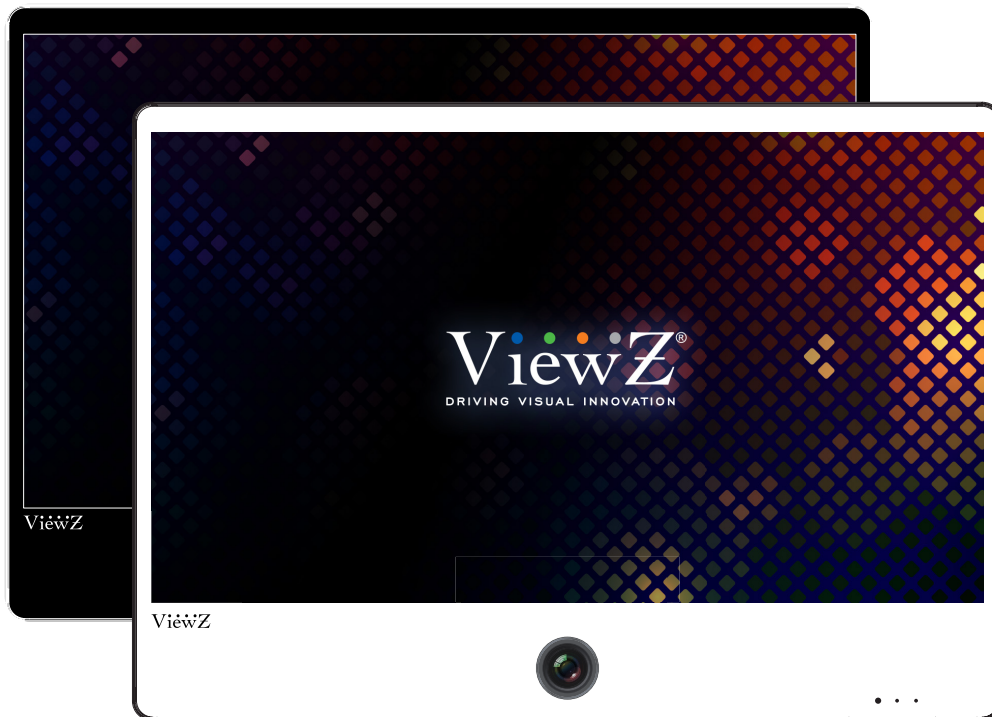


VZ-IP-PVM-N SERIES

23", 27" & 32" IP PUBLIC VIEW MONITOR

WEB BASED IP-PVM-N USER MANUAL



ViewZ[®]
www.viewzusa.com

Please read this manual thoroughly before use, and keep it handy for future reference.

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WARNING STATEMENTS

Important Safety Instructions

This manual describes how to use IP PVM's web management system, including network access, network configuration and troubleshooting.

This manual is intended for:

- Technical support engineers
- Maintenance engineers
- IP camera operators

Important Safety Instructions



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



NOTICE

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.



NOTE

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.

QUICK REFERENCE GUIDE

1. Login and Logout

! CAUTION

We recommend to use **Internet Explorer 7** or latest version to access the ViewZ web management system. **Firefox** will work with ViewZ web management system, but some function and layout might not work perfectly. **Windows Edge** and **Chrome** are currently not supported by ViewZ web management system.

Login



Step 1 Open Internet Explorer. Enter the IP address of the PVM IP camera (default value: 192.168.0.120) in the address box and then press Enter. The login page is displayed, as shown in Figure 1-1.



Figure 1-1 Login Page

Factory Default IP address : 192.168.0.120
Factory Default Subnet Mask : 255.255.255.0
Factory Default Gateway : 192.168.0.1
Factory Default DNS 1 : 192.168.0.1
Factory Default DNS 2 : 192.168.0.2

Caution: IP address and gateway address should be set with the same IP parameters. For example, if IP address is "A.B.C.0 ~ 255", then gateway address should be set as "A.B.C.0~255" (however, IP and gateway address cannot be the same.)



Step 2 Enter the user name, and password




Note

- The default user name is **admin** and the default password is **admin**. Change the password when you log in to the system for the first time to ensure system security.
- You can change the system display language on the login page.



Step 3 Click Login. The main page will be displayed.

Logout

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

QUICK REFERENCE GUIDE

2. Main Page Layout

On the main page, you can see real-time video, receive alarm and fault notifications, set parameters, change the password, and log out of the system. Figure 1-2 shows the main page layout. Table 1-1 describes the features on the main page.

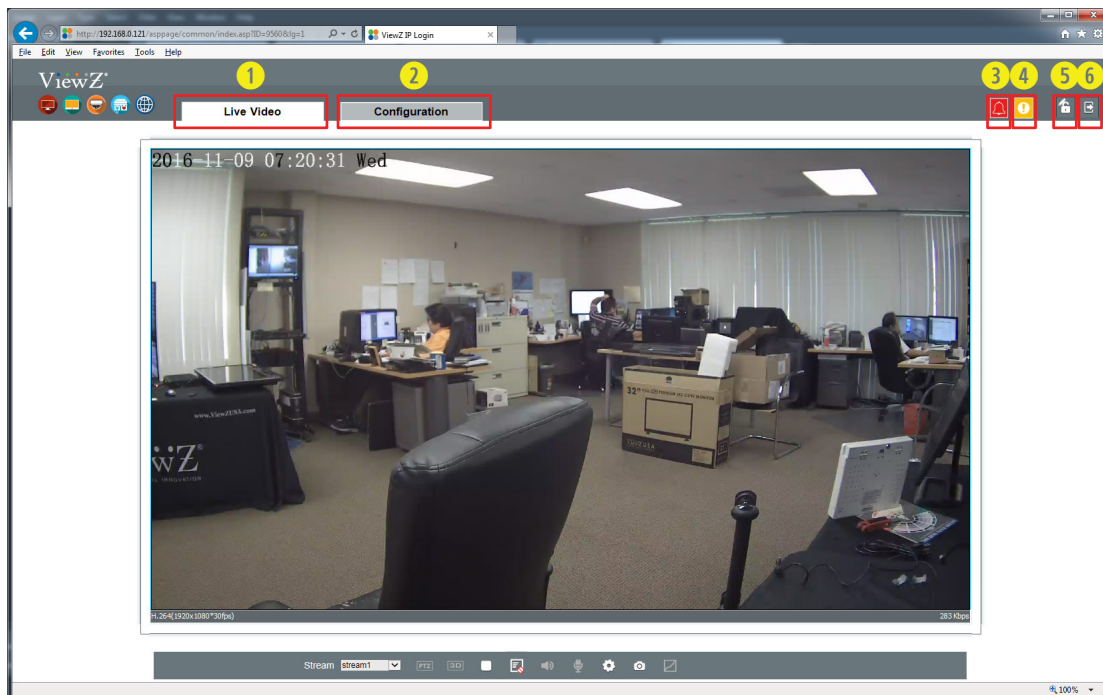








Figure 1-2 Main Page Layout

No.	ELEMENT	DESCRIPTION
1	LIVE VIDEO	Real-time video stream is displayed in this area. You can also set sensor parameters.
2	CONFIGURATION	You can select options to set device configuration, including the device information, audio and video streams, alarm setting, and privacy mask function.
3	ALARM	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.
4	FAULT	When the device encounters an exception, the fault icon  is displayed. You can click  to view the fault information.
5	CHANGE PASSWORD	You can click  to change the password.
6	LOG OUT	You can click  to return to the login page.

QUICK REFERENCE GUIDE

3. Change the Password

Description

You can click  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 1-3 and Figure 1-3-1.

Figure 1-3 Password Dialog Box

Figure 1-3-1 Password Change



Step 2 Enter the old password, new password, and confirm the new password.



Step 3 Click OK.

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



Step 4 Enter the old password, new password, and confirm the new password.

SEARCHING IP CAMERA

1. Searching Real Time IP Camera

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

Preparation



Step 1 To ensure that real-time video can be played properly, you must perform the following operations when you log in to the web management system for the first time:

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

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

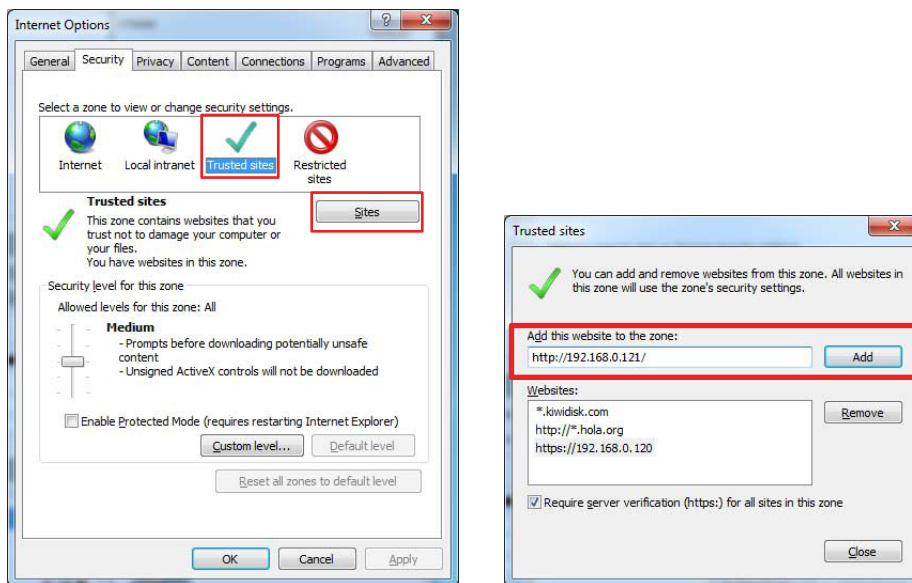


Figure 2-1 Add a trusted site

SEARCHING IP CAMERA

1. Searching Real Time IP Camera

- 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.

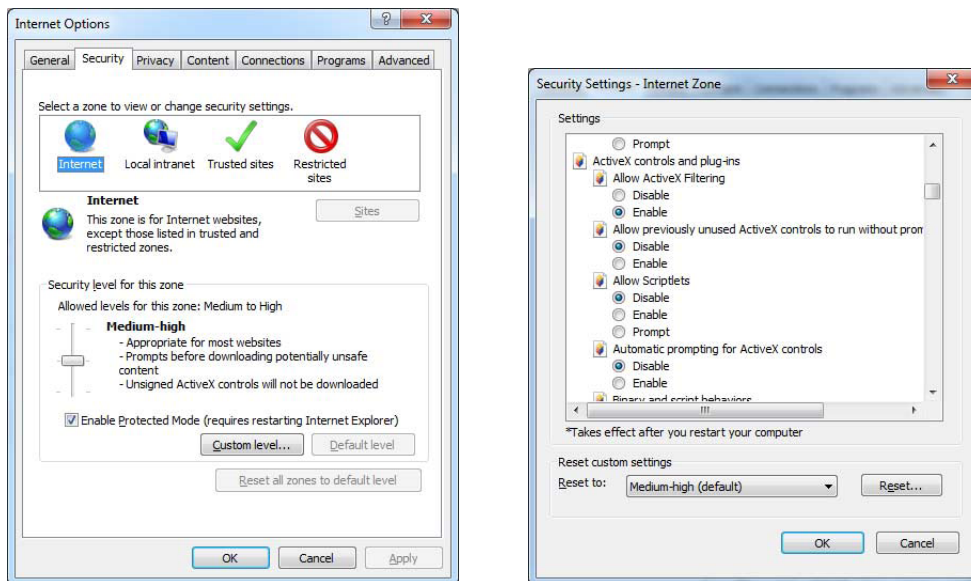


Figure 2-2 Configure ActiveX controls and plug-ins

- Step 3** Download and install the player control as prompted.



Note

- If the **repair tips** is prompted while installing the control, ignore the prompt and continue the installation. The login page is displayed when the control is loaded.

SEARCHING IP CAMERA

1. Searching Real Time IP Camera

Description

To browse real-time videos, click **Live Video**. The **Live Video** page will be displayed, as shown in Figure 2-3.

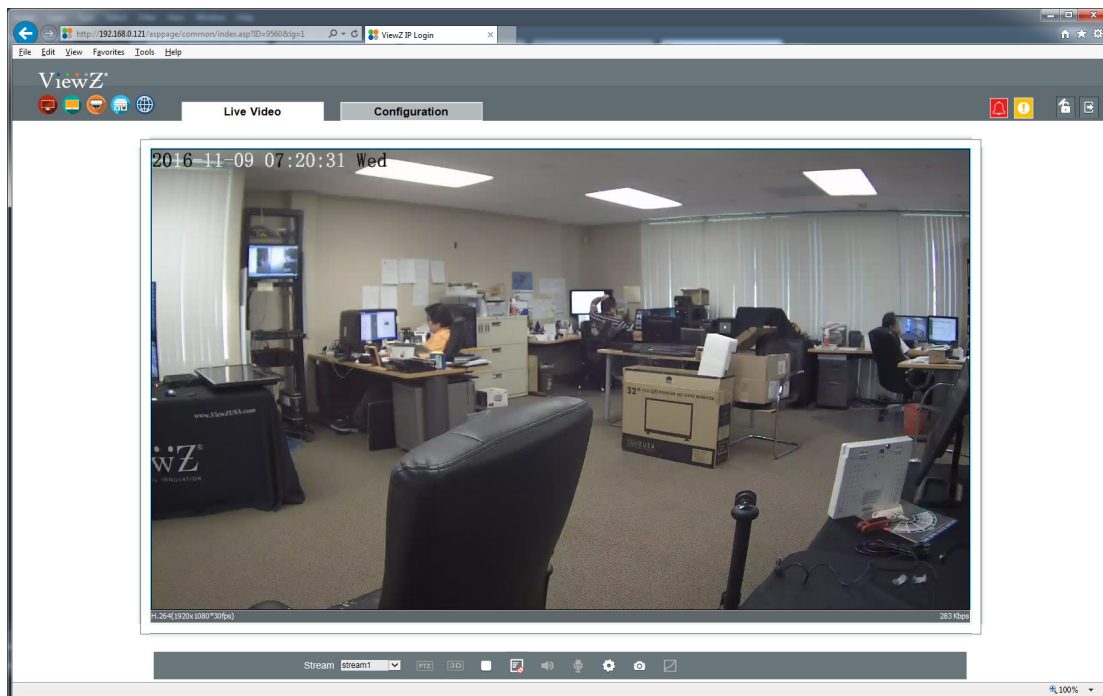





Figure 2-3 Live Video

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

- Click  to stop the video.
- Click  to play the video.
- Double-click in the video area to enter the full-screen mode, and double-click again to exit.
- Switch among preset streams 1, 2, and 3. For details about how to configure streams,
- See 3.2 Setting Video and Audio Stream Parameters.
- 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  to open the Sensor Setting page. On the Sensor Setting page, you can adjust the image, mirror, camera mode, Iris setting, white balance, and noise filter.

CONFIGURATION

1. Configuration of IP PVM's 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.



Note

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

Procedure



Step 1 Click **Configuration/Device Info**.

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

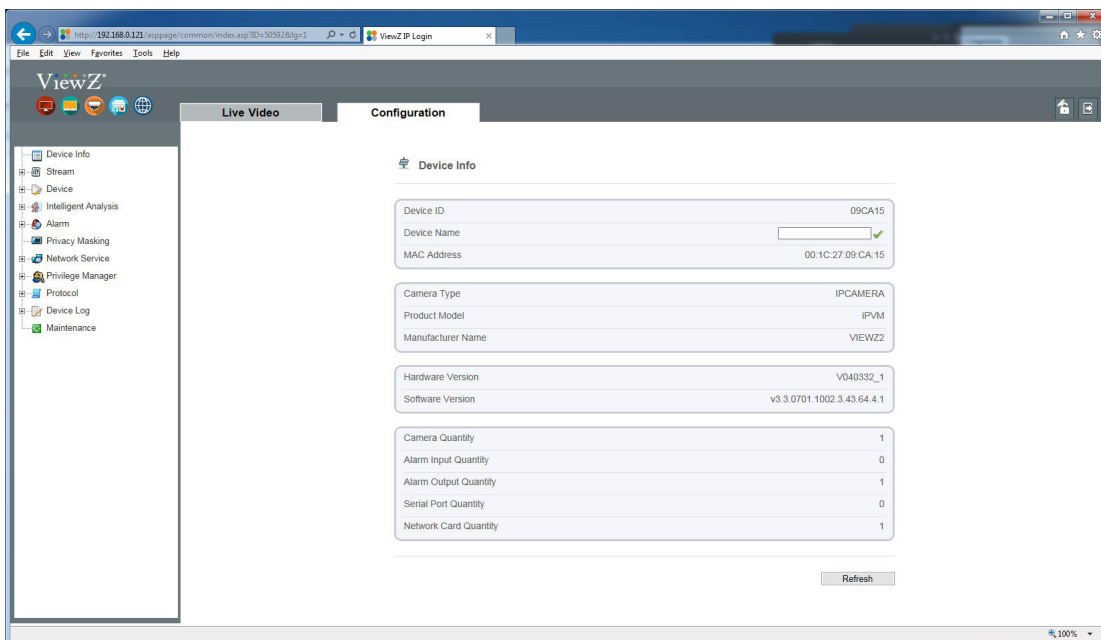


Figure 3-1 Device Info page

CONFIGURATION


1. Configuration of IP PVM's Information

Procedure



Step 2 View the device information, set the device ID and name as shown in Table 3-1.

Table 3-1 Device parameters

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.
Manufacturer ID		
Manufacturer Name		
Hardware Version		
Software Version		
Video Channel(s)		
Alarm Input(s)		
Alarm Output(s)		
Serial Port(s)		
Network card number		



Step 3 Click the icon 

- If the message "Apply succeed!" is displayed, click **Confirm** to save the settings.
- If the message "Apply failed!" is displayed, you must apply for the Parameter Configure permission from an administrator. For details, see **10.1 Configuration of Permission for Group**.

CONFIGURATION

2. Setup Video and Audio Parameters

Procedure



Step 1 Click Stream Configuration > Base Stream.

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

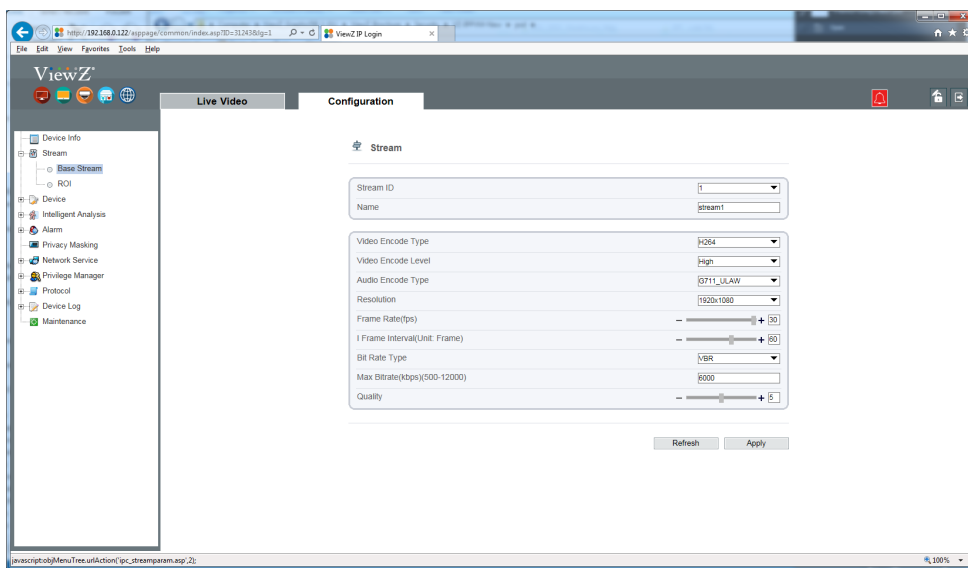


Figure 3-2 Stream Configuration page

Stream

Stream ID	1
Name	stream1
Video Encode Type	H264
Video Encode Level	High
Audio Encode Type	G711_ULAW
Resolution	1920x1080
Frame Rate(fps)	30
I Frame Interval(Unit: Frame)	60
Bit Rate Type	VBR
Max Bitrate(kbps)(500-12000)	6000
Quality	6

CONFIGURATION




2. Setup Video and Audio Parameters

Procedure



Step 2 Set the parameters as shown below in Table 3-2.

Table 3-2 Stream configuration parameters



Parameter	DESCRIPTION	Setting
Channel	ID of the video output channel.  NOTE An IP camera has only one video output channel. Therefore, only the default value 1 is available.	[Setting method] Select a value from the drop-down list box. [Default value] 1
Stream ID	The device supports two streams. <ul style="list-style-type: none"> 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. 	[Setting method] Select a value from the drop-down list box.
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] stream1
Video Encode Type	The video codec determines the image quality and network bandwidth required by a video. Currently, the following codec standards are supported: <ul style="list-style-type: none"> 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. 	[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.

CONFIGURATION

2. Setup Video and Audio Parameters

Procedure

Table 3-2 Stream configuration parameters


Parameter	DESCRIPTION	Setting
Video Encode Type	<ul style="list-style-type: none"> H 264 <p>H.264 consists of H.264 Base Profile, H.264 Main Profile, and H.264 High profile.</p> <p>The performance of H.264 High Profile is higher than that of H.264 Main Profile, and the performance of H.264 Main Profile is higher than that of H.264 Base Profile.</p> <p>If a hardware decoding device is used, select the appropriate codec based on the decoding performance of the device.</p> <p>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.</p>	<p>[Setting method]</p> <p>Select a value from the drop-down list box.</p> <p>[Default value] H.264 High Profile</p> <p> NOTE</p> <p>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.</p>
Audio Encode Type	<p>ID of the video output channel.</p> <ul style="list-style-type: none"> 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 	<p>[Setting method]</p> <p>Select a value from the drop-down list box.</p>
Resolution	<p>A higher resolution means better image quality</p> <p> NOTE</p> <p>IP cameras support the different resolutions based on the model.</p>	<p>[Setting method]</p> <p>Select a value from the drop-down list box.</p>
Frame Rate (fps)	<p>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.</p>	<p>[Setting method]</p> <p>Select a value from the drop-down list box.</p>


CONFIGURATION

2. Setup Video and Audio Parameters

Procedure

Table 3-2 Stream configuration parameters

Parameter	DESCRIPTION	Setting
Frame Rate(fps)	<p>Frame rates for different frequencies are as follows:</p> <ul style="list-style-type: none"> • 50 Hz: 1–25 f/s • 60 Hz: 1–30 f/s <p> NOTE The frequency is set on the Device Configuration > Camera page. The biggest MJPEG coding format frame rate is 12 frames per second.</p>	<p>[Setting method] Select a value from the drop-down list box.</p>
I Frame Interval (f)	<p>I frames do not require other frames to decode. A smaller I frame interval means better video quality but higher bandwidth.</p>	<p>[Setting method] Select a value from the drop-down list box.</p>
Bit Rate Type	<p>The bit rate is the number of bits transmitted per unit of time. The following bit rate types are supported:</p> <ul style="list-style-type: none"> • 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. 	<p>[Setting method] Select a value from the drop-down list box.</p>
Max Bit Rate (500-12000)	Indicates the maximum value of the bit rate.	<p>[Setting method] Enter a value manually.</p>
Quality (500-12000)	The video quality on the camera output.	<p>[Setting method] Slide the slider left or right [Default value] 5</p>

-  **Step 3** Click Apply
- If the message "Apply succeed!" is displayed, click Confirm. 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 **10.1 Configuration of Permission for Group**.
 - If a message indicating that the bit rate is out of range is displayed, enter a new bit rate value.

CONFIGURATION

3. Setup ROI Parameters

* ROI - Region of Interest

Procedure



Step 1 Click Stream **Configuration**> **ROI**.

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

ROI

Stream

Enable OFF

Area ID

Level

Area Name

Note: Max size50% ;Right click to remove the zones drawn

2017-01-03 23:29:45 Tues

Refresh Apply

Figure 3-3 ROI Stream Configuration page

CONFIGURATION

3. Setup ROI Parameters

Procedure



Step 2 Set ROI parameters as below in Table 3-3.

Table 3-3 ROI configuration parameters

Parameter	DESCRIPTION	Setting
Stream	Stream name	[Setting method] Pull-down and select [Default value] Stream 1
Enable	Enable ROI function	[Setting method] Click to ON/OFF [Default value] OFF
Area ID	ROI Area ID number	[Setting method] Pull-down and select [Default value] 1
Level	Refers to ROI Area image quality. Higher the level, clearer the image within the ROI area and blurrier the image outside the ROI area.	[Setting method] Pull-down and select [Default value] 1
Area Name	User can name the Area ID with special name	[Setting method] Name length should be less than 32 Bytes

CONFIGURATION

4. Setup 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 Device **Configuration > Local Network**.

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

 Local Network

Network Card ID	1
IP Protocol	IPv4

DHCP	<input type="checkbox"/> OFF
IP Address	192.168.0.121
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.1

Preferred DNS Server	192.168.0.1
Alternate DNS Server	192.168.0.2
MTU(800-1500)	1500

Figure 3-4 Local Network page

CONFIGURATION



4. Setup Local Network Parameters

Procedure



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

Table 3-4 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
Obtain IP address automatically	The device automatically obtains the IP address from the DHCP server.	[Setting method] Click the button on to enable obtaining 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 assigns to the device.	N/A
IP Address	Device IP address that can be set as required.	[Setting method] Enter a value manually. [Default value] 192.168.0.120
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 ranges from 800 to 1500, with the default value at 1500. Please do not change it arbitrarily.

CONFIGURATION

4. Setup Local Network Streaming

Procedure

Step 3 Click Apply.

- If the message "Apply succeed!" is displayed, click Confirm. The system saves the settings. The message "Set network parameter 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.

CONFIGURATION

5. Configuration of Device Ports

Description

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

Procedure

Step 1 Choose Device Configuration > Device Port.

The Device Port page is displayed, as shown in Figure 3-5.

Device Port

Control Port	<input type="text" value="30001"/>
Http Port	<input type="text" value="80"/>
RTSP Port	<input type="text" value="554"/>

Table 3-5 Device port parameters

Refresh

Apply



Step 2 Set the parameters according to Table 3-5

Table 3-5 Device port parameters

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



Note

It's not recommended to modify the control port. For details about the value ranges of the control port, HTTP port, RTSP port and RTMP port, see the communication matrix.



Step 3 Click Apply.

- If the "This operation will lead to the device to restart, continue?" dialog box is displayed, click Confirm. The system automatically restarts and saves the settings.
- If the message "Invalid Control Port, Please input an integer between 1025 and 65535" is displayed, enter correct port numbers.

CONFIGURATION

6. Configuration of the Date and Time

Description

On the **Date & Time** page, you can modify the date and time.

Procedure



Step 1 Choose Device **Configuration > Date and Time**.

The **Date** page is displayed, as shown in Figure 3-7. Table 3-6 describes the parameters.

Date and Time

Time Zone	(GMT-08:00) Pacific Time (US Canada)	▼
Daylight Savings Time	<input type="checkbox"/> ON	
Begin Time	Mar	▼ 2nd
	Sun	▼ 2:00
End Time	Nov	▼ 1st
	Sun	▼ 2:00
	✓	
Device Time	11/10/2016 14:02:49	
Current PC Time	11/10/2016 14:02:45	✓
Set Manually	11/10/2016 14:02:48	✓
NTP	<input type="checkbox"/> OFF	
	✓	


Figure 3-6 Time and Date page

CONFIGURATION

6. Configuration of the Date and Time

Procedure


Table 3-6 Time parameters


Parameter	DESCRIPTION	Setting
Time Zone	N / A	<p>[Setting method] Select a value from the drop-down list box.</p> <p>[Default value] Greenwich mean time</p>
Adjust clock for daylight saving changes	<p>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.</p> <p> 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.</p>	<p>[Setting method] Click the button on to enable Adjust clock for daylight saving changes.</p>
Device Time	Device display time.	<p>[Setting method]</p> <ul style="list-style-type: none"> 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.	<p>[Setting method] Click Set Manually and set the date and time in the format YYYY-MM-DD HH:MM:SS.</p>
NTP	IP address or domain name of the NTP server.	<p>[Setting method] Click the button on to enable NTP and enter a value manually.</p>
NTP Port	Port number of the NTP server.	<p>[Setting method] Enter a value manually.</p> <p>[Default value] 123</p>


CONFIGURATION


6. Configuration of the Date and Time



Procedure


-  **Step 2** Select a time zone from the **Time Zone** drop-down list box.

-  **Step 3** (Optional) Click the button on to enable **Adjust clock for daylight saving changes** 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 and the port number.

-  **Step 6** Click the icon 
The message "Apply succeed!" is displayed.

-  **Step 7** Click **Confirm**
The system saves the settings.

CONFIGURATION

7. Setup Channel Name, Video and Source Resolution

Procedure



Step 1 Choose **Device Configuration > Camera**.

The **Camera** page is displayed, as shown in Figure 3-8. Table 3-7 describes the parameters.

Camera

Figure 3-7 Camera page

Table 3-7 Camera parameters

Parameter	DESCRIPTION	Setting
Camera	ID of the video output channel.	[Setting method] Select a value from the drop-down list box. [Default value] 1
Channel Name	Channel name within the length of 0 to 32 bytes.	[Setting method] Enter a value manually.
Camera	The options are as follows: <ul style="list-style-type: none"> 60 Hz: corresponds to NTSC system or video systems used in USA and Japan. 50 Hz: corresponds to the PAL system or video systems used in Europe and South America. 	[Setting method] Select a value from the drop-down list box. [Default value] 50Hz NOTE Whether the video system can be changed depends on the device model



Step 2 Enter a channel name



Note : 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).



Step 3 Click the icon

The message "Apply succeed!" is displayed.



Step 4 Click Confirm. The system saves the settings.



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

CONFIGURATION

8. Setup OSD Parameters

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 maximum number of words that can be displayed is 22 words
- The OSD support English, digital and some special character only.

Procedure



Step 1 Choose Device **Configuration > OSD**.

The OSD page is displayed, as shown in Figure 3-8.

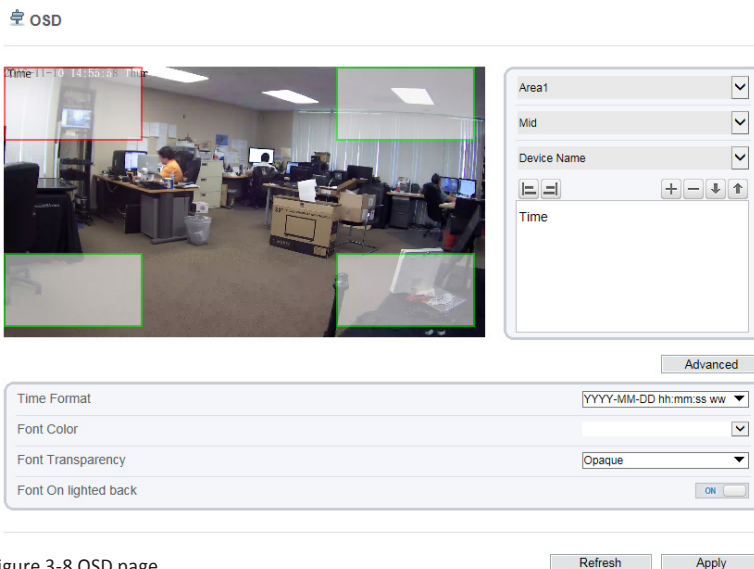


Figure 3-8 OSD page



Step 2 Set the OSD font.



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

CONFIGURATION

8. Setup OSD Parameters

Procedure

Table 3-8 OSD parameters

Parameter	DESCRIPTION	Setting
Area	Select the message box	[Setting method] Select a value from the drop-down list box. [Default value] Area 1
Size	Set the font size	[Setting method] Select a value from the drop-down list box. [Default value] Mid
Message Type	Select the display message type	[Setting method] Select a value from the drop-down list box. [Default value] Device name
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 Transparency	Set the font transparency on lighted back.	[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 . [Default value] On



Step 3 Click **Apply**

The message "Apply succeed!" is displayed.



Step 4 Click **Confirm**. The system saves the settings.

CONFIGURATION

9. Configuration of Analog Output (CVBS)

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 Device **Configuration > CVBS**

The **BNC Video Output page** is displayed, as shown in Figure 3-9.

 BNC Video Output

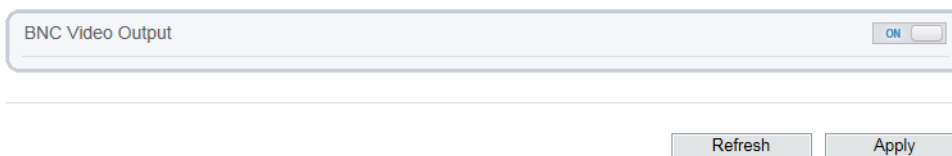


Figure 3-9 BNC config page



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



Step 3 Click **Apply**. The message "**Apply succeed!**" is displayed.



Step 4 Click Confirm. The system saves the settings.

CONFIGURATION

10. Configuration of System Language & Webmode

Description

On the **System Configuration** page, you can configure the language used by the time displayed in the video window and alarm emails and web mode.

Procedure



Step 1 Choose Device **Configuration > System**.

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

System

Language English ✓

Web Mode HTTP ✓

Refresh

Figure 3-10 System configuration page



Step 2 Select a language from the language drop-down list box. The default language is English.



Step 3 Click the icon ✓

The message "Apply succeed!" is displayed.



Step 4 Click **Confirm**. The system saves the settings.



Step 5 Select a web mode from the web mode drop-down list box.



Step 6 Click the icon ✓

The message "This operation will lead to the device to restart, continue?".



Step 7 Click **Confirm**. The message "**Apply succeed!**" is displayed, the system restart.

INTELLIGENT ANALYSIS

Overview

Terminology

- Field of View: the whole screen that a camera is capable of displaying.
- Deployment Area: the still area with any shape in the field of view set by a user.
- Target: the moving object of a certain type (human, vehicle, human or vehicle) appearing in the field of view.
- False Alarm: a false alarm generated because of interference sources (such as illumination change, leaf waggle and shadow).
- Alarm missing: an alarm meeting user-defined target trigger settings but not alarm.

Operating Environment

- Intelligent analysis available only on Ambarella S2 currently
- Operating system: Microsoft Windows 7/Windows XP (32/64-bit operating system supported)
- CPU: Intel core i3 and above / Memory: 1 GB and above / Display: resolution 1024*768 or above



Note : The software does not support pure 64-bit system. The 64-bit system mentioned above supports 32-bit software.

Precautions

Precautions for Installation

- The camera stays level with the horizon, without inclination.
- The installation height is more than 2 m indoors and within 5-8 m outdoors. If climbing over the wall needs to be monitored, the camera height can be 2 m higher than the wall.
- The angle of depression is larger than 150 & Do not install the device against the light.
- Try to install the device in a place where the light reflection from ground is weak in case of indoor installation.
- Try to keep the sky out of the field of view, because false alarms may be generated due to illumination changes or cloud movement.

Other Precautions

- Try to disable automatic white balance, the switch of which tends to cause alarm missing.
- Set the camera to be fixed focus.
- Do not switch from color mode to black&white mode frequently, otherwise, alarm missing occurs.
- Try not to use the Infrared all-in-one machine outdoors, which attracts insects and causes false alarms.
- The target cannot be oversized or undersized. The minimum target detectability is 8*8 pixels. The target takes up 1/20-1/2 of the screen in height, excess of which leads to alarm missing.
- The background modeling after parameter setting needs 4-8 seconds, during which a triggered alarm is not reported.
- A certain period of time is required from target appearance to recognition, so the duration of a target appearing in the field of view normally needs to be more than 2 seconds.
- Avoid too many moving targets in the field of view, which may lead to alarm missing.
- The fill-in light at night needs to be uniform.
- The wide-angle lens with short focal length (less than 4 mm) is recommended for small indoor space.

INTELLIGENT ANALYSIS

1. Function Settings - Perimeter

Definition

The perimeter function allows setting a deployment area with any shape for a static area within the monitored field of view, an alarm is generated when the specified types of targets (such as human, vehicle, and both human and vehicle) enter this area.

Settings



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

Perimeter

The screenshot displays the Perimeter configuration interface. On the left, a video feed shows an office scene with a red grid overlaying a central area. Below the video is a 'Clear' button. To the right of the video is a settings panel with the following options:

- Enable: ON
- Alarm Interval(1-1800S):
- Sensitivity:
- Output Channel: 1
- SMTP: OFF

Below the settings panel is a calendar grid with days of the week (Sun-Sat) on the y-axis and days (0-24) on the x-axis. All cells in the grid are highlighted in light blue.

Figure 4-1 Perimeter Setting Interface

Refresh

Apply



Step 2 Set all parameters for perimeter. Table 4-1 describes the specific parameters

INTELLIGENT ANALYSIS


1. Function Settings - Perimeter

Settings

Table 4-1 Perimeter Parameter Description

Parameter	DESCRIPTION	Setting
Alarm Interval (1-1800s)	An alarm is generated when objects enter the deployment area, it is generated again in next intervals (alarm interval) until the end of event(lasts 30 second). Setting range: 1-30 seconds.	[How to set] Enter a value in the area box. [Default Value] 10
Sensitivity	The higher is the sensitivity value, the more sensitive is the alarm response. The default value is 5 and the setting range is 1-10.	[How to set] Select a value from the drop-down list 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 the parameter and input an ID.
SMTP	If you turn on, system will send a notice email. You can set the email on Network Service / SMTP .	[Default Value] OFF

Deployment Area Settings

-  **Draw a deployment area:** Move the cursor to the drawing interface, click the left mouse button and drag the mouse to generate a green rectangle, which forms a deployment area. **You can also click the square grid in the interface to set the deployment area.** Click "clear" to delete the deployment area, as shown in Figure 1-2.

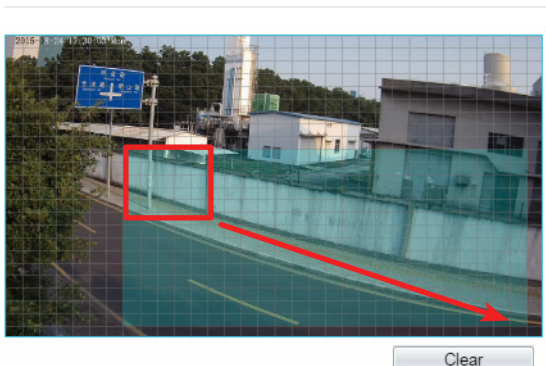


Figure 4-2 Deployment Area Setting Interface

**On the camera viewpoint,
Click / Click & Drag to set the deployment area.**

INTELLIGENT ANALYSIS

1. Function Settings - Perimeter

Deployment Time Settings

Setting deployment time: Click to select any time point within 0:00-24:00 from Monday to Sunday; or hold down the left mouse button, drag and release the mouse to select the deployment time within 0:00-24:00 from Monday to Sunday, and then click Apply to successfully set the time. Note: 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: Select the week on the left of set time which becomes red after selection, as shown in Figure 4-3, and then click Delete to delete the deployment time. You can also delete selected deployment time by means of inverse selection.

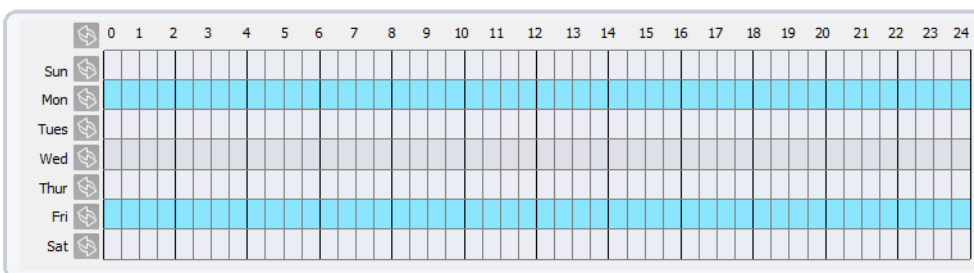


Figure 4-3 Deployment Time Setting Interface

INTELLIGENT ANALYSIS

2. Single Virtual Fence

Function Definition

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 specified types of targets (such as human or vehicle) cross this line.

Function Settings

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

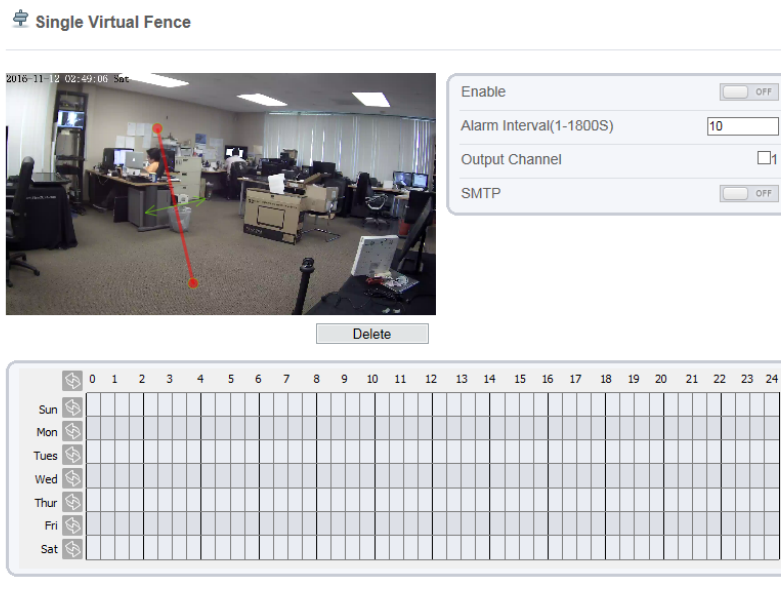


Figure 4-4 Single Virtual Fence Setting Interface

-  **Step 2** Set all parameters for the single virtual fence. Table 1-2 describes the specific parameters.

INTELLIGENT ANALYSIS

2. Single Virtual Fence

Function Settings

Table 4-2 Description of Parameters for Single Virtual Fence

Parameter	DESCRIPTION	Setting
Enable	Single virtual fence ON / OFF	[Default Value] OFF
Alarm Interval (1-1800s)	An alarm is generated when objects cross the single virtual fence, it is generated again in next intervals (alarm interval) until the end of event (lasts 30 second). Setting range: 1-30 seconds.	[How to set] Enter a value in the area box. [Default Value] 10
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 the parameter and input an ID.
SMTP	If you turn on, system will send a notice email. You can set the email on Network Service / SMTP .	[Default Value] OFF

Deployment Area Settings

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

Setting a single virtual fence: Click a line 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 or click the Delete in Single Virtual Fence interface to delete the single virtual fence, as shown in Figure 4-5.

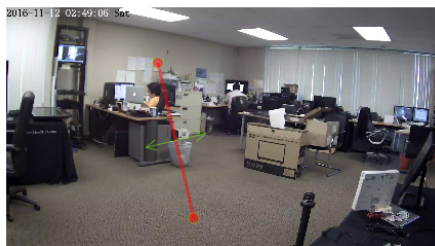


Figure 4-5 Deployment Area Setting Interface



Note

- The software does not support pure 64-bit system. The 64-bit system mentioned above supports 32-bit. 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 human foot as the recognition target cannot be too short, because a short single virtual fence tends to miss targets.

INTELLIGENT ANALYSIS

2. Single Virtual Fence

Deployment Time Settings

Setting deployment time: Click to select any time point within 0:00-24:00 from Monday to Sunday; or hold down the left mouse button, drag and release the mouse to select the deployment time within 0:00-24:00 from Monday to Sunday, and then click Apply to successfully set the time. **Note:** 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: Select the week on the left of set time which becomes red after selection, as shown in Figure 4-6, and then click Delete to delete the deployment time. You can also delete selected deployment time by means of inverse selection.

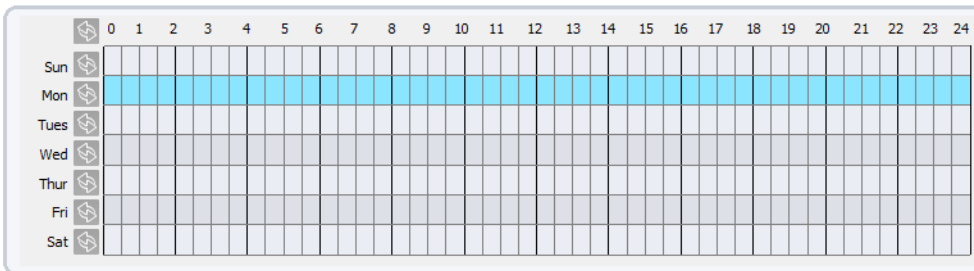


Figure 4-6 Deployment Time Setting Interface

INTELLIGENT ANALYSIS

3. Camera Tamper

Function Definition

Camera Tamper refers to the occurrence of tampered or shifted in video image. An alarm is generated if such an event occurs.



Note

- Currently, an alarm is generated only when more than 75% area of a video is obscured.
- When the ambient is dark and the gray average is less than 40, an alarm of Signal Bad is generated.

Function Settings

- Step 1** Select Intelligent Analysis > Camera Tamper to access the Camera Tamper setting interface, as shown in Figure 4-7

Camera Tamper

2016-11-11 11:39:51 154

Enable OFF

Alarm Interval(1-1800S)

Output Channel 1

SMTP 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
Sun																									
Mon																									
Tues																									
Wed																									
Thur																									
Fri																									
Sat																									

Figure 4-7 Camera Tamper Setting Interface

Refresh

Apply



- Step 2** Set all parameters for Camera Tamper. Table 4-3 describes the specific parameters.

INTELLIGENT ANALYSIS

3. Camera Tamper

Function Settings

Table 4-3 Description of Parameters for Camera Tamper

Parameter	DESCRIPTION	Setting
Enable	Camera temper ON / OFF	[Default Value] OFF
Alarm Interval (1-1800s)	An alarm is generated when camera tamper occurs, it is generated again in next intervals (alarm interval) until the end of event (lasts 30 second). Setting range: 1-30 seconds.	[How to set] Enter a value in the area box. [Default Value] 10
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 the parameter and input an ID.
SMTP	If you turn on, system will send a notice email. You can set the email on Network Service / SMTP .	[Default Value] OFF

Deployment Time Settings

Setting deployment time: Click to select any time point within 0:00-24:00 from Monday to Sunday; or hold down the left mouse button, drag and release the mouse to select the deployment time within 0:00-24:00 from Monday to Sunday, and then click Apply to successfully set the time. **Note:** 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: Select the week on the left of set time which becomes red after selection, as shown in Figure 4-8, and then click **Delete** to delete the deployment time. You can also delete selected deployment time by means of inverse selection.

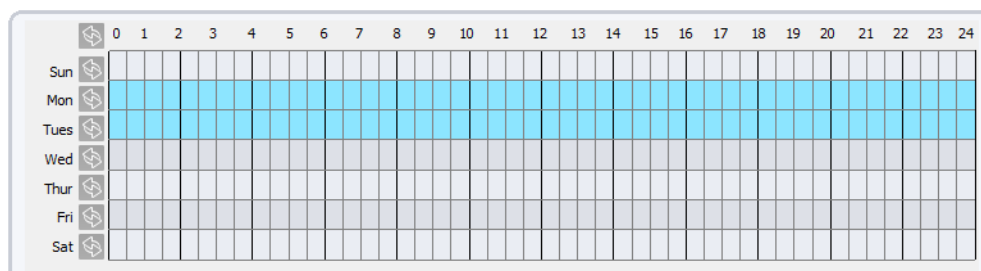


Figure 4-8 Deployment Time Setting Interface

ALARM FUNCTION

1. Setup I/O Alarm Parameters

Procedure



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

The **Alarm I/O** page is displayed, as shown in Figure 5-1.

Alarm Output

Alarm Output	1
Name	1
Valid Signal	Close
Alarm Output Mode	Switch Mode
Alarm Time(ms)(0:Continuous)	0

Manual control	<input type="button" value="Start"/>	<input type="button" value="Stop"/>
----------------	--------------------------------------	-------------------------------------

<input type="button" value="Refresh"/>	<input type="button" value="Apply"/>
--	--------------------------------------

Figure 5-1 Alarm I/O page





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

ALARM FUNCTION

1. Setup I/O Alarm Parameters

Procedure

Table 5-1 Alarm I/O parameters

Parameter	DESCRIPTION	Setting
Alarm Out	ID of the alarm output channel.  NOTE The number of alarm output channels depends on the device model.	[How to set] Select a value from the drop-down list box [Default Value] 10
Name	Alarm output channel name.	[Value range] 0 to 32 bytes
Valid Signal	The options are as follows: <ul style="list-style-type: none"> • Close: An alarm is generated when an external alarm signal is received. • Open: An alarm is generated when no external alarm signal is received. 	[How to set] 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 <ul style="list-style-type: none"> • 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. 	[How to set] 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.	[How to set] Select a value from the drop-down list box [Default Value] 0 [Value range] 0 to 86400 seconds
Manual Control	Control the alarm output.	



Step 3 Click **Apply**. The message "**Apply succeed!**" is displayed.

ALARM FUNCTION

2. Setup Network Alarm Parameters

Procedure



Step 1 Choose **Alarm > Network Alarm**.

The **Network Alarm** page is displayed, as shown in Figure 5-3

Network Alarm

Figure 5-2 Network Alarm page

Refresh

Apply



Step 2 Click the button on to enable exceptional alarm



Step 3 Configure the **alarm interval**.



Step 4 Select **Output Channel** number.



Step 5 Click **Apply**. The message "Apply succeed!" is displayed.



Step 6 Click **Confirm**. The system saves the settings.



Note

- Alarm Record is not active

ALARM FUNCTION

3. Setup Motion Detection Alarm Parameters

Description

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

- Enable the motion detection function.
- Set the motion detection arming 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.

Procedure



Step 1 Choose **Alarm > Motion Alarm**. The **Motion Alarm** page is displayed, as shown in Figure 5-3.

Motion Alarm

Figure 5-3 Motion Alarm page



Step 2 Click the button **ON** to enable **motion alarm**.



Step 3 Configure the **motion interval** (1-1800 seconds).



Step 4 Configure **sensitivity**. The **1** is the minimum and **7** is the maximum detection sensitivity.



Step 5 Configure **output channel**.



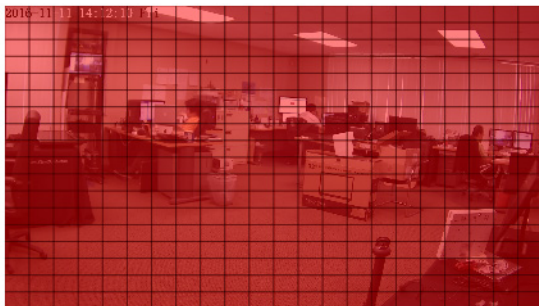
Step 6 **Alarm record** is not supported. Please skip to next step.

ALARM FUNCTION

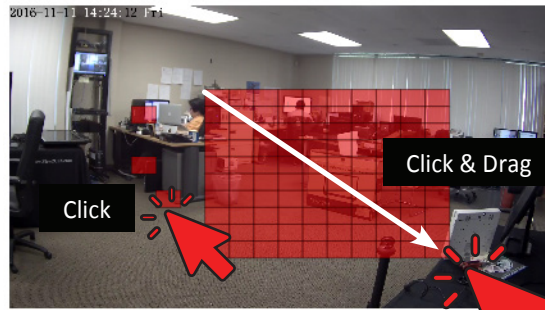
3. Setup Motion Detection Alarm Parameters

Procedure

- ▶ **Step 7** Turn on the **SMTP** notice. If you turn on, system will send an email about motion detection alarm.
- ▶ **Step 8** Configure the detection area.
Press and hold the left mouse button, and drag in the video area to draw a detection area.



Clear



Clear

Figure 5-4 Motion Area Setting page - Setup motion detection area



Note

- Click **Clear** to delete a detection area.
- Click **Reverse** to select the area out of specified frames as the detection area.

- ▶ **Step 9** Click Apply.
The message "Apply succeed!" is displayed.
- ▶ **Step 10** Click Confirm.
The system saves the settings.

PRIVACY MASK

Configuration of the Privacy Mask Function

Procedure



Step 3 Click Privacy Masking.

The **Privacy Masking** page is displayed, as shown in Figure 6-1.

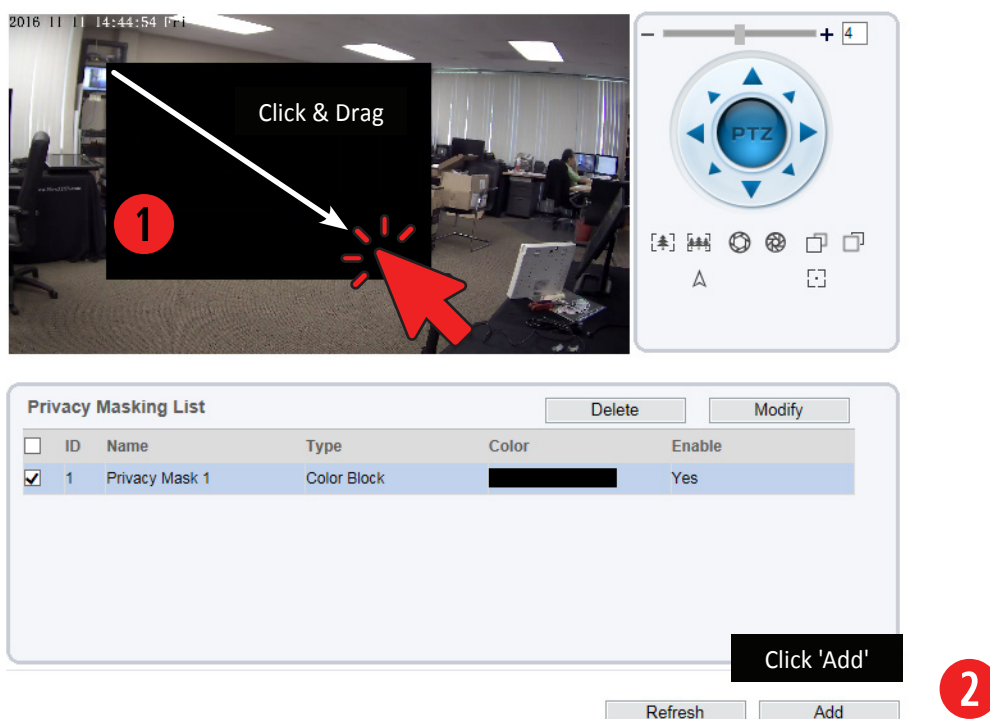


Figure 6-1 Privacy Masking Page



Step 2 Click the button on to enable Privacy Masking, and configure the privacy mask type, color and alpha parameters.



Step 3 Press and hold the left mouse button, and drag on the preview image to cover the part to be masked.



Note

- 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 five areas can be masked.
- You can click **Refresh** to configure the masked areas again.
- **Delete** button is to delete Masking area. **Modify** button is to redraw the masking area of current masking.



Step 4 Click **Apply**. The message "Apply succeed!" is displayed.



Step 5 Click **Confirm**. The system saves the settings.

NETWORK SERVICE

1. Setup DDNS Parameters

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 **Network Service > DDNS**.

The **DDNS page** is displayed, as shown in Figure 7-1.

DDNS ON	
Provider	3322_ddns
Network Card Name	eth0
Host Name	
Account	
Password	
<input type="button" value="Test DDNS"/>	

Figure 7-1 DDNS page




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

NETWORK SERVICE

1. Setup DDNS Parameters

Procedure

Table 7-1 DDNS parameters

Parameter	DESCRIPTION	Setting
DDNS	Indicates whether to enable the DDNS service.	[Setting method] Click the button ON . [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	Installed network card name	
Host Name	Host name customized by a user	[Setting method] Enter a value manually. [Default Value] Blank
Account	User name to login into the DDNS server	[Setting method] Enter a value manually. [Default Value] Blank
Password	Password to login into the DDNS server	[Setting method] Enter a value manually. [Default Value] Blank



Step 3 Click **Apply**.

- The message "Apply succeed!" is displayed. Click Confirm. The system saves the settings.
- If other information is displayed, set the parameters correctly.

NETWORK SERVICE

2. Setup PPPoE Parameters

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 **Network Service > PPPoE**.

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

PPPoE ON

Account

Password

IP Address Empty

Refresh Apply

Figure 7-2 PPPoE page



Step 2 Click the button on to enable PPPoE.



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

NETWORK SERVICE

2. Setup PPPoE Parameters

Procedure

Table 7-2 PPPoE parameters

Parameter	DESCRIPTION	Setting
PPPoE	Indicates whether to enable the PPPoE service.	[Setting method] Click the button ON . [Default Value] OFF
Account	PPPoE user name provided by the network carrier.	[Setting method] Enter a value manually. [Default Value] Blank
Password	Password provided by the network carrier.	[Setting method] Enter a value manually. [Default Value] Blank
IP Address	The parameter is automatically filled by network.	



Step 3 Click **Apply**.

- The message "Apply succeed!" is displayed. Click Confirm. The system saves the settings.
- If other information is displayed, set the parameters correctly.

NETWORK SERVICE

3. Setup SMTP Parameters

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 **Network Service > SMTP**.

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

SMTP Server Address	*	<input type="text"/>
SMTP Server Port	*	<input type="text" value="25"/>
User Name	*	<input type="text"/>
Password	*	<input type="text"/>
Sender E-mail Address	*	<input type="text"/>
Recipient_E-mail_Address1	*	<input type="text"/>
Recipient_E-mail_Address2		<input type="text"/>
Recipient_E-mail_Address3		<input type="text"/>
Recipient_E-mail_Address4		<input type="text"/>
Recipient_E-mail_Address5		<input type="text"/>
Attachment Image Quality		<input type="text" value="Mid"/>
Transport Mode		<input type="text" value="No Encrypt"/>
<input type="button" value="Email Test"/>		

Figure 7-3 SMTP page



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

NETWORK SERVICE

3. Setup SMTP Parameters

Procedure

Table 7-3 SMTP parameters

Parameter	DESCRIPTION	Setting
SMTP Server Address	Email SMTP address * Required to type	[Setting method] IP address or web address [Default Value] Blank
SMTP Server Port	SMTP Server port number is provided by hosting company. * Required to type	[Setting method] Enter a value manually. [Default Value] 25
User Name	Main recipient Email address or user-name * Required to type	[Setting method] Enter a value manually. [Default Value] Blank
Password	Main recipient Email address password * Required to type	[Setting method] Enter a value manually. [Default Value] Blank
Sender E-mail Address	Sender email address * Required to type	[Setting method] Enter a value manually. [Default Value] Blank
Recipient E-mail Address1	Main Recipient Email address * Required to type * This one can be same as 'User Name'	[Setting method] Enter a value manually. [Default Value] Blank
Recipient E-mail Address 2-5	Extra Recipient Email addresses	[Setting method] Enter a value manually. [Default Value] Blank
Attachment Image Quality	Setup the quality of capture image quality	[Setting method] Select a value from the drop-down list box. [Default Value] Mid
Transport Mode	Setup Email transfer mode	[Setting method] Select a value from the drop-down list box. [Default Value] No Encrypt



Step 3 Click Apply.

- The message "Apply succeed!" is displayed. Click Confirm. The system saves the settings.
- If other information is displayed, set the parameters correctly.

USER PERMISSIONS

Definition of Permission for Group & User

Description





NOTE

User can setup the permission for a Group and create an User under the Group Role. The Group permission is based on 3 categories which are **Administrators**, **Operator**, and **Media user**, where the **Administrators (default)** group cannot be deleted. Their permissions are described as follows:

- **USER Name** : Login ID
- **Administrators**: Privilege Manage, System Maintenance, Parameter Configure, Record Operation, Video Control, and Live Video
- **Operator**: System Maintenance, Parameter Configure, Record Operation, Video Control, and Live Video
- **Media user**: Video Control and Live Video

However, user can also create an another Administrator group based on user choice.

Table 7-1 User/Group Definition

Parameter	Description	Setting
User	User name for log-in to the IP camera	[Setting method] Click  icon on Figure 7-2 and then type the User Name (login ID) and Password like Figure 7-3. After typing User Name & Password, user need to assign a role like Figure 7-4.
Group	Permission group where a user belongs. The default permission groups are Administrators , Operator , and Media user . Their permissions are described as follows: <ul style="list-style-type: none"> • Administrators : Privilege Manage, System Maintenance, Parameter Configure, Record Operation, Video Control, and Live Video • Operator : System Maintenance, Parameter Configure, Record Operation, Live Video Video Control, and Live Video • Media user : Video Control and Live Video 	[Setting method] Click  icon on Figure 7-1 and then make a Group name. After creating a Group, select a parameter on Figure 7-1.

USER PERMISSIONS

1. Configuration of Permission for Group

Description

You can add, modify, and delete permission groups, and select available permissions to grant them to the corresponding group.



Note

- Only the users with the **Privilege Manage permission** can access the **Group** and **User** pages.

Procedure



Step 1 Choose **Privilege Manager > Group**.

The **Group** page is displayed, as shown in Figure 8-1.

Group: Administrators

	Privilege	Privilege Detail
1	<input checked="" type="checkbox"/> Privilege Manager	(add, delete or modify users, privilege groups)
2	<input checked="" type="checkbox"/> System Maintenance	(one-button click to collect logs, search system logs, reboot, default setting)
3	<input checked="" type="checkbox"/> Parameter Configure	(configure the parameters of devices functions. e.g. Device IP address, device time, video watermark, alarm set.)
4	<input checked="" type="checkbox"/> Record Operation	(search and play device recording)
5	<input checked="" type="checkbox"/> Video Control	(Configure live video including PTZ setting and image sensor.)
6	<input checked="" type="checkbox"/> Live Video	(View live video, switch streams, and turn on audio and two-way talk.)

Select All

Refresh Apply

Figure 7-1 Group page



The default permission groups are **Administrators**, **Operator**, and **Media user**, where the **Administrators** group cannot be deleted. Their permissions are described as follows:

- Administrators:** Privilege Manage, System Maintenance, Parameter Configure, Record Operation, Video Control, and Live Video
- Operator:** System Maintenance, Parameter Configure, Record Operation, Video Control, and Live Video
- Media user:** Video Control and Live Video

USER PERMISSIONS


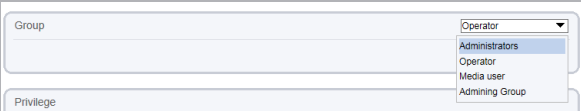

1. Configuration of Permission for Group

Procedure



Step 2 Add, modify, or delete a group as required. Table 7-2 describes the operations.

Table 7-2 Operation description

Function	Procedure	Description
Add	<ol style="list-style-type: none"> Click  icon. Then, the Add Group page will be displayed. Enter a group name. Click OK. The group is added successfully. The Group page is displayed. Select the group from the Group drop-down list box. Assign permissions to the group. Click Apply. The permission of the added group is set successfully. 	Add a group
Update	<ol style="list-style-type: none"> Select the Group in the list box  Then, the selected Group page is displayed. Modify the Group Privilege Click Apply button to save the update. 	Update the permission of a group.
Delete	<p>Select the group from the Group drop-down list box. Click  icon , the message “Are you sure to delete the group?” is displayed, click confirm, then the group is deleted successfully.</p>	Delete a group.

USER PERMISSIONS

2. Configuration of Permission for User

Description

You can add, modify, and delete a user and unlock a user that is locked after entering an incorrect password for specified number of times. The **Privilege Manage** permission is required to unlock a user.



Note

- Only the users with the **Privilege Manage permission** can access the **Group** and **User** pages.

Procedure



Step 1 Choose **Privilege Manager > User**.

The **User page** is displayed, as shown in Figure 10-2. Table 10-2 describes the parameters.

Figure 7-2 User page

Figure 7-3 User page / Add User

Figure 7-4 User page / Add User by Role

Figure 7-5 User page / Modify User



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





Table 7-3 describes the operations.

USER PERMISSIONS

2. Configuration of Permission for User

Procedure

Table 7-3 Operation description

Function	Procedure	Description
Add	<ol style="list-style-type: none"> 1. Click  icon on Figure 7-2. Then, the Add User window (Fig.7-3) will be pop-up. 2. Enter a user name, password, or group. Select a Role (Group) of User (Figure 7-4). 3. Click OK. The user is added successfully. 	Add an User that has Administrator, Operator, Media-user or custom Group role.
Modify (Update)	<ol style="list-style-type: none"> 1. Click  icon on Figure 7-2. Then, the Modify User (Fig.7-5) will be pop-up. 2. Modify the user name, password, or group. 3. Click OK. The user is modified successfully. 	Modify the user name, password, or group.  NOTE A password must be set according to the following rules: <ul style="list-style-type: none"> • The password length of a user (including the administrator and super administrator) must range from 8 to 32 characters. • A password must contain at least a digit, a lower case letter, and an upper case letter. • A password cannot be the same as the user name or the reverse of the user name.
Delete	Select the user from the User drop-down list box. Click  icon , the message “Are you sure to delete the user?” is displayed, click confirm, then the group is deleted successfully.	Delete a user.

SETUP PLATFORM PARAMETERS

1. Check up Protocol

Description

You can view the existing protocol name and version number of the current device on the **Protocol > Protocol Info** page, as shown in Figure 8-1. Table 8-1 describes the protocol-related parameters.

The screenshot shows a web interface for viewing protocol information. It contains three rows of data:

Protocol Name	ONMF
Protocol Version	v2.4
Protocol Software Version	v2.4_build004044

Below the data is a "Refresh" button.

Figure 8-1 Protocol Info page


Table 8-1 Protocol-related parameters

Parameter	DESCRIPTION
Protocol Name	Type of access protocol.
Protocol Version	Version number of the access protocol.
Protocol SW Version	Software version number of the access protocol.

SETUP PLATFORM PARAMETERS

2. Setup Security Authentication

Description

-  **Step 1** Choose **Protocol > Security**.
The Security page is displayed as shown in Figure 8-2. Table 8-2 describes the parameters on the Security page.

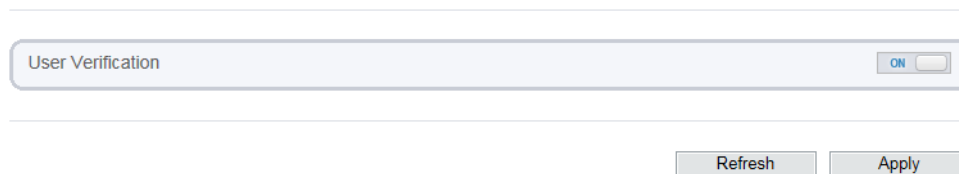




Figure 8-2 Security page

Table 8-2 Parameter description

Function	Procedure	Description
User Verification	<p>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.</p> <p> NOTE</p> <ul style="list-style-type: none"> The default user name is admin, and the default password is admin. 	<p>[Setting method] Click the button on to enable User Verification.</p>

-  **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.

QUERYING DEVICE LOGS

1. Querying Operation Logs

Procedure



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 operation logs to be queried from the **System Log** drop-down list box.
4. Enter the corresponding user name that is registered with the device from the **User Name** drop-down 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.



NOTE

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() StartUpDevice  
2012-06-20 13:42:46 user(admin) ConfigureDeviceName  
2012-06-20 13:43:16 user(admin) ConfigureAlarmIn
```

QUERYING DEVICE LOGS

2. Querying 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 **Device Log > Alarm Log**.

The **Alarm Log** page is displayed, as shown in Figure 9-2.

Alarm Type	All ▼
Begin Time	2016-11-15 8:2:34
End Time	2016-11-16 8:2:34
<input type="button" value="Download"/> <input type="button" value="Query"/>	

Alarm Begin Time	Alarm End Time	Log Info	Source ID

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Figure 9-2 Alarm Log page

QUERYING DEVICE LOGS

2. Querying Alarm Logs

Procedure



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.
4. The log link and the message "Please download log by 'save as 'in the right key" are displayed.
5. Right-click the link and save the logs.



NOTE

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 SourceId(1:1)

2012-03-17 16:35:31 -> 2012-03-17 16:35:41 occur motion detect alarm SourceId(1:1)

MAINTENANCE (RESET & RESTORE)

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 **Maintenance**.

The **Device Maintenance** page is displayed, as shown in Figure 10-1.

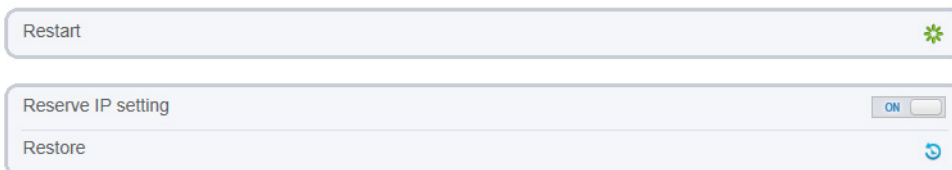


Figure 10-1 Device Restart page



Step 2 Click icon.

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



Step 3 Click **Confirm**.

The device is restarted successfully five minutes later.

MAINTENANCE (RESET & RESTORE)

2. Restore a 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.



CAUTION

After you click  icon, 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 Click Maintenance.

The Device Maintenance page is displayed.



Step 2 Click  icon.

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



Step 3 Click Confirm.

The device will be restored to the factory settings.

