverse** or **bidirectional**, or **delete the selected** line. You can also press and hold left mouse button at the endpoint of a single virtual fence and move the mouse to modify the position and length of this single virtual fence. You can right-click to delete the single virtual fence, as shown in Figure 4-6.



- A single virtual fence is not within any deployment area, therefore, when an alarm is generated, the trace always exists. Only when the target object moves out of the field of view, the trace disappears.
- Try to draw the single virtual fence in the middle, because the recognition of a target takes time after target appearance on the screen and an alarm is generated only when the object is recognized to have crossed the single virtual fence.
- The single virtual fence which detects person foot as the recognition target cannot be too short, because a short single virtual fence tends to miss targets.

Step 4 Set deployment time

Details please refer to 4.2 Step 4

----End

4.4 Double Virtual Fences

Description

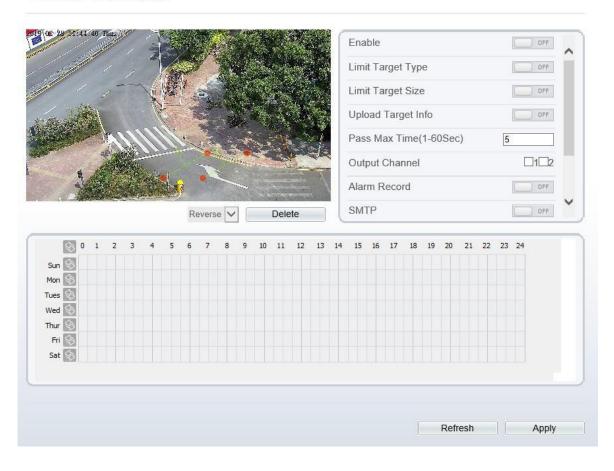
Double virtual fences refer to two lines that are set at a concerned special position within the field of view and specify the forbidden travel direction. when the targets of specified types (such as person or car) move along the set travel direction and cross these lines in a certain order (line 1 followed by line 2) in pass max time, an alarm is generated.

Procedure

Step 1 Select Intelligent Analysis > Double Virtual Fences to access the Double Virtual Fences setting interface, as shown in Figure 4-7.

Figure 4-7 Double Virtual Fences Setting Interface

🚖 Double Virtual Fences



Step 2 Set all parameters for the double virtual fences. Table 4-4 describes the specific parameters.

Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click to enable. [Default value] OFF
Limit Target Type	Effective alarms are set based on target type, with options of Person or Car, person, car. When the device is used indoors, because of small space and large targets, alarms are triggered by person sometimes even if car is selected, leading to false alarms. It is recommended to set the target type to person for indoor use.	[How to set] Click to enable Limit Target Type. [Default value] OFF
Limit Target Size	The target size for triggering an effective alarm is set based on the actual target size. The minimum size is 1000 square centimeters and the maximum size is 100000 square centimeters. When setting the target size, you need to well set "Real size in scene" in advanced parameters; otherwise no alarms may be generated.	[How to set] Click to enable Limit Target Size. [Default configuration] OFF

Table 4-4 Description of	Parameters for Double	Virtual Fence
----------------------------------	-----------------------	---------------

Parameter	Description	Setting
Upload Target Info	Enable the function of uploading target information by clicking below the real- time video in a browser to turn into . When an alarm is triggered, the target movement trace can be displayed (The trace can be seen only within the deployment area and disappears after the target leaves the deployment area).	[How to set] Click to enable Upload Target Info. [Default value] OFF
Pass Max Time (Sec)	An alarm is generated only when the time taken to cross the double virtual fences is less than the value. The default value is 10 seconds and the setting range is 1-60 seconds.	[How to set] Input a value in the area box.
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6.	[How to set] Click to enable FTP. [Default value] OFF
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF
Video Stream Draw Line	Enable the button, the draw line will show at live video when the stream is stream 2.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

Drawing a line: Move the cursor to the drawing interface, hold down the left mouse button, and move the cursor to draw two lines. When you release the left mouse button, two numbered virtual fences are generated. Choose either of the double virtual fences to set the direction to Positive or Reverse.

Setting double virtual fences: Click one of the double virtual fences (and the virtual fence turns red) to select this virtual fence and set the direction to **Positive** or **Reverse**, or delete the selected line. You can also press and hold left mouse button at the endpoint of a virtual fence and move the mouse to modify the position and length of this virtual fence. You can right-click to delete the double virtual fences, as shown in Figure 4-8.



Figure 4-8 Deployment Area Setting Interface

- The two virtual fences are in sequential order. An alarm is generated only when a target crosses virtual fence 1 and then virtual fence 2 within the set maximum passing time.
- The double virtual fences are not within any deployment area, therefore, when an alarm is generated, the trace always exists. Only when the target object moves out of the field of view, the trace disappears.
- Try to draw double virtual fences in the middle, because the recognition of a target takes time after target appearance on the screen and an alarm is generated only when the object is recognized to have crossed the double virtual fences.
- The double virtual fences which detect person foot as the recognition target cannot be too short, because short double virtual fences tend to miss targets.

Step 4 Set deployment time

Details please refer to 4.2 Step 4

----End

4.5 Loiter

Description

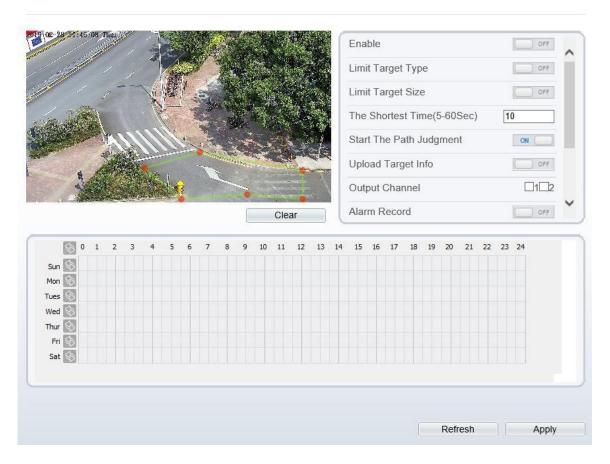
Loiter allows setting the shortest loitering time for a (single) target of specified type (such as person or car) within the deployment area in the field of view. When the loitering time of a (single) target within this area meets the set shortest loitering time, an alarm is generated.

Procedure

Step 1 Select **Intelligent Analysis** > **Loiter** to access the **Loiter** setting interface, as shown in Figure 4-9.

Figure 4-9 Loiter Setting Interface

Loiter



Step 2 Set all parameters for loitering. Table 4-5 describes the specific parameters.

Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click Enable to enable . [Default value] OFF
Limit Target Type	Effective alarms are set based on target type, with options of Person or Car, person, car. When the device is used indoors, because of small space and large targets, alarms are triggered by person sometimes even if car is selected, leading to false alarms. It is recommended to set the target type to person for indoor use.	[How to set] Click to enable Limit Target Type. [Default value] OFF
Limit Target Size	The target size for triggering an effective alarm is set based on the actual target size. The minimum size is 1000 square centimeters and the maximum size is 100000 square centimeters. When setting the target size, you need to well set "Real size in scene" in advanced parameters, otherwise no alarms may be generated.	[How to set] Click to enable Limit Target Size. [Default configuration] OFF

 Table 4-5
 Loitering Parameter Description

Parameter	Description	Setting
The Shortest Time (Sec)	The time that a target object spends in loitering cannot be less than the shortest loitering time. Setting range: 5-60 seconds.	[How to set] Input a value in the area box. [Default value] 10 s
Start the Path Judgment	The enabling of path analysis makes loitering judgment accurate by using the software algorithm, for example, no alarm is generated when a person walks along a straight line if the button set ON .	[How to set] Click to enable Start the Path Judgment and enable path analysis.
Upload Target Info	Enable the function of uploading target information by clicking below the real- time video in a browser to turn into into When an alarm is triggered, the target movement trace can be displayed (The trace can be seen only within the deployment area and disappears after the target leaves the deployment area).	[How to set] Click to enable Upload Target Info. [Default value] OFF
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6.	[How to set] Click to enable FTP. [Default value] OFF
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF
Video Stream Draw Line	Enable the button, the draw line will show at live video when the stream is stream 2.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing, as shown in Figure 4-10.

Figure 4-10 Deployment Area Setting Interface



- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 8 sides at most can be drawn .
- The quantity of deployment areas is not limited yet and will be described in future when a limit is applied.

Step 4 Set deployment time

Details please refer to 4.2 Step 4.

----End

4.6 Multiple Loiter

Description

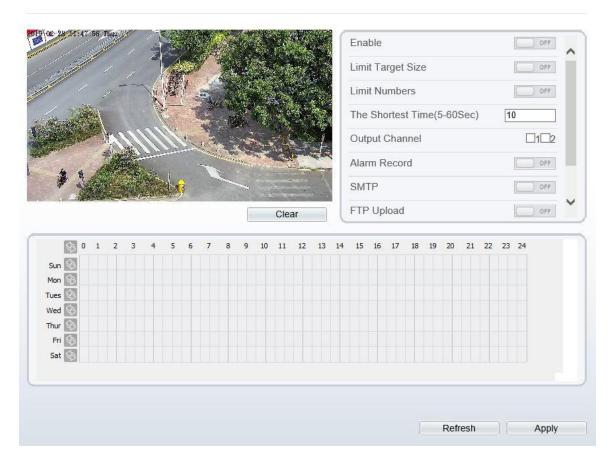
Multiple loiter allows setting the shortest loitering time for multiple targets of specified type (such as person or car) within the deployment area in the field of view. When the loitering time of the multiple targets within this area meets the set shortest loitering time, an alarm is generated.

Procedure

Step 1 Select Intelligent Analysis > Multi Loiter to access the Multi Loiter setting interface, as shown in Figure 4-11.

Figure 4-11 Multi Loiter Setting Interface

🖻 Multi Loiter



Step 2 Set all parameters for multiple loitering. Table 4-6 describes the specific parameters.

Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click Enable to enable . [Default value] OFF
Limit Target Size	The target size for triggering an effective alarm is set based on the actual target size. The minimum size is 1000 square centimeters and the maximum size is 100000 square centimeters. When setting the target size, you need to well set "Real size in scene" in advanced parameters, otherwise no alarms may be generated.	[How to set] Click to enable Limit Target Size. [Default configuration] OFF
Limit Numbers	When Limit Numbers is set to OFF, an alarm is generated no matter how many people loiter. When Limit Numbers is set to ON, if the minimum number is set to 2 and the maximum number is set to 3, an alarm is generated for 2-3 people loitering. Other settings are the same as loitering.	[How to set] Click to enable Limit Numbers.

 Table 4-6
 Multiple Loitering Parameter Description

Parameter	Description	Setting
The Shortest Time (Sec)	The time that a target object spends in loitering cannot be less than the shortest loitering time. Setting range: 5-60 seconds.	[How to set] Input a value in the area box. [Default value] 10s
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6.	[How to set] Click to enable FTP Upload. [Default value] OFF
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF
Video Stream Draw Line	Enable the button, the draw line will show at live video when the stream is stream 2.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing, as shown in Figure 4-12.

Figure 4-12 Deployment Area Setting Interface



- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 8 sides at most can be drawn .
- The quantity of deployment areas is not limited yet and will be described in future when a limit is applied.

Step 4 Set deployment time

Details please refer to 4.2 Step 4.

----End

4.7 Object Left

Description

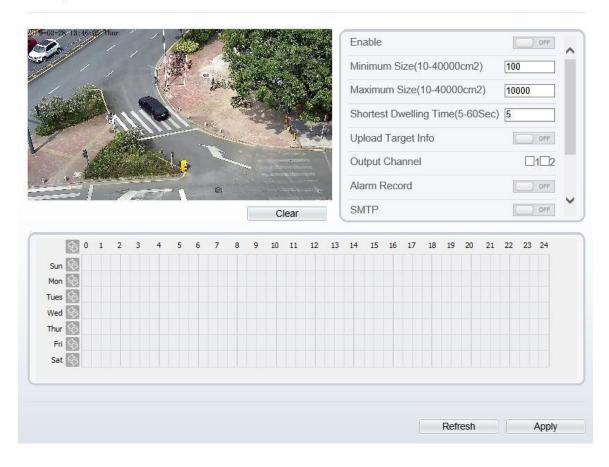
The object left function refers to that an alarm is generated when the dwelling time of an object within the deployment area meets the set shortest dwelling time.

Procedure

Step 1 Select Intelligent Analysis > Object Left to access the Object Left setting interface, as shown in Figure 4-13.

Figure 4-13 Object Left Setting Interface

Ż Object Left



Step 2 Set all parameters for object left. Table 4-7 describes the specific parameters.

Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click Enable to enable . [Default value] OFF
Minimum (Maximum) Size(cm²)	The target size for triggering an effective alarm is set based on the actual target size. The minimum size is 100 square centimeters and the maximum 10000 square centimeters. When setting the target size, you need to well set "Real size in scene" in advanced parameters, otherwise no alarms may be generated.	[How to set] Input a value in the area box.
Shortest Dwelling Time (Sec)	An alarm is generated when the object left time is longer than the shortest dwelling time. Setting range: 5-60 seconds.	[How to set] Input a value in the area box. [Default value] 5s

 Table 4-7 Description of Parameters for Object Left

Upload Target Info	Enable the function of uploading target information by clicking below the real- time video in a browser to turn into into When an alarm is triggered, the target movement trace can be displayed (The trace can be seen only within the deployment area and disappears after the target leaves the deployment area).	[How to set] Click to enable Upload Target Info. [Default value] OFF
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6.	[How to set] Click to enable FTP Upload. [Default value] OFF
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF
Video Stream Draw Line	Enable the button, the draw line will show at live video when the stream is stream 2.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing, as shown in Figure 4-14.

Figure 4-14 Deployment Area Setting Interface



- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 8 sides at most can be drawn.
- The quantity of deployment areas is not limited yet and will be described in future when a limit is applied.

Step 4 Set deployment time

Details please refer to 4.2 Step 4.

----End

4.8 Object Removed

Description

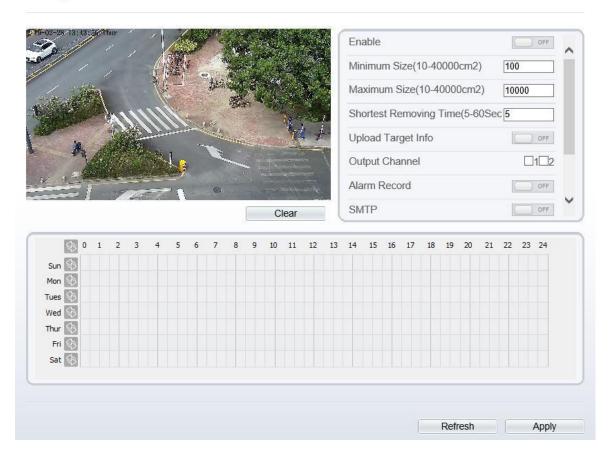
The object removed function refers to that an alarm is generated when the removing time of an object within the deployment area meets the set shortest removing time.

Procedure

Step 1 Select Intelligent Analysis > Object Removed to access the Object Removed setting interface, as shown in Figure 4-15.

Figure 4-15 Object Removed Setting Interface Setting Interface

🕏 Object Removed



Step 2 Set all parameters for object removed. Table 4-8 describes the specific parameters.

Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click Enable to enable . [Default value] OFF
Minimum (Maximum) Size(cm ²)	The target size for triggering an effective alarm is set based on the actual target size. The minimum size is 100 square centimeters and the maximum 10000 square centimeters. When setting the target size, you need to well set "Real size in scene" in advanced parameters, otherwise no alarms may be generated.	[How to set] Input a value in the area box.
Shortest Removing Time (Sec)	An alarm is generated when the object removed time is longer than the shortest removing time. Setting range: 5-60 seconds.	[How to set] Input a value in the area box. [Default value] 5s

 Table 4-8 Description of Parameters for Object Removed

Parameter	Description	Setting
Upload Target Info	Enable the function of uploading target information by clicking below the real-time video in a browser to turn into into into into into into into int	[How to set] Click to enable Upload Target Info. [Default value] OFF
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6.	[How to set] Click to enable FTP Upload. [Default value] OFF
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF
Video Stream Draw Line	Enable the button, the draw line will show at live video when the stream is stream 2.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing, as shown in Figure 4-16

Figure 4-16 Deployment Area Setting Interface



- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 8 sides at most can be drawn .
- The quantity of deployment areas is not limited yet and will be described in future when a limit is applied.

Step 4 Set deployment time

----End

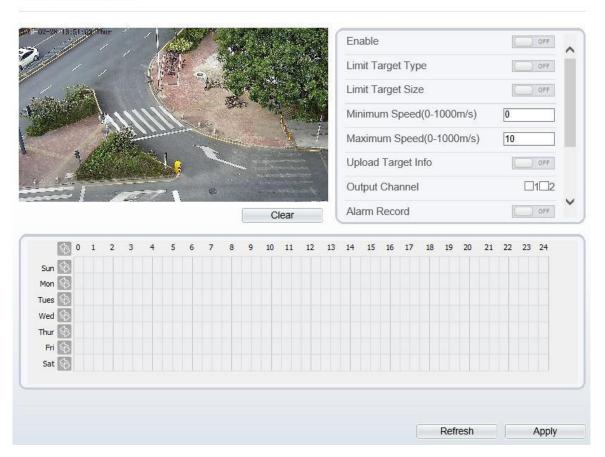
4.9 Abnormal Speed

Description

Abnormal speed allows setting the travel speed criteria for a target within the deployment area on the video screen. When the travel speed of a target of specified type (such as person or car) within this area meets the alarm condition, an alarm is generated.

Procedure

Step 1 Select Intelligent Analysis > Abnormal Speed to access the Abnormal Speed setting interface, as shown in Figure 4-17.



🖻 Abnormal Speed

Step 2 Set all parameters for the abnormal speed. Table 4-9 describes the specific parameters.

Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click Enable to enable . [Default value] OFF
Limit Target Type	Effective alarms are set based on target type, with options of Person or Car, person, car. When the device is used indoors, because of small space and large targets, alarms are triggered by person sometimes even if car is selected, leading to false alarms. It is recommended to set the target type to person for indoor use.	[How to set] Click to enable Limit Target Type. [Default value] OFF
Limit Target Size	The target size for triggering an effective alarm is set based on the actual target size. The minimum size is 1000 square centimeters and the maximum 100000 square centimeters. When setting the target size, you need to well set "Real size in scene" in advanced parameters, otherwise no alarms may be generated.	[How to set] Click to enable Limit Target Size. [Default configuration] OFF

 Table 4-9 Description of Parameters for Abnormal Speed

Parameter	Description	Setting
Minimum (Maximum) Speed (m/s)	Set prohibited speeds. When a target object crosses an area at a speed between the minimum and maximum speeds, an alarm is generated. Setting range: 0-10 m/s.	[How to set] Input a value in the area box.
Upload Target Info	Enable the function of uploading target information by clicking below the real-time video in a browser to turn into into into when an alarm is triggered, the target movement trace can be displayed (The trace can be seen only within the deployment area and disappears after the target leaves the deployment area).	[How to set] Click to enable Upload Target Info. [Default value] OFF
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6.	[How to set] Click to enable FTP Upload. [Default value] OFF
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF
Video Stream Draw Line	Enable the button, the draw line will show at live video when the stream is stream 2.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing, as shown in Figure 4-18.

Figure 4-18 Deployment Area Setting Interface



- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 8 sides at most can be drawn .
- The quantity of deployment areas is not limited yet and will be described in future when a limit is applied.

Step 4 Set deployment time

Details please refer to 4.2 Step 4.

----End

4.10 Converse

Description

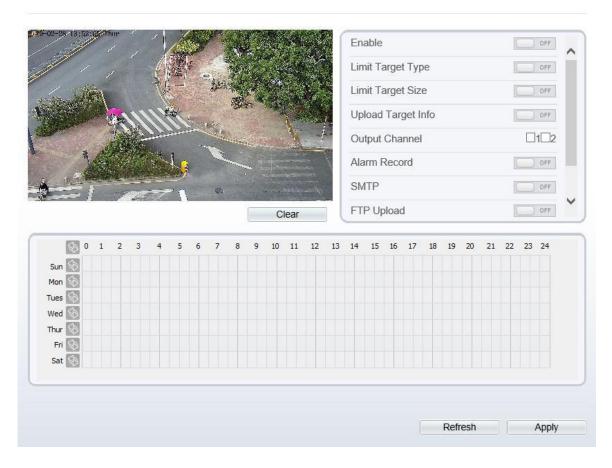
Converse allows setting the travel direction criteria for a target within an area on the video screen. When a target of specified type (such as people or car) within this area moves in the set travel direction, an alarm is generated.

Procedure

Step 1 Select **Intelligent Analysis** > **Converse** to access the **Converse** setting interface, as shown in Figure 4-19.

Figure 4-19 Converse Setting Interface

2 Converse



Step 2 Set all parameters for converse. Table 4-10 describes the specific parameters.

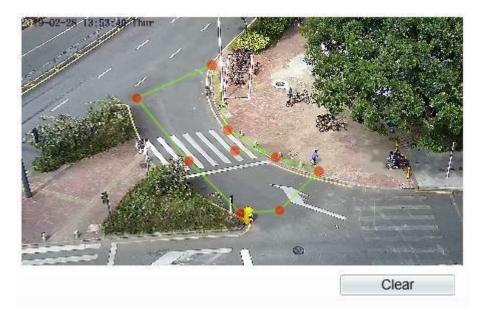
Table 4-10 Converse Parameter Description	otion
---	-------

Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click Enable to enable . [Default value] OFF
Limit Target Type	Effective alarms are set based on target type, with options of Person or Car, person, car. When the device is used indoors, because of small space and large targets, alarms are triggered by person sometimes even if car is selected, leading to false alarms. It is recommended to set the target type to person for indoor use.	[How to set] Click to enable Limit Target Type. [Default value] OFF
Limit Target Size	The target size for triggering an effective alarm is set based on the actual target size. The minimum size is 1000 square centimeters and the maximum size is 100000 square centimeters. When setting the target size, you need to well set "Real size in scene" in advanced parameters, otherwise no alarms may be generated.	[How to set] Click to enable Limit Target Size. [Default configuration] OFF

Parameter	Description	Setting
Upload Target Info	Enable the function of uploading target information by clicking below the real-time video in a browser to turn into into into into into into into int	[How to set] Click to enable Upload Target Info. [Default value] OFF
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6.	[How to set] Click to enable FTP Upload. [Default value] OFF
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF
Video Stream Draw Line	Enable the button, the draw line will show at live video when the stream is stream 2.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing, move the arrow in the field can set the direction of converse. as shown in Figure 4-20.

Figure 4-20 Deployment Area Setting Interface



- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 8 sides at most can be drawn .
- The quantity of deployment areas is not limited yet and will be described in future when a limit is applied.

Step 4 Set deployment time

Details please refer to 4.2 Step 4.

----End

4.11 Illegal Parking

Description

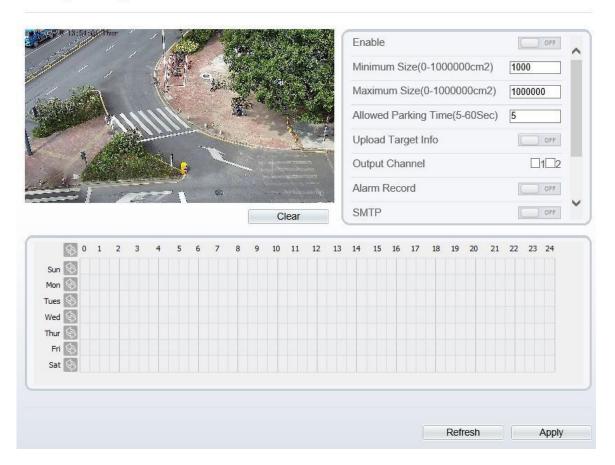
Illegal parking allows setting the dwelling time criteria for a target within the deployment area on the video screen. When the dwelling time of a target of specified type (car) within this area meets the set allowed parking time, an alarm is generated.

Procedure

Step 1 Select **Intelligent Analysis** > **Illegal Parking** to access the **Illegal Parking** setting interface, as shown in Figure 4-21.

Figure 4-21 Illegal Parking Setting Interface

🚖 Illegal Parking



Step 2 Set all parameters for illegal parking. Table 4-11 describes the specific parameters.

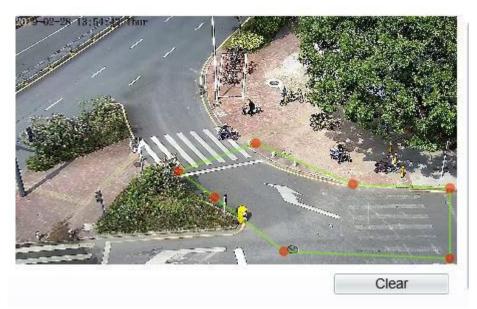
Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click Enable to enable . [Default value] OFF
Minimum (Maximum) Size(cm ²)	The target size for triggering an effective alarm is set based on the actual target size. The default value is minimum size is 1000 square centimeters and the maximum size is 1000000 square centimeters. When setting the target size, you need to well set "Real size in scene" in advanced parameters, otherwise no alarms may be generated.	[How to set] Input a value in the area box.
Allowed parking time(Sec)	An alarm is generated when the object left time is longer than the shortest dwelling time. Setting range: 5-60 seconds.	[How to set] Input a value in the area box. [Default value] 5

Table 4-11	Description	of Parameters	for Illegal	Parking

Parameter	Description	Setting
Upload Target Info	Enable the function of uploading target information by clicking below the real-time video in a browser to turn into into into into into into into int	[How to set] Click to enable Upload Target Info. [Default value] OFF
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6.	[How to set] Click to enable FTP Upload. [Default value] OFF
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF
Video Stream Draw Line	Enable the button, the draw line will show at live video when the stream is stream 2.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing, as shown in Figure 4-22

Figure 4-22 Deployment Area Setting Interface



- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 8 sides at most can be drawn .
- The quantity of deployment areas is not limited yet and will be described in future when a limit is applied.

Step 4 Set deployment time

Details please refer to 4.2 Step 4.

----End

4.12 Personnel Count

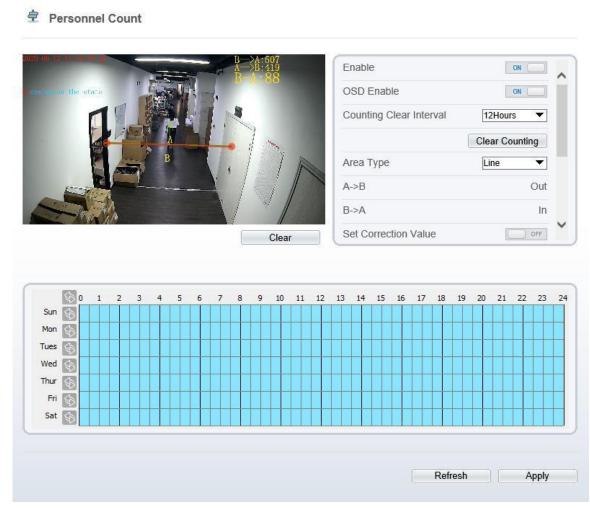
Description

User can draw line to count the personnel at the special area.

Procedure

Step 1 Select Intelligent Analysis > Personnel Count to access the Personnel Count setting interface, as shown in Figure 4-21.

Figure 4-23 Personnel count



Step 2 Set all parameters for illegal parking. Table 4-12 describes the specific parameters.

Table 4-12 Description of Parameters for Personnel Count

Parameter	Description	Setting
Enable	Enable the button to enable the alarm.	[How to set] Click Enable to enable . [Default value] OFF

Parameter	Description	Setting
OSD Enable	Enable the OSD, the count data will show on live video screen.	[How to set] Click Enable to enable . [Default value] OFF
Counting Clear Interval	The camera will clear counting data at the setting interval. Click the "Clear Counting", clearing the data immediately.	[How to set] Choose from drop- down list. [Default value] 12 hours
Area Type	Draw a line on live video screen. The label of A and B indicate out and in.	[How to set] Choose from drop- down list. [Default value] Line
Set Correction Value	Enable, set the count correction value, it can be positive or negative. For example, if there are 30 people enter the area before counting, input 30 to correct. If 30 people go out the area, input -30.	[How to set] Enable /Input a value in the area box. [Default value] 0
Over People Number Alarm	Enable, if the counting number is pass the threshold, it will alarm.	[How to set] Click Enable to enable . [Default value] OFF
Alarm Threshold	the threshold of enable alarm.	[How to set] Enable /Input a value in the area box. [Default value] 1000
Output Channel	If you check to set the Output Channel and the device is connected to an external alarm indicator, the alarm indicator signals when an alarm is triggered.	[How to set] Click to select an ID.
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF

Parameter	Description	Setting
SMTP	Enable the button to enable SMTP sever. Details please refer to chapter 10.5	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. Details please refer to chapter 10.6.	[How to set] Click to enable FTP Upload. [Default value] OFF
Trace Linkage	Enable the button to enable trace linkage, when the relevant behaviors are detected, the camera will trace the car or person until the object is disappear, then the camera come back the original position.	[How to set] Click to enable Trace Linkage. [Default value] OFF
Video Stream Draw Line	Enable the button, the draw line will show at live video when the stream is stream 2.	[How to set] Click to enable Video Stream Draw Line. [Default value] OFF

Move the cursor to the drawing interface and click to generate a point, move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing, as shown in Figure 4-22

5

Configure Intelligent Tracking

5.1 Intelligent Tracking

Description

This function only used for high speed dome.

Intelligent tracking is used to a certain algorithm for the basic features such as the position, shape, contour and color of the target. After comparing and matching with each frame of image, the position of the target in each frame of the video image is generated, and the motion track of the target is generated. The method performs real-time monitoring of targets and automatically controls the gimbal to track moving objects. The automatic target tracking function is that the dome camera can continuously track the moving target of the pre-made scene, and automatically adjusts the camera zoom focus according to the moving target distance, and the dome automatically returns to the preset scene when the moving target disappears.

Procedure

Step 1 Select Intelligent Analysis > Signal Bad to access the Signal Bad setting interface, as shown in Figure 5-1.

Figure 5-1 Intelligent Tracking Interface

ntelligent Tracking	OFF
Calibration Coefficient	+ 1
Frace Magnify	+ 7
Calibration Coefficient	+ 12

Step 2 Set all parameters for signal bad. Table 5-1 describes the specific parameters.

Parameter	Description	Setting
Enable	Enable the button to enable the intelligent tracking	[How to set] Click Enable to enable . [Default value] OFF
Calibration Coefficient	It is equivalent to a control coefficient, and real-time tracking doubling rate nonlinear positive correlation, usually the higher the installation height, the greater the calibration coefficient value; it ranges from 1 to 30	[Setting method] Drag the slider. [Default value] 1
Trace Magnify	It is the value of lens zoom, it has a large influence on the real-time tracking magnification,	[Setting method] Drag the slider. [Default value] 7
Time of Duration	The maximum time of a tracking period, it ranges from 0 to 300 s.	[Setting method] Drag the slider. [Default value] 120

 Table 5-1
 Description of Parameters for Intelligent Tracking

Step 3 Set deployment time

Details please refer to 4.2 Step 4.

----End

Configure External Devices

6.1 External PTZ Parameters

Description

When the IP camera connects to an external PTZ, you can set external PTZ parameters, such as PTZ Protocol, PTZ Address, Baud Rate, and Data Bits.

CAUTION

This function is available only to a camera connected to an external PTZ. The PTZ address must be set to the address of the external PTZ; otherwise, the external PTZ cannot be used.

Procedure

Step 1 Choose Configuration > External Device > PTZ.

The PTZ page is displayed, as shown in Figure 6-1.

Figure 6-1 PTZ page



Step 2 Set the parameters according to Table 6-1.

PTZ

Parameter	Description	Setting
PTZ	Enable this function if the device connects to an external PTZ. NOTE This check box is dimmed for an IP dome camera.	[Setting method] Click the button on to enable PTZ configuration.
PTZ Protocol	Protocol used by the external PTZ.	[Setting method]
PTZ Address	Address of the external PTZ.	Select a value from the drop-down list
Serial Port	The default value is COM1 .	box.
Baud Rate	Baud rate used by the external PTZ. The value ranges from 300 bit/s to 115200 bit/s. The default value is 4800 bit/s.	NOTE When configure the external PTZ parameters, these
Data Bits	The value must match the setting used by the external PTZ. It can be set to a value ranging from 4 to 8. Generally, the value is 8.	parameters, mese parameters must match the settings on the external PTZ.
Stop Bits	N/A	
Parity Verification	N/A	

 Table 6-1
 PTZ parameters

Step 3 Click Apply.

The message "Apply success!" is displayed, and the system saves the settings.

----End

7 Configure the Alarm Function

7.1 Alarm Output

Procedure

Step 1 Choose Configuration > Alarm > Alarm Output.

The Alarm Output page is displayed, as shown in Figure 7-1.

Figure 7-1 Alarm Output page

🛱 Alarm Output

larm	Outpu	ıt																		1						
Name																										
Valid Signal												C	Close				•									
Alarm Output Mode										Switch Mode 💌																
larm	Time((ms))(0:C	ontin	uous	5)														0	1					
Timing	g Alarr	n O	utpu	t																				ON		
	⊗ o	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Sun	Ś																									
Mon Tues	\$ @			_																						
Wed	2		- 234	-	10.54				1034 -										-		-		-		000	
	5	++																								
Fri	N N		- 23		1000														-		-		-		-	
Sat	Ś																									
/lanua	al cont	trol																1	Start			_	Sto	р		
Manua		trol																	Start				Sto	p		
																			Ref	rooh			^	pply		

Step 2 Set the parameters according to Table 7-1.

Parameter	Description	Setting
Alarm Output	ID of the alarm output channel. NOTE The number of alarm output channels depends on the device model.	[Setting method] Select a value from the drop-down list box. [Default value] 1
Name	Alarm output channel name.	[Value range] 0 to 32 bytes
Valid Signal	 The options are as follows: Close: An alarm is generated when an external alarm signal is received. Open: An alarm is generated when no external alarm signal is received. 	[Setting method] Select a value from the drop-down list box. [Default value] Close
Alarm Output Mode	 When the device receives I/O alarm signals, the device sends the alarm information to an external alarm device in the mode specified by this parameter. The options include the switch mode and pulse mode. NOTE If the switch mode is used, the alarm frequency of the device must be the same as that of the external alarm device. If the pulse mode is used, the alarm frequency of the external alarm device can be configured. 	[Setting method] Select a value from the drop-down list box. [Default value] Switch Mode
Alarm Time(ms) (0: Continuous)	Alarm output duration. The value 0 indicates that the alarm remains valid.	[Setting method] Enter a value manually. [Default value] 0 [Value range] 0 to 86400 seconds
Timing Alarm Output	Enable timing alarm output, set the schedule to time alarm	[Setting method] Enable [Default value] OFF
Manual Control	Control the alarm output.	N/A

 Table 7-1
 Alarm I/O parameters

Step 3 Click

The message "Apply success!" is displayed, and the system saves the settings.

----End

7.2 Disk Alarm

Procedure

Step 1 Choose Configuration > Alarm > Disk Alarm.

The **Disk Alarm** page is displayed, as shown in Figure 7-2.

Figure 7-2 Disk Alarm page

÷	Disk Alarm	

Disk Full Alarm	OFF
Alarm Interval(10-86400S)	10
Output Channel	□1□2

Refresh

Apply

Step 2 Click the button on to enable disk alarm.

Step 3 Configure the alarm interval parameters.

Step 4 Select Out channel number.

Step 5 Click Apply.

The message "Apply success!" is displayed, and the system saves the settings.

7.3 Network Alarm

Procedure

Step 1 Choose Configuration > Alarm > Network Alarm.

The Network Alarm page is displayed, as shown in Figure 7-3.

Figure 7-3 Network Alarm page

2 Network Alarm

Network Card ID	1	*
Exceptional Alarm		ON
Alarm Interval(10-86400S)	10	
Output Channel		□1□2
Alarm Record		OFF
	Refresh	Apply

Step 2 Click the button on to enable exceptional alarm.

Step 3 Configure the network exceptional alarm interval.

Step 4 Select Out Channel number.

Step 5 Click Apply.

The message "Apply success!" is displayed, the system saves the settings.

----End

7.4 I/O Alarm Linkage

Prerequisite

The PTZ linkage policy is applicable only to a camera with the PTZ or connected to an external PTZ.

Description

Alarm linkage refers to linkage alarm output and camera PTZ linkage. When receiving an alarm from the alarm input port, the camera performs linkage alarm output and enables PTZ linkage based on the preceding parameters, and rotates based on the linkage policy.

On the I/O Alarm Linkage page, you can perform the following operations:

- Enable the I/O alarm function.
- Configure the I/O alarm schedule.
- Configure the alarm output channel.
- Configure the PTZ linkage policy.

Procedure

Step 1 Choose Configuration > Alarm > I/O Alarm Linkage.

The I/O Alarm Linkage page is displayed, as shown in Figure 7-4.

Figure 7-4 I/O Alarm Linkage page

🚖 I/O Alarm Linkage

lame																				E					
rigger N	lode																			0	Conne	ct		•	
larm Inp	out																						[ON	
output C	hanr	el																						□1 □ 2	
TZ Link	age																						I	OFF	
Alarm Re	ecord																						[OFF	
SMTP																							I	OFF	~
Sun Mon Wed Thur Fri Sun Sun Sun Sun Sun Sun Sun Sun	0 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

Step 2 Select the Alarm Input value from the drop-down list box.

- **Step 3** Enter alarm input channel name.
- Step 4 Select the Trigger Mode from the drop-down list box.
- **Step 5** Click the button on to enable I/O Alarm.

Step 6 Configure the I/O alarm schedule.

Method 1 : Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday as shown in Figure 7-5.

Method 2: Hold down the left mouse button, drag and release mouse to select the schedule within 0:00-24:00 from Monday to Sunday.

When you select time by dragging the cursor, the cursor cannot be moved out of the time area. Otherwise, no time can be selected.

Method 3 : Click 🚳 in the schedule page to select the whole day or whole week.

Deleting deployment time: Click 🚳 again or inverse selection to delete the selected schedule.

Figure 7-5 Schedule Setting page

1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Sun	\$																								
Mon	\$																								
Tues	\$																								
Wed	\$																								
Thur	\$																								
Fri	\$																								
Sat	6																								

Step 7 Select the Out Channel from the drop-down list box.

Step 8 Select the PTZ Type from the drop-down list box. The PTZ type includes preset, scan, track, tour.

Step 9 Select Value. The value is the ID of PTZ type.

Step 10 Click the button on to enable Alarm Record.

Step 11 Click the button on to enable SMTP.

Step 12 Click the button on to enable FTP Upload.

Step 13 Click Apply.

The message "Apply succeed!" is displayed, and the system saves the settings.

----End

7.5 Motion Detection Alarm Linkage

Description

On the Motion Alarm page, you can perform the following operations:

- Enable the motion detection function.
- Set the motion detection alarming time.
- Set the motion detection area.
- Configure the motion alarm output channel.

When the alarm output function is enabled and the camera detects that an object moves into the motion detection area within the schedule time, the camera generates an alarm and triggers linkage alarm output.

• Configure the PTZ linkage policy

Procedure

Step 1 Choose Configuration >Alarm > Motion Alarm.

The Motion Alarm page is displayed, as shown in Figure 7-6.

Figure 7-6 Motion Alarm page

🖻 Motion Alarm

5 • •
4
OFF
OFF
OFF
22 23 24
2

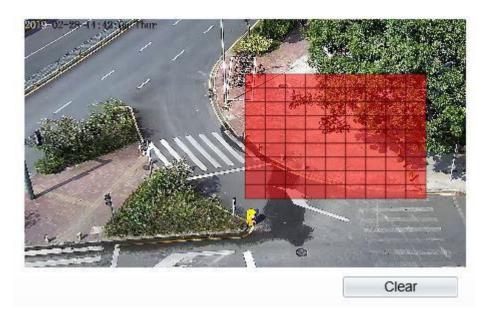
Step 2 Click the button on to enable motion alarm.

- Step 3 Configure the motion interval.
- Step 4 Configure the sensitivity.
- Step 5 Configure the schedule time setting.

For details about how to set **Schedule**, see 7.4 Step 6.

- Step 6 Configure the detection area.
 - 1. Press and hold the left mouse button, and drag in the video area to draw a detection area, as shown in Figure 7-7.

🖻 Motion Alarm



2. Press and hold the left mouse button, and drag in the video area to draw a detection area.

- Click **Clear** to delete a detection area.
- Click **Reverse** to select the area out of specified frames as the detection area.
- Step 7 Select the Out Channel.

Step 8 Click the button on to enable alarm record.

- Step 9 Click the button on to enable SMTP.
- Step 10 Click the button on to enable FTP Upload.

Step 11 Select the PTZ Type from the drop-down list box. The PTZ type includes preset, scan, track, tour.

- Step 12 Select Value. The value is the ID of PTZ type.
- Step 13 Click Apply.

The message "Apply succeed!" is displayed, and the system saves the settings.

----End

7.6 Audio Abnormal Detection

Description

On the Audio Abnormal Detection page, you can perform the following operations:

- Enable the Audio Abnormal Detection function.
- Set the Audio Abnormal Detection alarming time.
- Configure the Audio Abnormal Detection output channel.

When the alarm output function is enabled and the camera detects abnormal audio(sudden rise or sudden drop) within the schedule time, the camera generates an alarm and triggers linkage alarm output.

Procedure

Step 1 Choose Configuration >Alarm > Audio Abnormal Detection.

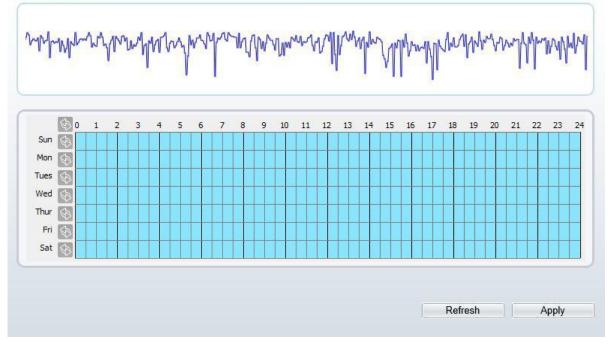
The Audio Abnormal Detection page is displayed, as shown in Figure 7-8.

Figure 7-8 Audio abnormal detection

🖻 Audio Abnormal Detection



Real Time Volume



Step 2 Click the button on to enable audio abnormal detection.

Step 3 Enable Sudden Rise, and Sudden Drop.

- Step 4 Select the Out Channel.
- Step 5 Select Value. The value is the ID of PTZ type.
- Step 6 Click the button on to enable Alarm Record.
- Step 7 Click the button on to enable SMTP.
- Step 8 Click the button on to enable FTP Upload.

Step 9 Configure the schedule time setting.

For details about how to set **Schedule**, see 7.4 Step 6.

7.7 Push Message

Description

When enable push message button, the alarm information will be pushed to app if the device is managed by app.

Procedure

Step 1 Choose Configuration >Alarm > Push Message.

The **Push Message** page is displayed, as shown in Figure 7-9.

Figure 7-9 Push Message page

🖻 Push Message

Push Message	
t the beginning, the alarm information will be pushed to app	if the device is managed by app.

Step 2 Click Apply.

The message "Apply succeed!" is displayed, and the system saves the settings.

8 Configure the Recording Function

8.1 Record Policy

🛱 Record Policy

You can configure the scheduled recording function, alarm recording function, recording quality, and recording rules.

Procedure

Step 1 Choose Configuration > Device Record > Record Policy.

The Record Policy page is displayed, as shown in Figure 8-1.

Figure 8-1 Record Policy page

	: Re	cord	1																				C		OFF
Post Rec	ord(0-86	5400	s)																*1)				_
Record A	udio)																					C		OFF
Record F	lule																			C	ycle \$	Store			¥
Stream N	lam	e																		st	ream	1			•
Ś	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2
Sun 🔄																									
Mon 🔄																									
Tues																									
Wed 🔇																									
Thur 🔄																									
Fri 🔄 Sat 🔄																									

Step 2 Set the parameters according to Table 8-1.

 Table 8-1
 Recording policy parameters

Parameter	Description	Setting
Schedule Record	Enables schedule record that you can configure the time policy.	[Setting method] Click the button on to enable schedule record. [Default value] OFF
Post Record	Recording duration (in seconds) after an alarm is generated.	[Setting method] Enter a value manually.

Parameter	Description	Setting
Record Audio	Indicates whether to record audios together with videos.	[Setting method] Click the button on to enable record audio.
Record Rule	 Rule for saving recordings. The options are as follows: Cycle Store: Saves recordings in cycles. Save Days: Duration (in days) for saving a recording. The duration can be a maximum of 99999 days. NOTE The value 0 indicates that recordings are not overwritten. 	[Setting method] Select a value from the drop- down list box.
Stream Name	Name of the stream.	[Setting method] Select a value from the drop- down list box.

Step 3 Configure a recording plan.

You can configure the system to record videos around the clock or in schedule.

For details about how to set **Schedule**, see 7.4 Step 6.

Step 4 Click Apply.

- If the message "Apply success!" is displayed, the system saves the settings.
- If other information is displayed, set the parameters correctly.

-----End

8.2 Record Directory

Description

Recordings can be stored in an SD card or NAS.

Procedure

Step 1 Choose Configuration > Device Record > Record Directory.

The **Record Directory** page is displayed, as shown in Figure 8-2.

Figure 8-2 Record Directory page

🚖 Record Directory

Disk Type	Disk Id	Group ID	Enable	Total Space(MB)	Usable Space (MB)	Alarm Threshold(%)	State
SD Card	1	1	Yes	0	0	100	N/A
							Modify
							Modify
							Modify

Step 2 Set the parameters according to Table 8-2.

Table 8-2 Reco	rd directory parameters
----------------	-------------------------

Parameter	Description	Setting
Disk Type	Recording directory type, which can be an SD card or a NAS.	[Setting method] The parameter cannot be set
Disk ID	Indicates the Disk ID.	manually.
Group ID	Indicates the group HID.	
Enable	Indicates whether to enable the recording directory.	
Total Space	Total disk space.	
Usable Space	Maximum disk space read automatically.	
Alarm Threshold (%)	The camera will alarm when used Space achieves the alarm threshold.	
Status	Status of the connection between the current camera and recording directory detected automatically.	

8.3 Configure the SD Card

Procedure

Step 1 Choose Configuration > Device Record > Record Directory.

Step 2 Click Modify.

The Record Path Modify page is displayed, as shown in Figure 8-3.

Figure 8-3 SD card Record Path Modify page

ecord Path Modify	×
SD Card	ON (
Disk Id	1
Total Space(MB)	0
Alarm Threshold(1-100)	100
	Modify
	Format

Step 3 Set the parameters according to Table 8-3.

 Table 8-3
 SD card recording parameters

Parameter	Description	Setting
SD Card	Enable SD card to enable record.	[Setting method] Click button to enable SD card.
Disk ID	ID of SD card.	N/A
Total Space(MB)	Total disk space read automatically.	[Setting method] The parameter cannot be set manually.
Alarm Threshold (1-100)	The camera will alarm when used Space achieves the alarm threshold.	[Setting method] Enter a value from 1-100.

Step 4 Click Apply.

The message "Apply success!" is displayed, and the system saves the settings.

9 Configure the Privacy Mask Function

Procedure

æ

Privacy Masking

Step 1 Choose Configuration > Privacy Masking.

The Privacy Masking page is displayed, as shown in Figure 9-1.

Figure 9-1 Privacy Masking page

+ 4 PP $\overline{\mathbb{C}}$ **Privacy Masking List** Delete Modify ID Color Enable Name Туре 1 Privacy Mask 1 Color Block Yes 2 Privacy Mask 2 Color Block Yes 3 Privacy Mask 3 Color Block Yes Add Refresh

Step 2 Press and hold the left mouse button, and drag on the preview image to cover the part to be masked.

- The maximum percentage of an image that can be masked depends on the device model. Read the tip displayed on the page.
- A maximum of four areas can be masked.
- Tick the ID of mask area and click Delete to delete the area. .

Step 3 Set the parameters according to Table 9-1.

Parameter	Description	Setting		
ID	ID of Privacy Masking.	N/A		
Name	Name of privacy Masking.	[Setting method] Click the name and enter a value manually. [Default value] Blank		
Туре	Type of privacy masking.	[Setting method] Select a value from the drop-down list box. [Default value] Color Block		
Color	Color of privacy masking.	[Setting method] Select a value from the drop-down list box. [Default value] Black		
Enable	Indicates whether to enable the privacy masking.	[Setting method] Select a value from the drop-down list box. [Default value] Yes		
Delete	Delete a privacy masking.	 [Setting method] Select a privacy masking from the Privacy Masking List. Click Delete, the privacy masking is deleted successfully 		
Modify	Modify a privacy masking.	 [Setting method] 3. Select a privacy masking from the Privacy Masking List. 4. Click a parameter and modify it. 5. Click Modify, the privacy masking is modified successfully 		

 Table 9-1
 Privacy Masking parameters

Step 4 Click Apply.

The message "Apply success!" is displayed, and the system saves the settings.

10 Configure the Network Service

10.1 802.1x

Preparation

802.1x authentication must be configured on the access port, which controls to access network resources for the connected user devices on the port.

Procedure

Step 1 Choose Configuration > Network Service > 802.1x.

The **802.1x** page is displayed, as shown in Figure 10-1.

Figure 10-1 802.1x page

802.1x

802.1x	ON
Account	
Password	
ConfirmPassword	

Refresh

Apply

Step 2 Click the button on to enable 802.1x.

Step 3 Enter the account name.

Step 4 Enter the password and confirm password..

Step 5 Click Apply.

The message "Apply success!" is displayed, and the system saves the settings.

----End

10.2 DDNS

Preparation

Connect the specified camera to the Internet, and obtain the user name and password for logging into the Dynamic Domain Name System (DDNS) server.

Procedure

Step 1 Choose Configuration > Network Service > DDNS.

The **DDNS** page is displayed, as shown in Figure 10-2.

Figure 10-2 DDNS page

🖻 DDNS

DDNS	ON
Provider	3322_ddns
Network Card Name	eth0
Host Name	
Account	
Password	
	Test DDNS
	Refresh Apply

Step 2 Click the button on to enable DDNS.

Step 3 Set the parameters according to Table 10-1.

Parameter	Description	Setting
DDNS	Indicates whether to enable the DDNS service.	[Setting method] Click the button on to enable DDNS. [Default value] OFF
Provider	DDNS service provider. Currently, only 3322 and dyndns are supported.	[Setting method] Select a value from the drop-down list box. [Default value] 3322 NOTE Set this parameter based on the site requirements.
Network Card Name	Name of network card	[Setting method] Select a value from the drop-down list box. [Default value] Eth0

Parameter	Description	Setting
Host Name	Host name customized by a user.	[Setting method] Enter a value manually. [Default value] Blank
Accounts	User name for logging in to the DDNS server.	[Setting method] Enter a value manually. [Default value] Blank
Password	Password for logging in to the DDNS server.	[Setting method] Enter a value manually. [Default value] Blank

Step 4 Click Apply.

- If the message "Apply success!" is displayed, and the system saves the settings.
- If other information is displayed, set the parameters correctly.

----End

10.3 PPPoE

Preparation

Obtain the PPPoE user name and password from the network carrier.

Description

If a PPPoE connection is used, you need to enter the user name and password on the **PPPoE** page. After you restart the device, the PPPoE settings take effect and the device obtains a public IP address.

Procedure

Step 1 Choose Configuration > Network Service > PPPoE.

The **PPPoE** page is displayed, as shown in Figure 10-3.

Figure 10-3 PPPoE page

^会 PPPoE	
PPPoE	ON
Account	
Password	
IP Address	Empty
	Refresh Apply

Step 2 Click the button on to enable PPPoE.

Step 3 Set the parameters according to Table 10-2.

Parameter	Description	Setting
PPPoE	Indicates whether to enable the PPPoE service.	[Setting method] Click the button on. [Default value] OFF
Accounts	User name of PPPoE provided by the network carrier.	[Setting method] Enter a value manually.
Password	Password of PPPoE provided by the network carrier.	[Setting method] Enter a value manually.

 Table 10-2
 PPPoE parameters

Step 4 Click Apply.

- If the message "Apply success!" is displayed, and the system saves the settings.
- If other information is displayed, set the parameters correctly.

----End

10.4 Port Mapping

Description

With port forwarding can setup the connection between privacy network and public network. Enable the port forwarding to access the privacy network devices from public network.

Procedure

Step 1 Choose Configuration > Network Service > Port Mapping.

The Port Mapping page is displayed, as shown in Figure 10-4.

Figure 10-4 Port Mapping page

🖻 Port Mapping

Port Mapping	ON
Map Mode	Auto

Enable	PortType	OutsidePort	OutsideIP Address	State
~	SSLCONTROL	20001	0.0.0.0	Ineffective
√	HTTP	80	0.0.0.0	Ineffective
~	RTSP	554	0.0.0.0	Ineffective
~	CONTROL	30001	0.0.0.0	Ineffective
~	HTTPS	443	0.0.0.0	Ineffective
✓	HTTPS	443	0.0.0.0	Ineffective

Step 2 Click the button on to enable Port Mapping.

Step 3 Set the parameters according to Table 10-3.

Parameter	Description	Setting
Port Mapping	Indicates whether to enable the Port Mapping service.	[Setting method] Click the button on. [Default value] OFF
Map Mode	Mode of port mapping, includes auto and manual.	[[Setting method] Select a value from the drop-down list box. [Default value] Auto
Port Type	Port Type includes: SSLCONTROL HTTP, RTSP and Control	N/A
Outside Port	Port of outside network.	[Setting method] Enter a value manually in map mode.
Outside IP Address	IP address of outside network.	N/A
State	Mapping status	N/A

Step 4 Click Apply.

- If the message "Apply success!" is displayed, and the system saves the settings.
- If other information is displayed, set the parameters correctly.

----End

10.5 SMTP

Description

If the Simple Mail Transfer Protocol (SMTP) function is enabled, the device automatically sends JPG images and alarm information to specified email addresses when an alarm is generated.

Procedure

Step 1 Choose Configuration > Network Service > SMTP.

The **SMTP** page is displayed, as shown in Figure 10-5.

Figure 10-5 SMTP page

SMTP

SMTP Server Address	*
SMTP Server Port	* 25
Jser Name	*
Password	*
Sender E-mail Address	*
Recipient_E-mail_Address1	*
Recipient_E-mail_Address2	
Recipient_E-mail_Address3	
Recipient_E-mail_Address4	
Recipient_E-mail_Address5	
Attachment Image Quality	Mid
Transport Mode	No Encrypt
	Email Test
	Refresh Apply

Step 2 Set the parameters according to Table 10-4.

Parameters marked with are mandatory.

 Table 10-4
 SMTP parameters

Parameter	Description	Setting
SMTP Server Address	IP address of the SMTP server.	[Setting method] Enter a value manually.

Parameter	Description	Setting
SMTP Server Port	Port number of the SMTP server.	[Setting method] Enter a value manually. [Default value] 25
User Name	User name of the mailbox for sending emails.	[Setting method] Enter a value manually.
Password	Password of the mailbox for sending emails.	[Setting method] Enter a value manually.
Sender E-mail Address	Mailbox for sending emails.	[Setting method] Enter a value manually.
Recipient_E- mail_Address 1	(Mandatory) Email address of recipient 1.	[Setting method] Enter a value manually.
Recipient_E- mail_Address 2	(Optional) Email address of recipient 2.	
Recipient_E- mail_Address3	(Optional) Email address of recipient 3.	
Recipient_E- mail_Address 4	(Optional) Email address of recipient 4.	
Recipient_E- mail_Address 5	(Optional) Email address of recipient 5.	
Attachment Image Quality	A higher-quality image means more storage space. Set this parameter based on the site requirement.	N/A
Transport Mode	Email encryption mode. Set this parameter based on the encryption modes supported by the SMTP server.	[Setting method] Select a value from the drop-down list box. [Default value] No Encrypted

Step 3 Click Apply.

- If the message "Apply success!" is displayed, and the system saves the settings.
- If other information is displayed, set the parameters correctly.

----End

10.6 FTP

Description

If the File Transfer Protocol (FTP) button is enabled, the device automatically sends the snapped alarm JPG images to specified FTP server.

Procedure

Step 1 Choose Configuration > Network Service > FTP.

The **FTP** page is displayed, as shown in Figure 10-6.

Figure 10-6 FTP page

皇 FTP

	Refresh	Apply
		Test FTP
mage Quality	Mid	
TP Path	2 22	
Password		
ccount		
TP Port	21	
TP Address		
TP Upload		ON

Step 2 Click the button on to enable FTP.

Step 3 Set the parameters according to Table 10-5.

 Table 10-5
 FTP parameters

Parameter	Description	Setting
FTP Upload	Indicates whether to enable the FTP service.	[Setting method] Click the button on. [Default value] OFF
FTP Address	IP address of FTP server.	[Setting method] Enter a value manually.
FTP Port	Port of FTP server.	[Setting method] N/A [Default value] 21
Account	FTP server account.	[Setting method] Enter a value manually.
Password	FTP server Password.	[Setting method] Enter a value manually.
FTP Path	FTP Path to save the JPG image.	[Setting method] Enter a value manually.

Parameter	Description	Setting
Image Quality	A higher-quality image means more storage space. Set this parameter based on the site requirement.	[Setting method] Select a value from the drop-down list box. [Default value] Mid

Step 4 Click Apply.

- If the message "Apply success!" is displayed, and the system saves the settings.
- If other information is displayed, set the parameters correctly.

----End

10.7 IP Filter

Description

Set the IP address in specified network segment to allow access or prohibit access.

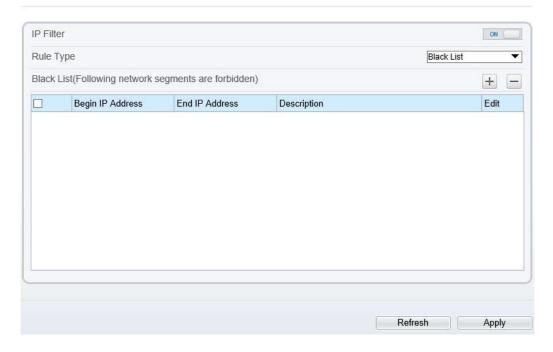
Procedure

Step 1 Choose Configuration > Network Service > IP Filter.

The **IP Filter** page is displayed, as shown in Figure 10-7.

Figure 10-7 IP Filter page

```
🖻 IP Filter
```



Step 2 Click the button on to enable IP Filter.

Step 3 Set the parameters according to Table 10-6

Parameter	Description	Setting
IP Filter	Indicates whether to enable the IP Filter.	[Setting method] Click the button on. [Default value] OFF
Rule Type	IP filter type, includes black list and white list.	[Setting method] Select a value from the drop-down list box. [Default value] Black List
Black List	Specified network segment to allow access	 [Setting method] 6. Click to enter the add black/white list page, as shown in Figure 10-8 7. Enter Begin IP Address. 8. Enter End IP Address. 9. Enter Description. 10. Click OK, the black list added successfully.
White List	Specified network segment to prohibit access	 [Setting method] Click + to enter the add black/white list page, as shown in Figure 10-8 Enter Begin IP Address. Enter End IP Address. Enter Description. Click OK, the white list added successfully.

 Table 10-6
 IP Filter parameters

Figure 10-8 Add IP Filter page

Begin IP Address		
End IP Address		
Description	E	

Step 4 Click Apply.

The message "Apply success!" is displayed, and the system saves the settings.

----End

10.8 CGI Alarm Service Center

Description

Device will push the alarm message by CGI with Start URL and End URL, and send to data to CGI Server by HTTP protocol. CGI alarm message is the head of User-Agent of HTTP. Use HTTP protocol get and send to CGI Server. When need to integrate the CGI alarm message, need to resolve the HTTP Head "User-Agent" to get the data of CGI alarm message.

Procedure

Step 1 Choose Configuration > Network Service > CGI Alarm Service Center.

The CGI Alarm Service Center page is displayed, as shown in Figure 10-9.

Figure 10-9 CGI Alarm Service Center page

🖻 CGI Alarm Service Center

CGIAlarm	ON
Alarm Type	All
Name	
Туре	HTTP 🔻
URL Start	
URL End	

Proxy Setting		ON
Address		
Port		
Platform User Name		
Platform Password		
Fest the connection to the specifield HTTP server		Test
	Refresh	Apply

Step 2 Click the button on to enable CGI Alarm.

Step 3 Set the parameters according to Table 10-7.

Parameter	Description	Setting
CGI Alarm	Indicates whether to enable the CGI Alarm.	[Setting method] Click the button on. [Default value] OFF
Alarm Type	All alarm types can be chosen, user can choose one to alarm, or choose all.	[Setting method] Select a value from the drop-down list box. [Default value] All
Name	Name of CGI Alarm.	[Setting method] Enter a value manually.
Туре	Type of CGI Alarm.	[Setting method] Select a value from the drop-down list box. [Default value] HTTP
URL Start	Push the alarm message by CGI with start URL	[Setting method] Enter a value manually. For example: http://192.168.35.74:80/MajorAlarmType& MinorAlarmType&SourceName&DeviceID &DeviceIP&AlarmTime&Description
URL End	Push the alarm message by CGI with end URL	[Setting method] Enter a value manually. For example: http://192.168.35.74:80/MajorAlarmType& MinorAlarmType&SourceName&DeviceID &DeviceIP&AlarmTime&Description
User Name	User name of device.	[Setting method] Enter a value manually.
Password	Password of device.	[Setting method] Enter a value manually.
Proxy Setting	Indicates whether to enable the Proxy. Forwarder server of CGI alarm to forward the CGI alarm.	[Setting method] Click the button on. [Default value] OFF
Address	IP address of Forwarder server.	[Setting method] Enter a value manually.
Port	Port of Forwarder server.	[Setting method] Enter a value manually.

 Table 10-7
 CGI Alarm Service Center parameters

Parameter	Description	Setting
platform User Name	User name of forwarder server.	[Setting method] Enter a value manually.
platform Password	Password of forwarder server.	[Setting method] Enter a value manually.
Test the connection to the specified HTTP server	Test if the device connects to the proxy successfully.	[Setting method] Click Test, if the device connects to the proxy successfully, the message "Test CGI alarm success" is displayed.

Step 4 Click Apply.

The message "Apply success!" is displayed, and the system saves the settings.

----End

10.9 SNMP

Description

Simple Network Management Protocol (SNMP) is an Internet Standard protocol, supports SNMP v1, SNMPv2c and SNMPv3 network protocol. Choose the proper SNMP protocol version and set the SNMP protocol parameter to collect and organize information about managed devices on IP networks.

Procedure

Step 1 Choose Configuration > Network Service > SNMP.

The **SNMP** page is displayed, as shown in Figure 10-10.

Figure 10-10 SNMP page

\$ SNMP

SNMPv1	ON
SNMPv2c	ON
Write Community	
Read Community	
Trap Address	
Trap Port	162
Trap Community	

SNMPv3		ON ()
Read Security Name		
Security Level		
Auth Algorithm		•
Auth Password		
Encry Algorithm		
Encry Password		
Write Security Name		
Security Level		¥
Auth Algorithm		•
Auth Password		
Encry Algorithm		•
Encry Password	C	
SNMP Port	1	61
	Refresh	Apply

Step 2 Click the button on to enable SNMPv1, SNMPv2C and SNMPv3.

Set the parameters according to Table 10-8.

Table 10-8 SNMP parameters

Parameter	Description	Setting
SNMPv1 SNMPv2c	Version of SNMP. SNMPv1 and SNMPv2c use communities to establish trust between managers and agents. Agents support three community names, write community, read community and trap.	[Setting method] Click the button on. [Default value] OFF
Write Community Read Community	Name of write community. The write community only can modify data. Name of read community. The write community only can read data.	[Setting method] Enter a value manually.
Trap Address Trap Port Trap Community	IP address of the trap. Management port of accepting message from trap. community string of trap. The trap community string allows the manager to receive asynchronous information from the agent.	
SNMPv3	Version of SNMP. SNMPv3 uses community strings, but allows for secure authentication and communication between SNMP manager and agent.	[Setting method] Click the button on. [Default value] OFF
Read Security Name Write Security Name	Name of read security. Name of write security.	[Setting method] Enter a value manually.
Security Level	Security Level between SNMP manager and agent, includes three levels: Noauth: No authentication and no encryption Auth: Authentication but no encryption Priv: Authentication and encryption	[Setting method] Select a value from the drop-down list box. [Default value] Blank
Auth Algorithm	Authentication Algorithm, includes MD5and SHA.	[Setting method] Select a value from the drop-down list box. [Default value] Blank
Auth Password	Authentication password.	[Setting method] Enter a value manually.

Parameter	Description	Setting
Encry Algorithm	Encryption Algorithm, includes DES and AES.	[Setting method] Select a value from the drop-down list box. [Default value] Blank
Encry Password	Encryption password.	[Setting method] Enter a value manually.
SNMP Port	Port of SNMP.	[Setting method] Enter a value manually. [Default value] 161

Step 3 Click Apply.

The message "Apply success!" is displayed, and the system saves the settings.

----End

10.10 QOS

Description

If the device is connected to a router or switch with a QOS function, and the priority rule of the corresponding mark is configured on the network device, the network device will preferentially pass the data packet of the corresponding mark.

Procedure

Step 1 Choose Configuration > Network Service > QOS.

The **QOS** page is displayed, as shown in Figure 10-11.

 Audio/Video Dscp(0-63)
 52

 Alarm Dscp(0-63)
 0

 Command Dscp(0-63)
 0

 Refresh
 Apply

Step 1 Input the value range from 0 to 63(audio/video dscp, alarm dscp and command dscp).

Step 2 Click Apply.

The message "Apply success!" is displayed, and the system saves the settings.

----End

\$

11

Privilege Manager

11.1 Configure a User

Description

You can add, modify, and delete a user in privilege manager page.

Procedure

Step 1 Choose Configuration > Privilege Manager > User.

The User page is displayed, as shown in Figure 11-1. Table 11-1 describes the parameters.

Figure 11-1 User page

🖻 User

D	User Name	Groups	Notes	Operate
ř.	admin	SuperAdmin	admin	0

Table 11-1 User parameters

Parameter	Description	Setting
ID	User ID	N/A
User Name	User name for logging in to the camera.	[Setting method] Select a value from the drop-down list box.

Parameter	Description	Setting
Groups	 Permission group where a user belongs. The default permission groups are Super Admin, Administrators, Operator, and Media user. Their permissions are described as follows: Super Admin: Includes all privileges. Administrators: Live Video, Video Control, PTZ control, Audio, Playback, Backup, Record Policy, Disk Configure, Privilege Manage, Parameter Configure, System Maintenance and Log, 	[Setting method] Click Add , then select a value from the drop down list box.
	• Operator: System Maintenance, Parameter Configure, playback, Live Video and Video Control.	
	• Media user: Live Video	
Notes	Notes of the User.	[Setting method] Click Add , then enter a value manually.
Operate	The operation of the user, includes view user, modify user and delete user. NOTE Super Admin can be viewed only.	[Setting method] Click the icon as required.

Step 2 Add, modify, or delete a user as required.

Table 11-2 describes the operations.

Table 11-2	Operation description
-------------------	-----------------------

Function	Procedure	Description
Add	 Click Add. The Add User page is displayed, as shown in Figure 11-2. 	Add an administrator or a common user as shown in Figure 11-2.
	 Enter a user name, password, confirm password. 	
	3. Select a group from the drop down list box.	
	4. Enter the notes (Optional).	
	5. Check the privilege.	
	6. Click OK .	
	The user is added successfully.	

Function	Procedure	Description
Modify	 Click . The Modify User page is displayed. Modify the user name, password, group or privilege. Click OK. The user is modified successfully. The User page is displayed. 	Modify the user name, password, group or privilege.
Delete	Select the user from the User list. Click , the message "Confirm to delete?" is displayed, click OK , then the group is deleted successfully.	Delete a user.

Figure 11-2 Add user page

User Name		
Password		
ConfirmPassword		
Group		Administrators 💌
Notes		
Privilege		Live VideoPrivilege Detail
Z Live Video		
Z Video Control	^	Watching real-time video and switch stream.
PTZ Control		
Z Audio		
Playback		
Backup		
Record Policy		
Disk Config	~	

12 Configure Protocol Parameters

12.1 Protocol Information

Description

Protocol Info

You can view the existing protocol name and version number of the current device on the **Configuration** > **Protocol** > **Protocol Info** page, as shown in Figure 12-1. Table 12-1 describes the protocol-related parameters.

Figure 12-1 Protocol Info page

Protocol Name	ONVIF
Protocol Version	v17.06
Protocol Software Version	v17.06_build000040
RTSP Rule	rtsp://ip:port/snl/live/cameraid/streamic
RTSP Example	rtsp://192.168.99.14:554/snl/live/1/1
Onvif UUID	014a5ca0-35c9-11e9-9b0

Parameter	Description
Protocol Name	Type of the access protocol.
Protocol Version	Version number of the access protocol.
Protocol Software Version	Software version number of the access protocol.
RTSP Rule	URL rule of Real Time Streaming Protocol.
RTSP Example	URL example of Real Time Streaming Protocol.
Onvif UUID	Universally Unique Identifier.

Table 12-1	Protocol-related	parameters
	1 lotocor related	purumeters

12.2 Security Authentication

Description

When an ONVIF-compliant device connects to the platform, you must authenticate the user name and password to ensure the connection security.

Procedure

Step 1 Choose Configuration > Protocol > Security.

The Security page is displayed as shown in Figure 12-2. Table 12-2 describes the parameters on the Security page.

OFF.
Refresh

Parameter	Description	Setting
User Verification	When you select the User Verification check box, the user name and password must be the same as those for logging in to the device web page. NOTE The default user name is admin, and the default password is admin.	[Setting method] Click the button on to enable User Verification .

 Table 12-2
 Parameter description

Step 2 Click Apply.

A dialog box is displayed, indicating the parameter configuration success. To make the configuration take effect, click **Confirm** to restart the device.

----End

12.3 CMS Configuration

Description

You can view the existing protocol name and version number of the current device on the **Configuration** > **Protocol** > **CMS** Configuration page, as shown in Figure 12-3. Table 12-3 describes the protocol-related parameters.

Figure 12-3 CMS Configuration page

🛱 CMS Configuration

Protocol Name	ONVIF v17.06		
tocol Version			
Protocol Software Version	v17.06_build000040		
Profile G	071		
Profile Q	OFF.		
VA Switch	OFF .		
Media2	OF/		

Table 12-3 Protocol-related parameters

Parameter	Description
Protocol Name	Type of the access protocol.
Protocol Version	Version number of the access protocol.
Protocol Software Version	Software version number of the access protocol.
Profile G	Enable ONVFI Profile G
Profile Q	Enable ONVFI Profile Q
IVA Switch	Enable IVA Switch
Media 2	Enable Media 2

12.4 Multicast

Description

You can set multicast IP, video port, audio port and source port in multicast parameter page.

Procedure

Step 1 Choose Configuration > Protocol > Multicast Param.

The **Multicast Param** page is displayed as shown in Figure 12-4. Table 12-4 describes the parameters on the **Multicast Param** page.

Figure 12-4 Multicast Param page

🚖 Multicast Param

Stream ID	1
P	238.255.255.255
Video Port	25330
Audio Port	25430
Source Port	25530

Refresh	Apply

Parameter	Description	Setting
Stream ID	ID of stream.	[Setting method] Select a value from the drop-list box. [Default value] 1
IP	IP address that receive multicast data.	[Setting method] Enter a value manually. [Default value] 238.255.255.255
Video Port	Port that receive video data.	[Setting method] Enter a value manually. [Default value] 25330
Audio Port	Port that receive audio data.	[Setting method] Enter a value manually. [Default value] 25430
Source Port	Port that receive source data.	[Setting method] Enter a value manually. [Default value] 25530

Table 12-4 Parameter description

Step 2 Click Apply.

The message "Apply success, effective after restart!" is displayed, when the device restarts, the system will save the settings.

13

Query Device Logs

13.1 Query Operation Logs

Description

Operation logs record user operations and scheduled task commands during the running of the device. Operation logs can be classified into the following types: permission management, system maintenance, device configuration, recording operation, video control, and real-time video.

Procedure

Step 1 Choose Configuration > Device Log > Operation Log.

The **Operation Log** page is displayed, as shown in Figure 13-1.

Figure 13-1 Operation Log page

🚖 Operation Log

Operation Log Begin Time End Time			All Type 2019-02-19 16:47:51 2019-03-07 16:44:58					
							Download	Query
					Time	User Name	Log Info	
2019-3-7 16:35:51	admin	Stop video						
2019-3-7 16:35:51	admin	Stop IntelligenceAnalyse Stream						
2019-3-7 16:7:4	admin	Configure Video OSD						
2019-3-7 16:7:3	admin	Configure Video OSD						
2019-3-7 16:6:47	admin	Start IntelligenceAnalyse Stream						
2019-3-7 16:6:47	admin	Start video						
2019-3-7 15:56:59	admin	Start IntelligenceAnalyse Stream						
2019-3-7 15:56:59	admin	Start video						
2019-3-7 15:53:23	admin	Stop video						
2019-3-7 15:53:23	admin	Stop IntelligenceAnalyse Stream						

Step 2 Set the search criteria.

- 1. Select the type of operation logs to be queried from the System Log drop-down list box.
- 2. Click the **Begin Time** and **End Time** text boxes respectively. A time setting control is displayed.
- 3. Set the start time and end time as required.

4. Enter the corresponding user name that is registered with the device from the User Name dropdown list box.

Step 3 Click Query.

The operation logs related to the specified user are displayed.

Step 4 Download the operation logs.

- 1. Set the start time, end time and log type.
- 2. Click **Download** on the right of the page.

The log link and the message "Please download log by 'save as 'in the right key" are displayed.

3. Right-click the link and save the logs.

An operation log is named as **Operation Log** by default and in the following format: *Operation time* user(*User name*) *Operation information* For example: 2012-06-20 13:40:39 user() Start Up Device 2012-06-20 13:42:46 user(admin) Configure Device Name 2012-06-20 13:43:16 user(admin) Configure Alarm In

----End

13.2 Query Alarm Logs

Description

An alarm log records information about an alarm generated on a device, including the security, disk, and recording alarms.

Procedure

Step 1 Choose Configuration > Device Log > Alarm Log.

The Alarm Log page is displayed, as shown in Figure 13-2.

Figure 13-2 Alarm Log page

```
🚖 Alarm Log
```

Narm Type			All 🔻	
Begin Time End Time		2014-8-17	2014-8-17 16:31:39 2014-8-18 16:31:39	
		2014-8-18		
		Download	d Query	
Alarm Begin Time	Alarm End Time	Log Info	Source IE	

Step 2 Set the search criteria.

1. Click the **Begin Time** and **End Time** text boxes respectively.

A time setting control is displayed.

- 2. Set the start time and end time as required.
- 3. Select the type of the alarm logs to be queried from the Alarm Type drop-down list box.

Step 3 Click Query.

The alarm logs of the specified type are displayed.

Step 4 Download the alarm logs.

- 1. Set the start time and end time.
- 2. Select a log type.
- 3. Click **Download** on the right of the page.

The log link and the message "Please download log by 'save as 'in the right key" are displayed.

4. Right-click the link and save the logs.

An alarm log is named as **Alarm Info** by default and in the following format: *Alarm start time -> Alarm end time Alarm information Source ID* For example: 2012-03-17 16:31:17 -> 2012-03-17 16:32:29 occur motion detect alarm Source Id(1:1) 2012-03-17 16:35:31 -> 2012-03-17 16:35:41 occur motion detect alarm Source Id(1:1)

13.3 Report Logs

Description

You can collect logs about a device, which help you analyze and solve possible problems occurring on the device. The logs include overview information, key parameters, operation logs, alarm logs, upgrade logs, and debugging logs.

Procedure

Step 1 Choose Configuration > Device Log > Collect all Log.

The **Collect all log** page is displayed, as shown in Figure 13-3.

Figure 13-3 Collect Log page			
🖆 Collect all log			
7 ¹		_	
	Collect		

Step 2 Collect logs with one click.

- 1. Click **Collect**, the download page is displayed.
- 2. Select the path to save the logs.

14 Maintain the Device

14.1 Restart a Device

Description

You can restart a device in situations including the following:

- The device parameters are set incorrectly, and the device cannot work properly.
- A user needs to reset device parameters and make the settings to take effect.
- A device needs to be restarted remotely.

Procedure

Step 1 Choose Configuration > Maintenance.

The Camera Maintenance page is displayed, as shown in Figure 14-1.

Figure 14-1 Camera Restart page

Camera Maintenance	
Restart	*
AutoReboot	OFF V
Update	Please select upgrade file 🚡 Update
Reserve IP setting	ON
Restore To Factory Default	3

Step 2 Click*

The message "Are you sure to restart?" is displayed.

Step 3 Click OK.

The device is restarted successfully five minutes later.

----End

14.2 Auto Reboot

Step 1 Choose Configuration > Maintenance.

The Camera Maintenance page is displayed, as shown in Figure 14-1.

Step 2 Enable the auto reboot, choose the reboot interval from drop-down list.

There are three intervals to be chosen, every day/every week/every month.

Figure 14-2 Camera auto reboot

Camera Maintenance	
Restart	*
AutoReboot	ON CO
RebootInterval	EveryWeek
	×

Step 3 Click OK.

The device is restarted successfully five minutes later.

----End

14.3 Update the Software Package

Description

You can update the software package from web.

Procedure

Step 1 Choose Configuration > Maintenance.

The Device Maintenance page is displayed.

Step 2 Click **to** select the upgrade file.

Step 3 Click Update.

• If the message "Upgrade success! The device is rebooting, please login later!" is displayed, the grogram update successfully and the device is rebooted.

• If other information is displayed, select the upgrade package correctly.

Don't lose power during the upgrade, if the power off, the camera maybe malfunction.

14.4 Restore Device to Factory Settings

Description

You can restore a device to factory settings in situations including the following:

- The device parameters are set incorrectly, and the device cannot work properly.
- A user needs to reset device parameters.
- All parameters must be restored to the factory settings.

After you click ⁽²⁾, all parameters (you can choose whether to reserve the IP address) will be restored to the factory settings. Use this function carefully.

Procedure

Step 1 Choose Maintenance.

The Device Maintenance page is displayed.

Step 2 Click³.

The message "Are you sure to restore?" is displayed.

Step 3 Click OK.

The device is restored to the factory settings.

15 Local Configuration

Description

You can set folder to save the snapshots and records to local.

Procedure

Step 1 Choose Configuration > Local Config.

The **Local Config** page is displayed, as shown in Figure 15-1.

Figure 15-1 Local Config page

🚖 Local Config

Step 2 Select snapshot picture format from the drop-down box..

Step 3 Set snapshot save path.

Step 4 Set local record save path

Step 5 Set local record file size(8-128 M), the default value is 64.

Step 6 The message "Apply success!" is displayed, and the system saves the settings.

16

Troubleshooting

Table 16-1 describes the common faults and solutions.

Table 16-1 Common faults and solutions

Common Fault	Possible Cause	Solution
When you enter the device IP address in the address box of Internet Explorer and press Enter , the message "There is a problem with this website's security certificate." is displayed.	The certificate is not installed.	Click Continue to this website (not recommended) .
The web management system cannot be accessed.	The network is disconnected.	 Connect the PC directly to the camera, and verify that the web management system can be accessed. Run the ping command to verify that the camera is reachable.
	The IP address is used by another device.	Connect the PC directly to the camera and configure the IP address of the camera.
	The IP addresses of the PC and IP camera are on different networks.	Check the IP address, subnet mask, and gateway settings on the IP camera, and change the settings as required.
The PTZ or dome cannot be controlled.	The protocol, baud rate, or address is incorrect.	Change the protocol, baud rate, and address in the web management system to those used by the PTZ or dome.
	The signal cable is not properly connected.	Check the signal strength and connect the signal cable properly.
After the IP camera is upgraded, the web management system cannot be accessed.	The browser cache is not deleted.	 To delete the browser cache, proceed as follows: (Internet Explorer 8 is used as an example.) 1. Open Internet Explorer. 2. Choose Tools > Internet Options. 3. Click Delete. The Delete Browsing History dialog box is displayed. 4. Select all check boxes. 5. Click Delete. Login to the web management system again.
The IP camera cannot be upgraded.	 The network is disconnected. The network settings are incorrect. 	Confirm upgrade network has connections.Check the network settings right or wrong.

Common Fault	Possible Cause	Solution
	The upgrade package is incorrect.	Obtain the correct upgrade package and upgrade the IP camera again.

A

Acronyms and Abbreviations

0	
OSD	On Screen Display
Р	
PAL	Phase Alteration Line
PoE	Power over Ethernet
PPPoE	Point-to-Point Protocol over Ethernet
PTZ	Pan/Tilt/Zoom
R	
ROI	Region of Interest
RSTP	Rapid Spanning Tree Protocol
S	
SMTP	Simple Mail Transfer Protocol
SSL	Secure Sockets Layer
V	
VBR	Variable Bit Rate