Body Temperature Detection Camera User Manual



Issue V1.1

Date 2019-

2019-11-28

Precautions

Fully understand this document before using this device, and strictly observe rules in this document when using this device. If you install this device in public places, provide the tip "You have entered the area of electronic surveillance" in an eye-catching place. Failure to correctly use electrical products may cause fire and severe injuries. To prevent accidents, carefully read the following context:

Symbols

This document may contain the following symbols whose meanings are described accordingly.

Symbol	Description	
	It alerts you to fatal dangers which, if not avoided, may cause deaths or severe injuries.	
	It alerts you to moderate dangers which, if not avoided, may cause minor or moderate injuries.	
	It alerts you to risks. Neglect of these risks may cause device damage, data loss, device performance deterioration, or unpredictable results.	
©— ["] , TIP	It provides a tip that may help you resolve problems or save time.	
	It provides additional information.	



To prevent electric shocks or other dangers, keep power plugs dry and clean.



- Strictly observe installation requirements when installing the device. The manufacturer shall not be held responsible for device damage caused by users' nonconformance to these requirements.
- Strictly conform to local electrical safety standards and use power adapters which are marked with the LPS standard when installing and using this device. Otherwise, this device may be damaged.
- Use accessories delivered with this device. The voltage must meet input voltage requirements for this device.

• If this device is installed in places with unsteady voltage, ground the device to discharge high energy such as electrical surges in order to prevent the power supply from burning out.

ns

- When this device is in use, ensure that no water or any liquid flows into the device. If water or liquid unexpectedly flows into the device, immediately power off the device and disconnect all cables (such as power cables and network cables) from this device.
- Do not place the thermal imaging camera and unpackaged products at a radiation source with a high intensity regardless of whether the device is in the normal poweron state, for example, the sun, laser, and electric arc welder, and place the thermal imaging camera and unpackaged products against objects with a high heat source, for example, the sun. Otherwise, the accuracy of the thermal imaging camera will be affected. In addition, the detector in the thermal imaging camera may be permanently damaged.
- If this device is installed in places where thunder and lightning frequently occur, ground the device nearby to discharge high energy such as thunder strikes in order to prevent device damage.

- Unless otherwise specified in the user manual, do not use the thermal imaging camera in an environment with the temperature lower than -20°C (-4 F) or higher than 60°C (+140 F). Otherwise, the images displayed by the thermal imaging camera are abnormal and the device may be damaged if working beyond the temperature range for a long period.
- During the outdoor installation, prevent the morning or evening sunlight incidence to the lens of the thermal imaging camera. The sun shade must be installed and adjusted according to the angle of the sunlight illumination.
- Avoid heavy loads, intensive shakes, and soaking to prevent damages during transportation and storage. The warranty does not cover any device damage that is caused during secondary packaging and transportation after the original packaging is taken apart.
- This device is a static sensitivity device. Improper static may damage the thermal imaging camera. ESD protection measures and reliable grounding must be well prepared for device installation and uninstallation.
- Protect this device from fall-down and intensive strikes, keep the device away from magnetic field interference, and do not install the device in places with shaking surfaces or under shocks.
- Use a soft and dry cloth to clean the device body. In case that the dirt is hard to remove, use a dry cloth dipped in a small amount of mild detergent and gently wipe the device, and then dry it again. Pay special attention to the front window of the thermal imaging camera because this is precision optics. If the front window has water spots, use a clean and soft cloth moistened with water to wipe it. If the front window needs further cleaning, use a soft cloth dampened with isopropyl alcohol or detergent. Improper cleaning can cause damage to the device.
- The lens window of the thermal imaging camera is designed to be applicable to an outdoor environment. The window is coated with durable coating material, but may

ns

require frequent cleaning. When you found lens image degradation or excessive accumulation of pollutants, you should clear up the window in a timely manner. Exercise caution when you use this device in severe sandstorm (such as deserts) or corrosive environments (such as offshore). Improper use may cause surface coating off.

- Do not jam the ventilation opening. Follow the installation instructions provided in this document when installing the device.
- Keep the device away from heat sources such as radiators, electric heaters, or other heat equipment.
- Keep the device away from moist, dusty, extremely hot or cold places, or places with strong electric radiation.
- If the device is installed outdoors, take insect- and moisture-proof measures to avoid circuit board corrosion that can affect monitoring.
- Remove the power plug if the device is idle for a long time.
- Before unpacking, check whether the fragile sticker is damaged. If the fragile sticker is damaged, contact customer services or sales personnel. The manufacturer shall not be held responsible for any artificial damage of the fragile sticker.

Special Announcement

All complete products sold by the manufacturer are delivered along with nameplates, operation instructions, and accessories after strict inspection. The manufacturer shall not be held responsible for counterfeit products.

This manual may contain misprints, technology information that is not accurate enough, or product function and operation description that is slightly inconsistent with the actual product. The manufacturer will update this manual according to product function enhancement or changes and regularly update the software and hardware described in this manual. Update information will be added to new versions of this manual without prior notice.

This manual is only for reference and does not ensure that the information is totally consistent with the actual product. For consistency, see the actual product.

Contents

PrecautionsI
ContentsIV
1 Product Overview
1.1 About Product 1
1.2 Features 1
1.3 Device Dimensions
1.4 Cable Connection
2 Quick Configuration
2.1 Login and Logout
2.2 Homepage Layout
2.3 Changing the Password
2.4 Browse Video 10
2.4.1 Install Plugins11
2.5 Setting Local Network Parameters
3 Visible Sensor Configuration15
3.1 Accessing the Sensor Interface 15
3.2 Mode
3.3 Image Adjust 16
3.4 Scene
3.5 Exposure
3.6 WB
3.7 DayNight
3.8 Noise Reduction
3.9 Enhance Image
3.10 Zoom Focus
4 Thermal Sensor Configuration27
4.1 Accessing the Sensor Interface 27
4.2 Mode
4.3 Images
4.4 Scene
4.5 Set Pseudocolor
4.6 FFC Control

User Manual	Contents
4.7 Noise Reduction	
4.8 Enhance Image	
5 Human Thermometer Setting	
5.1 Parameter Configure	
5.1.1 Schedule Linkage	
5.2 Thermal Mapping	
5.3 Bad Point Check	
5.4 Thermal Calibration	
6 Intelligent Analysis	
6.1 Perimeter	
6.2 Single Virtual Fence	
6.3 Double Virtual Fences	
6.4 Object Left	59
6.5 Object Removed	61
7 Alarm Setting	64
7.1 Alarm Output	64
7.2 Disk Alarm	65
7.3 Network Alarm	65
7.4 I/O Alarm Linkage	66
7.5 Motion Alarm	67
7.6 Push Message	68
8 Other Web Configurations	
8.1 Device Information	
8.2 Stream	
8.2.1 Base Stream	
8.2.2 SVC Stream	
8.2.3 ROI	
8.2.4 Snapshot	
8.3 Device	
8.4 External Device	
8.5 Device Record	
8.6 Privacy Masking	
8.7 Network Service	
8.8 Privacy Manager	
8.9 Protocol	
8.10 Device Log	
8.11 Maintenance	
8.12 Local Config	

1 Product Overview

1.1 About Product

- The body temperature detection camera is integrated with the thermal imaging and temperature measuring, visible fusion, core image intelligent analysis, etc.
- Unique double registration mechanism, visible light and thermal imaging is reflecting the same scene.
- The body temperature detection camera is high precision, that is less than 0.3 °C and built-in automatic temperature correction, completely eliminate the temperature drift, it can work stable and reliable for long time.
- Real-time temperature measure, synchronous automatically measure, response time within 30 milliseconds when test people through the detection area, make sure there are no omissions.
- Intelligent body temperature and visible light image channel display details information to easily monitor and discriminate.
- Smart over temperature alarm and location, sound and light alarm, track rapidly when temperature was abnormal.

It is suitable for customs, schools, airports, stations, prisons and other public places with large flow of people to conduct rapid temperature screening.

1.2 Features

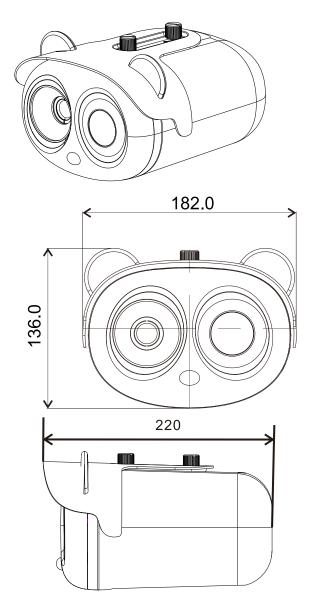
- Using the uncooled infrared focal plane sensor.
- Detecting the infrared wavelength ranging from 8 um to 14 um.
- High thermal sensitivity, reaching 50 mK.
- Supporting dedicated lens for 8/15/25/35/50 mm focal distance (optional).
- Supporting 17 pseudo color modes such as black hot, white hot, rainbow, iron bow and so on.
- Supporting the DVE image enhancement.
- Supporting noise reduction and mirroring.
- Supporting three coding algorithms, there are H.265, H.264 and MJPEG, it is high compatibility.

- In the heat setting temperature measuring points in the image or temperature area, temperature detection and display: point temperature measurement, regional temperature measuring, full screen, temperature measurement.
- Over-temperature warning, temperature difference alarm and over-temperature alarm.
- Outputting three code streams in real time, and satisfying local storage and network transmission of the video.
- 1-channel audio input and 1-channel audio output, supporting bidirectional voice talkback.
- Supporting the local storage of the Micro SD card (the maximum capacity is 128 GB) and effectively resolving the video loss problem caused by network failure.
- Providing software and hardware watchdogs and automatic fault recovery.
- Linked heat dissipation structure of the metal enclosure.
- DC 12 V /POE.

1.3 Device Dimensions

1.4 shows the dimensions of device.

Figure 1-1 Dimensions (unit: mm)



1.4 Cable Connection

Figure 1-2 the multi-connector combination cable of the thermal imaging integrated network camera. For details about the multi-connector combination cable, please refer to Table 1-1.

Figure 1-2 Multi-connector combination cable

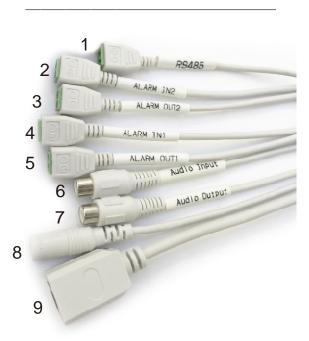


Table 1-1 Multi-connector combination cable

ID	Core of Cable	Functions
1	RS485	RS485 interface connects to the external pan & tilt.
2	ALARM IN2	Connects to the alarm device.
3	ALARM OUT2	
4	ALARM IN1	
5	ALARM OUT1	
6	Audio Input	Inputs the audio signal and receives the analog

		audio signals from the sound pick-up device.
7	Audio Output	Connects to the external audio device such as the voice box.
8	DC12V (2A)	Power interface, connects to the 12 V DC power supply.
9	Network interface	Connects to the standard Ethernet cable.

2 Quick Configuration

2.1 Login and Logout



You must use Internet Explorer 8 or a later version to access the web management system; otherwise, some functions may be unavailable.

Login system

Step 1 Open the Internet Explorer, enter the IP address of camera (default value is 192.168.0.121) in the address box, and press Enter. The login page is displayed, as shown in Figure 2-1.

IP CAMER	RA English -
User Name Password	Login

Figure 2-1 Login page

Step 2 Input the user name and password.

- The default name and password both are admin. Modify the password when you log in the system for first time to ensure system security. After modifying password, you need to wait at least three minutes then power off to make sure modifying successfully. Or login the Web again to check the new password.
- User can change the system display language on the login page.
- Step 3 Click Login. The homepage is displayed.

----End

logout

To logout of system, click F in the upper right corner of the homepage, the login page is displayed after you logout of the system.

2.2 Homepage Layout

On the homepage, user can view real-time video, playback and configuration. User can set parameter, Video parameter, Video control, PTZ control, PTZ Configure and logout of the system. Figure 2-2 is shown the homepage layout. Table 2-1 lists the elements on the homepage layout.



Figure 2-2 Homepage layout

Table 2-1 Elements on the homepage

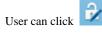
NO.	Element	Description	
1	Real-time video area	Real-time videos are played in this area. You can also set sensor parameters.	
2	Playback	You can query the playback videos in this area. NOTE Only when the SD card or NAS have videos that you can query the playback videos.	
3	Configuration	You can choose a menu to set device parameters, including the device information, audio and video streams, alarm setting, and privacy mask function.	

NO.	Element	Description	
4	Alarm icon	When the device generates an alarm, the alarm icon is displayed. You can click to view the alarm information. NOTE When the device accepts an alarm signal, the alarm icon will display within 10s in the web management system.	
5	Change password	You can click it to change the password.	
6	Sign Out	You can click to return to the login page.	
7	Channel	Channel 1: visible light. Channel 2: thermal image.	
8	Stream	Four streams. You can set details at configuration base stream interface. Stream 4 is SVC stream.	
9	PTZ	PTZ × + 4 Preset Track Scan Track Scan Tour Idle Time Idle Add Preset Image: Add Image: Add Image: Add Image: Add	
10		 :play/pause :switch the mode :audio :interphone :senor, or click right mouse button, more details please refer to <i>chapter 3</i>. :snapshot :snapshot :record video to local storage :intelligent analysis, 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 IAS settings. 	

----End

2.3 Changing the Password

Description



to change the password for logging in to the system.

Procedure

Step 1 Click

in the upper right corner of the main page.

The Change Password dialog box is displayed, as shown in Figure 2-3.

Figure 2-3 Change password dialog box

Change Password	×
-----------------	---

Old Password	
New Password	
Confirm	

Password Advice:

 Advice the password length of eight characters.
 Advice the password includes numbers, capital letters, lowercase letters and special characters.
 Advice the password can not be the same as username.



🛄 ΝΟΤΕ

- The change password page will be displayed if you don't change the default password when you login the system for the first time.
- Step 2 Input the old password, new password, and confirm 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.)

----End

2.4 Browse Video

User can browse the real-time video in the web management system.

Preparation

To ensure the real-time video can be played properly, you must perform the following operations when you log in to the web for the first time:

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

In the display dialog box, click Add, as shown in Figure 2-4.

Figure 2-4 Adding the a trusted site

Internet Options	? ×	Trusted sites	\times
General Security Privacy Content Connections Programs Select a zone to view or change security settings.	Advanced	You can add and remove websites from this zone. this zone will use the zone's security settings.	All websites in
Internet Local intranet Trusted sites		Add this website to the zone: https://192.168.0.121	Add
Trusted sites This zone contains websites that you trust not to damage your computer or your files. You have websites in this zone. Security level for this zone	25	Websites:	Remove
Custom Custom settings To change the settings, click Custom level To use the recommended settings, click Default level. Enable Protected Mode (requires restarting Internet Explorer) Custom level Default level		[Close
Reset all zones to default OK Cancel			

Step 2 In the Internet Explorer, choose Tool > Internet Options > Security > Customer level, and set Download unsigned ActiveX control and initialize and script ActiveX controls not marked as safe for scripting under ActiveX controls and plug-ins to Enable, as shown in Figure 2-5.



Internet Properties	Security Settings
General Security Privacy Content Connections Programs Advanced Select a Web content zone to specify its security settings. Image: Security settings Image: Security settings Image: Security settings Internet Local intranet Trusted sites Restricted sites Internet Image: Security settings Image: Security settings	Settings: ActiveX controls and plug-ins Automatic prompting for ActiveX controls Disable Enable Disable Disable Disable Disable Disable Disable Disable
Average of the security level for this zone. Security level for this zone Move the sider to set the security level for this zone. Move the sider to set the security level for this zone. Sec	Enable Download signed ActiveX controls Disable Enable Prompt Download unsigned ActiveX controls Reset custom settings Reset to: Medium Reset
Custom Level Default Level	OK Cancel

Step 3 Download and install the player control as prompted.

🛄 ΝΟΤΕ

The login page is displayed when the control is loaded.

2.4.1 Install Plugins

You will be prompted with a message "click here to use short delay Plugin for Live Video" as shown in Figure 2-6 when you log in to the web management system for the first time.

Live Video Playback Configuration Image: Configuration and the literation of the	8 -					CAMERA
install it usedlate vuented to download the latest vic chuain			Configuration	Playback	Live Video	
install it usedlate vuented to download the latest vic chuain						
install it iudiana iudiana iudiana iudiana						
install it iudiana iudiana iudiana iudiana						
install it isolate if the second secon						
install it /undersea /undersea /undersea						
install it /undersea /undersea /undersea						
install it isolate if the second secon						
- <u>Useflipeo</u> - <u>Voor need to download the latest vic plugin</u>		ad and	or later, please download an	Requires VLC 2.2		
 You need to download the latest vic plugin 				install it		
You need to download the latest vic plugin (Please respen the browser after installing)				UseMipeg		
			e latest vic plugin r installing)	You need to download (Please reopen the browser a		

Figure 2-6 Download the plugin page

User Manual

- Step 1 Click the message, download and install the plugin follow the prompts.
- Step 2 Reopen the browser after installation.
- Step 3 On live video page, you can operate these buttons as shown in live video.

🛄 ΝΟΤΕ

- Channel switch, choose channel 1 view the visible picture, channel 2 is thermal picture.
- During installing plugins, you need to close the browser, finish the installation, login the device again.

----End

2.5 Setting Local Network Parameters

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 Configuration > Device >Local Network.

The Local Network page is displayed, as shown in Figure 2-7.

User Manual

Figure 2-7 Device information

	Live Video	Playback	Configuration		2
		2 Local Network			
Device Info					
🛎 Stream		Network Card ID		1	
Device					
- O Local Network		IP Protocol		IPv4 V	
- O Device Port					
 Date and Time 		DHCP		044	
- O Camera		IP Address		192.168.0.120 ×	
- O OSD		Subnet Mask		255 255 0 0	
- O Microphone		Construction Construction			
O CVBS		Default Gateway		192.168.10.254	
- O System					
- O Voice Denoise		Preferred DNS Server			
 Software Licenses 		Alternate DNS Server			
- External Device		MTU(1280-1500)		1500	
- Intelligent Analysis		(1200-1300)		[1900]]	
🚯 Alarm					
- Human Thermometer				Refresh Apply	
Device Record				Remesni Apply	
Privacy Masking					
- 10 Network Service					
- Si Privilege Manager					
Protocol					
- Device Log					
Maintenance					
- The Local Config					

Step 2 Set the parameters according to Table 2-2. Table 2-2 Local network parameters

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
DHCP	The device automatically obtains the IP address from the DHCP server.	[Setting method] Click the option button. 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] 192.168.0.121

		Quick Colling
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] 192.168.0.1
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] 192.168.0.2
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 OK.

- If the message "**Apply success**" is displayed, click OK. The system saves the settings. The message "**Set network pram's success**, Please login system again" is displayed. Use the new IP address to log in to 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.

- If you set only the Subnet Mask, Default Gateway, Preferred DNS Server, and Alternate DNS Server parameters, you do not need to login to the system again.
- You can click Reset to restore the previous parameters if required.

----End

3 Visible Sensor Configuration

3.1 Accessing the Sensor Interface

Procedure

Step 1 On the web or NVMS 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 3-1 Figure 3-1 Sensor setting interface

Full Screen
Sensor
ZoomIn
ZoomOut
Restore Panorama

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

All sensor configure can be modified at debug mode. Click Standard
in the lower left corner of Sensor Setting, and choose Debug Mode.

3.2 Mode

Step 1 Click Standard T in the lower left corner of Sensor Setting, and choose Debug Mode. As shown in Figure 3-2.

Sensor	Setting								×
Mode	Image	Scene	Exposure	WB	DayNight	Noise I	Reductio	n Enhance Ima	ige Zoc ◀ ▸
Su	vitch Mod	ie Non		~	Start Time	00	~ :	00 ~	
	VICT INO	NON	e	~	Start Hills	00	· ·	00 ~	
					End Time	24	\sim :	00 ~	
Debug I	Modi \sim	Scheme	e1 ~	Factor	rySetting			Reset	Save

- Step 2 Choose the switch mode from the drop-down list.
- Step 3 Time mode: Set the Start Time, set the End Time. DN linkage Mode, the day mode is correspond to scheme 1, the night mode is correspond to scheme 2.
- Step 4 Click Save, the message "Save succeed" is displayed, the system saves the settings.

3.3 Image Adjust

Figure 3-3 shows the Image Adjust tab page.



Figure 3-3 Image

Table 3-1 describes the parameters on the Image Adjust tab page.

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
Sharpness	It indicates the border sharpness of an image. As the value increases, the borders become clearer, and the number of noise points increases.	[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
Contrast	It indicates the measurement of different brightness levels between the brightest white and darkest black in an image. The larger the difference range is, the greater the contrast; the smaller the difference range is, the smaller the contrast	[Setting method] Drag the slider. [Default value] 50

Table 3-1 Parameters of Image

3.4 Scene

Figure 3-4 shows the scene tab page.

Figure 3-4 Scene

Sensor Setting					×
Mode Image Scene	Exposure WB	DayNight	Noise Reduction	Enhance Image	Zoc · ·
Scene Mirror	Outdoor Normal Tip: Please update	→ × the MotionDe	stection.PrivacyMa	sk,Intelligent	
	Analysis,ROI and (er [Aisle Mode]/[Mi		
Debug Mode 🗸 Scheme	e1 ∨ Facto	orySetting		Reset	Save

Table 3-2 describes the parameters on the scene tab page.

Table 3-2 Parameters of scene

Parameter	Description	Configuration Method
Scene	Indoor or outdoor.	[Setting method] Select a value from the drop-down list. [Default value] Indoor
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+ Vertical: The image rotates at 180 degrees. 	[Setting method] Select a value from the drop-down list. [Default value] Normal

3.5 Exposure

Figure 3-5 shows the Exposure tab page.

Figure 3-5 Exposure

Sensor Setting	I					×
Mode Image	Scene Exposure	WB D	ayNight Noise	Reduction	Enhance Ima	ge Zoc 🔸 🕨
xposure Mode Meter area	Auto Whole	~	Max Shutter Max Gain	1/25 0	•	50 100
Debug Mode \vee	Scheme 1 🗸	FactoryS	etting		Reset	Save

Table 3-3 describes the parameters on the Exposure setting tab page.

Table 3-3 Parameters of exposure setting

Parameter	Description	Configuration Method
Exposure Mode	 The exposure modes include: Auto: The system performs auto exposure based on the monitoring environment. Manual: You can set Shutter Setting to fixed values manually. Iris Priority: 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	Choose the area to meter	[Setting method] Select a value from the drop- down list. [Default value] Whole

Temperature Detection Camera Manual Visible Sensor Configuration					
Max Shutter	It is valid in Iris Priority mode. You can select a maximum shutter speed. As the value increases, the image becomes brighter.	[Setting method] Select a value from the drop- down list. [Default value] 1/25			
Max gain	It indicates the maximum gain. The device automatically adjusts the gain based on the external light, and the gain is less than or equal to the value of this parameter.	[Setting method] Drag the slider. [Default value]			

50

3.6 WB

Figure 3-6 shows the WB tab page.

Figure 3-6 WB

Sensor Setting				×
Mode Image Scene Exposure	WB DayNight	Noise Reduction	Enhance Image	Zoc
Mode	Auto	~		
Red Gain		0		
rice our	0	100		
Blue Gain		0 100		
Debug Modi V Scheme 1 V	FactorySetting		Reset	Save

Table 3-4 describes the parameters on the WB tab page.

Parameter	Description	Configuration Method
Mode	 It is used to display the real color of a monitoring scenario when the color temperature changes. Auto: camera adjusts automatically. Tungsten: at tungsten lamp environment. Fluorescent: fluorescent environment. Daylight: at daylight environment. Shadow: at low light environment. Manual: adjust red and blue gain manually. 	[Setting method] Select a value from the drop- down list. [Default value] Auto

Table 3-4 Parameters of W	В
---------------------------	---

3.7 DayNight

Figure 3-7 shows the day-night tab page.

Figure 3-7 Day-night

Sensor Setting				×
Mode Image Scene E	Exposure WB D	ayNight Noise Reduction	Enhance Image	Zoc • •
	D/N Setting Auto	~		
TRA	ANSI.(D->N)	70 100		
TRA	ANSI.(N->D)	30 100		
	Delay(s)	180		
Debug Modi V Scheme 1	✓ FactoryS	etting	Reset	Save

Table 3-5 describes the parameters on the Special Function tab page.

Parameter Description Configuration						
1 afaineter	Description	Method				
DayNight Mode	 It can be set to Auto, Day Mode, Night Mode and Timing. Auto mode The image color is adjusted based on the day/night mode. In auto mode, the image switches between the colored state and the black and white state based on the brightness. In day mode, the image is colored. In night mode, the image is black and white. 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 all types of light to enter the sensor. Timing Select time from the drop-down list by the "Day To Night Time" and "Night To Day Time". 	[Setting method] Select a value from the drop- down list. [Default value] Day Mode				
Trans (D to N)	Day transit to night.	[Setting method] Drag the slider. [Default value] 50				
Trans (N to D)	Night transit to day.	[Setting method] Drag the slider. [Default value] 50				
Delay	N/A	[Setting method] Drag the slider. [Default value] 5				

Table 3-5 Parameters of day night

3.8 Noise Reduction

Figure 3-8 shows the noise reduction tab page.

Figure 3-8 Noise Reduction

Sensor Setting	×
Mode Image Scene Exposure WB Da	yNight Noise Reduction Enhance Image Zoc
2D NR Auto Max Strength 50 0 100	☑ 3D NR Auto Max Strength 50 0 100
Debug Modi 🗸 Scheme 1 🗸 FactorySe	tting Reset Save

Table 3-6 describes the parameters on the Special Function tab page.

Parameter	Description	Configuration Method
2D NR	Auto /manual, default value is auto. By comparing and screening the images of the two frames before and after, the noise point position is found out and gain control is carried out on them.	[Setting method] Drag the slider strength. [Default value] Auto / 50
3D NR	Auto /manual, default value is auto. The 3D digital noise reduction function can reduce the noise interference of the weak signal image.	[Setting method] Drag the slider of strength. [Default value] Auto / 50

Table 3-6 Parameters	of noise reduction
----------------------	--------------------

3.9 Enhance Image

Figure 3-9 shows the enhance image Setting tab page.

Sensor	Setting								×
Mode	Image	Scene	Exposure	WB	DayNight	Noise Reduc	ction	Enhance Ima	ge Zoc 1 1
	WDR	0	-	100	50	Anti-shake			
	HLC	0		100	_	DeFog	0	-	50 100
	BLC	0	-	100	50				
Debug	Modi \sim	Scheme	1 ~	Factory	ySetting			Reset	Save

Table 3-7 describes the parameters on the enhance image setting tab page.

Table 3-7 Parameters of enhance image

	-	
Parameter	Description	Configuration Method
WDR	It is intended to provide clear image performance in strong backlight areas such as exterior light coming through a window or glass door. High contract light conditions are no longer a problem when you need to capture detailed images.	[Setting method] Drag the slider. [Default value] 50
HLC	It indicates reverse bright points in the picture to black. As an effective approach to recognize vehicle plate number at night, HLC function can detect any spotlight diffused by object-vehicle and compensate it for obtaining clearer image.	[Setting method] Drag the slider. [Default value] 50
BLC	It indicates Back Light Compensation (BLC) automatically brings more detail to darker areas of an image when bright light shining from behind obscures it and provides perfect exposure for an object in front of very strong back light. The electronic shutter of the camera basically adjusts its exposure to try to allow for more light to be allowed in the darker areas. Im NOTE This parameter applies only to visible light.	[Setting method] Drag the slider. [Default value] 50

Visible Sensor Configuration

Anti-shake	When the camera shakes out, it is processed by algorithm compensation	[Default value] Disable
Defog	It indicates the camera defog automatically.	[Setting method] Drag the slider. [Default value] 50

3.10 Zoom Focus

Figure 3-10 shows the enhance image Setting tab page.

Sensor	Setting						×
Scene	Exposure WB	DayNight	Noise	e Reduction	Enhance Image	Zoom Focus	4 1
	D/N Auto Focus	8	÷.	[*]	[+]Auto Focus	Once	
		[P	ľ	Lens Initializa	ation	
Debug I	Modi v Scheme 1	~ 1	Factor	ySetting		Reset	Save

Figure 3-10 Zoom focus

Table 3-8 describes the parameters on the enhance image setting tab page.

Table 3-8 Parameters of zoom focus

Parameter	Description	Configuration Method
D/N Auto Focus	Enable the function, if the light is changed, it will focus automatically.	[Setting method] Tick

Visible Sensor Configuration

	 :zoom out :zoom in :near focus :far focus 	[Setting method] Click
Auto focus once	N/A	[Setting method] Click
Lens initialization	N/A	[Setting method] Click

4 Thermal Sensor Configuration

4.1 Accessing the Sensor Interface

Operation Procedure

Step 1 On the Internet Explorer interface or the client software interface, choose channel 2 select and right-click the surveillance image to the set, as shown in Figure 4-1. Figure 4-1 Sensor configuration

Full Screen
Sensor
ZoomIn
ZoomOut
Restore Panorama

Step 2 Choose **Sensor**. The **Sensor Configuration** dialog box is displayed, as shown in Figure 4-2.

----End

4.2 Mode

Figure 4-2 shows the Mode interface.

sor Setting									
de Image So	ene	Set Pseudo	color	FFC Control	Noise	Redu	ction	Enhance Im	age
Switch Mode	None		\sim	Start Time	00	\sim		00 ~	
				End Time	24	\sim		00 ~	

Operation Procedure

- Step 2 Click Standard T in the lower left corner of Sensor Setting, and choose Debug Mode.
- Step 3 Choose switch mode from the drop-down list
- Step 4 Time mode: Set the Start Time, set the End Time. DN linkage Mode, the day mode is correspond to scheme 1, the night mode is correspond to scheme 2.
- Step 5 Click Save, the message " Save succeed " is displayed, the system saves the settings.

----End

4.3 Images

Figure 4-3 shows the image setting interface.

Figure 4-3 Image setting interface



- Step 2 Click Standard T in the lower left corner of Sensor Setting, and choose Debug Mode.
- Step 3 Drag the slider to adjust parameter of image.
- Step 4 Click Save, the message "Save succeed" is displayed, the system saves the settings.

🛄 ΝΟΤΕ

- Brightness :It indicates the total brightness of an image. As the value increases, the image becomes brighter. It ranges from 0 to100.
- Contrast : It indicates the contrast between the bright part and the dark part of an image. As the value increases, the contrast increases. It ranges from 0 to 100.
- Sharpness: it indicates the contrast between definition and edge sharpness. The higher value, the higher definition and greater distortion. It ranges from 0 to 100

----End

4.4 Scene

Figure 4-4 shows the scene setting interface.

Figure 4-4 Scene setting interface

Sensor Setting	Х			
Mode Image Scene Set Pseudocolor FFC Control Noise Reduction Enhance Image				
Mirror Normal ~				
Tip: Please update the MotionDetection,PrivacyMask,Intelligent Analysis,ROI and OSD Area after [Aisle Mode]/[Mirror] was changed.				
Debug Modi V Scheme 1 V FactorySetting Reset Save				

- Step 2 Click Standard T in the lower left corner of Sensor Setting, and choose scene
- Step 3 Choose mirror mode from drop-list.
- Step 4 Click Save, the message "Save succeed" is displayed, the system saves the settings.

- Mirror providing the selection of image pixel locations.
- Normal: the image is not flipped.
- Horizontal: the image is flipped left and right.
- Vertical: the image is flipped up and down.
- Horizontal + Vertical: the image is rotated at 180 degree.

----End

4.5 Set Pseudocolor

Figure 4-5 shows the scene setting interface.

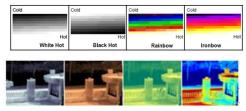
Figure 4-5 Set pseudocolor setting interface

Sensor Setting	×
Mode Image Scene Set Pseudocolor FFC Control Noise Reduction Enhance Image	
Polarity / LUT White Hot 🗸	
Temperature Strip Switch On V	
Debug Mode v Scheme 1 v FactorySetting Reset Save	

- Step 2 Click Standard
 in the lower left corner of Sensor Setting, and choose set
 pseudo color
- Step 3 Choose polarity/LUT mode from drop-list.
- Step 4 Enable or disable the temperature strip switch
- Step 5 Click Save, the message "Save succeed" is displayed, the system saves the settings.

🛄 ΝΟΤΕ

The temperatures of the temperature fields detected by the thermal imaging camera are separately mapped to values ranging from 0 to 255 by the algorithm. In the black/white display mode, this range is converted to the gray scale tones. For example, 0 indicates completely black, and 255 indicates completely white. The temperature field of the scene is converted to images by using the grayscale ranging from 0 to 255. Different polarity modes can be converted to different display images. The most common setting is white hot (a hotter object is displayed brighter than a colder object) or black hot (a hotter object is displayed darker than a colder object). The difference between two modes lies in that the temperatures corresponding to the darker one and the lighter one are reversed. Other modes include rainbow, ironbow, HSV, autumn, bone and so on.



4.6 FFC Control

Figure 4-6 shows the FFC control interface.

Figure 4-6 FFC control interface

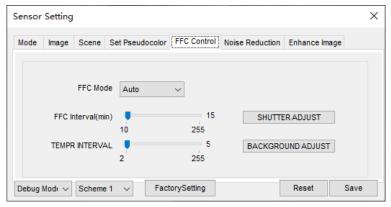


Table 4-1 lists the parameters on the FFC control interface.

Table 4-1	Parameters	on the	FFC	control	interface
-----------	------------	--------	-----	---------	-----------

Parameter	Description	Setting
FFC Mode	The internal of the thermal imaging camera may comprise the mechanical action correction mechanism that can periodically improve the image quality. This component is called flat field correction (FFC). When controlling the FFC, the FFC shields the sensor array, so that each portion of the sensor can collect uniform temperature fields (flat field). By means of FFC, the camera can update the correction coefficients to output more uniform images. Throughout the FFC process, the video image is frozen for two seconds and a static-frame image is displayed. After the FFC is complete, the image is automatically recovered. Repeated FFC operations can prevent the grainy and image degradation problems. The FFC is especially important when the temperature of the camera changes. For example, after the camera is powered on or the ambient temperature is changed, you should immediately perform the FFC. Auto : In the Automatic FFC mode, the camera performs FFC whenever its temperature changes by a specified amount or at the end of a specified period of time (whichever comes first). When this mode is selected, the FFC interval (minutes) ranges from 5 to 30 minutes. The temperature change of the camera is based on the temperatures	[How to set] Select from the drop-down list box. [Default value] Auto

Parameter	Description	Setting
	collected by the internal temperature probe. The temperature of the camera sharply changes when the camera is powered on. The FFC is relatively frequent, which is normal. Manual : In the manual FFC mode, the camera does not automatically perform the FFC based on the temperature change or the specified period. You can press the Do FFC button to select the manual FFC mode. When you feel that the image is obviously degraded but the automatic FFC is not performed, you can use the manual FFC function to check whether the image quality can be improved.	
FFC interval (min)	In the automatic FFC mode, the FFC interval ranges from 10 to 255 minutes. When the time reach to setting value, the camera do shutter adjust operation automatically.	[How to set] Select by dragging the slider. [Default value] 15
Tempr interval	In the automatic FFC mode, the tempr interval value ranges from 5 to 255 degree centigrade. When the time reach to setting value, the camera do background adjust operation automatically.	[How to set] Select by dragging the slider. [Default value] 5
Shutter adjust	Click the icon and camera perform the action.	Manually
Background adjust	Click the icon and camera perform the action.	Manually

----End

4.7 Noise Reduction

Figure 4-7 shows the Noise reduction interface.

Figure 4-7 Noise reduction interface

Sensor Setting	Х
Mode Image Scene Set Pseudocolor FFC Control Noise Reduction Enhance Image	
✓ 2D NR Auto ✓ ✓ 3D NR Auto ✓ Max Strength 50 Max Strength 50 100 50	
Debug Modi V Scheme 1 V FactorySetting Reset Save	

Table 4-2 lists the Noise reduction parameters.

Parameter	Description	Setting
2DNR	Decrease the image noise.	[How to set] Select from the drop-down list box. [Default value] Close
3DNR	Decrease the image noise.	[How to set] Select from the drop-down list box. [Default value] Close

----End

4.8 Enhance Image

Figure 4-8 shows the **Enhance image** interface.

Figure 4-8 Enhance image interface

Sensor	Setting						×
Mode	Image	Scene	Set Pseudocolor	FFC Control	Noise Reduction	Enhance Im	age
			DeFog		50		
				U	100		
Debug	Modi 🗸	Scheme	a1 ∨ Fact	orySetting	[Reset	Save
Debug	Modi ~	Scheme		orysetting		Resei	Jave

- Step 2 Click Standard T in the lower left corner of Sensor Setting, and choose enhance image.
- Step 3 Tick **defog**, then drag the slider to set. It ranges from 0-100, the default value is 50.
- Step 4 Click Save, the message "Save succeed" is displayed, the system saves the settings.

----End

5 Human Thermometer Setting

5.1 Parameter Configure

Operation Procedure

Step 1 Choose Configuration >human thermometer >parameter configure.

The parameter configure page is displayed, as shown in Figure 5-1.

Figure 5-1 Temperature Parameters interface



Face Detection	
Display Trace Info	Mode1 💌
Show Detection Area	ON
Confidence Coefficient	Mid 🔻
Area ID	1 🔻
Face Pixel Min(1-2000)	70
Face Pixel Max(1-2000)	1000
Image Matting Quality	Mid 🔻 🎽
Snapshot Mode	Optimal 💌 🚬
Snapshot Count	4
Yaw Degree(0-90)	60
Tilt Degree(0-90)	30
Pitch Degree(0-90)	60
FTP Upload Image Matting	OFF
FTP Upload Whole Image	OFF
Algorithms Library Version	V1.6.0

Step 2 Set the parameters according to Table 5-1.

Table 5-1 Parameter of face detection

Parameter	Description	Setting
Face detection	Detect face of human	[Setting method] Enable [Default value] On
Display trace	Display the information of tracing.	[Setting method] Enable the button [Default value] Mode 1

	Mode 1:	
Show detection area	Enable, the live video will show area of detection.	[Setting method] Enable
Confidence coefficient	Face detection sensitivity, the value range is high, medium, low, the larger the value is, the higher the sensitivity. The higher the sensitivity value is, the higher the detection rate will be, but the more false detection may occur, such as the false detection of the patterns on pedestrian clothes to adult faces.	[Setting method] Choose from drop -list [Default value] Medium
Area ID	There are 8 areas can be set to detect temperature. Choose from the drop-list, left- click to draw the area, right- click to finish the set.	[Setting method] Choose from drop -list [Default value] 1
Face pixel min (1-2000)	When the pixel of the face in the image is less than the set value (the minimum pixel for face recognition), it is not captured.	[Setting method] Input a number from 1 to 2000 [Default value] 30
Face pixel max (1-2000)	When the pixel of the face in the image is more than the set value (the maximum pixel for face recognition), it is not captured.	[Setting method] Input a number from 1 to 2000 [Default value] 70
Image matting quality	The quality of snap image, There are three mode can be chosen, such as low, mid and high.	[Setting method] Choose from drop list. [Default value] Medium
Snapshot mode	There are two types, timing and optimal.	[Setting method] Choose from drop -list [Default value] Timing
Upload image interval	The snapshot mode is optimal, set the interval.	[Setting method] Input a number from 1 to

		10 [Default value] 5
Snapshot count	At optimal mode, set the number of snapshot image	[Setting method] Input 1
Yaw degree(0-90)	Both eyes appear on the screen, offset in the left and right direction	[Setting method] Input a number from 0 to 90 [Default value] 30
Tilt degree(0-90)	The face is deflected, and both eyes cannot appear in the picture.	[Setting method] Input a number from 0 to 90 [Default value] 30
Pitch degree(0-90)	Face is moving up and down	[Setting method] Input a number from 0 to 90 [Default value] 30
FTP upload image matting	Configuration > Network Service > FTP, set FTP related parameters, the captured picture will be sent to the set FTP location	[Default value] Disable
FTP upload whole image	Capture a picture and send a whole image.	[Default value] Disable

Figure 5-2 Temperature parameters

Temperature Parameters	Face Alarm Linkage	
Enable		
Temperature Unit		Celsius
Ambient Temperature		25.00
Cavity Temperature		33.52
Correction Coefficient		0.00
Mount Distance		5.00
Face Color		ON
		Refresh Annly

Table 5-2 Temperature parameters

Parameter	Description	Setting
Temperature Unit	Celsius and Fahrenheit temperature units are available.	[Setting method] Select a value from the drop-down list box. [Default value] Celsius
Ambient Type	The ambient of camera. Outside and Inside are available. Inside suggest to be selected when the ambient temperature change frequently.	[Setting method] Select a value from the drop-down list box. [Default value] Outside
Ambient Temperature	The ambient temperature of camera. It is set when ambient is outside.	[Setting method] Enter a value manually.
Cavity Temperature	The cavity temperature of camera.	N/A

Parameter	Description	Setting
Correction Coefficient	Correction coefficient refers to the deviation of measured object temperature and actual temperature. For example: 1. The measured object temperature is 30, and actual temperature is 37, so the correction coefficient is 7 . 2. The measured object temperature is 37, and actual temperature is 30, so the correction coefficient is - 7 .	[Setting method] Enter a value manually. [Default value] 0.00
Mount distance	The actual distance between the detection person and the device, it is set to facilitate the temperature measurement accuracy.	[Setting method] Select a value from the drop-down list box. [Default value] General
Face color	Enable, if the carmera detect the face and the face will be covered color, normal is yellow, and high temperature is red, as shown in figure.	[Default value] Disable

Figure 5-3 Face alarm linkage

Temperature Parameters	Face Alarm Linkage	
Output Channel		
Alarm Rules		Maximum Temperatu
Alarm Temperature		38.00
Alarm Interval(1-1800S)		10
Alarm Record		ON
SMTP		ON
FTP Upload		ON

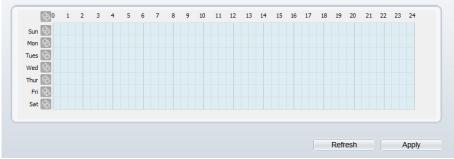


Table 5-3 Temperature parameters

Parameter	Description	Setting
Output channel	Choose channels to output alarm	[Setting method] Tick the channels [Default value] Uncheck
Alarm rules	Set the maximum temperature greater than set value	[Default value] Maximum temperature greater than
Alarm Interval(1- 1800 S)	N/A	[Setting method] Input a number from 1 to 1800 [Default value] 10
Alarm record	Enable, install the SD card, when there is an alarm, the camera will record the current video.	[Setting method] Enable
SMTP	Enable, when there is an alarm, the camera will send mail.	[Setting method] Enable

FTP upload	Enable, when there is an alarm,	- 0	
	the camera will upload FTP.	Enable	

----End

5.1.1 Schedule Linkage

Operation Procedure

Step 1 Choose Configuration >human thermometer >parameter configure> Schedule Linkage.

The Schedule Linkage page is displayed, as shown in Figure 5-4.

hreshold Alarm	Thr	esho	old V	/arni	ing	Т	emp	erat	ture (Differ	ence	e Ala	rm	Т	emp	erati	ure [Differ	ence	e Wa	rnin	g	
utput Channel																						1	
larm Record																							OFF
MTP																							OFF
TP Upload																							OFF
Ø 1 2 Sun Sun Sun Sun Sun Mon Sun Sun Sun Sun Wed Sun Sun Sun Sun Fri Sun Sun Sun Sun	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
																	Ref	resh			,	App	ly

Figure 5-4 Schedule Linkage

- Step 2 Choose threshold alarm, threshold temperature difference alarm, threshold warming and temperature difference warming to set. All of these four settings are the same ways to set.
- Step 3 Check the output channel.
- Step 4 Set schedule linkage.
- Step 5 Click Apply.
- Step 6 The message "Apply success" is displayed, the system saves the settings.

- **Method 1:** Click left mouse button to select any time point within 0:00-24:00 from Monday to Sunday as shown in Figure 5-4.
- Method 2: Hold down the left mouse button, drag and release mouse to select the alarm 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 sin the alarm time page to select the whole day or whole week.
- Deleting alarm time: Click 🔯 again or inverse selection to delete the selected alarm time.

----End

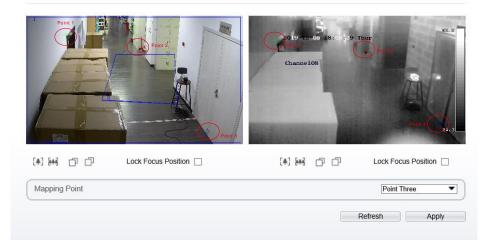
5.2 Thermal Mapping

Operation Procedure

Step 1 Choose **Configuration** >**human thermometer** >**thermal mapping**, as shown in Figure 5-5.

Figure 5-5 Thermal mapping interface

🚖 Thermal Mapping



Step 2 Settings please refer to Table 5-4.

Parameter	Description	Setting
[*] [**]	Zoom in /zoom out.	[Setting method] Click the button
	Near focus / far focus.	[Setting method] Click the button
Lock focus position	N/A	[Setting method] Tick .
Mapping point	You need map three points at two channels. Points are correspond of each. The three points should cover most areas, and two points are located in the diagonal display of the picture. Point one is green cross. Point two is red cross. Point three is blue cross.	[Setting method] Select from drop list .

Table 5-4 Parameter of thermal mapping

Step 3 Click **Apply**. The message "**Apply success**" is displayed, the system saves the settings.

----End

5.3 Bad Point Check

• If the image is defect by detector's fault, user can test the function to recover the bad point. User should connect the manufactory at this condition to make sure to apply.

Operation Procedure

Step 1 Choose **Configuration** >**human thermometer** >**bad point check, if** there are some bad point as shown in Figure 5-6.

Figure 5-6 Bad point check interface

🚖 Bad Point Check



Step 2 Click the white point at image, click **Apply** to recover the bad point, as shown in Figure 8-5

Figure 5-7 Recover bad point



- Step 3 Click **Reset** to return the previous settings.
- Step 4 Click **Apply.** The message "Apply success" is displayed, the system saves the settings.

----End

5.4 Thermal Calibration

Enable the thermal calibration function; you need the special calibration tool to check the temperature, input the target temperature (the special calibration tool's temperature), emission rate and distance of tool, the software can compute automatically.

Operation Procedure

Step 1 Choose **Configuration** >**human thermometer** >**thermal mapping,** as shown in Figure 5-8.

Figure 5-8 Thermal calibration interface

Thermal Calibration

	Enable Display Area Info Target Temperature	ON
	Emission Rate Distance(M)	0.98
Clear	Refresh	Apply

- Step 2 Enable the button and display area info.
- Step 3 Input the target temperature, emission rate and distance.
- Step 4 Click **Apply**. The message "**Apply success**" is displayed, the system saves the settings.

- Emission rate is the thermal calibration device, blackbody's is 0.98.
- Distance depends the actual installation distance.
- The version information should be provided to sales technicians if the camera is malfunction.

Figure 5-9 Version Information

IP CAMERA				_	admin 🍰
	Live Video	Playback	Configuration	•	i) 🕨
	🚖 Version	n Information			
● 圏 Stream	MCU Versio	n		20191125	
Device					
E- & External Device	MCU Seque	nce Number		80611371	
Intelligent Analysis					
🖲 🚯 Alarm				Refresh	
- O Parameter Configure					
O Thermal Mapping					
- O Bad Point Check					
O Thermal Calibration					
··· O Version Information					

6 Intelligent Analysis

6.1 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 Configuration > Intelligent Analysis > Perimeter to access the Perimeter interface, as shown in Figure 6-1.

Figure 6-1 Perimeter Setting Interface

韋 Perimeter

	E	-	=	-	==	1		大教堂			-	-143	As.		En	able							[OFF
Lond I							-			E	-	-The		7	Lin	nit Ta	arge	t Typ	be				I		OFF
No.	EK.		~	100					-		1				Lin	nit Ta	arge	t Siz	е				[OFF
			1	-	.0.						7				Up	load	Tar	get I	nfo				I		OFF
2207	13		1	E.	1		-	T			1				Ou	tput	Cha	innel							1[]2
-			-	ľ	E -	P			1	14	-	7			Ala	ırm F	Reco	ord					1		OFF
					. N						С	lear	-		SN	ITP							Į		OFF
	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
		-	-	-	T T			Ń			10				-		-0							20	
an 🕅																									
Sun 🚺																									
Sun 🚺																									
Sun 🚺 Ion 🚺																									
Sun I Ion I Jes I Ied I																									
Sun Ion Jues Ved																									
Sun Ion Ues /ed																									

Step 2 Set all parameters for perimeter. Table 6-1 describes the specific parameters.

Parameter	Description	-
Parameter	Description	Setting
Channel	Channel 1: visible. Channel 2: thermal.	Choose one channel to set.
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, to avoid wrong alarms are triggered b person even if car is selected, 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 maximum100000 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 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

Table 6-1 Perimeter Parameter Description

Parameter	Description	Setting
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 serve.	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol.	[How to set] Click to enable FTP Upload. [Default value] OFF
PTZ Type	Set PTZ type for dome cameras and select corresponding PTZ type: Preset/Scan/Track/Tour.	[How to set] Select from the drop-down list.
Value	Select corresponding value from value after select PTZ type.	[How to set] Select from the drop-down list.

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 6-2. Figure 6-2 Deployment Area Setting Interface

- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 32 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 6-3.

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.

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

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

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

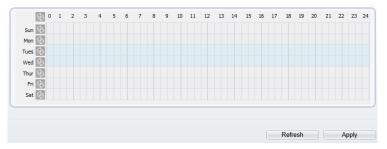


Figure 6-3 Deployment Time Setting Interface

----End

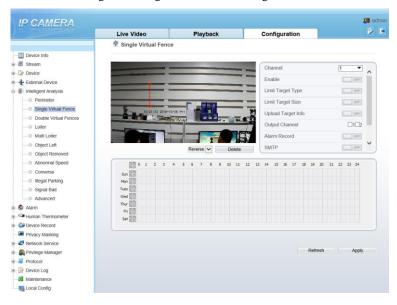
6.2 Single Virtual Fence

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 Configuration > Intelligent Analysis > Single Virtual Fence to access the Single Virtual Fence setting interface, as shown in Figure 6-4. Figure 6-4 Single Virtual Fence Setting Interface



Step 2 Set all parameters for the single virtual fence. Table 6-2 describes the specific parameters.

Table 6-2 Parameters of single Virtual Fence

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 maximum100000 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 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.

Parameter	Description	Setting
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.	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol.	[How to set] Click to enable FTP. [Default value] OFF
PTZ Type	Set PTZ type for dome cameras and select corresponding PTZ type: Preset/Scan/Track/Tour.	[How to set] Select from the drop- down list.
Value	Select corresponding value from value after select PTZ type.	[How to set] Select from the drop- down list.

Step 3 Set a deployment area:

Draw 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.

- 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.
- Set deployment time. Details please refer to 5.1.1 Step 2.

----End

6.3 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 Configuration > Intelligent Analysis > Double Virtual Fences to access the Double Virtual Fences setting interface, as shown in Figure 6-5. Figure 6-5 Double Virtual Fences Setting Interface



Step 2 Set all parameters for the double virtual fences. Table 6-3 describes the specific parameters.

Table 6-3 Description of Parameters for Double Virtual Fence
--

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
Upload Target Info	Enable the function of uploading target information by clicking below the real-time video in a browser to turn 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] Enter a value in the area box.

Parameter	Description	Setting
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.	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol.	[How to set] Click to enable FTP. [Default value] OFF
PTZ Type	Set PTZ type for dome cameras and select corresponding PTZ type: Preset/Scan/Track/Tour.	[How to set] Select from the drop- down list.
Value	Select corresponding value from value after select PTZ type.	[How to set] Select from the drop- down list.

Step 3 Set a deployment area.

Draw 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.

Set 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.

- 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 5.1.1 Step 2.

----End

6.4 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 Configuration > Intelligent Analysis > Object Left to access the Object Left setting interface, as shown in Figure 6-6.

Figure 6-6 Object Left Setting Interface

												Í			anne							2	_	•	^
										_	C				able		5.7							OFF	
			١.												nimu							10)		
							.			1				Ma	ximu	im S	Size(cm2)(cm	2)		10	000		
		N	2	-					2					Sh	ortes	t Dv	vellir	ng Ti	me(Sec)	(Sec	:) 5			
			1	118						9				Up	load	Tan	get l	nfo						OFF	
			V	3					1					Ou	tput	Cha	nnel							1□2	
		-0			8										irm F							ĩ	_	OFF	~
										C	lear			7 110		1000	n d	_	_	_	_	10			_
\$	0	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 🚯																									
inden and																									
Tues 🚯																									
Tues 🚯 Wed 🚳																									
Tues 🚯 Wed 🚳 Thur 🚳																									
Tues 🚯 Wed 🚯 Thur 🚯 Fri 🔇																									
Tues 🚯 Wed 🚯 Thur 🚳																									
Tues 🚯 Wed 🥎 Thur 🕎 Fri 🔄																									

- Step 2 Set all parameters for object left.
- 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.

- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 32 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 5.1.1 Step 2

---End

6.5 Object Removed

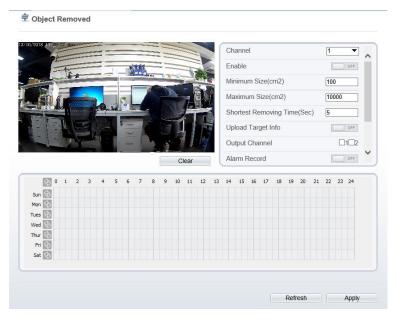
Description

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 Configuration > Intelligent Analysis > Object Removed to access the Object Removed setting interface, as shown in Figure 6-7.

Figure 6-7 Object Removed Setting Interface Setting Interface



Step 2 Set all parameters for object removed. Table 1-1 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

Table 1-1 Description of Parameters for Object Removed

Parameter	Description	Setting
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] Enter 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] Enter a value in the area box. [Default value] 5s
Upload Target Info	Enable the function of uploading target information by clicking below the real-time video in a browser to turn 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.	[How to set] Click to enable SMTP. [Default value] OFF

Parameter	Description	Setting	
FTP Upload	Enable the button to enable File Transfer Protocol.	[How to set] Click to enable FTP Upload. [Default value] OFF	
PTZ Type	Set PTZ type for dome cameras and select corresponding PTZ type: Preset/Scan/Track/Tour.	[How to set] Select from the drop-down list.	
Value	Select corresponding value from Value after select PTZ type.	[How to set] Select from the drop-down list.	

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.

- A drawn line cannot cross another one, or the line drawing fails.
- Any shape with 32 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 5.1.1 Step 2

----End

7 Alarm Setting

7.1 Alarm Output

Procedure

Step 1 Select Configuration > alarm > alarm output to access the alarm output setting interface, as shown in Figure 7-1.

Figure 7-1 Alarm output interface

IP CAMERA					<u>8</u> adr
	Live Video	Playback	Configuration		<u>ک</u>
	🖻 Alarm Output				
Device Info					
- 🕼 Device	Alarm Output			1	-
- External Device	Name				
- 👘 Intelligent Analysis	Valid Signal	Close	•		
O Alarm Output	Alarm Output Mode			Switch Mode	-
O Disk Alarm	Alarm Time(ms)(0:Continuous)			0	
O Network Alarm					
I/O Alarm Linkage	Manual control		21-		
O Motion Alarm	Mandarcontrol		Sta	rt Stop	
Push Message					
- Human Thermometer			Dr	efresh Appl	N.
- Device Record			Re	Appi	у
Privacy Masking					
10 Network Service					
- 🕄 Privilege Manager					
- Protocol					
- Device Log					
Maintenance					
- 🔚 Local Config					

- Step 2 Set alarm output of channel, name, enable valid signal and alarm time choose alarm output mode.
- Step 3 You can also control alarm manually, click start button to start alarm, click stop button to end the alarm .

7.2 Disk Alarm

Procedure

Step 1 Select **Configuration > alarm > disk alarm** to access the disk alarm setting interface, as shown in Figure 7-2.

Figure 7-2 Disk alarm interface

IP CAMERA					🥵 admin
	Live Video	Playback	Configuration	Θ	6× 0+
	堂 Disk Alarm	5			
	Disk Full Alarm Disk Full Alarm Alarm Interval(104 Output Channel	864005)	Refe	10 11 Ish Appy	

- Step 2 Enable the disk full alarm. Set alarm interval, the value is from 10 to 86400 s.
- Step 3 Tick the channel to push alarm message.
- Step 4 Click **apply** to save the settings, click **refresh** will return last settings.

7.3 Network Alarm

Procedure

Step 1 Select **Configuration > alarm > network alarm** to access the network alarm setting interface, as shown in Figure 7-3.

Figure 7-3 Network alarm interface

IP CAMERA			1		Sadm
	Live Video	Playback	Configuration		
	Retwork Alar	m			
Device Info	1				
B Stream	Network Card ID			1	0
Device	Inclinent Gald ID				J
+ External Device					5
🐇 Intelligent Analysis	Exceptional Alarm			CN	1
\delta Alarm	Alarm Interval(10-	86400S)		10	
- O Alarm Output	Output Channel			102	
- O Disk Alarm	Alarm Record			1	
- O Network Alarm	Alarm Record			[.0ff	
- 0 I/O Alarm Linkage					
- 0 Motion Alarm					
- 0 Push Message			Ref	resh Apply	
Human Thermometer					
Device Record					
Privacy Masking					
- 🥭 Network Service					
- 🎒 Privilege Manager					
Protocol					
Device Log					
Maintenance					

- Step 2 Choose network card ID and enable exceptional alarm to set alarm interval. Tick output channel.
- Step 3 Enable the alarm record.
- Step 4 Click apply to save the settings, click refresh will return last settings.

7.4 I/O Alarm Linkage

Procedure

Step 1 Select Configuration > alarm > I/O alarm linkage to access the I/O alarm linkage setting interface, as shown in Figure 7-4.

Figure 7-4 I/O alarm linkage interface

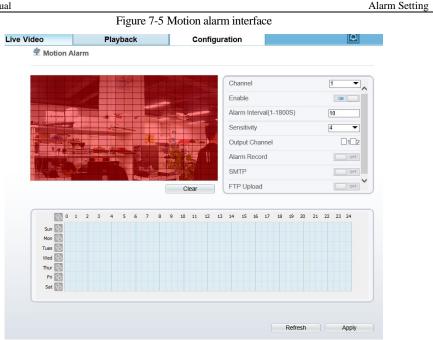
	Live Video	P	layback			C	onfig	uratio	n				٥			
	皇 I/O Alarm Link	age														
Device Info																
置 Stream	Alarm Input										1	1			•	i.
Device																
External Device	Name										ř-					É
Alarm	Trigger Mode										Conr	act			^	
- O Alarm Output	Alarm Input										loom		-	1.077		
- O Disk Alarm	the state of the s															
- O Network Alarm	Output Channel															
O I/O Alarm Linkage	PTZ Linkage												1	DFF.		
- O Motion Alarm	Alarm Record												1	OFF.		
- 0 Push Message	SMTP												1	011	~	
Human Thermometer																
Device Record															_	
Privacy Masking Network Service	0 1 2	3 4 5	6 7	8 9	10 11	12 1	3 14	15 1	6 17	18	19 20	21	22 1	23 24		
Retwork Service	Sun 🔯															
Protocol	Mon 🔯															
Device Log	Wed [2]															
Maintenance	Thur 🔯															
Local Config	Pr 🔯															
	Set 🔯															

- Step 2 Choose alarm input and trigger mode, set name, enable other linkages such as alarm input, PTZ linkage, alarm record, SMTP and FTP upload.
- Step 3 Set alarm schedule, choose the duration of linkage.
- Step 4 Click apply to save the settings, click refresh will return last settings.

7.5 Motion Alarm

Procedure

Step 1 Select **Configuration** > **alarm** >**motion alarm** to access the **motion alarm** setting interface, as shown in Figure 7-5.



- Step 2 Choose channel and enable the motion alarm, set alarm interval and sensitivity, enable other linkages such as alarm record, SMTP and FTP upload.
- Step 3 Set motion alarm schedule,
- Step 4 Click **apply** to save the settings, click **refresh** will return last settings.

7.6 Push Message

Procedure

Step 1 Select **Configuration** > **alarm** >**push message** to access the **push message** setting interface, as shown in Figure 7-6.

Figure 7-6 Push message interface

	Live Video	Playback	Configuration		0	ê B
	🚊 Push Messa	ge				
Device Info						
I Stream	Push Message				I want to	2
Device	r usii message				CN	
+ External Device	At the beginning, the a	alarm information will be pushed to	app if the device is managed by	арр.		
🚯 Intelligent Analysis						
\delta Alarm				Refresh	Apply	
- O Alarm Output						
- O Disk Alarm						
- O Network Alarm						
0 I/O Alarm Linkage						
- O Motion Alarm						
0 Push Message						
Human Thermometer						
Device Record						
Privacy Masking						
- 7 Network Service						
- Strivilege Manager						
Frotocol						
- Device Log						
Maintenance						
and a second considered for the						

- Enable the push message, you will receive the message when the alarm happened. Click **apply** to save the settings, click **refresh** will return last settings. Step 2
- Step 3

8 Other Web Configurations

8.1 Device Information

You can view the information about device, as shown in Figure 8-1.

	Figure 8-1	Device	information	interface
--	------------	--------	-------------	-----------

In the state of th	Live Video	Playback	Configuration	Î
	🚖 Device Info			
Device Info				
题 Stream	Device ID			FFFC14
Device				
External Device	Device Name			1
Fintelligent Analysis	MAC Address			00:1C:27:FF:FC:14
🗳 Alarm				
Human Thermometer	Camera Type			Human Temperature
Device Record	Product Model			SN-T5/13
Privacy Masking				
Network Service	Manufacturer Name	3		IPCamera
© 802.1x				
O DDNS	Hardware Version			V130151_1
© PPPoE	Firmware Version		13.	6.0819.1004.3.0.1.1.0
- O Port Mapping				
O SMTP	Channel Quantity			2
@ FTP				
O IP Filter	Alarm Input Quantit	у		2
O CGI Alarm Service Center	Alarm Output Quan	tity		2
- 0 SNMP	Serial Port Quantity			1
S Privilege Manager	Network Card Quan			1
Protocol	Network Card Quar	intà		1
Device Log				
Maintenance				Refresh

8.2 Stream

8.2.1 Base Stream

Step 1 Choose configuration >stream >base stream, as shown in Figure 8-2.

	Figure 8	-2 Base	stream	interface
--	----------	---------	--------	-----------

	Live Video	Playback	Configuration		ŵ.
	🚖 Stream				
Device Info					
5 Stream	Channel			1	•
- O Base Stream	Charlier				<u> </u>
© SVC Stream					_
- O ROI	Stream ID			1	•
Device	Name			stream1	
External Device					
Intelligent Analysis	Video Encode Typ	ē.		H265	•
Alarm					
Human Thermometer	Video Encode Lev	el		Mid	•
Device Record	Audio Encode Typ	e		G711_ALAW	•
Privacy Masking	Resolution			1920x1080	•
Network Service	Frame Rate(fps)			15	•
🕄 Privilege Manager					_
Protocol	I Frame Interval(Ur	nit: Frame)		50	•
📝 Device Log	Bit Rate Type			CBR	•
Maintenance	Bit Rate(kbps)(500	-12000)		2048	
Local Config	Smart Encode				048
	Smart Encode				Mer I

- Step 2 Choose channel, stream ID, video encode type, video encode level, audio encode type, resolution, frame rate, frame interval, bit rate type and bit rate from all drop list.
 Step 3 Set name of base stream, enable smart encode.
- Step 4 Click **Apply**. The message "**Apply success**" is displayed, the system saves the settings.

8.2.2 SVC Stream

Step 1 Choose configuration >stream >SVC stream, as shown in Figure 8-3. Figure 8-3 SVC stream interface

	Live Video	Playback	Configuration		÷ 1
	皇 SVC Stream				
Device Info					
I Stream	SVC Stream ID			4	-
© Base Stream	SVC Stream Name			stream4	
- 0 SVC Stream					
- O ROI	Elementary Stream	10		1	•
Device	P Frame Rate			1/2	-
External Device					
Intelligent Analysis					
S Alarm				Refresh App	ły
 Device Record Privacy Masking 					
Privacy masking Network Service					
- S Privilege Manager					
Protocol					
Device Log					
Maintenance					

Step 2 Choose SVC stream ID, elementary stream ID and P frame rate from drop list. Step 3 Click **Apply**. The message "Apply success" is displayed, the system saves the settings.

8.2.3 ROI

Step 1 Choose configuration >stream >ROI, as shown in Figure 8-4. Figure 8-4 ROI interface

	Live Video	Playback	Configuration		2
	皇 ROI				
Device Info					
🔠 Stream	Channel			1	•
- O Base Stream	Channel				
- O SVC Stream	Charles				
- O ROI	Stream			stream1	•
Device	Enable				Ova
🕂 External Device	Area ID			1	-
Intelligent Analysis	Level			5	-
S Alarm				5	
Human Thermometer	Area Name				
Device Record	Note: Max size50%	Right click to remove the zones	drawn		
Privacy Masking	IE	/10/2018 16:47:44 Non			
Network Service					
S Privilege Manager					
Protocol			1446		
Device Log					
Maintenance	N N	- 28			
- Local Config				0	
	2		of the	4.0	
	1				
				an l	
	5				

Step 2 Click **Apply**. The message "**Apply success**" is displayed, the system saves the settings.

8.2.4 Snapshot

Step 1 Choose configuration >stream >snapshot, as shown in Figure 8-5. Figure 8-5 Snapshot interface

	Live Video	Playback	Configuration			Ŷ
	空 Snaps	hot				
Device Info						
5 Stream	Snapshot F	Resolution		1280x720	•1	
- O Base Stream				1		
 SVC Stream 	Snapshot C	auality		Mid	-	
© ROI						
O Snapshot						
P Device				Refresh	Apply	
External Device						

- Step 2 Choose snapshot resolution and snapshot quality from drop list.
- Step 3 Click **Apply**. The message "Apply success" is displayed, the system saves the settings.

8.3 Device

You can set local network, device port, data and time, camera, OSD, microphone, CVBS, system, voice denoise and software licenses, as shown in Figure 8-6.

IP CAMERA						🥵 admi
	Live Video	Playback	Configuration			i i
	🖻 Local Networ	k				
Device Info	Network Card ID			1	•	1
Device O Local Network	IP Protocol			IPv4	•	
Oevice Port Date and Time	DHCP				CN	1
O Camera O OSD	DHCP IP			1	92.168.32.187	
O Microphone CVBS	Preferred DNS Set	192.168	0.1	1		
O System		Alternate DNS Server				
O Voice Denoise O Software Licenses	MTU(800-1500)			1500		J
External Device						
Intelligent Analysis				Refresh	Apply	
Alarm						
Human Thermometer						
Device Record						
Privacy Masking						
Network Service						
Revealed Manager						
Frotocol						
Device Log						
Maintenance						

Figure 8-6 Device interface

8.4 External Device

Choose **configuration** >**external device**, enable PTZ, set parameters as shown in Figure 8-7.

	Live Video	Playback	Configuration		9 B
	皇 PTZ				
Device Info	1				
圏 Stream	PTZ			10	
Device	PTZ Protocol			PELCO D	*
External Device				FEEOD	
- o PTZ	PTZ Address			1	
 Intelligent Analysis Alarm 	Serial Port	COM1	-		
Human Thermometer	Baud Rate(bps)	9600	-		
Device Record	Data Bits(bit)	8	*		
Privacy Masking	Stop Bits(bit)			1	•
John Metwork Service	Parity Verification			None	*
Revision Manager				lineare	
Frotocol					
Device Log				Refresh A	pply
Maintenance					

8.5 Device Record

Choose **configuration** > **device record**, enable **schedule record**, set post record, record audio, record rule(cycle store or save days) and stream name. At this interface, you can also view or modify the information of **record directory**.

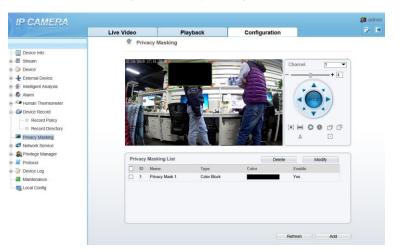
	Live Video	Playback		Configu	ration							۶,	
	全 Record Policy												
Device Info													
Stream	Schedule Record										011	1	
Device External Device	Post Record(0-86400	is)						*10	_		_		
Intelligent Analysis	Record Audio									È	011		
Alarm	Record Rule							Co	le Stor	0	•		
Human Thermometer	Stream Name							-	am1				
Device Record	Sireaminame							Stre	amı		-	J	
 Record Policy 	0 1 2	1 4 5 6 7 8	9 10 11	12 13 14	15 16	17 1	19	20	21 22	23 2		1	
Record Directory	Sun 🔯												
Privacy Masking Network Service	Mon 🔯												
Privilege Manager	Tues												
Protocol	thur 🔯												
Device Log	Pri 💽												
Maintenance	Sat 🔯												
Local Config													

Figure 8-8 Device record interface

8.6 Privacy Masking

Choose **configuration > privacy masking.** You can set privacy masking if some area need keep secret, drag mouse to select the area to cover, double click will delete the setting, as shown in Figure 8-9.

Figure 8-9 Privacy masking interface



8.7 Network Service

Choose configuration > network service. You can set 802.1x, DDNS, PPPoE, Port mapping, SMTP, IP filter, CGI alarm service center, SNMP and QOS

8.8 Privacy Manager

Add user account, manage the users' permission. As shown in Figure 8-10.

Figure 8-10 Privacy manager interface

	Live Video		Playback	Configu	ration	
	堂 User					
Device Info						
圏 Stream	ID	User Name	Groups	Notes	Operate	
Device	0	admin			9	
External Device			Add User		×	
Intelligent Analysis						
💁 Alarm			User Name			
Human Thermometer			Password			
Device Record			Fassword			
Privacy Masking			ConfirmPassword			
Network Service			Group		Administrators	
S Privilege Manager					Politika intera	
Protocol			Notes			
Device Log			-			
Local Config			Privilege Live Video		Live VideoPrivilege Detail	
Cocar Coning			Video Control	^	Watching real-time video and switch stream.	
			PTZ Control			
			Audio			
			Playback			
			Backup			
			Record Policy			
			Disk Config	~		

8.9 Protocol

Choose configuration > protocol. You can set protocol information, security, CMS configuration and multicast parameter.

Figure 8-11 Protocol interface

IP CAMERA					🥵 ac	
	Live Video	Playback	Configuration		×	Þ
	中 Protocol Info					
Device Info	1					
- 🖉 Stream	Protocol Name			ONVIF -		
- Device						
- External Device	Protocol Version			v17.06 💌		
- 🛞 Intelligent Analysis	Protocol Software Ver	sion		v17.06_build000055		
🚯 Alarm						
- Human Thermometer	RTSP Rule		rtsp://ip:pi	ort/snl/live/cameraid/streamid		
Device Record	RTSP Example			2.168.32.187:554/snl/live/1/1		
Privacy Masking	RTSP Example		rtsp://19	2.108.32.187.554/sni/live/1/1		
- 🥭 Network Service						
- 🕄 Privilege Manager				Refresh		
Protocol				Refresh		
- O Protocol Info						
- O Security						
- O CMS Configuration						
- O Multicast Param						
Maintenance						
- Config						

8.10 Device Log

Choose **configuration** > **device log.** You can view **operation log** and **alarm log**, or collect all log information, as shown in Figure 8-12.

Figure 8-12 Device log interface

	Live Video	Playback	Configuration		
	空 Operation Lo	9			
Device Info					
Stream	Operation Log			All Type	1
Device	Begin Time			2018-10-17 16:12.8	
External Device	214 C.			decision of the second	
Intelligent Analysis	End Time			2018-10-18 16:12:8	
S Alarm			Downloa	d Query	
Human Thermometer					2
Device Record	Time	User Name	Log Info		
Privacy Masking					
Network Service					
🕄 Privilege Manager					
Protocol					
Device Log					
 Operation Log 					
- O Alarm Log					
 O Collect all log 					
Maintenance					
Local Config					

8.11 Maintenance

Camera Maintenance

÷

Choose **configuration > maintenance.** You can **restart, update, reserve IP setting and restore to factory default**, as shown in Figure 8-13.

Figure 8-13 Maintenance interface

Restart	*
AutoReboot	ON
RebootInterval	Everyday 🔻
	×
Update	Please select upgrade file 🍵 Update
Reserve IP setting	ON
Restore To Factory Default	9

8.12 Local Config

Choose **configuration** > **local config.** You can choose the snapshot picture format, change the save path of snapshot and local record, as shown in Figure 8-14.

Figure 8-14 Local config interface

로 Local Config

Snapshot picture format	jpg 💌
SnapShot Save Path	D:\LocalStorage\
Local Record Save Path	D:\LocalStorage\
Local Record File Size(8-128M)	64
Hardware Decode	OFF

Refresh

Apply

${f A}$ Troubleshooting

Common Trouble	Possible Cause	Solution
Unable to access the web	Network is not connected.	Connect the network cable of the camera to the PC to check whether the network cable is in good contact. Run the ping command to check the network
		connection and whether the device works normally.
	IP address is occupied.	Directly connect the camera to the PC, and reset the IP address of the camera.
	The IP addresses of the PC and the device are in different networks.	Check the IP address, subnet mask and gateway setting of the camera.
The measured temperature is not accurate.	The device is just powered on, and the temperature of the cavity is unstable.	The temperature of the cavity is stable within 15 to 30 minutes after the device is powered on.
	The target configuration is incorrect.	Check whether the emission rate and distance of the target are configured correctly.
An error occurs in accessing the web of the device after	The data in the cache of browser is not updated in time.	Delete the cache of the Internet Explorer. The steps are as follows (taking IE9 as an example): Open the Internet Explorer.
the upgrade.		Select Tools > Internet Options .
		On the General tab, select Delete under Browsing history .
		The Delete Browsing History dialog box appears.
		Select all check boxes.
		Click Delete . Relogin the web page of the camera.
Upgrade failed.	No network cable is connected. The network setting is incorrect.	Ensure the upgrade network is connected. Check whether the network setting is correct.

Common Trouble	Possible Cause	Solution
	The upgrade package is incorrect.	Perform the correct upgrade package again.