

# Nice EL-IP Series



EL-IP-4FT-WH  
EL-IP-4FT-BK  
EL-IP-4FB-WH  
EL-IP-4FB-BK  
EL-IP-4FD-WH

EL-IP-4PT-WH  
EL-IP-8FT-WH  
EL-IP-8FT-BK  
EL-IP-8FB-WH  
EL-IP-8FB-BK

## Surveillance Cameras

User Manual

Nice

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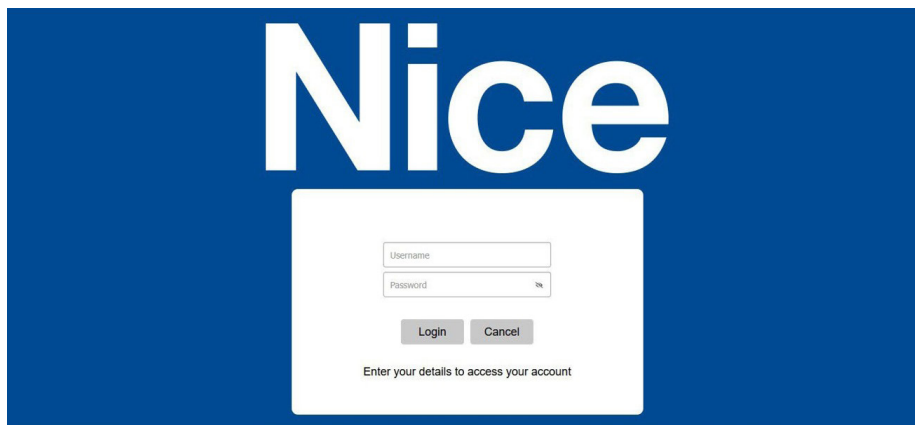
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# 1 Camera Setup

When used with ELAN OS, the cameras should be configured through the ELAN configurator/UI, which setups the password. If you do not continue with the setup below, refer to the Integration Note. If used without, the web GUI can be used to setup and manage the camera.

## 1.1 Web GUI

- Step 1** Connect a computer to the switch that is connected to the camera.
- Step 2** Find the IP address of the camera. By default the camera is set to DHCP. You can filter the range of IP's on a network by MAC. The cameras, as other Nice products, will start with a MAC of F8-57-2E.
- Step 3** Start a browser, Chrome is preferred, and enter the IP address of the camera in the address bar to access the web GUI.
- Step 4** Enter the Credentials. One time use: Username "Nice" Password "3526".



- Step 5** Change password.

**Activation**

Username admin

Password

8-16 characters, only numbers, lowercase letters, uppercase letters, special characters (& <[!=""@#%&^\*()\_+?:"{}.,/;[] space) allowed 2 and above combinations

Confirm Pass...

Confirm

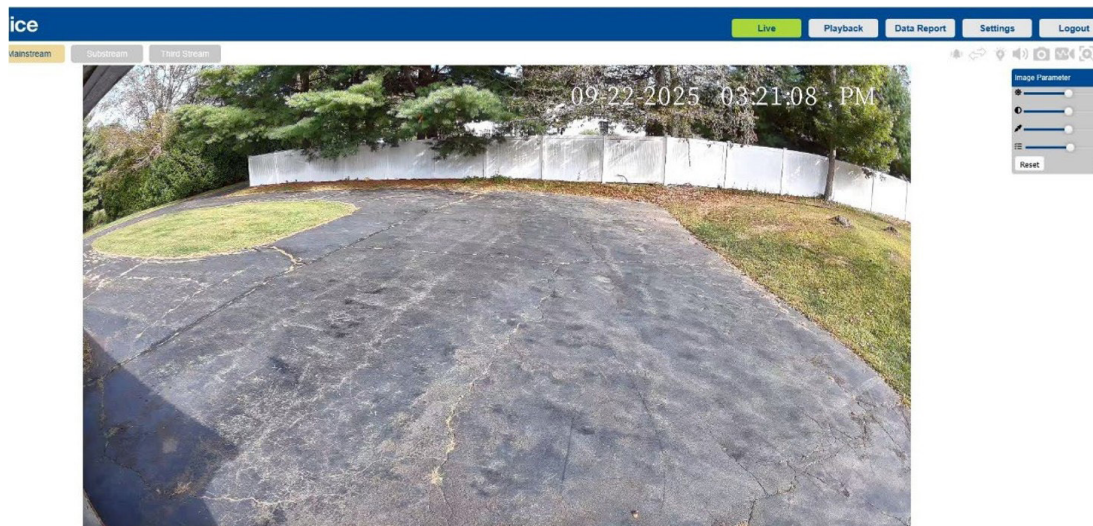
## 2 Web UI Settings

### 2.1 Device Login

**Step 1** Enter the User Name and Password, then click **Login**.



After successfully logging in to the web UI of the camera, you can start to configure the camera as required.



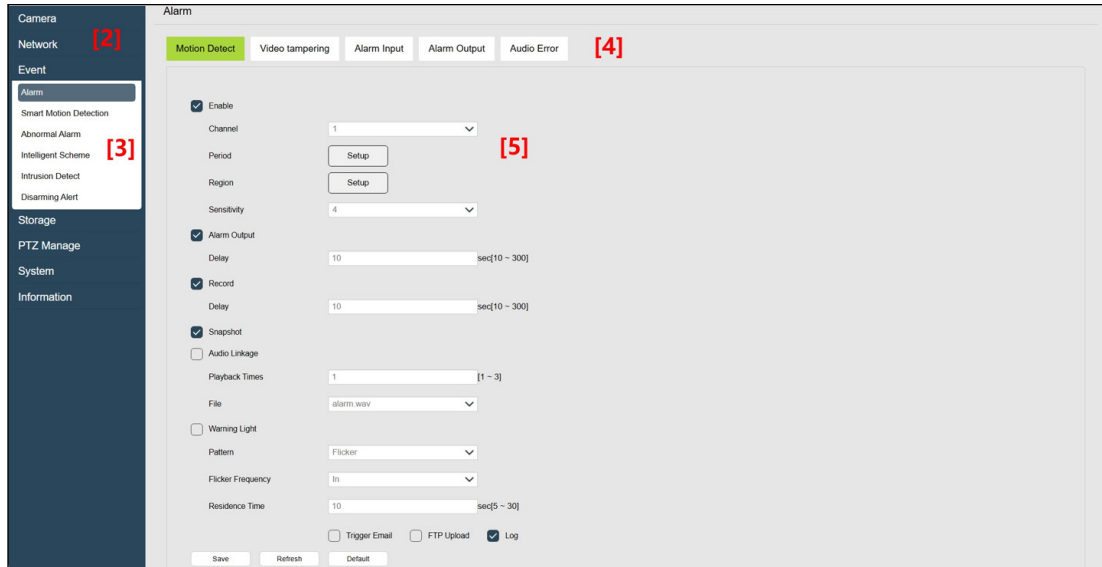
### 2.2 Logout

You will be logged out automatically if no operation is performed within 5 minutes.

# 3 Web GUI Layout

## 3.1 Layout

The web UI of the camera consists of two sections, including the navigation bar and the configuration area. See the following figure (PTZ was used in this illustration).



### Note

Features and parameters in gray indicate that they are not available or cannot be changed under the current configuration.

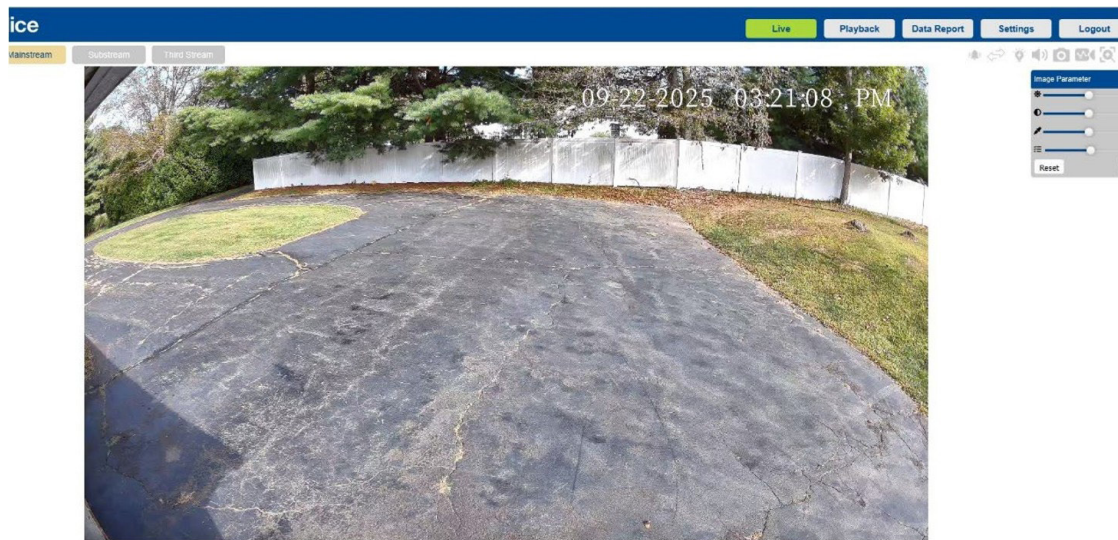
No.	Name	Description
1		
2	Navigation bar	Used to display the function menu of the camera. You can select functions in the navigation bar and then the configuration appears in the configuration area.
3		
4	Tab	
5	Configuration area	Used to view or modify your configuration.

# 4 Live View

The default page is the live view page after you enter the web UI of the camera. In this section, you can:

- View Real-time Monitoring Image of the camera
- PTZ Control

## 4.1 View Real-time Monitoring Image

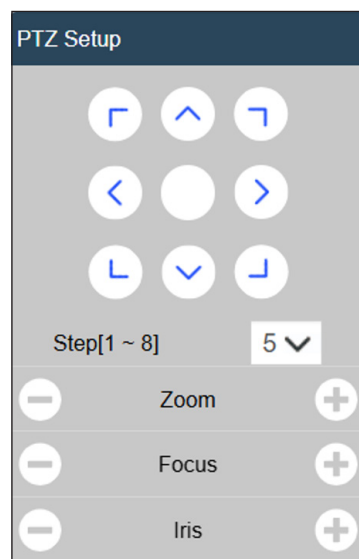


## 4.2 PTZ Control


### Overview

PTZ indicates a mechanical platform composed of motors, which can move horizontally and vertically. Through the control system, the direction and speed of the PTZ camera or speed dome camera can be remotely controlled.

On the live view page, you can control the PTZ camera or speed dome camera, including adjusting the monitoring direction and setting and calling the preset point.



#### Parameter & Button description

Parameter/Button	Description
	Used to control the PTZ direction. The direction (up, down, left, right) of the dome camera can be controlled.
1-8	Specifies the number of preset.
Preset Preset1- Preset8	Specifies the name of the preset.

## 4.2.1 Call Preset

Control the camera to rotate to the monitoring position of the specific preset.

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Note

Before the preset is called, you need to Set Preset first.

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### Procedure:

**Step 1** Log in to the web UI of the camera.

**Step 2** Click **Live**, target the preset you want to call in **Preset**, and then click **Call**.



The camera will rotate to the monitoring position of this preset.

# 5 Setting

On the **Setting** page, you can:

- Configure image parameters, OSD and privacy mask.
- Modify the parameter of the audio & video.
- Configure events.
- Configure network parameters.

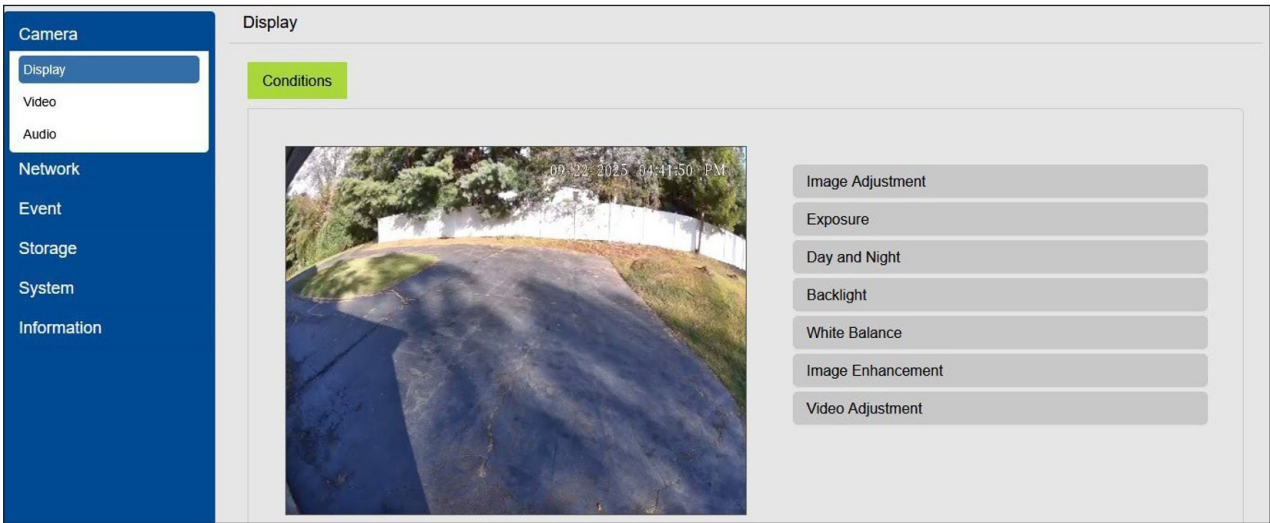
## 5.1 Image Configuration

### 5.1.1 Image Parameter

#### Overview

To access the configuration page, log in to the web UI of the camera, and then navigate to **Setting > Camera > Display**.

You can adjust the image parameters to improve the visual effect of the camera monitoring image.



#### Parameter description

Parameter		Description
Image adjustment	Brightness	Specifies the brightness of the image. The brightness value can be adjusted when the overall monitoring image is dark or bright. The larger the value, the brighter the image.

Parameter	Description
Contrast	<p>Specifies the ratio of the lightest area to the darkest area in the image.</p> <p>The contrast value can be adjusted when the sense of layering in the monitoring image is poor and the contrast between the white and black of the image is insufficient. The larger the value, the greater the contrast between light and dark of the image.</p>
Saturation	<p>Specifies the vividness of the colors in the image. The larger the value, the more vivid the image color.</p>
Sharpness	<p>Specifies the sharpness of the edges of the image. The larger the value, the more obvious the edges of the image.</p>
Exposure Exposure Mode	<p>Specifies the exposure mode of the camera.</p> <ul style="list-style-type: none"> <li>◆ <b>Auto:</b> Specifies both gain and exposure time are automatic. The exposure time of the image sensor (such as CCD) is adjusted according to the brightness of the environment light to get a clear image.</li> <li>◆ <b>Gain Priority:</b> Specifies the exposure time is automatically adjusted according to the manually adjusted gain, the camera can output standard images under different lighting conditions. It cannot be configured when the <b>Fill Light Mode</b> is <b>Auto</b>.</li> <li>◆ <b>Shutter Priority:</b> Specifies the gain is automatically adjusted according to the manually adjusted exposure time, the camera can output standard images under different lighting conditions.</li> <li>◆ <b>Manual:</b> Specifies both gain and exposure time can be adjusted manually. It cannot be configured when the <b>Fill Light Mode</b> is <b>Auto</b>.</li> </ul>
Anti-Flicker	<p>Specifies the system sets the electronic shutter of the camera to an integer multiple or 0.5 times of the flickering frequency of the light to prevent streaks in the image.</p> <ul style="list-style-type: none"> <li>◆ <b>PAL(50Hz):</b> It is available for such countries or regions as mainland China, China Hong Kong, and the United Kingdom.</li> <li>◆ <b>NTSC(60Hz):</b> It is available for such countries or regions as China Taiwan, the United States, Japan, and Canada.</li> </ul>
Exposure Time	<p>Specifies the electronic shutter time of the camera.</p> <p>When the image brightness and gain are both constant, the longer the exposure time, the higher the brightness of the image.</p>

Parameter	Description
Day&Night	<p>Specifies the fill light mode of the camera.</p> <ul style="list-style-type: none"> <li>◆ <b>Auto:</b> Specifies the fill light can be automatically enabled according to the change of environment light brightness.</li> <li>◆ <b>Schedule:</b> Specifies the fill light can be enabled/disabled by preset time.</li> <li>◆ <b>Always on:</b> Specifies the fill light is always enabled.</li> <li>◆ <b>Always off:</b> Specifies the fill light is always disabled.</li> </ul>
	<p>Specifies the light threshold of the fill light can be enabled automatically. Only available when the <b>Fill Light Mode</b> is <b>Auto</b>.</p> <p>The higher the sensitivity, the smaller the light threshold that triggers the fill light, and the easier to enable the fill light.</p>
	<p>Specifies the extended time for enabling the fill light after the conditions are met. Only available when the <b>Fill Light Mode</b> is <b>Auto</b>.</p>
	<p>Specify the period when the <b>Fill Light</b> is enabled. Only available when the <b>Fill Light Mode</b> is <b>Schedule</b>.</p>
	<p>Specify the period when the <b>Fill Light</b> is enabled. Only available when the <b>Fill Light Mode</b> is <b>Schedule</b>.</p>
	<p>Specifies the monitoring image effect of the camera at night. Only available for full-color version cameras.</p> <ul style="list-style-type: none"> <li>◆ <b>Infrared:</b> The infrared supplement light of the camera is enabled, and the monitoring image is always in black and white.</li> <li>◆ <b>Full Color:</b> The white supplement light of the camera is enabled, and the monitoring image is always in color.</li> <li>◆ <b>Smart:</b> When a moving object or human figure is detected, the white light of the camera will be enabled and the monitoring image will be in color, otherwise the infrared light will be enabled and the monitoring image will be in black and white.</li> </ul>
	<p>Used to control the brightness of the fill light to ensure proper exposure to objects near the camera. Only available in the <b>Infrared</b> and <b>Smart</b> mode.</p>
	<p>Used to customize the brightness of the white light. Only available in the <b>Infrared</b> and <b>Full Color</b> mode.</p>

Parameter		Description
Backlight	Disabled	Specifies the <b>Back Light Compensation (BLC)</b> function is disabled.
	WDR	Wide Dynamic Range (WDR). When the high brightness area in the monitoring image contrasts with the low brightness area, the system weakens the high brightness area and brightens the low brightness area, so that both the bright part and the dark part can be seen clearly.
	BLC	Back Light Compensation (BLC). Specifies the system exposes the <b>Compensation Area</b> to reach the appropriate brightness to ensure the clarity of the image.
	HLC	Highlight Compensation (HLC). Specifies in a strong light environment, the system will weaken the strong light area and brighten the dark light area to achieve light balance and make the whole image clearer.
	Level	Specifies the level of <b>WDR</b> or <b>HLC</b> . The higher the level, the more obvious the effect.
	Compensation Area	Specifies the area to be exposed. Only available when backlight mode is <b>BLC</b> .
White Balance	White Balance	Specifies the overall color of the image can be adjusted by setting the white balance mode.  <ul style="list-style-type: none"> <li>◆ <b>Auto:</b> Specifies the image color can be automatically adjusted according to the environment color temperature to restore the true color.</li> <li>◆ <b>Manual:</b> Specifies that R gain and B gain can be manually adjusted to adjust the image color.</li> <li>◆ <b>Lock:</b> Specifies the current color temperature is locked.</li> <li>◆ <b>Fluorescent:</b> Specifies the color of the image can be adjusted according to the color temperature of the fluorescent light.</li> <li>◆ <b>Incandescent:</b> Specifies the color of the image can be adjusted according to the color temperature of the incandescent light.</li> <li>◆ <b>Warm:</b> Specifies the color of the image can be adjusted according to the color temperature of the warm light.</li> <li>◆ <b>Natural:</b> Specifies the color of the image can be adjusted according to the color temperature of the natural light.</li> </ul>
Image Enhancement	3D Noise Reduction	Specifies the image noise reduction.  Compare the images of the two frames before and after, target the noise location and handle noise reduction to make the image clearer and more delicate.
	Level	Specifies the level of the 3D noise reduction.  The higher the level, the more noise locations are handled by noise reduction. Note If the noise reduction level is too high, the image may be distorted or blurred.

## 5.1.2 Night Vision Settings

Assume that you want the monitoring images of the camera to be colored during the day and night, you can modify the night vision mode of the cameras.

### Procedure:

**Step 1** Log in to the web UI of the camera.

**Step 2** Navigate to **Setting > Camera > Display > Day&Night**.

**Step 3** Modify the night vision mode of the camera, which is **Full color** in this example.

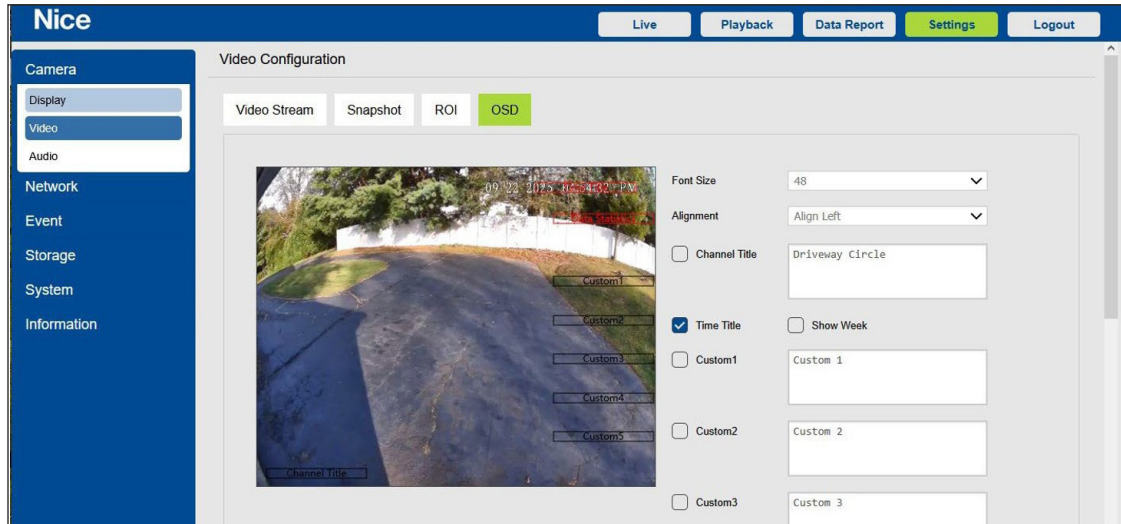
Day and Night	
Mode	Auto
Filtering Time	3s
Sensitivity	3
Fill Light Mode	Smart Light
Effective Object	<input checked="" type="checkbox"/> Human Body <input checked="" type="checkbox"/> Vehicle
Delay	5s
White Light Bright...	100
Infrared Light Brig...	100
Overexposure Re...	OFF

**Step 4** Click **Save**.

After the setting completes, the monitoring images of the camera is in color during the day.

### 5.1.3 OSD Configuration

On-Screen Display (OSD) refers to displaying the required information on the screen. This refers to the information displayed on the screen overlaid with the monitoring image at the same time.



#### Parameter description

Parameter	Description
Display Name	Specifies whether to display the channel name on the monitoring image.
Channel Name	Specifies the channel name. You are recommended to modify the channel name to the description of the installation position of the channel camera so that you can quickly locate each camera when managing multiple cameras.
Display Time	Specifies whether to display the channel time.
Display Week	Specifies whether to display the monitoring image. It is available when the <b>Display Time</b> function is enabled.
Date Format	Specifies the format of the camera system date display. Y means the year, M means the month, and D means the day. Only available in when the Display Time function is enabled.
Time Format	Specifies the format of the camera system time display. Y means the year, M means the month, and D means the day. Only available in when the <b>Display Time</b> function is enabled.
Font Size	Specifies the font size of the OSD information display. You can select it as required.

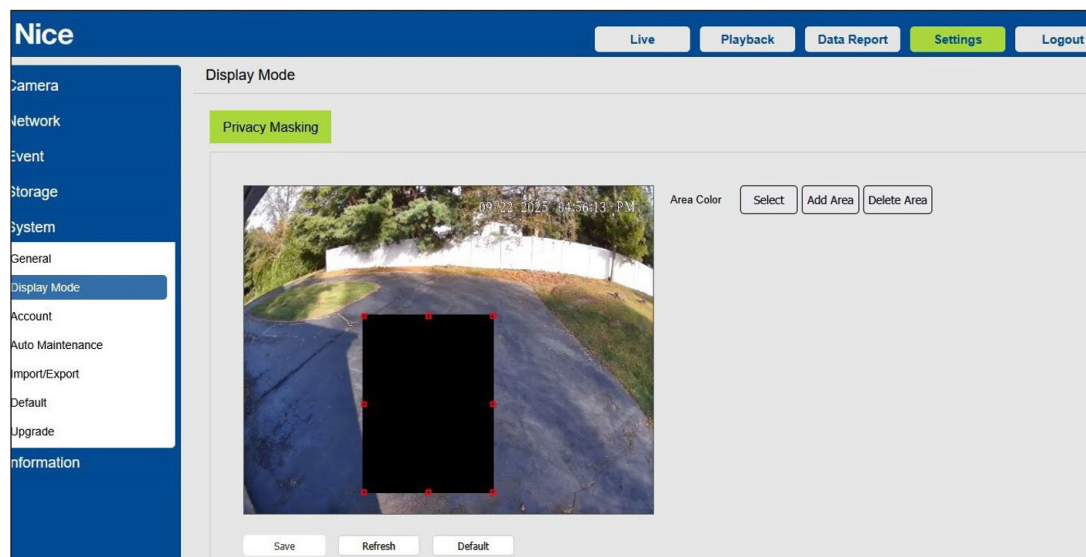
Parameter	Description
Property	Specifies the transparency of the content displayed on the monitoring image. Note <b>Transparent</b> indicates the transparency of 50%.
Text Overlay	Specifies the displayed content is customized on the monitoring image. A maximum of two are supported.
OSD Position	In live view area, you can use the left mouse button to long press and drag the OSD to modify the display position of the OSD.

## 5.1.4 Privacy Mask

### Overview

To protect your privacy, you can set some areas in the monitoring image (such as the bedroom window area) as privacy areas here. The privacy areas will not be displayed on the monitoring image.

This function is disabled by default. When it is enabled, the page is shown as below. Use the mouse to draw a privacy area in the preview area on the left. The following figure is for reference only.



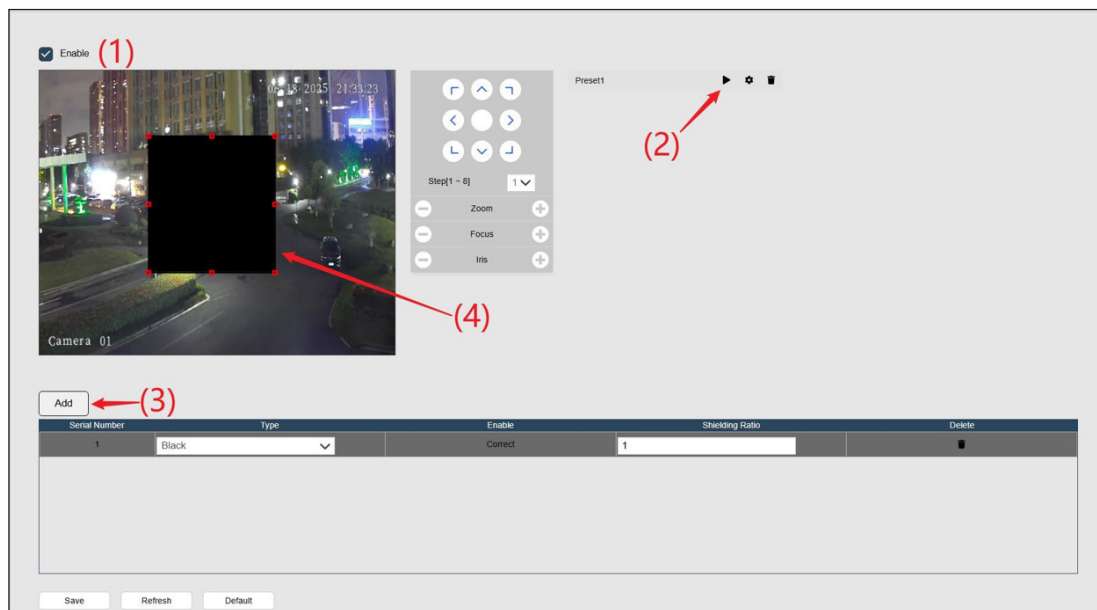
## Draw Privacy Area

Assume that you want to hide some monitoring areas on the monitoring image.

### Procedure:

**Step 1** Add Area.

**Step 2** Hold down the left mouse button to draw the private area on the left side of the preview area. Release the mouse after the privacy area is drawn. The following figure is for reference only.



**Step 3** Click **Save**.

## 5.2 Audio and Video Configuration

### 5.2.1 Video Configuration

The video configuration function enables you to adjust the video encoding parameters.

The screenshot shows the 'Video Configuration' interface. On the left is a navigation menu under 'Camera' with options: Display, Video (selected), Audio, Network, Event, Storage, PTZ Manage, System, and Information. The main panel is titled 'Video Configuration' and has tabs for 'Video Stream', 'Snapshot', 'ROI', and 'OSD'. The 'Video Stream' tab is active. It shows 'Stream Type' set to 'Mainstream'. Below this is a 'Mainstream' section with the following parameters: 'Encode Mode' (H.265), 'Smart265' (OFF), 'Profile' (Main Profile), 'Resolution' (4M(2560\*1440)), 'Frame Rate' (30), 'Bit Rate Type' (CBR), 'Image Quality' (4), 'Bit Rate' (4096 Kb/s), and 'I Frame Interval' (60 Frame[30~150]). There is a checked checkbox for 'Audio'. At the bottom of the main panel are 'Save', 'Refresh', and 'Default' buttons.

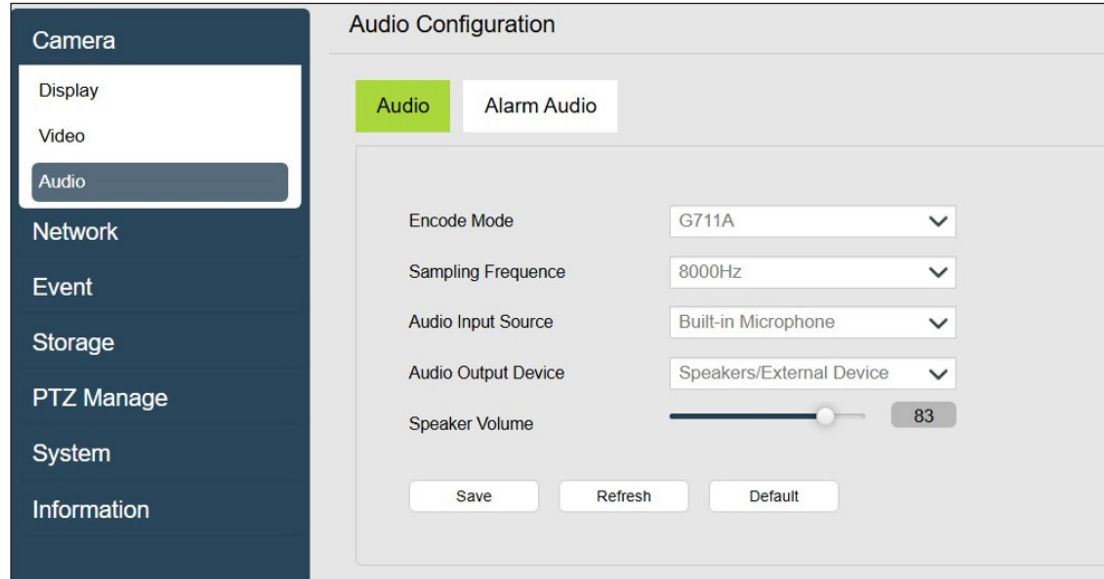
#### Parameter description

Parameter	Description
Stream Type	<p>Specifies the stream type of the camera.</p> <ul style="list-style-type: none"><li>◆ <b>Main Stream:</b> The stream has a large value and a high occupied bandwidth, which is applicable for large-screen monitoring and storage.</li><li>◆ <b>Sub Stream:</b> The stream has a small value and a small occupied bandwidth, which is applicable for small-screen monitoring and network transmission.</li></ul>

Parameter	Description
Encoding Type	<p>Specifies the encoding standard of the video.</p> <ul style="list-style-type: none"> <li>◆ <b>H.264:</b> A generation of highly compressed video codec standards after MPEG4, which improves compression efficiency under the same video quality.</li> <li>◆ <b>H.265:</b> A generation of video coding standards after H.264, which improves the bit stream, coding quality, and delay to optimize coding and save more bandwidth and capacity under the same video quality.</li> </ul>
Resolution	<p>Specifies the number of pixels contained in a frame of an image. The higher the resolution, the clearer the image and the more obvious details.</p>
Frame Rate	<p>Specifies the number of video frames displayed per second. The higher the frame rate, the smoother the image.</p>
Bitrate Type	<p>Specifies the bit rate control method of the video.</p> <ul style="list-style-type: none"> <li>◆ <b>Fixed:</b> According to the upper limit of the bit rate to encode, the bit rate will fluctuate up and down in the bit rate value, and will not change with the monitoring scene.</li> <li>◆ <b>Variable:</b> The bit rate will change with the monitoring scene. Adopt a high bit rate when the monitoring scene is moving or changing. The Variable Bit Rate (VBR) adopts a lower bit rate when the monitoring scene is static.</li> </ul>
Video Quality	<p>Specifies the quality level of the video. Please set it as required. This parameter is available only when <b>Bitrate Type</b> is set to <b>Variable</b>.</p>
Bitrate	<p>Specifies the size of the video data per unit time. The larger the bit rate, the better the picture quality.</p>

## 5.2.2 Audio Configuration

The audio configuration function enables you to adjust the audio encoding parameters.



### Parameter description

Parameter	Description
Audio Stream	<p>Specifies whether to enable the <b>Audio Stream</b> function.</p> <ul style="list-style-type: none"> <li>◆ <b>Enable:</b> Specifies the recording file is audio and video composite stream.</li> <li>◆ <b>Disable:</b> Specifies the recording file is a video stream, and no audio stream.</li> </ul>
Encoding Type	<p>Specifies the encoding standard of the audio. Select it according to the actual condition.</p> <ul style="list-style-type: none"> <li>◆ <b>G.711U, G.711A:</b> G711 is a set of voice compression standards developed by the International Telecommunication Union (ITU-T), mainly used for telephone voice communication. G.711U and G.711A are two compression methods in the ITU-T G.711 standard. G.711U is the <math>\mu</math>-law algorithm, and G.711A is the A-law algorithm.</li> <li>◆ <b>PCM</b></li> <li>◆ <b>G.726</b></li> </ul>
Sampling Rate	Specifies the number of audio samples collected per second.
Bit Depth	Specifies the number of bits of information in each sample.
Input Volume	Specifies the volume level of the camera audio input.

Parameter	Description
Output Volume	<p>Specifies the volume level of the camera audio output.</p> <p><b>Note</b></p> <p>The output volume set here will affect the volume of the Sound Alarm.</p>

## 5.3 Event Setup

### 5.3.1 Motion Detection

#### Overview

The motion detection function refers to the detection and alarm of moving targets. When a moving target appears on the monitoring image and the moving range reaches the threshold corresponding to the preset sensitivity, the system will alarm and record according to the linkage action you set.

The screenshot displays the 'Alarm' configuration page for 'Motion Detect'. The left sidebar contains navigation menus for Camera, Network, Event, Storage, PTZ Manage, System, and Information. The 'Event' menu is expanded to show 'Alarm' as the selected option. The main configuration area includes the following settings:

- Motion Detect** (Active tab):
  - Enable**
    - Channel: 1
    - Period: Setup
    - Region: Setup
    - Sensitivity: 4
  - Alarm Output**
    - Delay: 10 sec[10 ~ 300]
  - Record**
    - Delay: 10 sec[10 ~ 300]
  - Snapshot**
  - Audio Linkage**
    - Playback Times: 1 [1 ~ 3]
    - File: alarm.wav
  - Warning Light**
    - Pattern: Flicker
    - Flicker Frequency: In
    - Residence Time: 10 sec[5 ~ 30]
  - Notification options:
    - Trigger Email
    - FTP Upload
    - Log

Buttons at the bottom include Save, Refresh, and Default.

## Parameter & button description

Parameter		Description
Motion Detection		Specifies whether the motion detection function is enabled.
Detection Settings	Smart Detection	<p>Specifies the detection type.</p> <ul style="list-style-type: none"> <li>◆ <b>Human Detection:</b> The system will alarm only when a human is detected.</li> <li>◆ <b>Vehicle Detection:</b> The system will alarm only when a vehicle is detected.</li> <li>◆ Tick neither: The system will alarm when an object moves in the drawn detection area.</li> <li>◆ Draw the detection area: Hold down the left mouse button to draw the detection area in the live view area. Release the mouse after the detection area is drawn.</li> <li>◆ Draw the non-detection area: In full-screen detection, hold down the left mouse button to draw a non-detection area in the live view area. Release the mouse after the detection area is drawn.</li> </ul> <p>When the detection mode is Person or vehicle detection, the default is full-screen detection. Modify the Motion area to change</p>
Sensitivity		Specifies the detection sensitivity threshold that triggers an alarm. The larger the value, the easier it is to trigger an alarm.
	Fullscreen	Used to set all areas as the detection area with one click.
	Clear All	Used to clear the current detection area.

	Parameter	Description
Arming Sched.	Arming Sched.	<p>Used to set an arming schedule. By default, it is 7*24 hours.</p> <p>Set arming schedule:</p> <ul style="list-style-type: none"> <li>◆ When there is an arming schedule in the timetable, click any arming schedule and set it in the pop-up window. Or put the mouse on the far left or the last side of the arming schedule area, and then hold down the left mouse button to drag.</li> <li>◆ When the arming schedule is not set in the timetable. In the timetable, hold down the left mouse button to draw the arming schedule, and release the mouse after the arming schedule is drawn.</li> </ul> <p>Note The orange area means arming schedule, and the gray area means not arming schedule.</p>
	Clear All	Used to clear the current arming schedule.
	Common Linkage	<p>Specifies the ordinary alarm method of the camera after an alarm is triggered.</p> <ul style="list-style-type: none"> <li>◆ <b>Trigger Recording:</b> The system will record after an alarm is triggered. For normal recording, please ensure that the SD card is normal or cloud storage has been purchased, and the Recording Schedule is also in effect.</li> <li>◆ <b>Message Notification:</b> The system will send an alarm notification to such alarm center as App and NVR after an alarm is triggered. The camera needs to be added successfully through App and NVR. Refer to Manage the Camera through App and Manage the Camera through NVR for details.</li> <li>◆ <b>Person:</b> Only available when Person Detection is ticked. The camera moves as the Person moves.</li> </ul>
Linkage Action	Sound & Light Linkage	<p>Specifies the sound and light alarm method of the camera after an alarm is triggered.</p> <ul style="list-style-type: none"> <li>◆ <b>Audio Alarm:</b> The camera of the alarm channel will sound after an alarm is triggered. Refer to Sound &amp; Light Alarm for details.</li> <li>◆ <b>Light Alarm:</b> The camera of the alarm channel will flash the fill light after an alarm is triggered. Refer to Sound &amp; Light Alarm for details.</li> </ul> <p>Note To ensure that the sound alarm or light alarm works properly, check that the <b>Arming Sched.</b> of the sound &amp; light alarm takes effect within the period when the <b>Arming Sched.</b> of motion detection is effective.</p>

## 5.3.2 Video tampering

### Overview

The Video tampering function refers to the Video tampering alarm of the camera lens. When the camera lens is blocked by other objects and the moving sensitivity reaches the preset value, the system will alarm and record according to the linkage action you set.

The screenshot shows the 'Alarm' configuration page for 'Video tampering'. The left sidebar contains a navigation menu with categories: Camera, Network, Event, Storage, PTZ Manage, System, and Information. Under 'Event', 'Alarm' is selected, showing sub-items: Smart Motion Detection, Abnormal Alarm, Intelligent Scheme, Intrusion Detect, and Disarming Alert. The main panel has tabs for Motion Detect, Video tampering (active), Alarm Input, Alarm Output, and Audio Error. The 'Video tampering' settings include: 'Enable' (checked), 'Channel' (1), 'Period' (Setup button), 'Sensitivity' (4), 'Alarm Output' (checked), 'Delay' (10 sec [10 ~ 300]), 'Audio Linkage' (unchecked), 'Playback Times' (1 [1 ~ 3]), 'File' (alarm.wav), 'Warning Light' (unchecked), 'Pattern' (Flicker), 'Flicker Frequency' (In), 'Residence Time' (10 sec [5 ~ 30]), 'Trigger Email' (unchecked), and 'Log' (checked). Buttons for Save, Refresh, and Default are at the bottom.

### Parameter & button description

Parameter	Description
Video tampering	Specifies whether the Video tampering function is enabled.
Detection Settings Sensitivity	Specifies the detection sensitivity threshold that triggers an alarm. The larger the value, the easier it is to trigger an alarm.

Parameter		Description
Arming Sched.	Arming Sched.	<p>Used to set an arming schedule. By default, it is 7*24 hours. Set arming schedule:</p> <ul style="list-style-type: none"> <li>◆ When there is an arming schedule in the timetable, click any arming schedule and set it in the pop-up window. Or put the mouse on the far left or the last side of the arming schedule area, and then hold down the left mouse button to drag.</li> <li>◆ When the arming schedule is not set in the timetable. In the timetable, hold down the left mouse button to draw the arming schedule, and release the mouse after the arming schedule is drawn.</li> </ul> <p>Note The orange area means arming schedule, and the gray area means not arming schedule.</p>
	Clear All	Used to clear the current arming schedule.
Linkage Action	Common Linkage	Specifies the ordinary alarm method of the camera after an alarm is triggered.

## 5.4 Network Configuration

### 5.4.1 TCP/IP Settings

You can view and modify the parameters of the LAN port when the camera is connected to the network through wired.

The screenshot displays the TCP/IP configuration page. The left sidebar lists various settings categories. The main content area is titled 'TCP/IP' and contains two tabs: 'TCP/IP' and 'Port'. The 'TCP/IP' tab is active, showing configuration options for the network adapter and DNS. The 'Set to Default Net Adapter' checkbox is checked. The 'Mode' section has 'Static' selected. The 'Get DNS Automatically' checkbox is also checked. The configuration fields include Net Adapter (eth0), IP Version (IPv4), IP Address (10.10.50.242), Subnet Mask (255.255.255.0), Gateway (10.10.50.254), Mac Address (34:c1:03:0b:00:90), and MTU (1500). The DNS section includes Preferred DNS (114.114.114.114) and Secondary DNS (223.5.5.5). Buttons for 'Save', 'Refresh', and 'Default' are located at the bottom of the configuration area.

#### Parameter description

Parameter	Description
Static Mode	Used to manually set the IP address and other information of the camera. After ticked it, you can manually specify the IP address, subnet mask, default gateway, and DNS server of the camera.
DHCP Mode	Specifies whether to enable the function of the camera automatically to obtain an IP address from an upstream device. After the DHCP is ticked, the camera can automatically obtain its IP address, subnet mask, default gateway and DNS server from the DHCP server in the network.

Parameter	Description
IP Address	<p>Specifies the IP address of the camera is also the management IP address of the camera.</p> <p>Users on the same LAN as the camera can use this IP address to log in to the web UI of the camera. To connect the camera to the internet, the IP address must be set in the same network segment as the IP address of the LAN port of the router.</p>
Subnet Mask	Specifies the subnet mask of the camera.
Default Gateway	<p>Specifies the default gateway of the camera.</p> <p>To connect the camera to the internet, the IP address of the camera must be set in the default gateway of the LAN IP address of the router.</p>
Auto Obtain DNS	<p>Specifies whether to enable the function of the camera automatically obtaining DNS from an upstream device.</p> <p>After it is enabled, the camera can automatically obtain its DNS from the DHCP server in the network.</p> <p>Note</p> <p>If the <b>Auto Obtain DNS</b> is disabled, you need to manually configure primary DNS and secondary DNS for camera.</p>
MTU	Specifies the largest data packet transmitted by the camera, that is, the maximum transmission unit.
MAC Address	Specifies the LAN MAC address of the camera.

## 5.4.2 Port Configuration

The port number indicates different network services. You can view or modify each service port number here.

The screenshot shows a web interface for configuring TCP/IP ports. At the top, there are two tabs: 'TCP/IP' and 'Port', with 'Port' selected. Below the tabs, there are three input fields with labels and default values in brackets: 'HTTP Port' with default [1025-65535, 80], 'HTTPS port' with default [1025-65535, 443], and 'Server Port' with default [1025-65535]. At the bottom, there are three buttons: 'Save', 'Refresh', and 'Default'.

### Parameter description

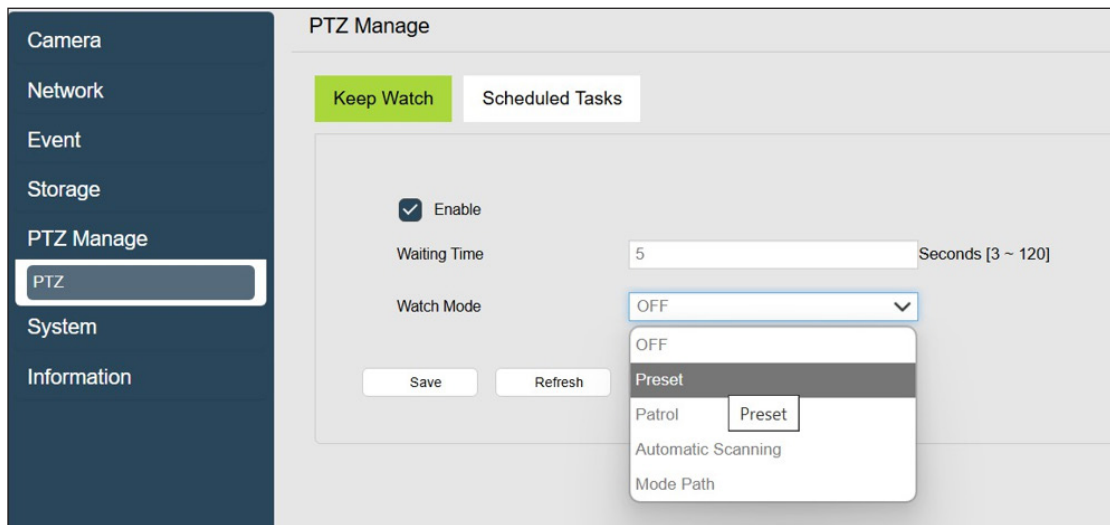
Parameter	Description
HTTPS Port	Specifies the port of the HTTPS protocol. You are recommended to keep the default settings. After the HTTPS port number is modified, when you log in to the web UI of the camera, you can manually enter this port number behind the IP address of the camera. The access format is HTTPS://camera IP address: HTTPS port.
Service Port	Specifies the port number for the protocol. The default settings are recommended. When the camera is added to the NVR through the protocol, this port number is required.

# 6 PTZ

## 6.1 Keep Watch

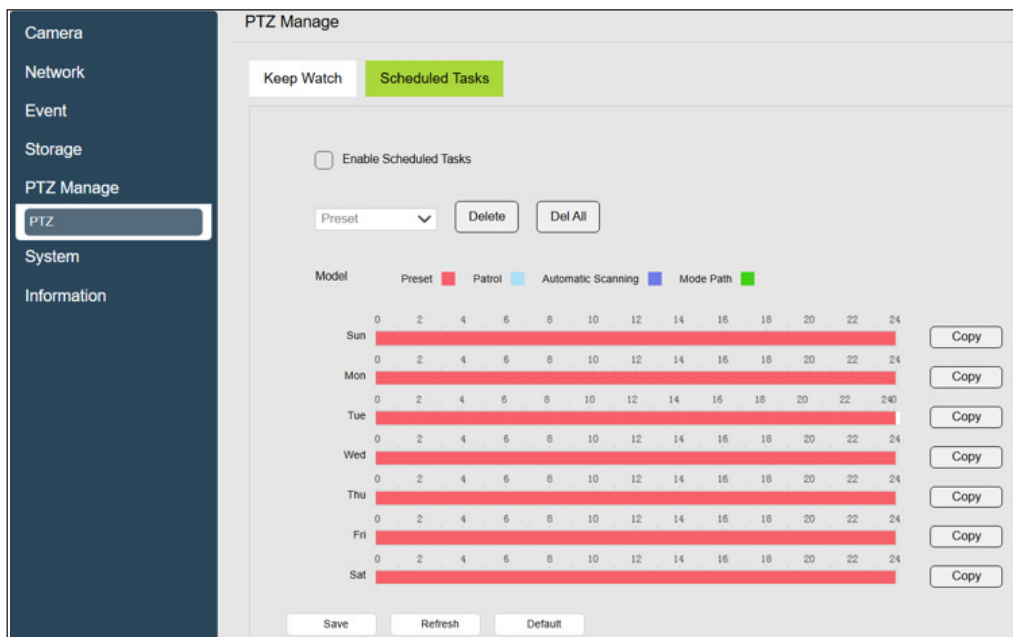
This function is disabled by default. While disabled, PTZ manage is in Preset Mode.

When the Keep Watch function is enabled, you can select Patrol, Automatic Scanning, Mode Path, as well as Preset. Each mode can be configured to have a Watching Mode Number for tracking purposes.



## 6.2 Scheduled Tasks

You can configure model Schedule to Keep Watch depending on the mode type.



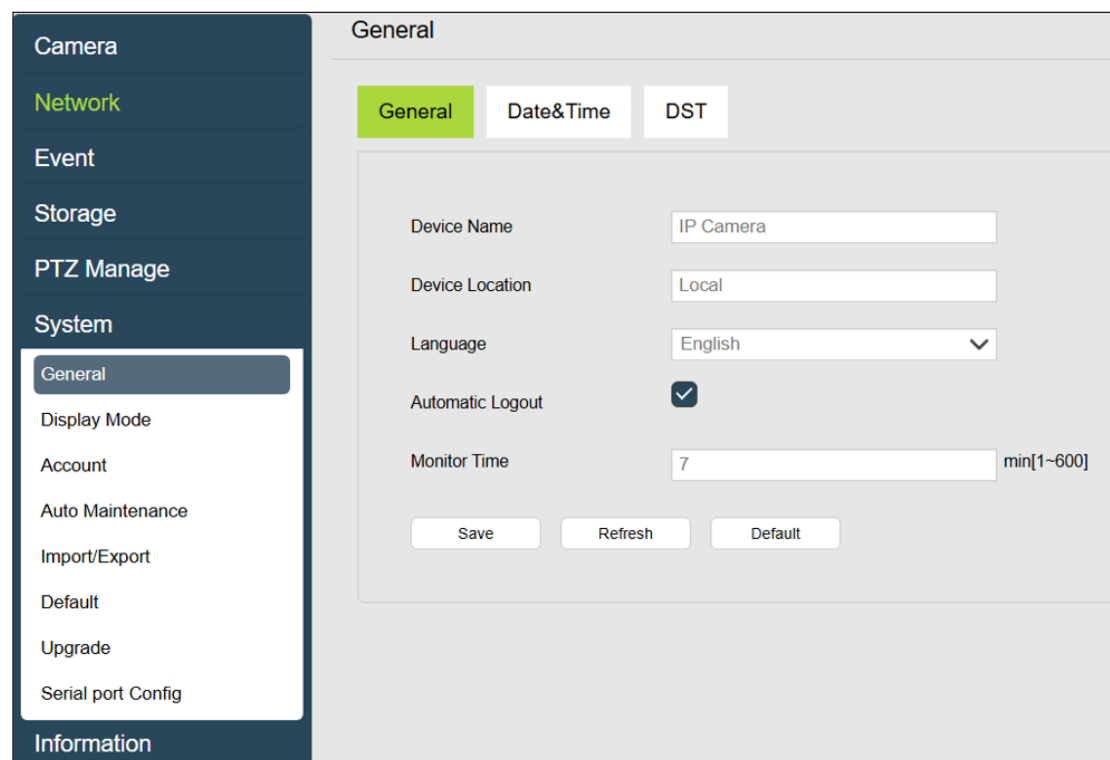
# 7 System

## 7.1 General

This section introduces system configurations, including general, date & time, account, safety, PTZ settings, default, import/export, remote, auto maintain and upgrade.

### 7.1.1 General

You can configure device name and video standard.



The screenshot shows a web interface for configuring a camera system. On the left is a dark blue sidebar with a menu containing: Camera, Network, Event, Storage, PTZ Manage, System, General (highlighted), Display Mode, Account, Auto Maintenance, Import/Export, Default, Upgrade, Serial port Config, and Information. The main content area is titled 'General' and has three tabs: 'General' (active), 'Date&Time', and 'DST'. The 'General' tab contains the following settings:

- Device Name: IP Camera
- Device Location: Local
- Language: English (dropdown menu)
- Automatic Logout:
- Monitor Time: 7 (with a note 'min[1~600]')

At the bottom of the configuration area are three buttons: 'Save', 'Refresh', and 'Default'.

**Step 1** Configure general parameters.

**Step 2** Click **Save**.

## 7.1.2 Date & Time

You can configure date and time format, time zone, current time, DST (Daylight Saving Time) or NTP server.

### Procedure

**Step 1** Select **Setting > System > General > Date & Time**.

The screenshot shows the 'Date & Time' configuration page. It has three tabs: 'General', 'Date&Time' (active), and 'DST'. The configuration options are as follows:

- Date format:** XX-XX-XXXX(Month-Day-Year)
- Time format:** 24-Hours
- Time Zone:** UTC+08:00 Beijing, Hong Kong, ...
- System Time:** 2024 - 06 - 15 8 : 26 : 07. A 'Time Sync' button is next to it.
- NTP:** Unchecked checkbox.
- Sync Type:** Custom
- Server IP:** time.windows.com
- Port:** 123 (range 1-65535)
- Interval:** 1440 Min

Buttons at the bottom: Save, Refresh, Default.

**Step 2** Configure date and time parameters.

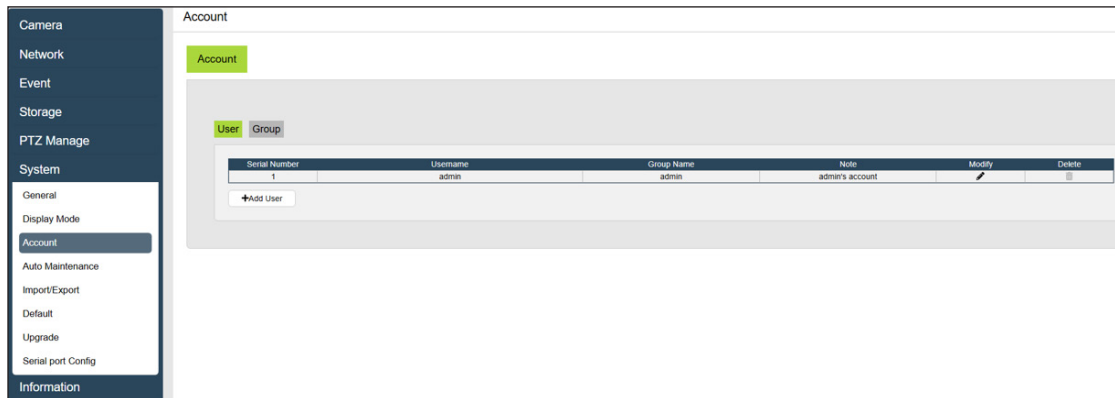
Parameter	Description
Date Format	Configure the date format.
Time	<ul style="list-style-type: none"> <li>◆ Manually Setting : Configure the parameters manually.</li> <li>◆ NTP : When selecting NTP, the system then syncs time with the internet server in real time. You can also enter the IP address, time zone, port, and interval of a PC which installed NTP server to use NTP.</li> </ul>
Time Format	Configure the time format. You can select from 12-Hour or 24- Hour.
Time Zone	Configure the time zone that the camera is at.
Current Time	Configure system time. Click Sync PC, and the system time changes to the PC time.
DST	Enable DST as needed. Click <input type="checkbox"/> , and configure start time and end time of DST with Date or Week.

**Step 3** Click **Save**.

## 7.2 Account

You can manage users, such as add, delete, or edit them. Users include admin, added users and ONVIF users.

Managing users and groups are only available for administrator users.



The max length of the user or group name is 31 characters which consists of number, letter, underline, dash, dot and @.

The password must consist of 8 to 32 non-blank characters and contain at least two types of characters among upper case, lower case, number, and special character (excluding ' " ; : &).

You can have 18 users and 8 groups at most.

You can manage users through a single user or group. Duplicate usernames or group names are not allowed. A user can only be in one group at a time, and the group users can own authorities within group authority range.

Online users cannot edit their own authority.

There is one admin by default which has highest authority.

## 7.3 Auto Maintenance

The reboot can prevent performance decrease and instability of the camera due to long-time running. You can reboot the camera or set the camera to automatically reboot periodically during idle time.

---

### Note

To ensure that the camera works properly, you are recommended to set the camera to reboot in idle time.

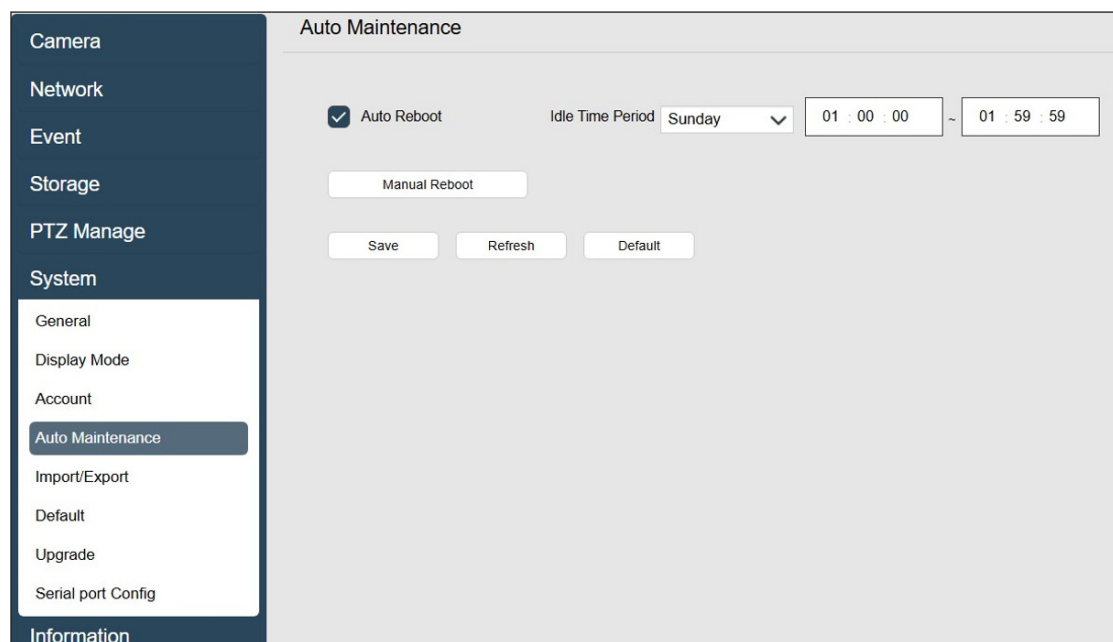
---

Assume that you want to automatically reboot the camera at 3:00:00 from Monday to Friday.

### Procedure:

**Step 1** Log in to the web UI of the camera.

**Step 2** Navigate to **Setting > System > Auto Maintenance**.



The screenshot shows the 'Auto Maintenance' configuration page in a web UI. On the left is a dark blue sidebar menu with categories: Camera, Network, Event, Storage, PTZ Manage, System, and Information. Under the 'System' category, 'Auto Maintenance' is selected and highlighted. The main content area is titled 'Auto Maintenance' and contains the following elements: a checked checkbox for 'Auto Reboot', an 'Idle Time Period' dropdown menu set to 'Sunday', and two time input fields showing '01 : 00 : 00' and '01 : 59 : 59'. Below these are three buttons: 'Manual Reboot', 'Save', 'Refresh', and 'Default'.

**Step 3** Enable the **Auto Reboot**.

**Step 4** Select the reboot date.

**Step 5** Set the reboot time.

**Step 6** Click **Save**.

After setting completes, the camera will automatically reboot at the set time.

## 7.4 Default

If the camera is running slowly, or a configuration error occurs, you can try to restore the camera.

**Restore default settings:** Except for the Network Configuration and user management configuration, all other settings are restored to factory settings.

**Restore factory settings:** Restore all settings of the camera to the factory settings.

---

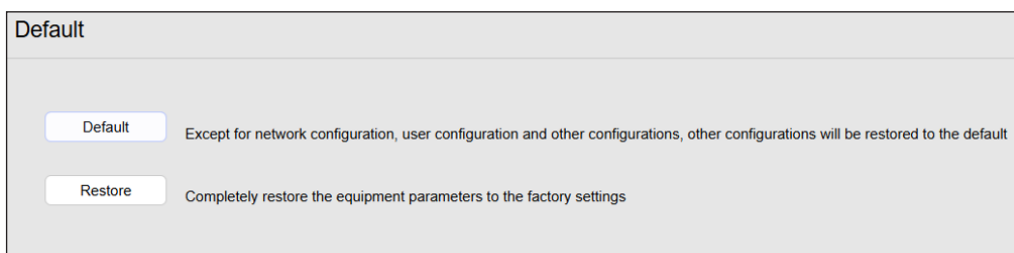
### Note

- When the camera restores its settings, it will disconnect all current connections.
  - To avoid damaging the camera, ensure that the camera is powered on properly during the process of restoring the factory settings.
  - After restoring the factory settings, all the settings of the camera will be restored to the factory status, and you need to re-configure. Before restoring factory settings, you are recommended to back up the configuration first.
- 

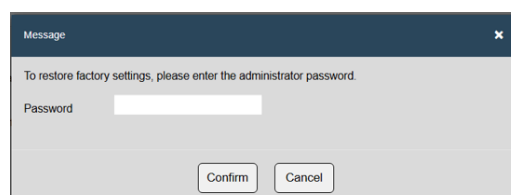
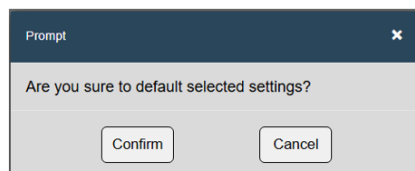
### Procedure:

**Step 1** Navigate to **Setting > System > Default**.

**Step 2** Click **Restore Default Settings** or **Restore Factory Settings** as required.



**Step 3** Confirm the prompt message, and click **Confirm**.



Wait until the progress bar completes. If the camera is reset, refer to the quick installation guide of the corresponding model camera to re-configure the network.

## 7.4.1 Device Upgrade

The firmware upgrade function enables the camera to get new or more stable performance.

---

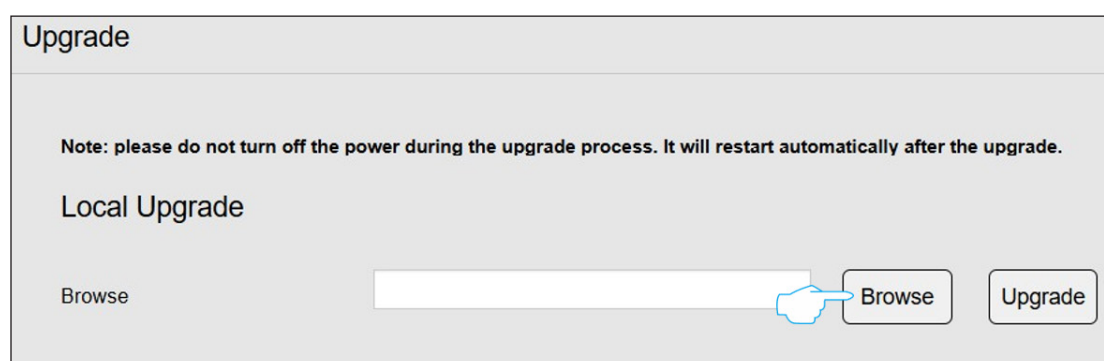
### Note

- To avoid damage to the camera, use the correct upgrade file. Generally, the firmware upgrade file is suffixed with .bin.
  - During upgrading, do not directly cut off the power supply of the camera. Otherwise, it may cause upgrade failure or camera damage.
- 

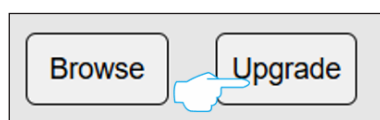
### Procedure:

**Step 1** Log in to the web UI of the camera, and navigate to **Setting > System > Upgrade**.

**Step 2** Click **Browse**, find and select the upgrade file (suffixed with **.bin**).



**Step 3** Click **Upgrade**.



**Step 4** Confirm the prompt message, and click **OK**.

The LED indicator of the camera blinks blue slowly, and the upgrade progress prompt will appear on the page, please wait with patience. After the progress bar is finished, you can log in to the web UI of the camera, check the **Current Version** of the camera on the **Firmware Upgrade** page, and confirm that it is the same as the software version you just upgraded.

# 8 Information

## 8.1 Version

You can view such basic information as hardware version, record channel, serial number, system version and build data.

Version	
Hardware Version	V1.0.0.224
Record Channel	1
Alarm In	2
Alarm Out	1
Serial Number	PC-202004
System Version	V1.0.0.224
Build Date	2025-06-18 10:28
Algorithm Version	1.0.0
PTZ Version	V1.0.0.224

Client	
Web	1.0.0.224
Plugin	1.0.0.224
Net	2.0.0.100(2025/5/16)
Decoder	1.0.1.78(2025/5/29)

## 8.2 Log

You can view and back up logs in this page.

**Step 1** Select **Setting > Information > Log**.

**Step 2** Configure **Start Time** and **End Time**.

**Step 3** Click **Search Log**.

No.	Time	Event	Content
1	2025-06-18 21:48:53	Event stop	channel 1 Smart motion detect SmartMotion Human
2	2025-06-18 21:48:51	Event start	channel 1 Smart motion detect SmartMotion Human
3	2025-06-18 21:45:38	Event stop	channel 1 Smart motion detect SmartMotion Human
4	2025-06-18 21:45:36	Event start	channel 1 Smart motion detect SmartMotion Human
5	2025-06-18 21:44:57	Event stop	channel 1 Smart motion detect SmartMotion Human
6	2025-06-18 21:44:55	Event start	channel 1 Smart motion detect SmartMotion Human
7	2025-06-18 21:44:51	Event stop	channel 1 Smart motion detect SmartMotion Human
8	2025-06-18 21:44:49	Event start	channel 1 Smart motion detect SmartMotion Human
9	2025-06-18 21:44:09	Event stop	channel 1 Smart motion detect SmartMotion Human
10	2025-06-18 21:44:06	Event start	channel 1 Smart motion detect SmartMotion Human
11	2025-06-18 21:41:45	Event stop	channel 1 Smart motion detect SmartMotion Human
12	2025-06-18 21:41:42	Event start	channel 1 Smart motion detect SmartMotion Human
13	2025-06-18 21:32:54	Event stop	channel 1 Smart motion detect SmartMotion Human
14	2025-06-18 21:32:52	Event start	channel 1 Smart motion detect SmartMotion Human
15	2025-06-18 21:31:01	Save config	PTZ cover param
16	2025-06-18 21:30:49	Save config	PTZ cover param
17	2025-06-18 21:30:41	Save config	PTZ cover param
18	2025-06-18 21:30:24	Event stop	channel 1 Smart motion detect SmartMotion Human

**Step 4** Click **Export Log**, and then you can back up all found logs to local PC.

# Appendix

## Acronyms and Abbreviations

Acronym or Abbreviation	Full Spelling
AAC	Advanced Audio Coding
BLC	Back Light Compensation
CCD	Charge-Coupled Device
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name System
DST	Daylight Saving Time
GUI	Graphical User Interface
HLC	Highlight Compensation
HTTP	HyperText Transfer Protocol
IP	Internet Protocol
IPv4	Internet Protocol version 4
ITU-T	International Telecommunication Union
LAN	Local Area Network
MAC	Medium Access Control
MTU	Maximum Transmission Unit
NTP	Network Time Protocol
NTSC	National Television System Committee
NVR	Network Video Recorder
ONVIF	Open Network Video Interface Forum
OSD	On-screen Display
PAL	Phase Alteration Line

<b>Acronym or Abbreviation</b>	<b>Full Spelling</b>
RTSP	Real Time Streaming Protocol
SSH	Secure Shell
SSL	Secure Sockets Layer
TCP	Transmission Control Protocol
UDP	User Datagram Protocol
URL	Uniform Resource Locator
UTC	Universal Time Coordinated
UUID	Universally Unique Identifier
VBR	Variable Bit Rate
WDR	Wide Dynamic Range

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