



User Manual

IP Camera

BCB-P01 / BCD-P01

About This Document

Symbol Conventions

The following symbols are used in this document to indicate important safety information and tips:

Symbol	Description
 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	Highlights important information, best practices, or useful tips not related to personal injury, equipment damage, or environmental concerns.

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1 Quick Overview

1.1 Login and Logout



Use a supported browser such as Microsoft Edge or Chrome to access the web interface. Other browsers may result in limited functionality.

Activation

Step 1 Open browser.

Step 2 Enter the IP address of the IP camera in the IP address bar (default: `https://192.168.0.20`) and press **Enter**.

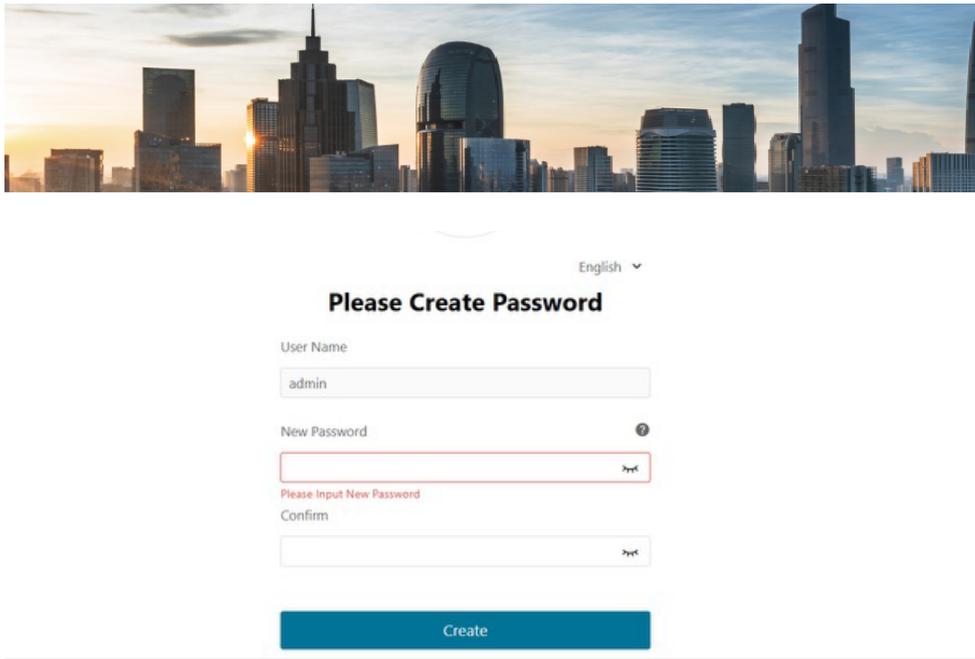
Step 3 On first login: You will be prompted to create a password. After setting the password, you will be directed to the login page.

Note: DHCP is enabled by default. If there is no DHCP server at the local network, IP camera default IP address is `192.168.0.20`

Important: After changing the password, wait at least 3 minutes before powering off the device to ensure the change is saved. Alternatively, log in again with the new password to verify.

- You can change the system language on the login page.
- Click **Login** to access the homepage.

Figure 1-1 Create password



English ▾

Please Create Password

User Name

New Password 👁

Please Input New Password

Confirm

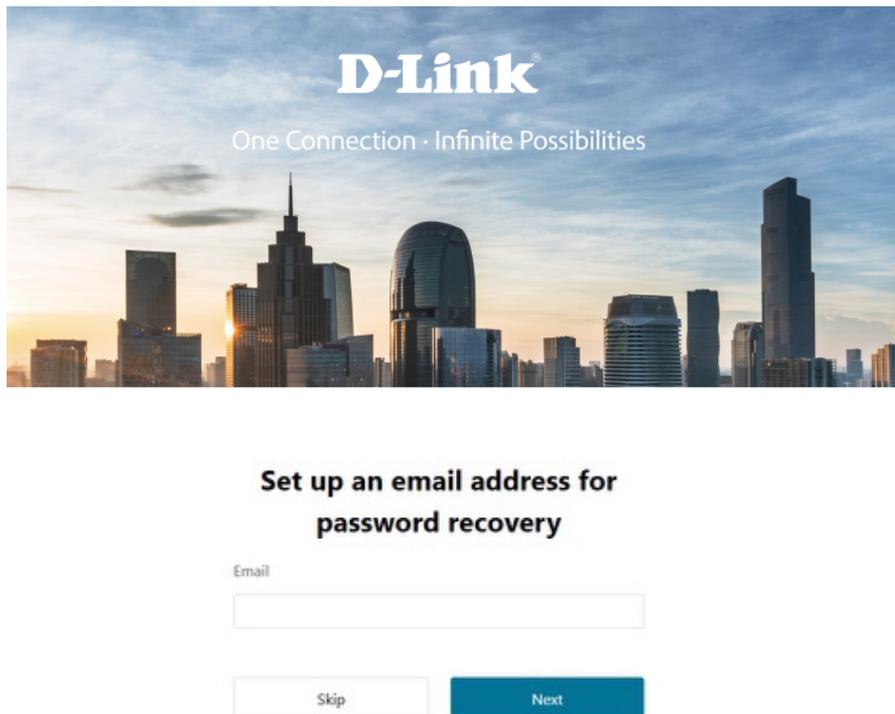
Create

Step 1 Enter your username and password to access the system, as shown.

- Default username: admin
- Password must be created during initial login.

Step 2 Set an email address for password recover, set the questions for recovery. If you don't want to set these, you can skip them.

Figure 1-2 password recovery



D-Link[®]

One Connection · Infinite Possibilities

Set up an email address for password recovery

Email

Skip Next



Set Question for Recover Password

When you were young, what did you want to be whe... ▾

Who was your childhood hero? ▾

1.2 Forget Password

Input the **admin** user name to show the “**Forget password**”. If you forget the password, click this button to jump to the “Forget password” page.

Figure 1-3 Login page



English ▾

admin

⋆⋆ ⋆⋆

[Forgot Password?](#)

There are two methods available for recovering the password. For Question, the user should set them first during the activation of the camera.

Method 1: **Question** Answer the security questions correctly to enter the “New Password” page.



Forgot Password

Question QR Code

When you were young, when did you want to be when you grew up?

Who was your childhood hero?

What is your dream holiday destination?

Back OK



Please Input New Password

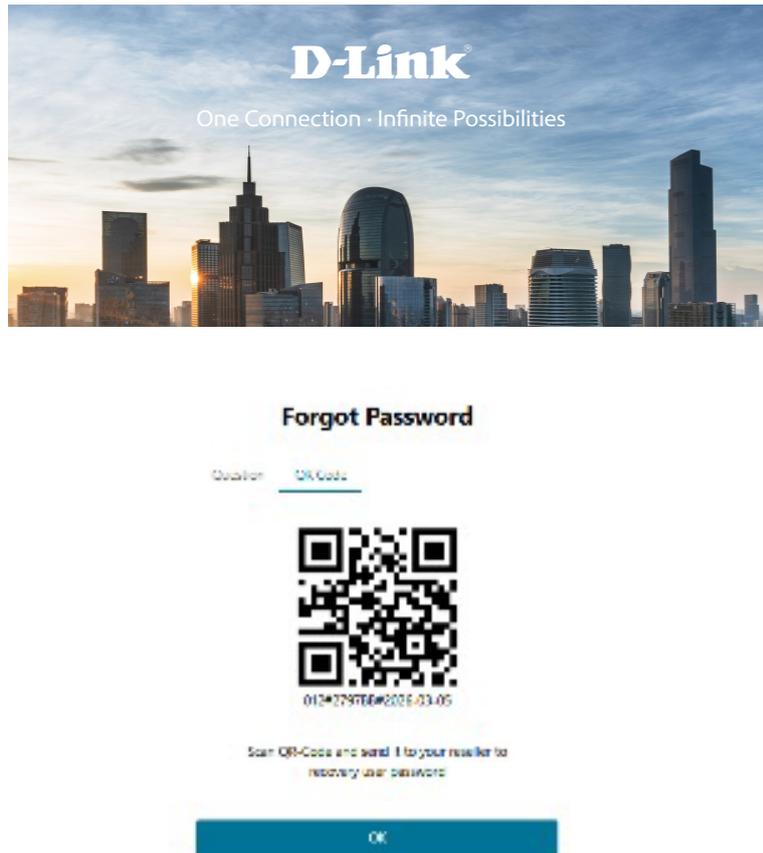
New Password

Confirm

OK

Method 2: **QR Code** If the user did not set the recovery email and question, the user can scan the QR Code on the login page and send it to the reseller. We will provide a temporary password that will be valid until 11:59:59PM. Use the temporary or new password to log in and then create a new one.

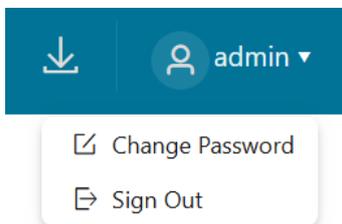
Figure 1-4 QR Code



 **NOTE**

Important: After updating the password, wait at least 3 minutes before powering off the device to ensure the changes are saved. Alternatively, log in with the new password to verify.

Sign out



Click **Sign Out** in the upper right corner to return to login screen.

1.3 Change Password

Description

To change your password:

- Click your **username** in the upper right corner and select **Change Password**.

- Or go to **Setting > System > Change Password**.

Figure 1-5 Change the default password page

The screenshot shows the D-Link web interface for changing the password. The top navigation bar includes 'D-Link', 'Live View', 'Playback', 'IVS', and 'Setting'. The left sidebar lists various system settings, with 'Change Password' highlighted. The main content area features three tabs: 'Change Password', 'Bind email', and 'Binding Authentication Issue'. The 'Change Password' tab is active, displaying three input fields for 'Old Password', 'New Password', and 'Confirm Password'. Below these fields, a 'Password Recommendation' section provides guidelines: 'At least 8 characters', 'Use numbers, lower case letters, upper case letters and special characters', 'Don't use password that is the same as the username or username backwards', and 'The first character cannot be a special character'. An 'OK' button is located at the bottom of the form.

Procedure

Step 1 Enter the **old password**, **new password**, and **confirm** the new password.

Step 2 Click **OK**.

- A message like "Change your password success!" confirms the change.
- If the password change fails, a tip or error will be displayed (e.g., "Password must be at least 8 characters").
- The password must not be relatable in an obvious manner to public information such as login account, MAC address or serial number.
- The password must be greater or equal 8 characters and must contain uppercase or lowercase letters and numbers. Optional regular symbols.

Step 3 It is recommended to wait three minutes before restarting the device after changing the password.

Step 4 Click **OK** to return to the login page.

1.4 Homepage Layout

The homepage allows you to:

- View real-time video
- Monitor alarms and faults
- Configure system settings
- Change your password
- Log out of the system

Refer to **Figure 1-6** for the layout and **Table 1-1** for descriptions.

Figure 1-6 Homepage layout

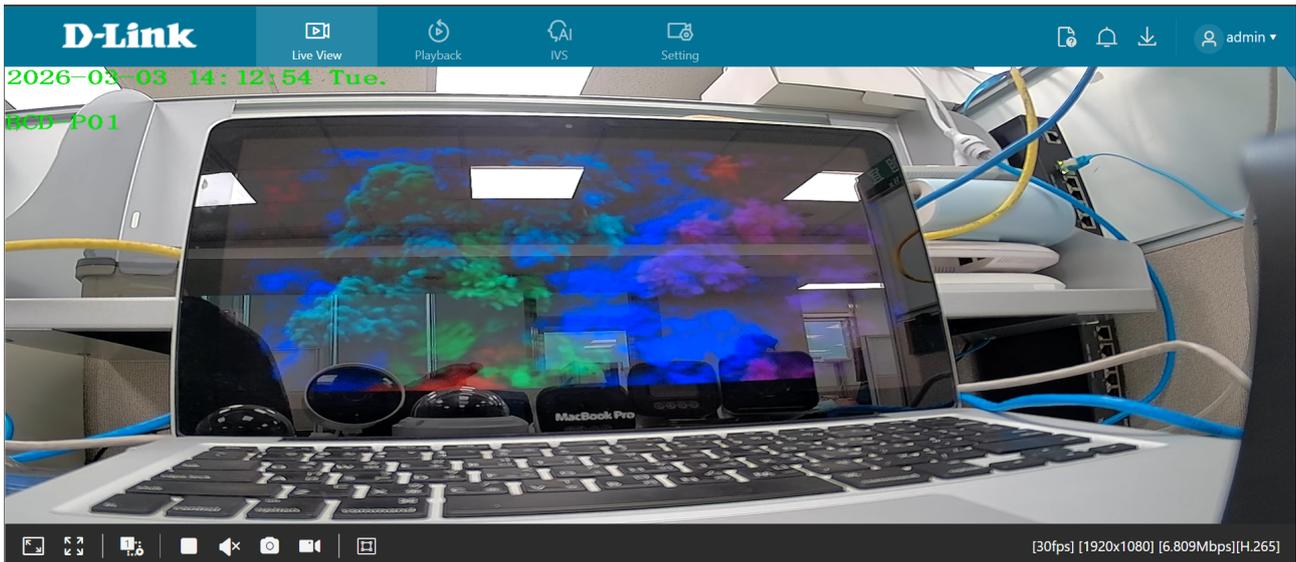
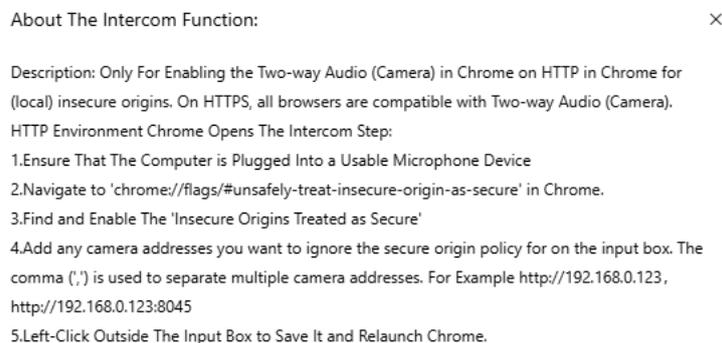


Table 1-1 Elements on the homepage

No.	Element	Description
1	Live View	Displays real-time video streams.
2	Playback	Access recorded videos (requires SD card or NAS with recordings).
3	IVS setting	Configure AI multi-target features and intelligent analysis (e.g., intrusion, smart motion, single line crossing, double line crossing, multi-loitering, Wrong-Way, people counting).
4	Setting	Set parameters for Quick Start, System, Network, Audio/Video, Image, Event, and Storage.
5		About the intercom function.
6		Click  to view alarm alerts.
7		Displays SD card video backup and download progress.
8	 admin ▾	Sign out, change password, view current user.
9		Window scale, Adjust display scale for live video.
10		View live video in full-screen mode.
11		Switch between available stream modes (up to 3 depending on model).
12		Pause/Start or Stop live video playback.

No.	Element	Description
13		Enable or disable audio output.
14		Click the icon to snapshot the video and save the images to the specified location.
15		Record the video and save the file to the specified location.
16		 <p>Target frame: Show detection box around targets. Intelligent marking: Display IVS detection areas during live view.</p>
17		Display resolution, frame rate, bit rate, encoding type.

Figure 1-7 About the intercom function



Note: The following instructions apply **only when using two-way audio (camera) in Chrome over HTTP** (insecure origin).

If using **Chrome on HTTP**, follow these steps to enable the intercom function:

1. Ensure your computer is connected to a **working microphone**.
2. Open Chrome and navigate to:
`chrome://flags/#unsafely-treat-insecure-origin-as-secure`
3. Enable the flag: **“Insecure origins treated as secure.”**
4. In the input box that appears, enter the IP addresses of the cameras you want to allow, separated by commas.
 - o Example:
`http://192.168.0.123, http://192.168.1.250:8045`
5. Click outside the input box to save your changes.
6. **Relaunch Chrome** for the changes to take effect.

1.5 Playback

To review recorded footage:

1. Click **Playback** on the web interface.
2. If an SD card is installed and enabled, recordings will be available.

Refer to **Figure 1-8** for layout and controls.

Figure 1-8 Playback page

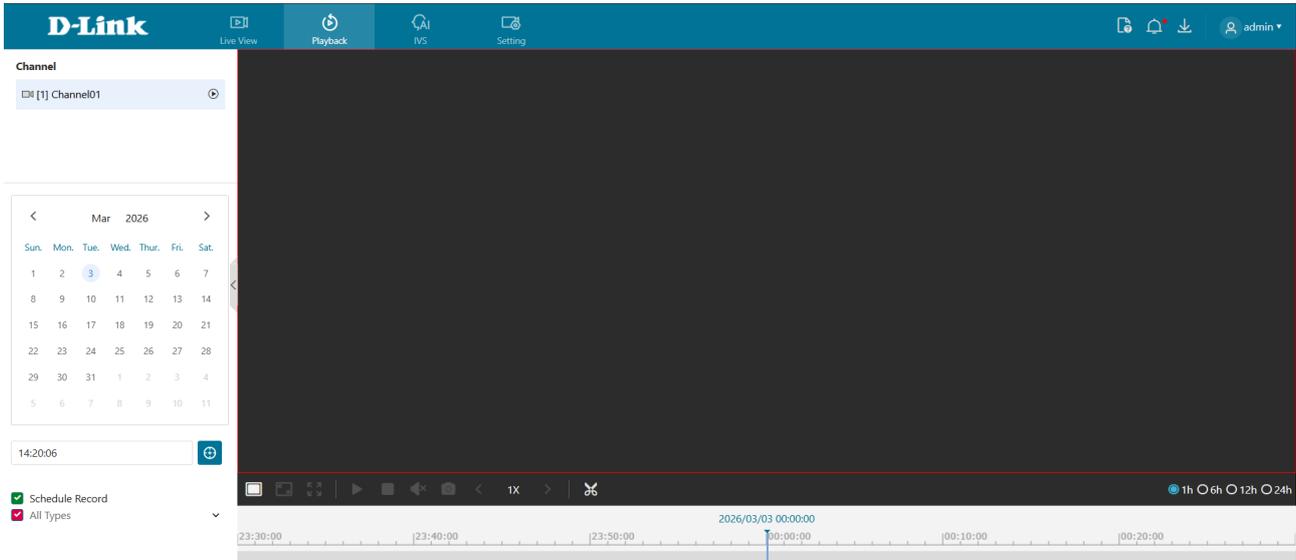
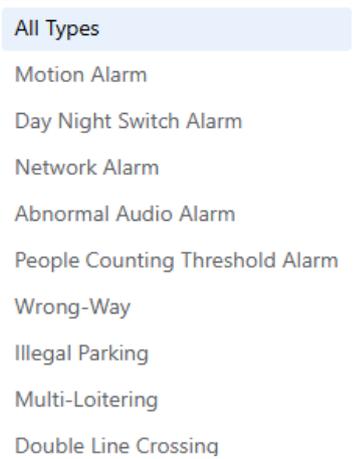


Table 1-2 Playback function

No.	Element	Description
1	Channel	Displays available video channels.
2	Calendar	 Green dots indicate recorded days.
3	<input checked="" type="checkbox"/> Schedule Record <input checked="" type="checkbox"/> All Types	 <p>The green timeline represents scheduled recording and the red timeline represents alarm recording. The types of alarm recording varies according to model performance.</p>
4		Play one channel's recording.
5		Play two channels' recording.
6		Play four channels' recording.

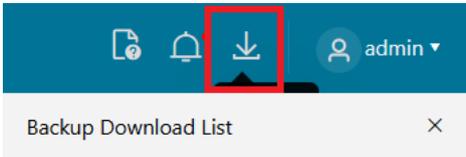
7		Adjust playback scale.
8		View recording in full-screen mode.
9		Pause or resume playback.
10		Enable or disable audio playback.
11		Capture screenshots from the recording and save the images to a specified location.
12		Fast Forward, 1/16X, 1/8 X, 1/4 X, 1/2 X, 1 X, 2 X, 4 X, 8 X
13		Click to begin video backup; select the duration; click again to stop. A dialog will prompt you to save or cancel. The pop-up window of tip as shown in Figure 1-9, click the save to save the video. Click Cancel to abandon.  Click the backup list to show the detail information.
14		Time view options: 1h, 6h, 12h, 24h.

Figure 1-9 Record backup tip

Tip

Begin Time

End Time

1.6 IVS Setting

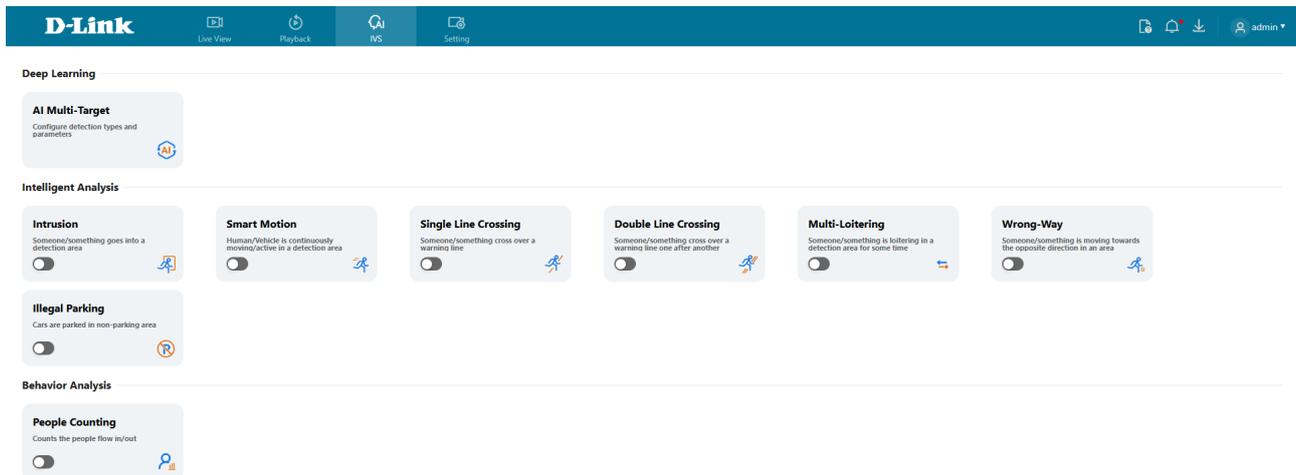
Click **IVS** to access the IVS configuration page. You can configure:

- Deep learning settings
- Intelligent video analytics

- Behavior analysis features

Refer to Figure 1-10 for the IVS setting layout. For know more detail setting information, please refer to Chapter 9.

Figure 1-10 IVS setting page



NOTE

The IVS features vary by device model. Refer to the product specification for supported functionality.

2 Setting

2.1 Local Network

Description

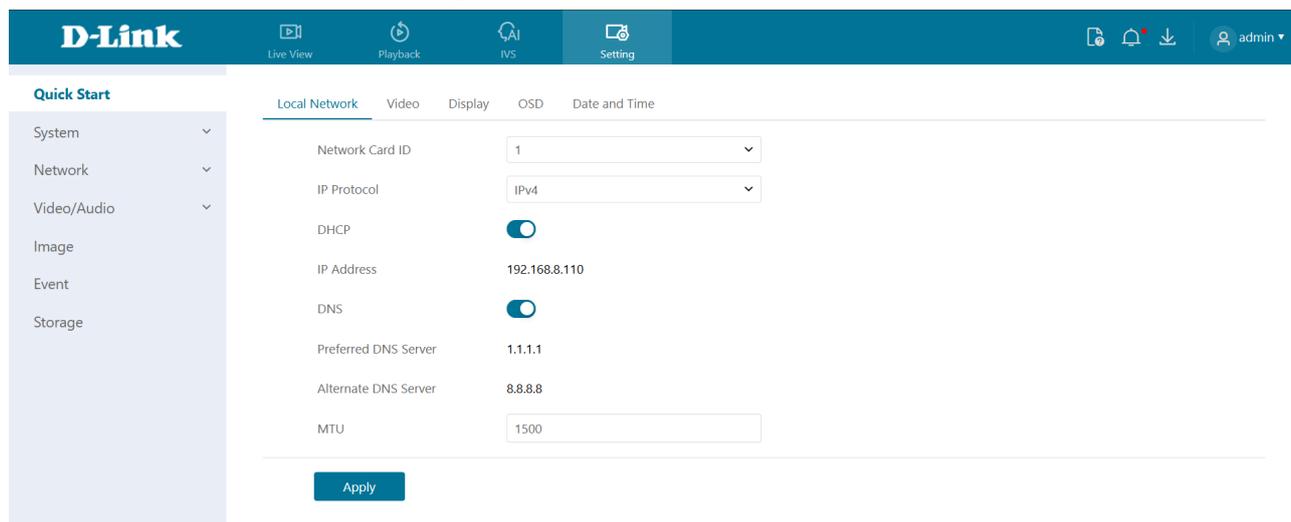
The local network settings include the following parameters:

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

Procedure

1. Navigate to **Setting > Quick Start > Local Network**. The **Local Network** page is displayed (see Figure 2-1).
2. Configure the parameters, as shown in Figure 2-1.

Figure 2-1 Local network page



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

Table 2-1 Local network parameters

Parameter	Description	Setting
Network Card ID	--	[Default value] 1
IP Protocol	IPv4 is the IP protocol that uses an address length of 32 bits. IPv6 is the IP protocol that uses an address length of 64 bits.	[Setting method] Select a value from the drop-down list box. [Default value] IPv4
DHCP	Enable DHCP, and the device will automatically obtain the IP address from the DHCP server.	[Setting method] Click the button on to enable DHCP .
IP Address	Device IP address that can be set as required.	[Setting method] Enter a value manually. [Default value] 192.168.0.20
Subnet Mask	DHCP is off. Subnet mask of the network adapter.	[Setting method] Enter a value manually. [Default value] 255.255.255.0
Default Gateway	DHCP is off. 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

Parameter	Description	Setting
Preferred DNS Server	DNS is on. IP address of a DNS server.	[Setting method] Enter a value manually. [Default value] 192.168.0.1
Alternate DNS Server	DNS is on. IP address of a domain server. If the preferred DNS server is faulty, the device uses the alternate DNS server to resolve domain names.	[Setting method] Enter a value manually. [Default value] 192.168.0.2
MTU	Set the maximum value of network transmission data packets.	[Setting method] Enter a value manually. NOTE The MTU value is range from 1280 to 1500, the default value is 1500, Please do not change it arbitrarily.

Step 3 Click **Apply**.

- If the message "**Apply success!**" appears, the system saves the configuration and displays:
"Set network parameter success, please login system again."
Reconnect using the new IP address.
- If the message "**Parameter is invalid**" appears, please verify and correct the settings.

2.2 Video

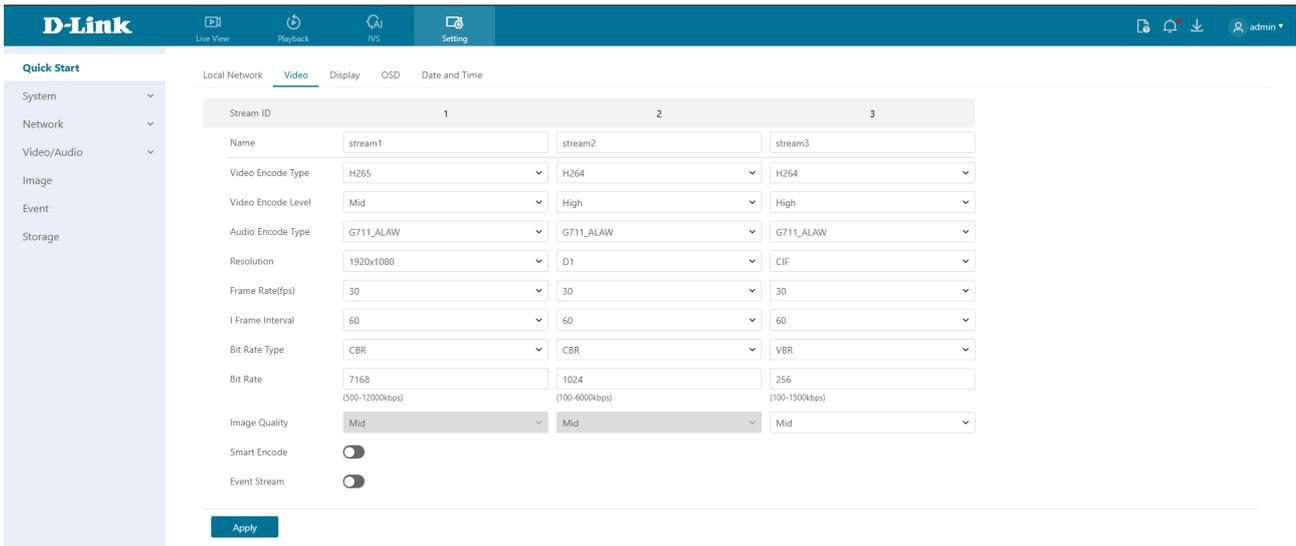
Procedure

Step 1 Go to **Setting > Quick Start > Video**.

The **Video** settings page appears (see Figure 2-2).

Step 2 Configure the parameters according to **Table 2-2**.

Figure 2-2 Video setting page



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

Table 2-2 Parameters of stream configuration

Parameter	Description	Setting
Stream ID	<p>The device supports up to three video streams, depending on the model:</p> <ul style="list-style-type: none"> Stream 1 provides the highest video quality and performance. It is typically used for primary viewing and recording. Stream 2 offers lower resolution options, suitable for bandwidth-limited scenarios or secondary viewing. Stream 3 delivers the lowest resolution and is ideal for preview purposes or mobile access. <p>Note: Some models support only two streams.</p>	<p>[Setting method]</p> <p>Select a value from the drop-down list box.</p>
Name	<p>Stream name.</p> <p>NOTE</p> <p>The stream name must consist of letters, numbers, and underscores. Only these characters are supported.</p>	<p>[Setting method]</p> <p>Enter a value manually. The value cannot exceed 32 bytes.</p> <p>[Default value]</p> <p>Stream 1</p>

Parameter	Description	Setting
Video Encode Type	<p>The video encoding type affects both image quality and the bandwidth required for streaming. The following encoding standards are supported:</p> <ul style="list-style-type: none"> MJPEG MJPEG (Motion JPEG) is an intra-frame compression format. It delivers high image quality without mosaic artifacts during motion. However, it does not support inter-frame compression, resulting in larger file sizes. MJPEG consumes significant storage and bandwidth, making it unsuitable for continuous recording or long-duration video transmission. It is best suited for capturing and transmitting alarm snapshots. H.264 H.264 is a widely-used inter-frame compression standard H.265 H.265 is the next-generation video compression standard, improving upon H.264 with enhanced compression efficiency, better image quality, and more sophisticated algorithms. It significantly reduces bandwidth and storage usage while maintaining high visual fidelity, making it ideal for high-resolution and long-duration recording scenarios. 	<p>[Setting method] Select a value from the drop-down list box. [Default value] H.264 Using MJPEG in Stream 1 may result in playback issues or FTP video upload errors.</p>
Audio Encode Type	<p>The following audio encode standards are supported:</p> <ul style="list-style-type: none"> <input type="checkbox"/> G711_ULAW: mainly used in North America and Japan. <input type="checkbox"/> G711_ALAW: mainly used in Europe and other areas. <input type="checkbox"/> RAW_PCM: encode of the original audio data. This encode is often used for platform data. 	<p>[Setting method] Select a value from the drop-down list box.</p>
Resolution	<p>A higher resolution means better image quality. NOTE IP cameras support different resolutions based on the model.</p>	<p>[Setting method] Select a value from the drop-down list box.</p>

Parameter	Description	Setting
Frame Rate(fps)	<p>Frame rate is the number of images, snapshots, or frames that a camera can take per second. The frames per second determine the smoothness of a video. A video whose frame rate is higher than 22.5 f/s is considered as smooth by human eyes.</p> <p>Frame rates for different frequencies are as follows:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 50 Hz: 1–25 fps <input type="checkbox"/> 60 Hz: 1–30 fps <p>NOTE</p> <p>The frequency is set on the Setting > Image > Video Standard page. The biggest MJPEG coding format frame rate is 12 frames per second.</p>	<p>[Setting method]</p> <p>Select a value from the drop-down list</p>
I Frame Interval(f)	<p>I frame do not require other frames to decode. A smaller I frame interval means better video quality but higher bandwidth.</p>	<p>[Setting method]</p> <p>Select a value from the drop-down list</p>
Bit Rate Type	<p>The bit rate is the number of bits transmitted per unit of time.</p> <p>The following bit rate types are supported:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Constant bit rate (CBR) <p>The compression speed is fast; however, improper bit rate may cause vague motion images.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Variable bit rate (VBR) <p>The bit rate changes according to the image complexity. The encoding efficiency is high and the definition of motion images can be ensured.</p>	<p>[Setting method]</p> <p>Select a value from the drop-down list box.</p>
Bit Rate	<p>Indicates the maximal value of the bit rate. the different models may have different ranges, please refer to actual product.</p> <p>The camera will automatically recommend a bit rate based on the selected resolution. If this bitrate does not meet the requirements, it can be manually modified.</p>	<p>[Setting method]</p> <p>Enter a value manually.</p>
Image Quality	<p>The video quality the camera output.</p>	<p>[Setting method]</p> <p>Select a value from the drop-down list box.</p>
Smart Encode	<p>Smart Encode.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Smart encode includes H.264 & H.265. <input type="checkbox"/> The storage space will be reduced fifty percent when smart encode is enabled. <input type="checkbox"/> Only main stream supports smart encode. 	<p>[Setting method]</p> <p>Click the button on to enable Smart Encode.</p>
Event Stream	<p>Enable Event Stream. Set the event frame rate and event bit rate. It can be recording at the frame rate and bitrate set in the event stream, which facilitates recording with higher image quality when an alarm occurs. During normal periods, recording can be done according to the parameters set above.</p>	<p>[Setting method]</p> <p>Click the button on to enable Event Stream.</p>

Step 4 Click **Apply**.

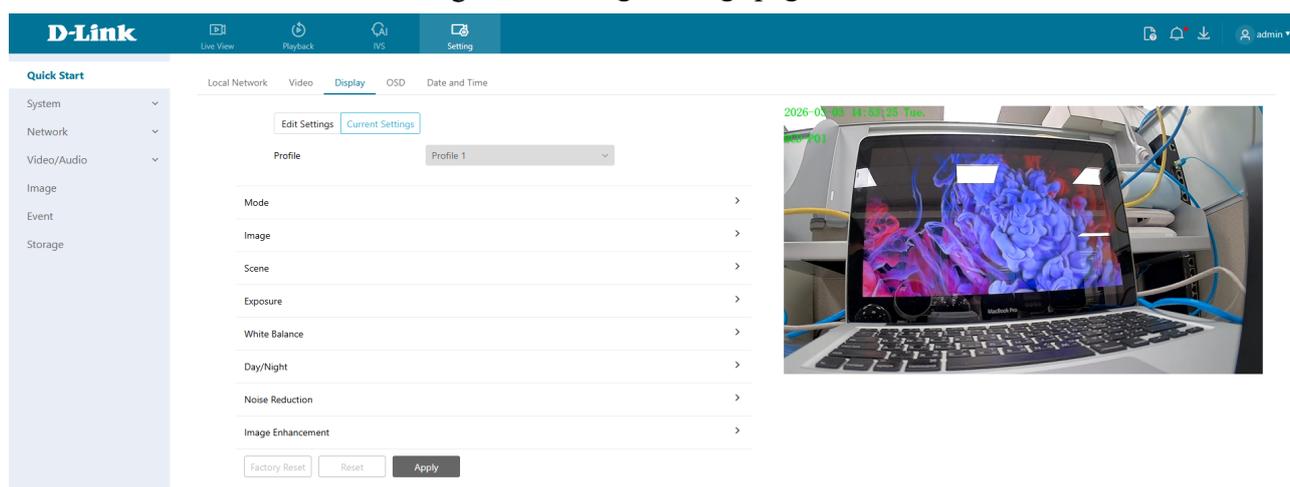
2.3 Display

2.3.1 Access the Display Settings

Procedure:

Step 1 Navigate to **Setting > Quick Start > Display**.
The **Image Settings** page appears.

Figure 2-3 Image settings page



Step 2 Click **Edit Settings** under the **Mode** item to configure display profiles.

NOTE

- All image settings can be modified in **Edit Settings**.
- **Factory Reset** restores all parameters to factory defaults.
- **Reset** reverts settings to the last saved state..

2.3.2 Mode

Procedure:

Step 1 Go to **Setting > Quick Start > Display > Mode**.
The **Mode** page appears, as shown in Figure 2-4.

Figure 2-4 Mode page

Mode

Switch Mode

Start Time :

End Time :

Step 2 Click **Switch Mode**. Three options are available:

- **None**: Uses the current active profile with no switching.
- **Time Mode**: Automatically switches profiles at specific times. Set all four profiles in advance.
- **Day/Night (D/N) Linkage Mode**: Automatically switches between day and night profiles based on lighting.

Step 3 Set the **Start Time** and **End Time** for switching.

Step 4 Click **Apply** to save your settings.

2.3.3 Image Setting

Procedure:

Step 1 Navigate to **Setting > Quick Start > Display > Image**.

The Image Settings page appears as shown in Figure 2-5.

Figure 2-5 Image setting page

Image

Brightness

Saturation

Contrast

Sharpness

Table 2-3 Describes the **image setting** parameters.

Table 2-3 Parameters of image settings parameters

Parameter	Description	Configuration Method
Brightness	Controls image brightness.	[Setting method] Drag the slider. [Default value] 50
Saturation	Controls image color richness.	[Setting method] Drag the slider. [Default value] 50

Parameter	Description	Configuration Method
Sharpness	Controls image clarity.	[Setting method] Drag the slider. [Default value] 50
Contrast	Adjusts contrast between dark and bright areas.	[Setting method] Drag the slider. [Default value] 50

Step 2 Click **Apply** to save your settings.

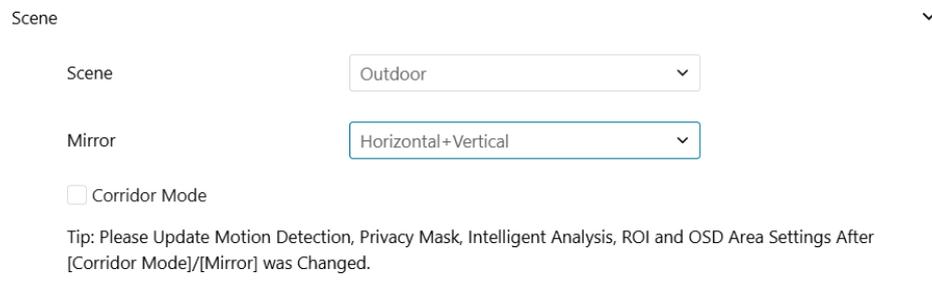
2.3.4 Scene Mode

Procedure:

Step 1 Go to **Setting > Quick Start > Display > Scene**

Step 2 The Scene page appears as shown in Figure 2-6.

Figure 2-6 Scene page



Scene

Scene Outdoor

Mirror Horizontal+Vertical

Corridor Mode

Tip: Please Update Motion Detection, Privacy Mask, Intelligent Analysis, ROI and OSD Area Settings After [Corridor Mode]/[Mirror] was Changed.

Table 2-4 describes the scene parameters.

Table 2-4 Parameters

Parameter	Description	Configuration Method
Scene	It indicates the working mode of camera. <input type="checkbox"/> Outdoor: Suitable for outdoor use. <input type="checkbox"/> Indoor: Suitable for indoor use.	[Configuration method] Select from the drop-down list [Default value] Outdoor
Mirror	It is used to select the pixel location of an image. <input type="checkbox"/> Normal: The image does not flip. <input type="checkbox"/> Horizontal: The image flips to the left and right. <input type="checkbox"/> Vertical: The image flips up and down. <input type="checkbox"/> Horizontal and vertical: The image rotates at 180° degrees.	[Setting method] Select a value from the drop-down list. [Default value] Normal

Parameter	Description	Configuration Method
Corridor Mode	The image rotates 90° degrees clockwise when aisle mode is enabled. On some models, using Stream 2/3 with H.264/H.265 at CIF or QVGA resolution may prevent live view playback.	[Setting method] Tick the corridor mode. [Default value] Disable

Step 3 Click **Apply** to save the setting.

2.3.5 Exposure

Procedure:

Step 1 Navigate to **Setting > Quick Start > Display > Exposure**.

Step 2 Configure the parameters listed in **Table 2-5**.

Figure 2-7 Exposure interface for IP camera

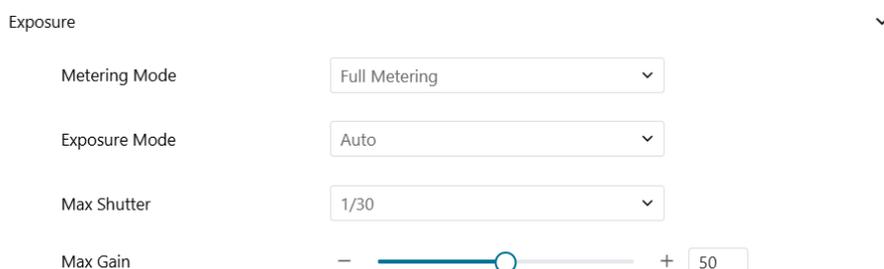


Table 2-5 describes Exposure parameters.

Table 2-5 Parameters of exposure

Parameter	Meaning	Configuration Method
Exposure Mode	<p>The exposure modes include:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Auto: The system performs auto exposure based on the monitoring environment. <input type="checkbox"/> Manual: You can adjust the brightness of an image by setting the following three items: Shutter Setting, Iris Setting and Gain Setting. <input type="checkbox"/> Shutter Priority: You can set Shutter Setting to fixed values. The iris and gain are automatically adjusted by the system. 	<p>[Setting method] Select a value from the drop-down list. [Default value] Auto</p>

Parameter	Meaning	Configuration Method
Meter Mode	<p>It is used to select the metering area.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Fulling Metering: During metering, all areas of an image have equal weight, that is, all areas are involved in the metering. Spot Metering: During metering, the central spot of an image has the highest weight. <input type="checkbox"/> Partial Metering: During metering, the middle area (1/2 of the total area) of an image has the highest weight, and other areas have the lowest weight. 	<p>[Setting method] Select a value from the drop-down list. [Default value] Whole</p>
Max Shutter	<p>The device automatically adjusts the shutter time based on the ambient brightness. The shutter time is less than or equal to the value of this parameter.</p>	<p>[Setting method] Select a value from the drop-down list. [Default value] 1/25</p>
Max Gain	<p>The device automatically adjusts the gain based on the external light. The gain is less than or equal to the value of this parameter.</p>	<p>[Setting method] Drag the slider. [Default value] 50</p>

Step 3 Click **Apply** to save the setting.

2.3.6 White Balance Setting

Procedure:

Step 1 Navigate to **Setting > Quick Start > Display > White Balance**.
The **White Balance** page appears as shown in 2-8

Figure 2-8 White balance settings page

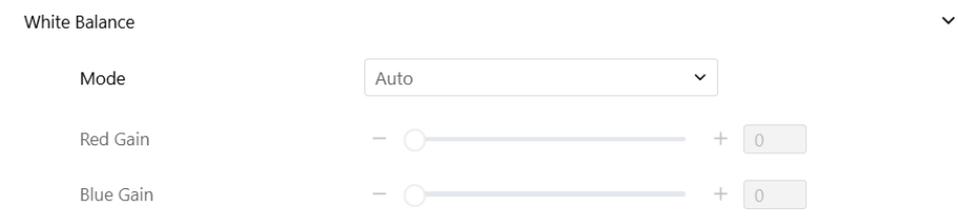


Table 2-6 White Balance (WB) Parameters

Parameter	Meaning	Configuration Method
Mode	<p>Select a white balance mode to improve color accuracy based on lighting conditions:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Auto: The system automatically adjusts based on the environment. <input type="checkbox"/> Tungsten: For incandescent lighting. <input type="checkbox"/> Fluorescent: For fluorescent lighting. <input type="checkbox"/> Daylight: For natural sunlight. <input type="checkbox"/> Shadow: For shaded areas. <input type="checkbox"/> Manual: Manually configure WB mode based on the monitoring environment. 	<p>[Setting method] Select a value from the drop-down list. [Default value] Auto</p>
Red Gain	<p>Adjusts the intensity of red tones. Increasing this value lowers the color temperature.</p> <p> NOTE Available only in Manual Mode with Customized selected.</p>	<p>[Setting method] Drag the slider. [Default value] 0</p>
Blue Gain	<p>Adjust the intensity of blue tones. Increasing this value raises the color temperature (image becomes cooler).</p> <p> NOTE Available only in Manual Mode with Customized selected.</p>	<p>[Setting method] Drag the slider. [Default value] 0</p>

Step 2 Click **Apply** to save the setting.

2.3.7 Day/Night

Procedure:

Step 1 Navigate to **Setting > Quick Start > Display > Day/Night**.

The **Day/Night** settings page appears. Display options may vary by device model (see Figure 2-9, 2-10).

Figure 2-9 Day/Night page (Timer)

Day/Night ▼

Setting	Timer
DTN Time	18 : 00
NTD Time	06 : 00
Illumination	IR LED
IR LED	Auto
Strength	- <input type="range"/> + 50

Figure 2-10 Day/Night mode page (Auto)

Day/Night ▼

Setting	Auto
Delay(S)	- <input type="range"/> + 5
Sensitivity	- <input type="range"/> + 50
Illumination	IR LED
IR LED	Auto
Strength	- <input type="range"/> + 50

Step 2 Configure the parameters listed in **Table 2-7**.

Table 2-7 Parameters of Day/Night

Parameter	Meaning	Configuration Method
D/N Setting Mode	<p>It can be set to Auto, Day, Night or Timer.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Auto mode The image color and filter status automatically switch based on the ambient brightness. The filter keeps infrared light from reaching the sensor during the day; The filter allows all light to reach the sensor at night. <input type="checkbox"/> Day mode Forces the camera to stay in color mode. The IR filter remains active, blocking infrared light from reaching the sensor. <input type="checkbox"/> Night mode Forces the camera to display in black and white. The IR filter is disabled, allowing infrared light to reach the sensor for better night vision. <input type="checkbox"/> Timer Automatically switches between Day and Night modes based on a user-defined schedule. 	<p>[Setting method] Select a value from the drop-down list. [Default value] Auto</p>
Delay(s)	<p>Delay time (in seconds) for switching between Day and Night.</p> <p> NOTE This parameter is valid in auto mode.</p>	<p>[Setting method] Drag the slider. [Default value] 5</p>
D/N Switch Sensitivity	<p>Adjusts the sensitivity of day-to-night switching. A higher value causes the system to switch at lower light levels.</p> <p> NOTE This parameter is valid in auto mode.</p>	<p>[Setting method] Drag the slider. [Default value] 50</p>
Illumination	<p>Select the lighting mode :</p> <p>IR LED</p> <p>None</p>	<p>[Setting method] Select a value from the drop-down list.</p>

Parameter	Meaning	Configuration Method
IR LED	<p>Auto: The infrared lamp is enabled or disabled based on the external environment identified by the light dependent resistor (LDR).</p> <p>ON: The system enters the night mode forcibly.</p> <p>OFF: The infrared lamp is disabled. The filter and image color are switched based on the external environment identified by the LDR.</p> <p> NOTE This parameter is valid in auto mode.</p>	<p>[Setting method] Select a value from the drop-down list. [Default value] Auto</p>
Strength	Controls IR LED brightness. Higher values produce brighter night images.	<p>[Setting method] Drag the slider. [Default value] 50</p>

2.3.8 Noise Reduction

Procedure:

Step 1 Go to **Setting > Quick Start > Display > Noise Reduction**.

Step 2 The Noise Reduction interface will appear (see Figure 2-11, 2-12).

There are two modes available for noise reduction: **Auto** and **Manual**.

- **Auto Mode:** The system automatically adjusts noise reduction levels based on ambient conditions.
- **Manual Mode:** You can set a fixed level of noise reduction.

Figure 2-11 Noise reduction page (Auto)



Figure 2-12 Noise reduction page (Manual)



Table 2-8 describes the Noise Reduction parameters.

Table 2-8 Parameters of noise reduction

Parameter	Meaning	Configuration Method
2D NR	Reduces noise of image.	[Configuration method] Select from the drop-down list [Default value] Auto
3D NR	Reduces noise of image.	[Configuration method] Select from the drop-down list [Default value] Auto
Max Strength	Applicable only in auto noise filter mode. When set to 0 , noise reduction is disabled. When set above 0 , the system automatically adjusts the noise reduction level based on ambient brightness, but will not exceed the configured value.	[Setting method] Drag the slider. [Default value] 50
Fixed Strength	Applicable only in manual noise filter mode.	[Setting method] Drag the slider. [Default value] 50

Step 3 Click **Apply** to save the setting.

2.3.9 Image Enhancement

Procedure:

- Step 1 Go to **Setting > Quick Start > Display > Image Enhancement**.
 Step 2 Adjust the parameters listed in Table 2-9.

Figure 2-13 Image Enhancement page



Table 2-9 Parameters of enhance image

Parameter	Meaning	Configuration Method
WDR	Enhances image quality in scenes with strong lighting contrast between foreground and background. When brightness contrast is high, increasing the WDR level improves visibility in both bright and dark areas.	[Setting method] Tick the WDR mode and drag the slider. [Default value] 50
HLC	Reduces the intensity of overly bright areas to improve visibility of objects in front of light sources (e.g., headlights). Reduces total brightness to enhance clarity of highlighted regions.	[Setting method] Tick the HLC mode and drag the slider. [Default value] 50
BLC	Increases overall brightness to make objects in front of backlit scenes more visible. May cause overexposure of the background.	[Setting method] Tick the BLC mode and drag the slider. [Default value] 50

Parameter	Meaning	Configuration Method
DeFog	<p>Enhances image clarity in foggy or hazy environments.</p> <p>Higher values increase visibility.</p> <p>Note: Available only on some models.</p>	<p>[Setting method]</p> <p>Tick the Defog mode and drag the slider.</p> <p>[Default value]</p> <p>50</p>

Step 3 Click **Apply** to save the settings.

2.4 OSD

Description

The **On-Screen Display (OSD)** function allows you to overlay information on video streams, including:

- Device name
- Channel ID and name
- Time
- Customized content

You can drag and reposition OSD elements on the screen.

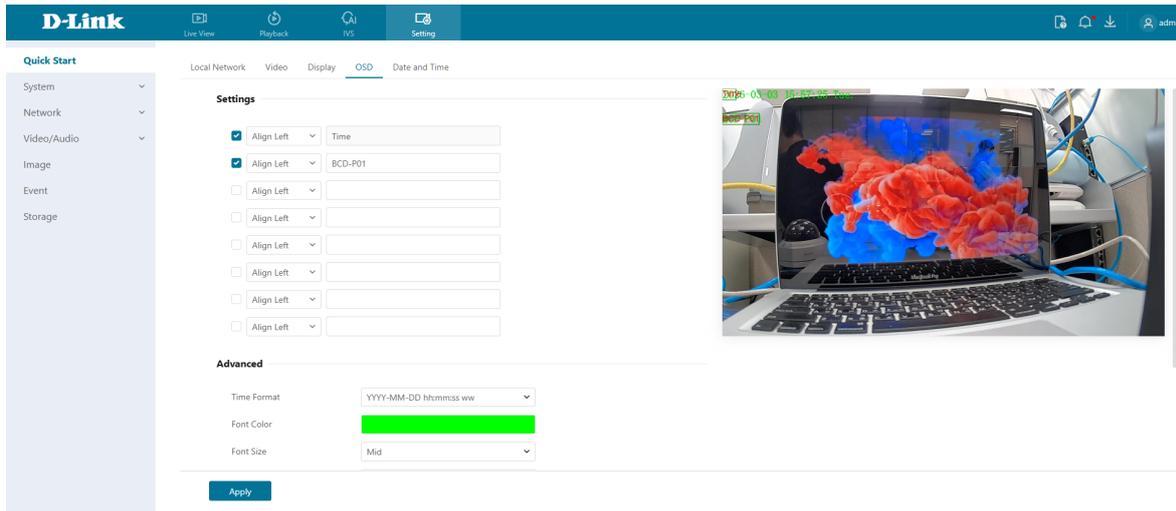
Note: When the resolution is set to D1 or CIF, OSD supports up to **22 characters**. OSD supports **Simplified Chinese, English, numbers, and select special characters**.

Procedure

Step 1 Go to **Setting > Quick Start > OSD**.

Step 2 Configure the parameters listed in **Table 2-10**.

Figure 2-14 OSD



NOTE

Up to seven OSD display areas can be configured.

Table 2-10 Parameters of OSD

Parameter	Description	Setting
Time	Enables display of the system time.	[Setting method] Tick the time.
Custom OSD	Allows you to add a custom line of text.	[Setting method] 1. Tick the custom OSD list. 2. Enter the characters. Click <input checked="" type="checkbox"/> to save the value.
Time Format	Defines the display format of the time.	[Setting method] Select a value from the drop-down list box. [Default value] YYYY-MM-DD hh:mm:ss ww
Font Color	Sets the color of the displayed text.	[Setting method] Select a value from the drop-down list box. [Default value] Blank

Parameter	Description	Setting
Font Size	Sets the size of the text.	[Setting method] Select a value from the drop-down list box. [Default value] Mid
Font Transparency	Controls the transparency of the OSD text.	[Setting method] Select a value from the drop-down list box. [Default value] Opaque
Font on Lighted Back	Enables background lighting for better text visibility.	[Setting method] Click the button on to enable Font on lighted back .
Device Name	Displays the device name in the video.	[Setting method] Click the button on to enable Device Name
Status Display of Focus	Shows live focusing status on screen.	[Setting method] Click the button on to enable
Twelve-hour System	Enables 12-hour clock format.	[Setting method] Click the button on to enable
Display Week	Enables display of the current weekday.	[Setting method] Click the button on to enable

Step 3 Click **Advanced** to configure additional options such as:

- Time Format
- Font Color
- Font Transparency
- Font Background

Step 4 Click **Apply**.

The message "**Apply success!**" confirms that the settings have been saved.

2.5 Date and Time

Description

The **Date and Time** page allows you to configure the system's date, time, and synchronization settings. The following parameters can be adjusted:

- Time zone and Daylight Saving Time (DST)
- Date and time (manual or synchronized)
- Network Time Protocol (NTP) server settings

Procedure

Step 1 Go to **Setting > Quick Start > Date and Time**.

Step 2 Configure the parameters listed in Table 2-11.

Figure 2-15 Date and time page

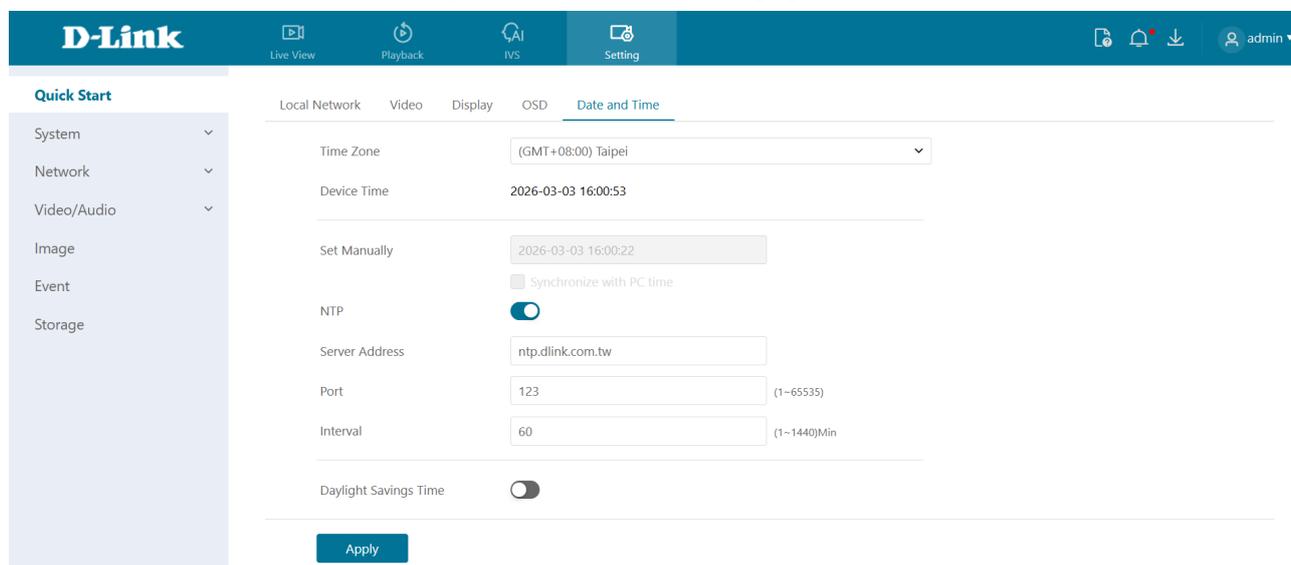


Table 2-11 Parameters of date and time

Parameter	Description	Setting
Time Zone	Sets the time zone of the device. N/A	[Setting method] Select a value from the drop-down list box. [Default value] Greenwich mean time
Device Time	Displays the current time on the device.	[Setting method] <input type="checkbox"/> Synchronize the time from the PC. Enter a value manually.
Set Manually	You can set the device time manually or synchronize with PC time.	[Setting method] Click Set Manually and set the date and time in the format <i>YYYY-MM-DD HH:MM:SS</i> .
NTP	IP address or domain name of the NTP server.	[Setting method] Click the button on to enable NTP and enter a value manually.

Parameter	Description	Setting
Server Address	NTP is enabled. The NTP server IP.	[Setting method] Enter a value manually.
Port	NTP is enabled. Port number of the NTP server.	[Setting method] Enter a value manually. [Default value] 123
Interval	NTP is enabled. Set time interval to check if the device time has synchronized with the NTP server time.	[Setting method] Enter a value manually. [Default value] 60
Daylight Saving Time	Adjusts the device time for DST: <ul style="list-style-type: none"> • When DST starts, the device time is moved forward by one hour. • When DST ends, the device time is moved back by one hour. 	[Setting method] Click the button on to enable Daylight Saving Time .

Step 3 Click **Apply** to save the settings. If the message "**Apply success!**" appears, the settings have been saved successfully.

3 System Settings

3.1 Settings

3.1.1 Device Information

Description

The **Device Information** page displays the following system details:

- Device ID, name, type, model, manufacturer name, and MAC address
- Hardware version and software version
- Video channel count, alarm input/output channel count, serial port count, and number of network cards



NOTE

- The device name is the only editable field.
- All other parameters are view-only.
- Device information updates automatically after a software upgrade

Procedure

Step 1 Go to **Setting > System > Settings > Device Info**.

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

Figure 3-1 Device info page

The screenshot shows the D-Link web interface. The top navigation bar includes 'D-Link', 'Live View', 'Protect', 'HS', and 'Setting'. The left sidebar has 'Quick Start' and 'System' sections. The 'Settings' section is expanded, showing 'Change Password', 'User', 'Device Log', 'Maintenance', 'Security', 'Network', 'Video/Audio', 'Image', 'Event', and 'Storage'. The main content area is titled 'Device Info' and displays the following information:

Device ID	279F69
Device Name	<input type="text" value="BCD-P01"/>
MAC Address	00:1C:27:27:9F:69
Camera Type	Dome
Product Model	BCD-P01
Manufacturer Name	D-Link
Hardware Version	V410014_3
Firmware Version	BCD-P01_A1_FW_1.00.00
Uboot Version	v3_x_20250421
Kernel Version	v3.2_20250515
Channel Quantity	1
Alarm Input Quantity	0
Alarm Output Quantity	0
Serial Port Quantity	0
Network Card Quantity	1

Step 2 View the system information and set the **Device Name** as needed, according to Table 3-1.

Table 3-1 Parameters of device

Parameter	Description	Setting
Device ID	A unique identifier used for platform management.	[Setting method] The parameter cannot be modified.
Device Name	The name used to identify the device. NOTE Maximum length is 32 bytes or 10 Simplified Chinese characters . Modification fails if exceeded.	[Setting method] Enter a value manually.
MAC Address	It shows the performance of camera	[Setting method] These parameters cannot be modified.
Camera Type		
Product Model		
Manufacturer Name		
Hardware Version		
Firmware Version		
Uboot version		
Kernel version		
Channel Quantity		
Alarm Input Quantity		
Alarm Output Quantity		
Serial Port Quantity		
Network card Quantity		

Step 3 Click **Apply**.

- If the message "**Apply success!**" appears, the settings have been saved.
- If "**Apply failed!**" appears, you must request **Parameter Configure** permissions from an administrator.

3.1.2 Date and Time

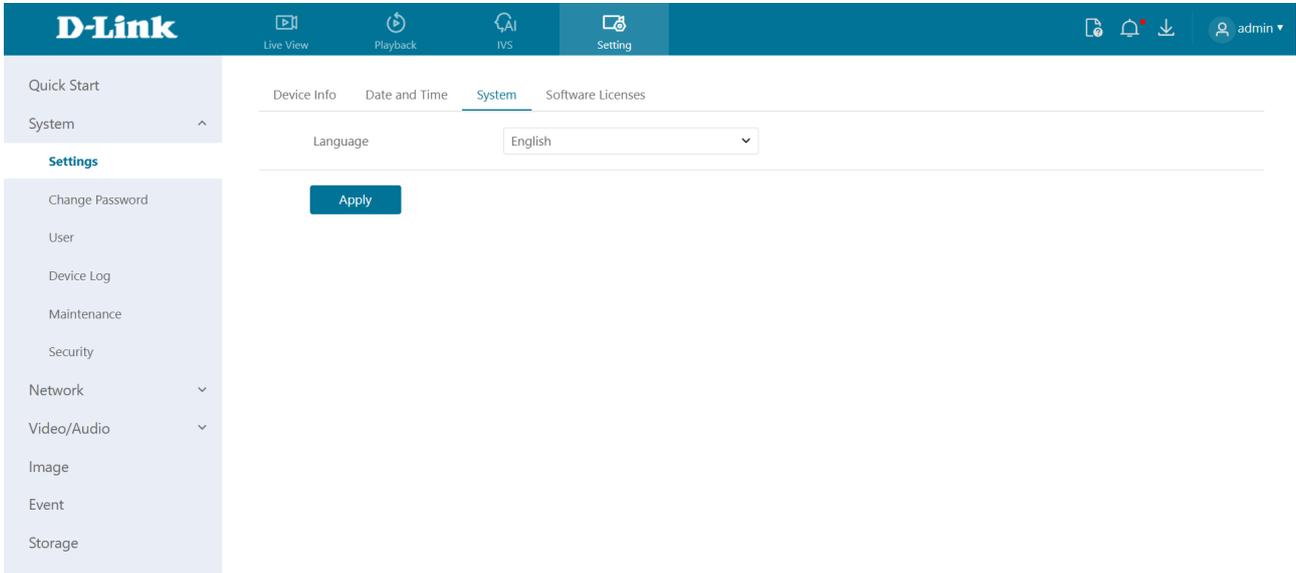
The detailed information, please refer to **Chapter 2.5**

3.1.3 System

Procedure:

- Step 1 Go to **Setting > System > Settings > System**.
The **System** page is displayed (see Figure 3-2).
- Step 2 Choose the language from the drop-down list.

Figure 3-2 System

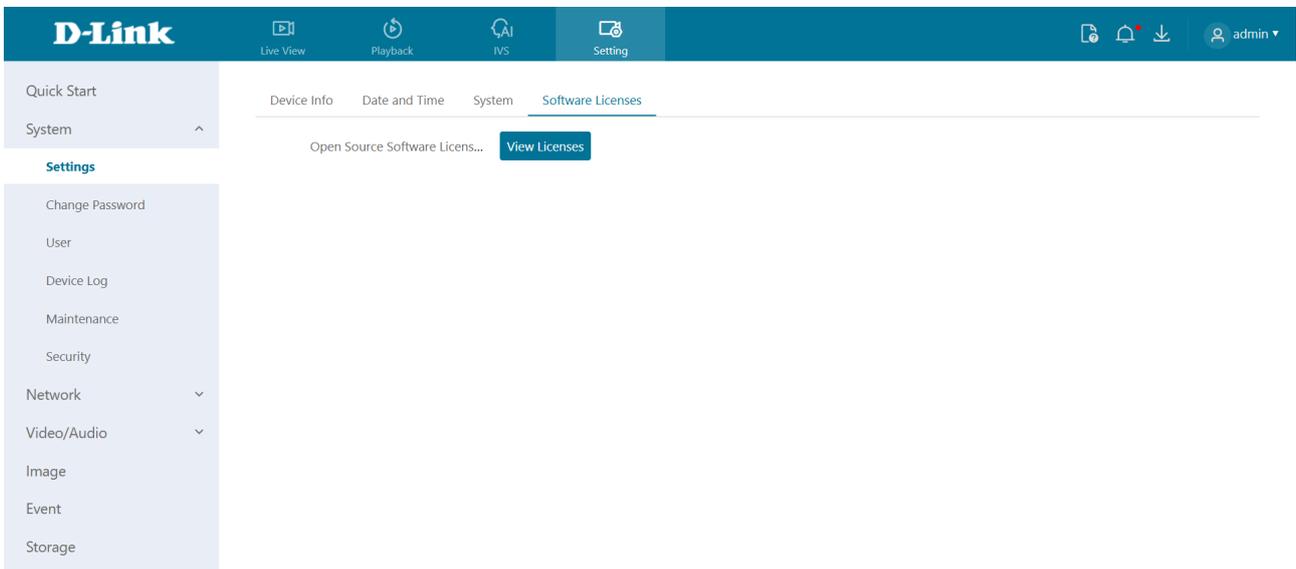


3.1.4 Software Licenses

Procedure

- Step 1 Go to **Setting > System > Settings > Software Licenses**.
The **Software Licenses** page is displayed, as shown in Figure 3-3.

Figure 3-3 Software licenses page



- Step 2 Click **View Licenses** to display the list of open-source software licenses used in the system.

3.2 Change Password

1.3 For detailed information, please refer to **Chapter 1.3**.

3.3 Configure User

3.3.1 Add User

Description

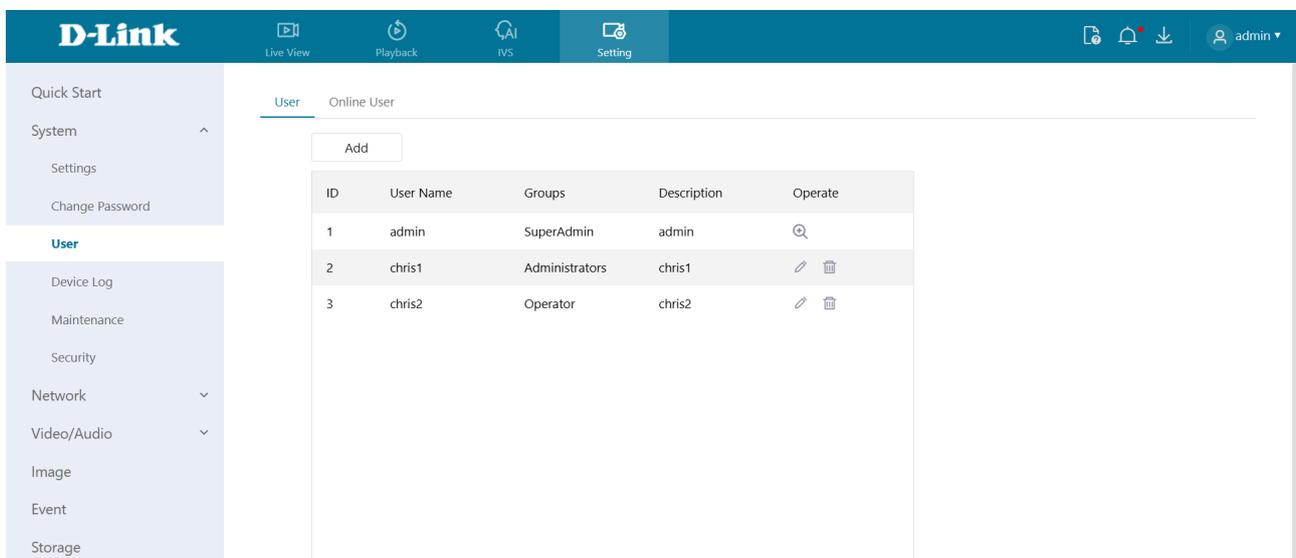
This function allows you to add, modify, or delete users in the **Privilege Manager** section.

Procedure

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

The **User** page is displayed, as shown in Figure 3-4. Table 3-2 describes the parameters.

Figure 3-4 User page



Step 2 Add, modify, or delete users as needed.

Table 3-2 Parameters of user

Parameter	Description	Setting
ID	User ID	User ID (not configurable).
User Name	Name used to log in to the camera.	[Setting method] Select a value from the drop-down list box.

Parameter	Description	Setting
Groups	<p>Specifies the user group. Default groups include:</p> <ul style="list-style-type: none"> • Super Admin: Full access to all system features • Administrators: Access to live video, playback, PTZ, audio, system, log, record policies, disk config, privilege, and parameter settings • Operator: Access to live video, playback, PTZ, parameter config, and maintenance • Media User: Live video only 	<p>[Setting method]</p> <p>Click Add, then select a value from the drop-down list box.</p>
Operate	<p>Actions include view, modify, and delete.</p> <p>NOTE</p> <p>Super Admin can be viewed only.</p>	<p>[Setting method]</p> <p>Click the icon as required.</p>

Table 3-3 Operation description

Function	Procedure	Description
Add	<ol style="list-style-type: none"> 1. Click Add. The Add User page is displayed, as shown in Figure 3-5. 2. Enter a user name, password, confirm password. 3. Select a group from the drop-down list box. 4. Enter the notes (Optional). 5. Check the privilege. 6. Click OK. The user is added successfully. 	<p>Add an administrator or a common user as shown in Figure 3-5.</p>
Modify	<ol style="list-style-type: none"> 1. Click . The Modify User page is displayed. 2. Modify the user name, password, group or privilege. 3. Click OK. The user is modified successfully. The User page is displayed. 	<p>Modify the user name, password, group or privilege.</p>
Delete	<p>Click the  icon. When prompted with "Confirm to delete?", click OK</p>	<p>Deletes a user.</p>

Figure 3-5 Add user page

User Online User

← Add User

User Name

Password ?

Confirm Password

Level Administrators

Notes

Privilege	Privilege Description
<input checked="" type="checkbox"/> Live Video	
<input checked="" type="checkbox"/> Video Control	
<input checked="" type="checkbox"/> PTZ Control	
<input checked="" type="checkbox"/> Audio	
<input checked="" type="checkbox"/> Playback	
<input checked="" type="checkbox"/> Record Strategy	
<input checked="" type="checkbox"/> Disk Config	
<input checked="" type="checkbox"/> Privilege Manager	
<input checked="" type="checkbox"/> Parameter Configuration	
<input checked="" type="checkbox"/> System Maintenance	
<input checked="" type="checkbox"/> Log	
<input checked="" type="checkbox"/> Intelligence Detection	

Cancel OK

 **NOTE**

Click the privilege list to view a detailed breakdown of functions associated with each user group.

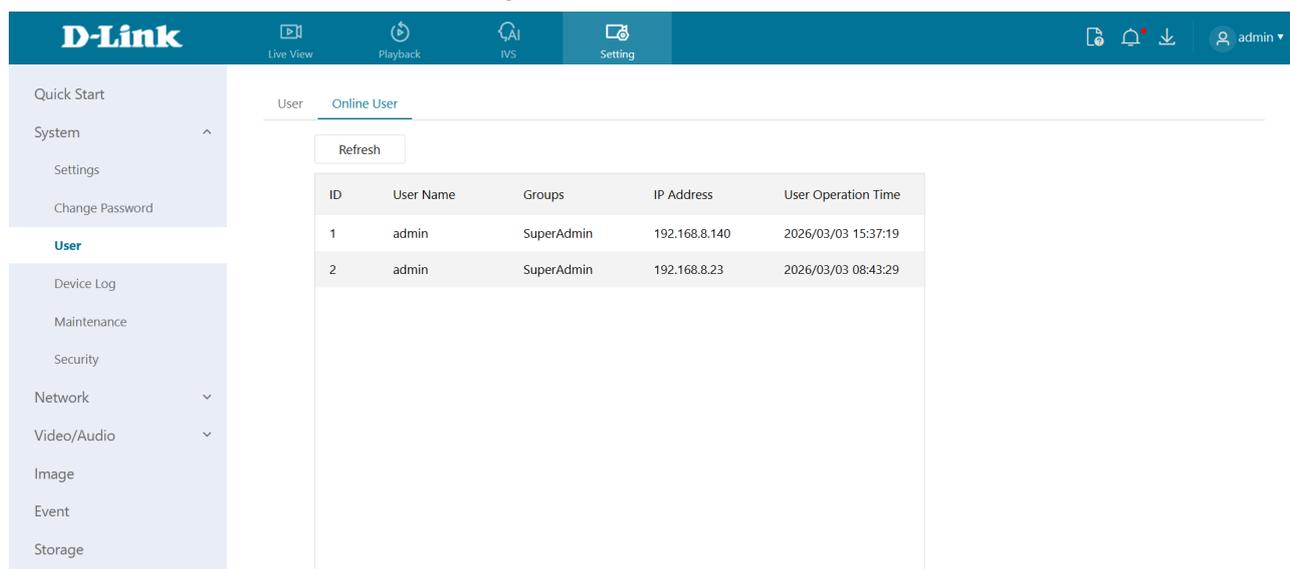
3.3.2 Online User

Procedure

Step 1 Navigate to **Setting > System > User > Online User**. The **Online User** page is displayed, as shown in Figure 3-6.

Step 2 View all users currently connected to the system in real time.

Figure 3-6 Online user



3.4 Query Device Logs

3.4.1 Query Operation Logs

Description

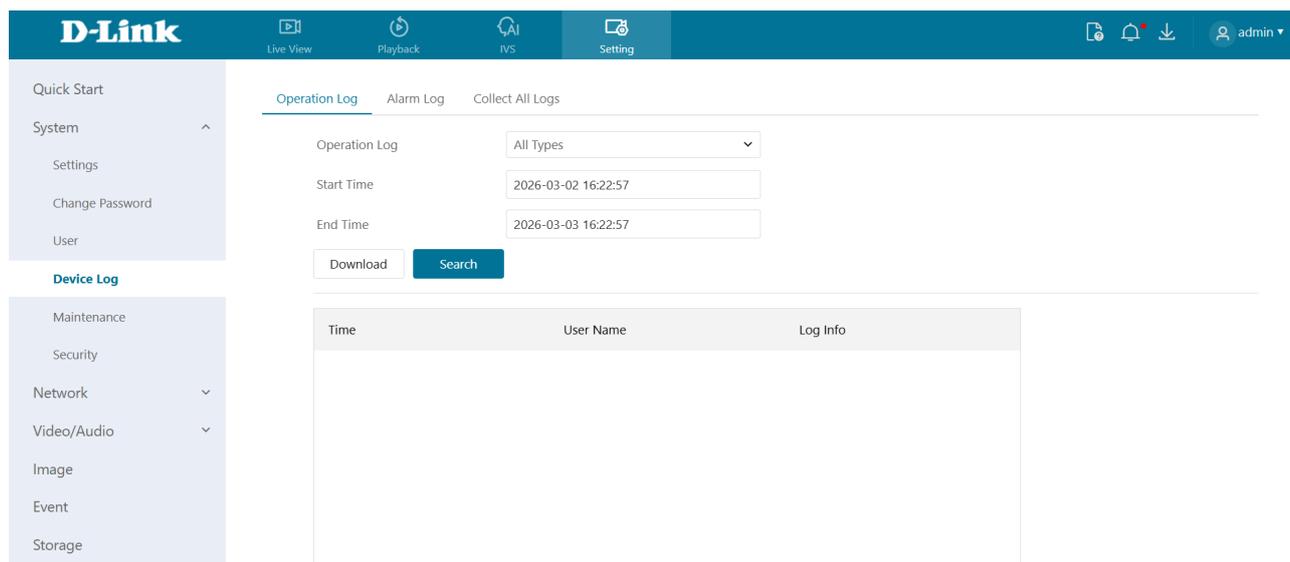
The operation log records user actions and scheduled task instructions during device operation. These logs are categorized as follows:

- Privilege manager
- System maintenance
- Device operations
- Recording operations
- Video control
- Live video

Procedure

Step 1 Navigate to **Setting > System > Device Log > Operation Log**.
The **Operation Log** page appears, as shown in Figure 3-7.

Figure 3-7 Operation log page



Step 2 Set the query conditions.

- Select the type of operation logs from the **Operation Log** drop-down list.
 - Click the **Begin Time** and **End Time** text boxes to display the time selection panel, and set the desired time range.
 - Select the username from the **User Name** drop-down list.
- Step 3 Click **Search**. The logs matching the specified criteria are displayed.

Download the operation logs.

To download logs:

Step 1 Select the log type.

Step 2 Set the **start time**, **end time**, and **log type**.

Step 3 Click **Download**.

Step 4 The log Excel file will be saved automatically to the browser's default download path.

3.4.2 Query Alarm Logs

Description

Alarm logs capture events triggered by system alerts, including:

- Security alarms
- Disk alarms
- Recording alarms
- Intelligent analysis alarms

Procedure

Step 1 Navigate to **Setting > System > Device Log > Alarm Log**.
The **Alarm Log** page appears, as shown in Figure 3-8.

Figure 3-8 Alarm log page

Alarm Begin Time	Alarm End Time	Log Info	Area ID	Source ID	Capture type
2026-03-03 15:55:00	2026-03-03 15:55:10	Record Storage Failed	--	1	--
2026-03-03 15:37:08	2026-03-03 15:37:18	Record Storage Failed	--	1	--
2026-03-03 15:32:20	2026-03-03 15:32:30	Record Storage Failed	--	1	--
2026-03-03 15:27:35	2026-03-03 15:27:45	Record Storage Failed	--	1	--
2026-03-03 14:57:28	2026-03-03 14:57:38	Record Storage Failed	--	1	--
2026-03-03 14:52:42	2026-03-03 14:52:52	Record Storage Failed	--	1	--
2026-03-03 14:45:30	2026-03-03 14:45:40	Record Storage Failed	--	1	--

Step 2 Set the search conditions.

- Click the **Begin Time** and **End Time** text boxes to set the time range.
- Select the alarm type from the **Alarm Type** drop-down list.

Step 3 Click **Search**.

The alarm logs of the specified type are displayed.

Step 4 Download the alarm logs.

1. Select a log type.
2. Set the start time and end time.
3. Click **Download** to download the logs.
4. The excel file will be saved to the default download path of browser.

3.4.3 Collect All Logs

Description

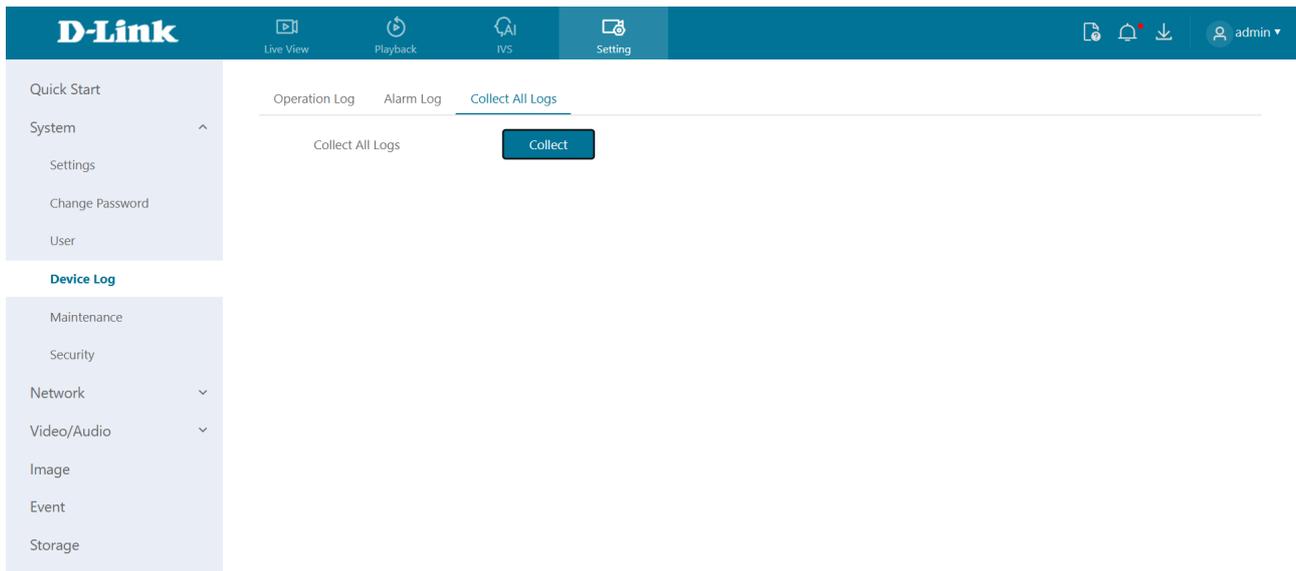
This feature allows you to download all logs related to the device for troubleshooting and analysis. Log types include:

- Device overview
- Key parameters
- Operation logs
- Alarm logs
- Upgrade logs
- Debugging logs

Procedure

Step 1 Navigate to **Setting > System > Device Log > Collect All Log**.
The **Collect Log** page appears, as shown in Figure 3-9.

Figure 3-9 Collect log page



Step 2 Collect logs with one click.

1. Click **Collect**, a download pop-up window will appear.
2. The log file will automatically be saved to the browser's default download location.

3.5 Maintain the Device

3.5.1 Reboot Device

Description

Use this feature to reboot the device in scenarios including, but not limited to:

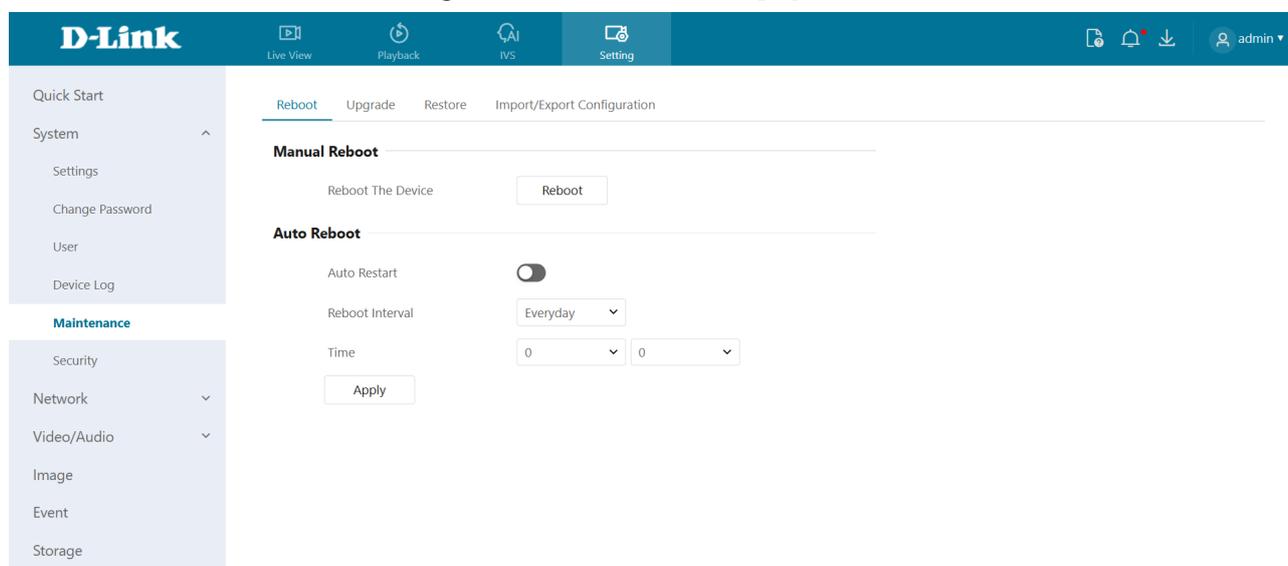
- Device parameters have been configured incorrectly, causing improper operation.
- A parameter reset is needed for the changes to take effect.
- Remote reboot is required for maintenance or troubleshooting.

Procedure

Step 1 Navigate to **Setting > System > Maintenance > Reboot**.

The **Camera Maintenance** page is displayed as shown in Figure 3-10.

Figure 3-10 Reboot device page



Step 2 Click **Reboot**.

- A confirmation message appears: "**Are you sure to restart?**"
 - Click **OK** to proceed.
- Step 3 The device will restart successfully within approximately **five minutes**.

Auto Reboot Configuration:

You can also configure the device to reboot automatically at scheduled intervals.

Step 1 Enable **Auto Reboot** by checking the appropriate option.

Step 2 Choose the desired **reboot interval** from the drop-down list:

- **Every Day**
- **Every Week**
- **Every Month**

Figure 3-11 Camera auto restart

Auto Reboot

Auto Restart

Reboot Interval

Time

Step 3 Click **Apply**. The auto reboot schedule will take effect, and settings will be saved.

3.5.2 Upgrade the Software Package

Description

You can upgrade the device software package through the web interface. This process ensures the device runs the latest version with improved features or resolved issues.

Procedure

Step 1 Navigate to **Setting > System > Maintenance > Upgrade**.
The **Upgrade** page is displayed.

Figure 3-12 Update file

D-Link Live View Playback IVS Setting admin

Reboot **Upgrade** Restore Import/Export Configuration

Upgrade

Update File No file Chosen

Prohibit version downgrade!

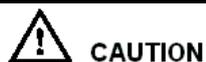
Step 2 Click **Select File** to browse and choose the appropriate upgrade file.

Step 3 Click **Update** to begin the upgrade process..

If the message "**Updating, please wait a few minutes, and do not close the browser**" is displayed:

- The upgrade is in progress.
- The device will automatically reboot after the update completes.

If another message is displayed, ensure you have selected the correct upgrade package and try again.



Do **not** power off the camera during the upgrade process.
Power failure during an upgrade may result in device malfunction.

3.5.3 Restore Device to Factory Settings

Description

You can restore the device to its factory default settings. This feature is recommended in the following scenarios:

- The device configuration is incorrect, causing operational issues
- You want to reset all parameters
- A clean factory default state is required for troubleshooting



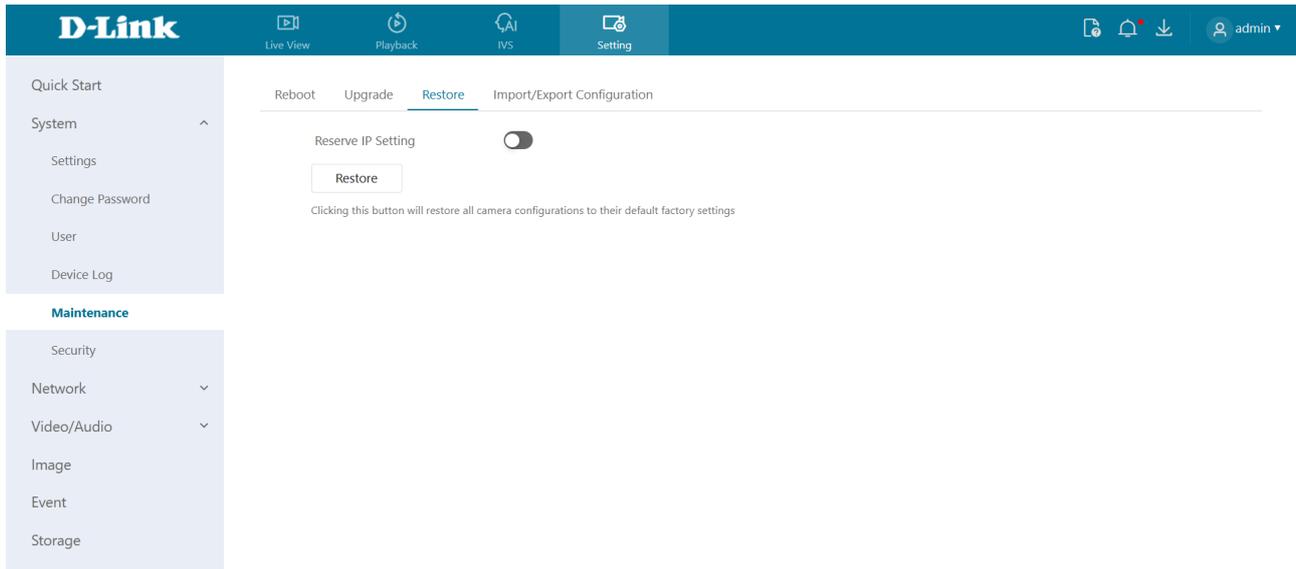
After clicking **Restore**, all configuration settings will be reset to factory defaults.

You may choose whether or not to retain the current IP address.

Procedure

- Step 1 Navigate to **Setting > System > Maintenance > Restore**.
The **Restore** page is displayed.

Figure 3-13 Restore device



Step 2 Click **Restore**. The message "Are you sure to restore?" is displayed.

Step 3 Click **OK**. The device begins restoring to its factory default settings. After the process completes, the device will reboot with factory defaults applied.

3.5.4 Export / Import Configuration

Description

This feature allows you to back up the current configuration and restore it later. You can export the settings to a local hard drive and import the same configuration to:

- The current device
- Other cameras of the same model

Procedure

Export Configuration

Step 1 Navigate to **Setting > System > Maintenance > Import/Export Configuration**.

The **Export / Import Configuration** page is displayed (see Figure 3-14).

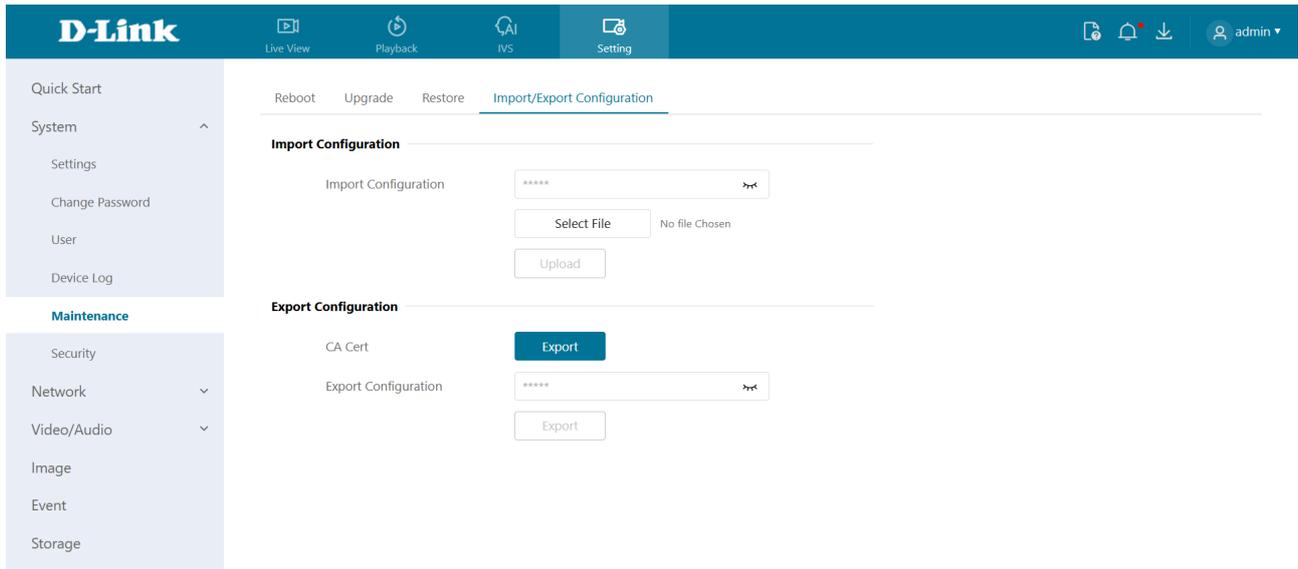
Step 2 Under **Export Configuration**:

- Enter the **password**.
- Click **Export**.

Step 3 A message will appear: "**Export Configuration File — Downloading, Please Wait!**"

The configuration file will be downloaded to your local system.

Figure 3-14 Export / Import Configuration page



Export Configuration File

Downloading, Please Wait!

Import Configuration

Step 1 Under **Import Configuration**:

- Enter the **password**.
- Click **Select File**, then browse and select the **configuration** file from your local drive.
- Click **Upload** to begin the import process.

3.6 Configure Security

3.6.1 IP Filter

Description

The **IP Filter** function allows you to control access to the device based on IP address ranges. You can specify whether to allow or deny access to certain IP segments using whitelist or blacklist rules.

Procedure

Step 1 Go to **Setting > System > Security > IP Filter**.

The **IP Filter** page is displayed (see Figure 3-15).

Step 2 Click the toggle switch to enable **IP Filter**.

Step 3 Configure the parameters listed in **Table 3-4**.

Figure 3-15 IP filter page

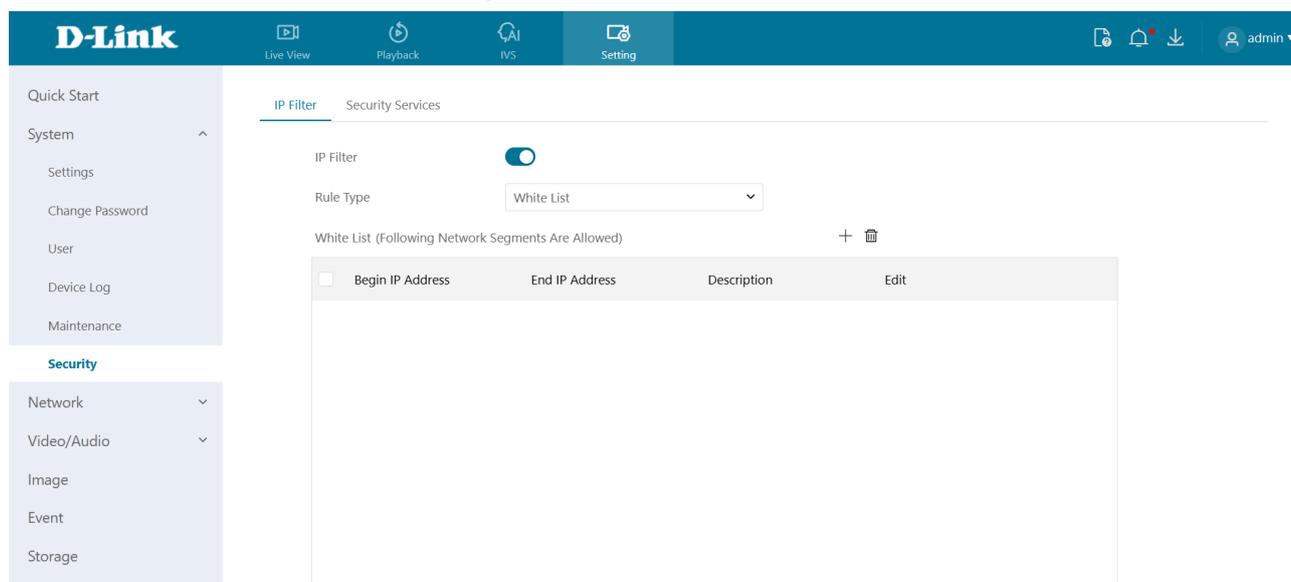


Table 3-4 Parameters of IP filter

Parameter	Description	Setting
IP Filter	Enables or disables the IP Filter function.	[Setting method] Click the button on. [Default value] OFF
Rule Type	IP filter type, including black list and white list.	[Setting method] Select a value from the drop-down list box. [Default value] Black List

Parameter	Description	Setting
Black List	Specified network segment should be banned.	<p>[Setting method]</p> <ol style="list-style-type: none"> 1. Click  to enter the add black/white list page, as shown in Figure 3-16 2. Enter Begin IP Address. 3. Enter End IP Address. 4. Enter Description. 5. Click OK, the black list added successfully.
White List	Allow specified network segment to access.	<p>[Setting method]</p> <ol style="list-style-type: none"> 1. Click  to enter the add black/white list page, as shown in Figure 3-16. 2. Enter Begin IP Address. 3. Enter End IP Address. 4. Enter Description. 5. Click OK, add the white list successfully.

Figure 3-16 Add IP filter page

Add
×

Begin IP Address

End IP Address

Description

Cancel
Confirm

 **NOTE**

Click  to modify the parameters of setting black list or white.

Click  to delete the setting black list or white.

Step 4 Click Apply.

The If the message "Apply success!" appears, the IP Filter has been successfully configured.

3.6.2 Security Services

Description

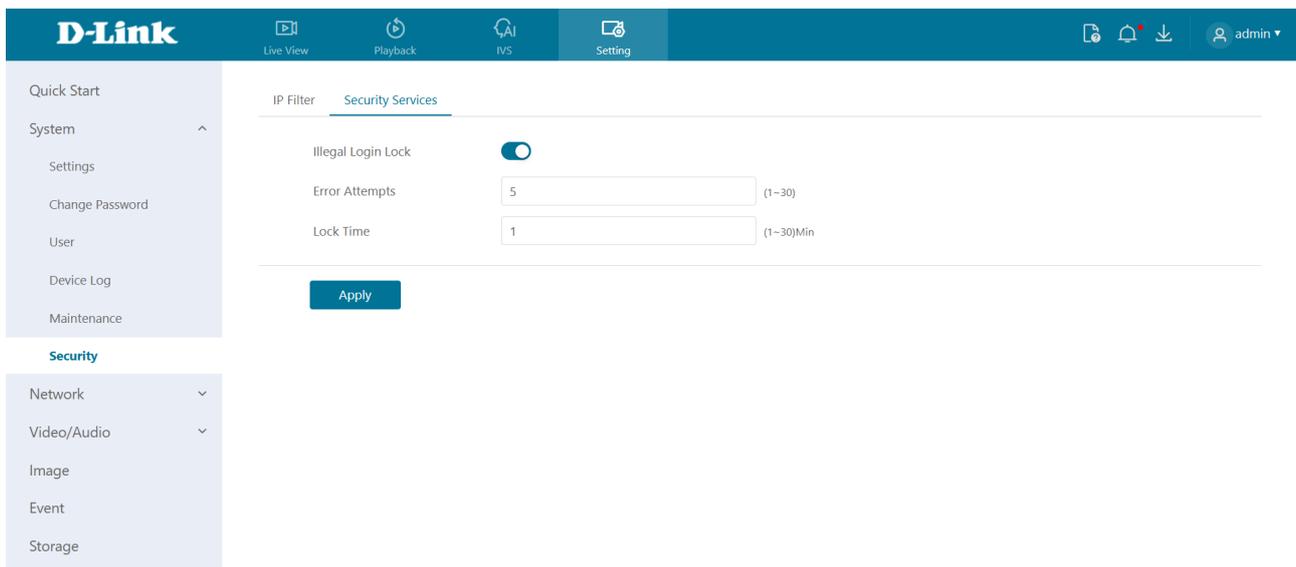
To enhance device security, you can enable the **Illegal Login Lock** feature. When enabled, the system will lock the user account for a specified duration after a defined number of incorrect password attempts.

Procedure

Step 1 Navigate to **Setting > System > Security > Security Services**.

The **Security Services** page is displayed, as shown in Figure 3-17.

Figure 3-17 Security services page



Step 2 Configure the following settings:

- **Illegal Login Lock:** Toggle this switch **ON** to enable account lockout for failed login attempts.
- **Error Attempts:** Enter the number of allowed incorrect password attempts before lockout is triggered.
 - **Range:** 1–30
 - **Example:** Setting this to 5 means the account will be locked after 5 failed login attempts.
- **Lock Time:** Enter the duration (in minutes) for which the account will remain locked after exceeding the allowed attempts.
 - **Range:** 1–30 minutes
 - **Example:** Setting this to 15 means the account will be locked for 15 minutes.

Step 3 Click **Apply**.

- A message "**Apply success!**" confirms that the settings have been saved.

4 Configure the Network Service

4.1 Basic Settings

4.1.1 Local Network

For detailed information on Local Network Settings, please refer to **Chapter 2.1**

4.1.2 Device Port

Description

To enable proper network routing within a LAN, you must configure the following ports:

- **HTTP Port**
- **Control Port**
- **RTSP (Real-Time Streaming Protocol) Port**
- **HTTPS Port**

These ports are essential for web access, video streaming, and secure communication.

Procedure

Step 1 Navigate to **Setting > Network > Settings > Device Port**.

The **Device Port** page is displayed (see Figure 4-1).

Step 2 Set the parameters, as shown in Table 4-1.

Figure 4-1 Device port page

The screenshot displays the D-Link web interface. At the top, there is a navigation bar with the D-Link logo and icons for Live View, Playback, IVS, and Setting. The user 'admin' is logged in. On the left, a sidebar menu shows 'Quick Start', 'System', 'Network', 'Settings', 'Advanced Settings', 'Video/Audio', 'Image', 'Event', and 'Storage'. The main content area has tabs for 'Local Network', 'Device Port', 'Port Mapping', 'DDNS', and 'PPPoE'. The 'Device Port' tab is selected, showing four configuration fields: 'Control Port' (30001, range 1025~65535), 'HTTP Port' (80, range 1~65535), 'RTSP Port' (554, range 1~65535), and 'HTTPS Port' (443, range 1~65535). An 'Apply' button is located at the bottom of the configuration area.

Table 4-1 Parameters of device port

Parameter	Description	Setting
Control Port	Used for audio, video transmission, and signaling interaction.	[Setting method] Enter a value manually. [Default value] 30001
HTTP Port	Port used for standard web access. If changed (e.g., to 86), access the device using: http://192.168.0.20:86/	[Setting method] Enter a value manually. [Default value] 80
RTSP Port	Port for RTSP protocol (streaming). Example: Input <code>rtsp://192.168.0.20:554/sn1/live/1/1</code> into VLC to view live video. Refer to Configuration > Protocol > Protocol Info for further details.	[Setting method] Enter a value manually. [Default value] 554
HTTPS Port	secure port for web access using SSL. Before use, ensure Web Mode is set to HTTPS under Configuration > Device > System . Access format: https://192.168.0.20:443	[Setting method] Enter a value manually. [Default value] 443

 **NOTE**

It is generally **not recommended** to change the **Control Port**.

Refer to the **Communication Matrix** for valid port ranges for Control, HTTP, and SSL ports.

Step 3 Click **Apply**.

- If the message "**Apply success!**" appears, the settings have been saved.
- If you see "**Port invalid, please check it,**" review and re-enter valid port numbers.

4.1.3 Port Mapping

Description

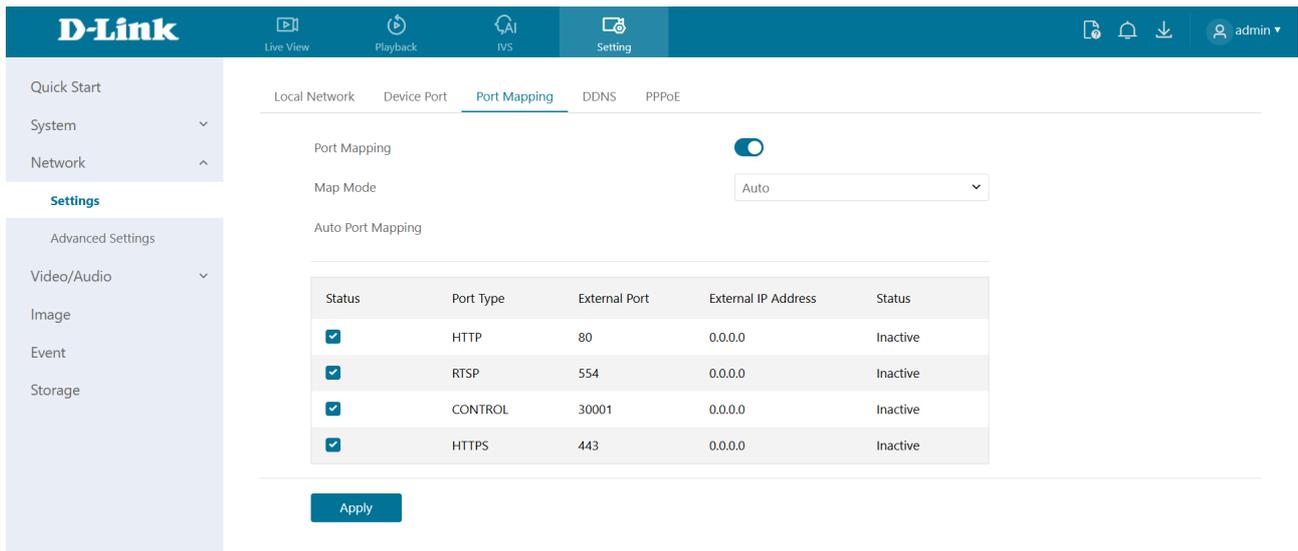
Port mapping helps establish a mapping relationship between the private network and the external network. Port mapping allows outside computers to access intranet devices so that the network works efficiently.

Procedure

Step 1 Choose **Setting > Network > Settings > Port Mapping**.

The **Port Mapping** page is displayed, as shown in Figure 4-2.

Figure 4-2 Port mapping page



Step 2 Click the button on to enable **Port Mapping**.

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

Table 4-2 Parameters of port mapping

Parameter	Description	Setting
Port Mapping	Enables or disables the port mapping service.	[Setting method] Click the button on. [Default value] OFF
Map Mode	Defines how Auto and Manual ports are mapped	[[Setting method] Select a value from the drop-down list box. [Default value] Auto
Port Type	Types of ports used in the mapping:	N/A

Parameter	Description	Setting
	Includes SSL Control, HTTP, RTSP, Control, and HTTPS.	
External Port	The port number used on the external (public) network.	[Setting method] Enter a value manually in map mode.
External IP Address	IP address used on the external network to access the device.	N/A
Status	Displays the current mapping status for each port.	N/A

Step 4 Click **Apply**.

- If the message "**Apply success!**" appears, the settings have been saved.
- If any other message appears, review and correct the parameters.

4.1.4 DDNS

Preparation

Before configuring DDNS, ensure that:

- The camera is connected to the Internet.
- You have obtained a valid **username** and **password** for logging into the Dynamic Domain Name System (DDNS) server.

Procedure

Step 1 Navigate to **Setting > Network > Settings > DDNS**.

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

Figure 4-3 DDNS page

Step 2 Click the toggle switch to enable **DDNS**.

Step 3 Configure the parameters as shown in Table 4-3.

Table 4-3 Parameters of DDNS

Parameter	Description	Setting
DDNS	Enables or disables the DDNS service.	[Setting method] Click the button on to enable DDNS. [Default value] OFF
Provider	elect your DDNS service provider. Currently supported providers: <ul style="list-style-type: none">• No-IP_DDNS• Dyndns	[Setting method] Select a value from the drop-down list box. [Default value] Dyndns NOTE Set this parameter based on the site requirements.
Network Card Name	Specifies which network card to use for DDNS.	[Setting method] Select a value from the drop-down list box. [Default value] Eth0
Host Name	Custom domain name set by the user.	[Setting method] Enter a value manually. [Default value] Blank
Accounts	Username for logging into the DDNS service.	[Setting method] Enter a value manually. [Default value] Blank
Password	Password for logging into the DDNS service. Note: Set all parameters according to your DDNS service provider's instructions and site requirements.	[Setting method] Enter a value manually. [Default value] Blank

Parameter	Description	Setting
Protocol	Protocol for logging into the DDNS service.	[Setting method] Select a value from the drop-down list box. [Default value] HTTPS

Step 4 Click Apply.

- If the message "Apply success!" appears, the configuration has been saved.
- If an error appears, review the settings and correct any incorrect values.

4.1.5 Set PPPoE

Preparation

Before configuring PPPoE, obtain your **username** and **password** from your Internet service provider (ISP).

Description

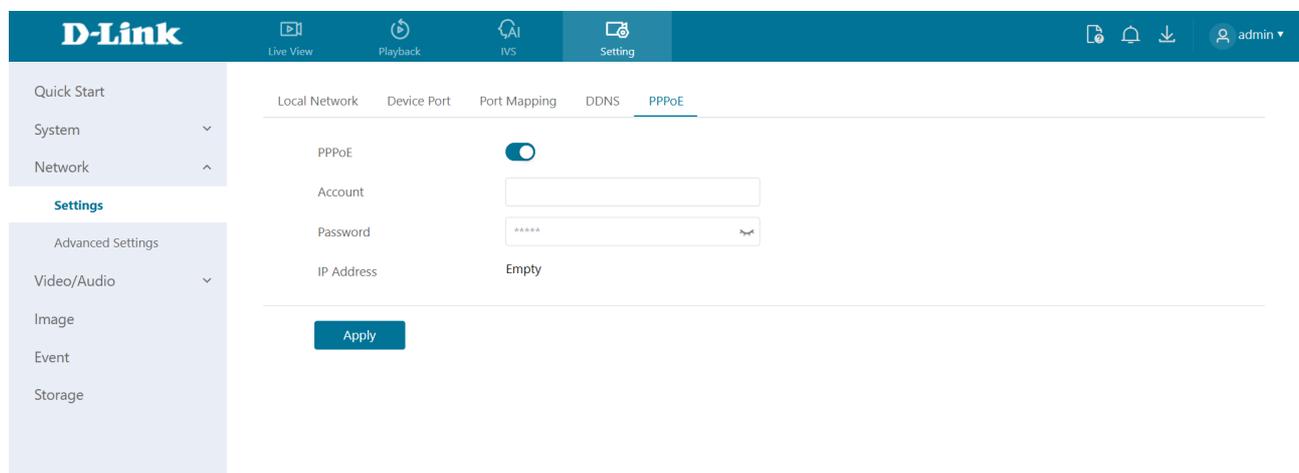
If the camera connects to the Internet via **PPPoE (Point-to-Point Protocol over Ethernet)**, you must enter the provided credentials on the PPPoE configuration page. Once the device restarts, the PPPoE settings take effect, and the system will obtain a **public IP address**.

Procedure

Step 1 Navigate to **Setting > Network > Settings > PPPoE**.

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

Figure 4-4 PPPoE page



Step 2 Click the toggle button to **enable PPPoE**.

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

Table 4-4 Parameters of PPPoE

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

Step 4 Click **Apply**.

- If the message "**Apply success!**" appears, the settings have been saved.
- If another message appears, review and correct the entered credentials.

Note: The IP address assigned via PPPoE will be displayed after a successful connection.

4.2 Advanced Settings

4.2.1 Set FTP

Description

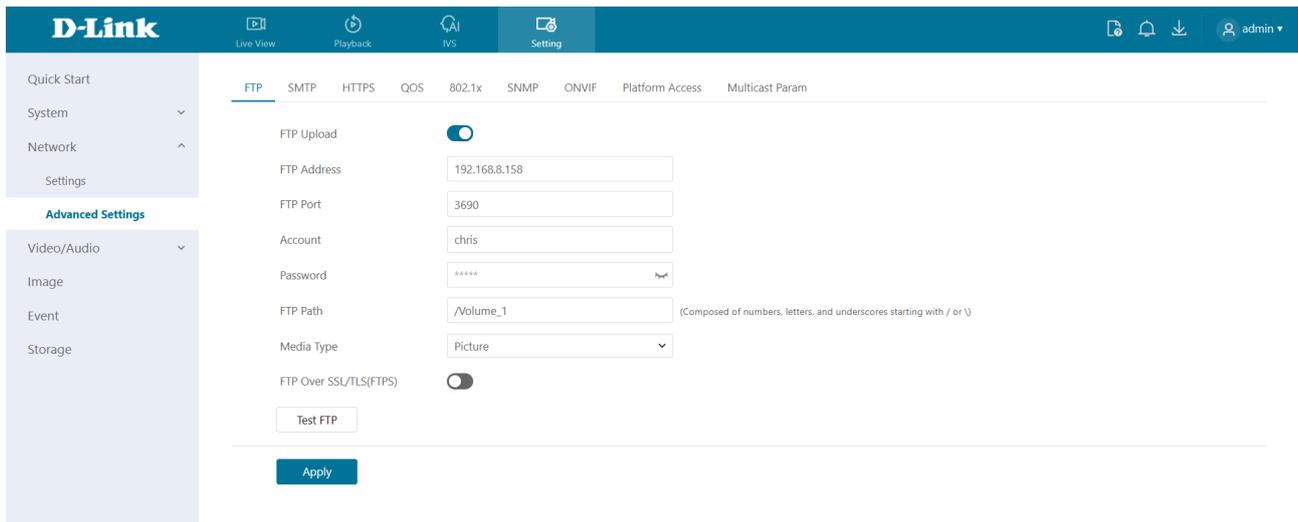
When **FTP (File Transfer Protocol) Upload** is enabled, the device will automatically send captured alarm snapshots (JPG images) to a designated FTP server.

Procedure

Step 1 Navigate to **Setting > Network > Advanced Settings > FTP**.

The **FTP** configuration page is displayed as shown in Figure 4-5.

Figure 4-5 FTP page



Step 2 Click the toggle button to **enable FTP Upload**.

Step 3 Set the parameters as shown in Table 4-5.

Table 4-5 Parameters of FTP

Parameter	Description	Setting
FTP Upload	Enables or disables FTP upload functionality.	[Setting method] Click the button on. [Default value] OFF
FTP Address	IP address of the FTP server.	[Setting method] Enter a value manually.
FTP Port	Port number of the FTP server.	[Setting method] N/A [Default value] 21
Account	Username for FTP server login.	[Setting method] Enter a value manually.
Password	Password for FTP server login.	[Setting method] Enter a value manually.
FTP Path	FTP Path on the FTP server to store images.	[Setting method] Enter a value manually.

Parameter	Description	Setting
Media Type	Specifies the type of media to upload: <ul style="list-style-type: none"> • Picture (JPG image) • Video Clip (only if supported) 	[Setting method] Select a value from the drop-down list box. [Default value] Snapshot
FTP over SSL/TLS (FTPS)	Enables encryption during file transfer using SSL/TLS.	[Setting method] Tick

Step 4 Click **Test FTP** to verify the connection.

If "**Test succeed**" appears, the configuration is correct.

If "**Test failed**" appears, review and correct the FTP settings.

Step 5 Click **Apply**.

- If the message "**Apply success!**" appears, the configuration has been saved successfully.
-
- If an error message appears, revise the input accordingly.

4.2.2 Set SMTP

Description

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

Procedure

Step 1 Choose **Setting > Network > Advanced Settings > SMTP**.

The **SMTP** page is displayed, as shown in Figure 4-6.

Figure 4-6 SMTP page

Step 2 Set the parameters according to Table 4-6.

 **NOTE**

Fields marked with an asterisk (*) are mandatory.

Table 4-6 Parameters of SMTP

Parameter	Description	Setting
SMTP Server Address	IP address of the SMTP server.	[Setting method] Enter a value manually.
SMTP Server Port	Port number of the SMTP server.	[Setting method] Enter a value manually. [Default value] 25
User Name	Username of the sender's email account.	[Setting method] Enter a value manually.
Password	Password for the sender's email account.	[Setting method] Enter a value manually.
Sender E-mail Address	Email address used to send alerts.	[Setting method] Enter a value manually.
Recipient_E-mail_Address 1	Primary recipient email address.	[Setting method] Enter a value manually.
Recipient_E-mail_Address 2	Optional second recipient.	
Recipient_E-mail_Address3	Optional third recipient.	
Recipient_E-mail_Address 4	Optional fourth recipient.	
Recipient_E-mail_Address 5	Optional fifth recipient.	
Transport Mode	Email encryption mode. Set this parameter based on the encryption modes supported by the SMTP server.	[Setting method] Select a value from the drop-down list box. [Default value] No Encrypted

Step 3 Click Apply.

- If the message "**Apply success!**" appears, the settings have been saved successfully.
- If another message appears, review and correct any parameter errors.

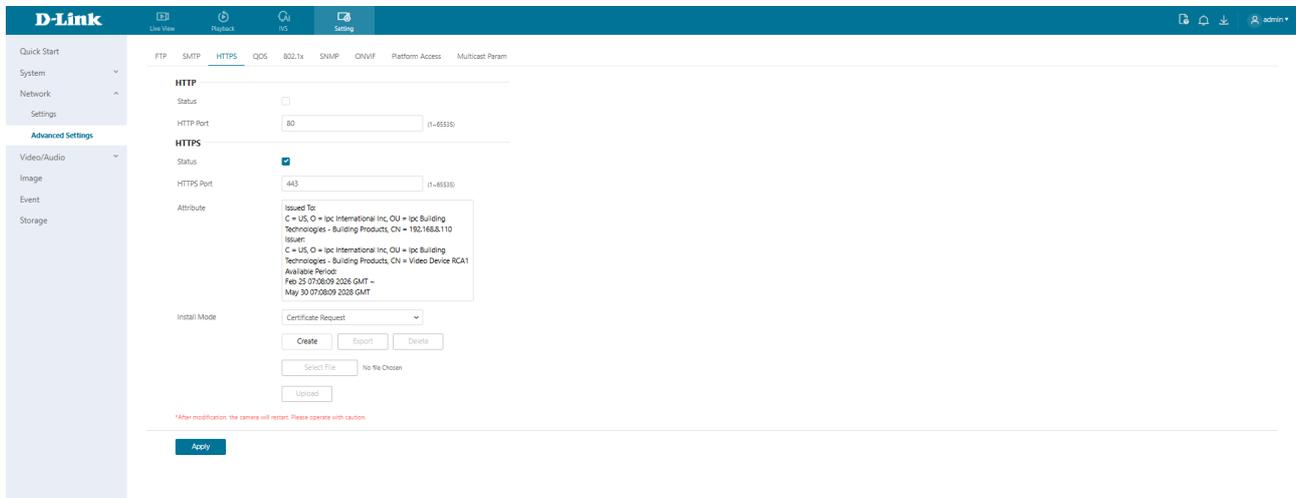
4.2.3 Set HTTPS

Preparation

If users wish to access the camera's web interface securely via **HTTPS**, they must first configure the HTTPS port. For example, to access the web interface, input:

<https://192.168.0.20:443>

Figure 4-7 HTTPS page



Procedure

Step 2 Navigate to **Setting > Network > Advanced Settings > HTTPS**.

The **HTTPS** configuration page is displayed (see Figure 4-7).

Step 3 Toggle the **Status** switch to **enable HTTPS**.

Step 4 In the **HTTPS Port** field, enter the desired port number.

- **Valid Range:** 1–65535
- **Default:** 443

Step 5 Click **Apply**.

- If the message "**Apply success!**" appears, the HTTPS configuration has been saved.
- You can now access the device securely using the designated port.

4.2.4 Set QOS

Description

If the device is connected to a **router or switch** that supports **QoS (Quality of Service)**, and the network equipment is configured with appropriate priority rules, data packets from the device will be prioritized accordingly.

This setting helps ensure better performance and bandwidth management for critical services such as video streaming, alarms, and control commands.

Procedure

Step 1 Navigate to **Setting > Network > Advanced Settings > QOS**.

The **QOS** page is displayed, as shown in Figure 4-8.

Figure 4-8 QOS page

Field	Value	Range
Audio/Video Dscp	0	(0-63)
Alarm Dscp	0	(0-63)
Command Dscp	0	(0-63)

Step 2 Enter values for the following fields. Valid input range for each is **0–63**:

- **Audio/Video DSCP:** Priority level for audio/video data
- **Alarm DSCP:** Priority level for alarm signals
- **Command DSCP:** Priority level for control commands

Step 3 Click **Apply**.

- If the message "**Apply success!**" appears, the settings have been successfully applied.
- If any error occurs, verify the DSCP values entered and correct them.

4.2.5 Set 802.1x

Preparation

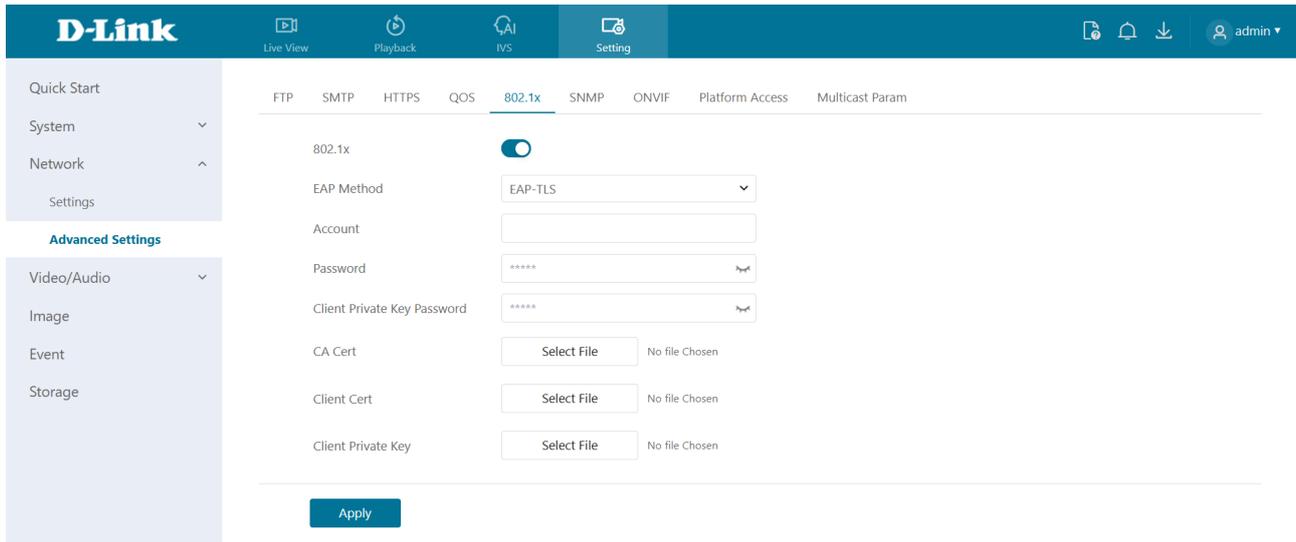
Ensure that **802.1x authentication** is configured on the device's network port. This standard verifies user identity and helps control access to network resources.

Procedure

Step 1 Navigate to **Setting > Network > Advanced Settings > 802.1x**.

The **802.1x** configuration page is displayed, as shown in Figure 4-9.

Figure 4-9 802.1x page



Step 2 Toggle the **802.1x** switch to **enable** authentication.

Step 3 Choose the **EAP Method (Extensible Authentication Protocol)** from the drop-down list:

- **EAP-MD5**
- **EAP-TLS**

Step 4 Enter the **Account Name**.

Step 5 Enter and confirm the **Password**.

Step 6 Click **Apply**.

If the message "Apply success!" is displayed, the settings have been saved successfully.

4.2.6 Set SNMP

Description

Simple Network Management Protocol (SNMP) is an internet-standard protocol used for managing devices on IP networks. This system supports:

- **SNMPv1**
- **SNMPv2c**
- **SNMPv3**

Each version has unique security models and configuration parameters.

Procedure

Step 1 Navigate to **Setting > Network > Advanced Settings > SNMP**.

The **SNMP** page is displayed, as shown in Figure 4-10.

Figure 4-10 SNMP page

The screenshot shows the D-Link web interface for configuring SNMP. The top navigation bar includes the D-Link logo, 'Live View', 'Playback', 'IVS', 'Setting', and a user profile 'admin'. The left sidebar contains a menu with 'Quick Start', 'System', 'Network', 'Settings', 'Advanced Settings', 'Video/Audio', 'Image', 'Event', and 'Storage'. The main content area has tabs for 'FTP', 'SMTP', 'HTTPS', 'QOS', '802.1x', 'SNMP', 'ONVIF', 'Platform Access', and 'Multicast Param'. The 'SNMP' tab is selected, displaying the following configuration options:

SNMPv1	SNMPv2c	SNMPv3
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Write Community	Read Community	
Trap Address	Trap Port	
	Trap Community	
	SNMP Port	

The 'Trap Port' field is pre-filled with '162' and the 'SNMP Port' field is pre-filled with '161'. An 'Apply' button is located at the bottom of the configuration area.

- Step 2 Toggle the appropriate buttons to enable **SNMPv1**, **SNMPv2c**, or **SNMPv3**.
- Step 3 Configure parameters as shown in Table 4-7.

Table 4-7 Parameters of SNMP

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

Parameter	Description	Setting
Auth Algorithm	Authentication Algorithm, includes MD5 and SHA.	[Setting method] Select a value from the drop-down list box. [Default value] Blank
Auth Password	Authentication password.	[Setting method] Enter a value manually.
Encrypt Algorithm	Encryption Algorithm, includes DES and AES.	[Setting method] Select a value from the drop-down list box. [Default value] Blank
Encrypt Password	Encryption password.	[Setting method] Enter a value manually.
SNMP Port	Port of SNMP.	[Setting method] Enter a value manually. [Default value] 161

Step 4 Click **Apply**.

- If the message "**Apply success!**" is displayed, your SNMP settings are saved.
- If another message appears, verify and correct the configuration.

4.2.7 View ONVIF

Description

The **ONVIF** page displays details about the protocol configuration used for external integration with ONVIF-compliant systems.

Procedure:

Step 1 Navigate to **Setting > Network > Advanced Settings > ONVIF**.

The **ONVIF** page is displayed, as shown in Figure 4-11. Table 4-8 describes the protocol-related parameters

Figure 4-11 ONVIF page

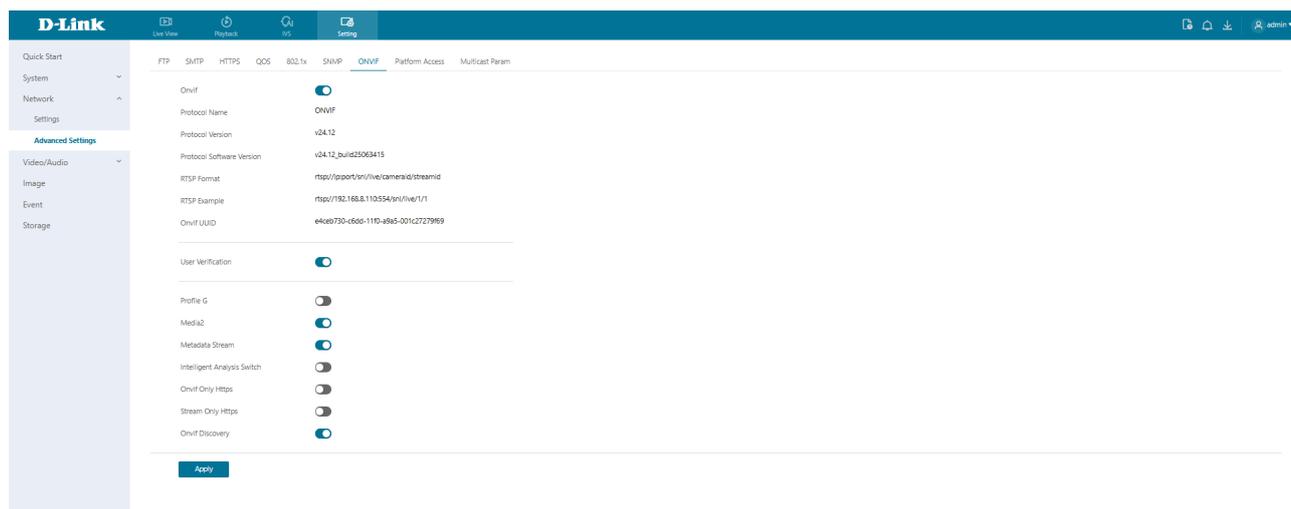


Table 4-8 Parameters of protocol-related

Parameter	Description
Protocol Name	Type of the access protocol.
Protocol Version	Version number of the access protocol.
Protocol Software Version	Software version number of the access protocol.
RTSP Format	URL rule of Real Time Streaming Protocol.
RTSP Example	URL example of Real Time Streaming Protocol.
Onvif UUID	Universally Unique Identifier.
User Verification	When you select the User Verification check box, the user name and password must be the same as those for logging in to the device web page. NOTE When an ONVIF-compliant device connects to the platform, you must authenticate the user name and password to ensure the connection security.
Onvif	Enable Onvif
Profile G	Enable Onvif profile G
Media 2	Enable media 2
Intelligent Analysis Switch	Enable active onvif
Onvif only Https	Onvif can use a more secure HTTPS mode for connection, command interaction and video data transmission, which are transmitted in an encrypted way to enhance network security.
Stream only https	

Step 2 Click **Apply**.

A confirmation dialog appears. Click **Confirm** to restart the device and apply changes.

4.2.8 Set Multicast Parameters

Description

This section allows you to configure multicast streaming settings, including stream ID, video/audio ports, and source addresses for efficient data distribution across multicast-capable networks.

Procedure

Step 1 Navigate to **Setting > Network > Advanced Settings > Multicast Param.**

The **Multicast Param** page is displayed as shown in Figure 4-12. Table 4-9 describes the parameters on the **Multicast Param** page.

Figure 4-12 Multicast param page

The screenshot shows the D-Link web interface. The top navigation bar includes 'D-Link', 'Live View', 'Playback', 'IVS', 'Setting', and a user profile 'admin'. The left sidebar has 'Quick Start', 'System', 'Network', 'Settings', 'Advanced Settings', 'Video/Audio', 'Image', 'Event', and 'Storage'. The main content area is titled 'Multicast Param' and contains the following fields:

- Stream ID: A dropdown menu with the value '1' selected.
- Video Port: A text input field with '25330' and a range '(1025-65535)'.
- Video Address: A text input field with '238.255.255.255'.
- Metadata Port: A text input field with '25530' and a range '(1025-65535)'.
- Metadata Address: A text input field with '238.255.255.255'.

An 'Apply' button is located at the bottom of the form.

Table 4-9 Parameter description

Parameter	Description	Setting
Stream ID	ID for the stream.	[Setting method] Select a value from the drop-list box. [Default value] 1
Video address	IP address to receive video multicast data.	[Setting method] Enter a value manually. [Default value] 238.255.255.255
Video Port	Port for receiving video stream.	[Setting method] Enter a value manually. [Default value] 25330

Parameter	Description	Setting
Audio Port	Port for receiving audio stream.	[Setting method] Enter a value manually. [Default value] 25430
Metadata Port	Port for receiving source data.	[Setting method] Enter a value manually. [Default value] 25530
Metadata Address	IP address for receiving source data.	[Setting method] Enter a value manually. [Default value] 238.255.255.255

Step 2 Click **Apply**.

A confirmation message will appear. Settings take effect after the device restarts.

5 Configuration Video/Audio

5.1 Video

5.1.1 Set video

For detailed instructions on setting video parameters, please refer to **Chapter 2.2**

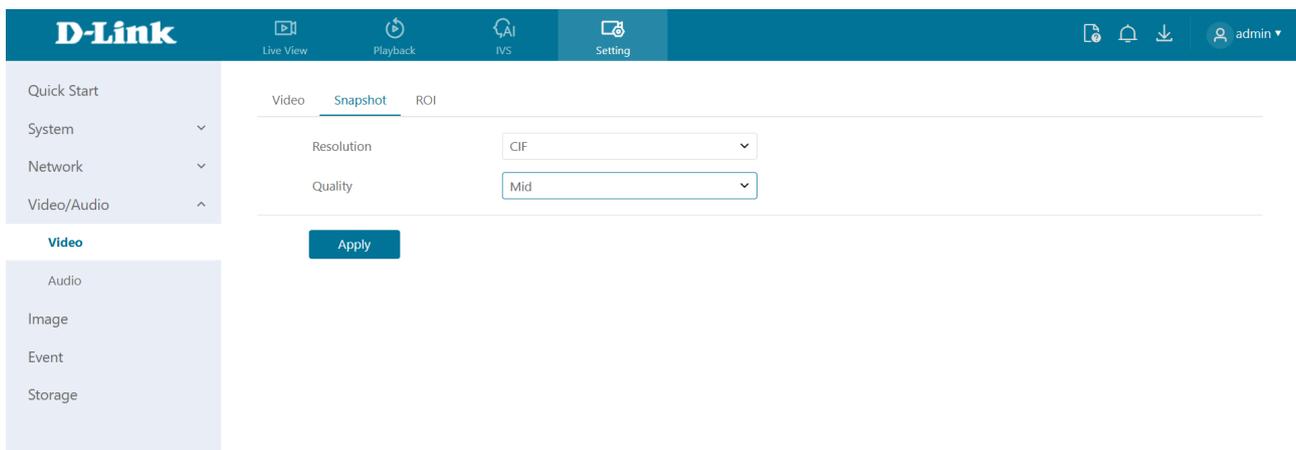
5.1.2 Snapshot

Procedure

Step 1 Navigate to **Setting > Video/Audio > Snapshot**.

The **Snapshot** configuration page is displayed, as shown in Figure 5-1.

Figure 5-1 Snapshot configuration page



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

Table 5-1 Parameters of snapshot configuration

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

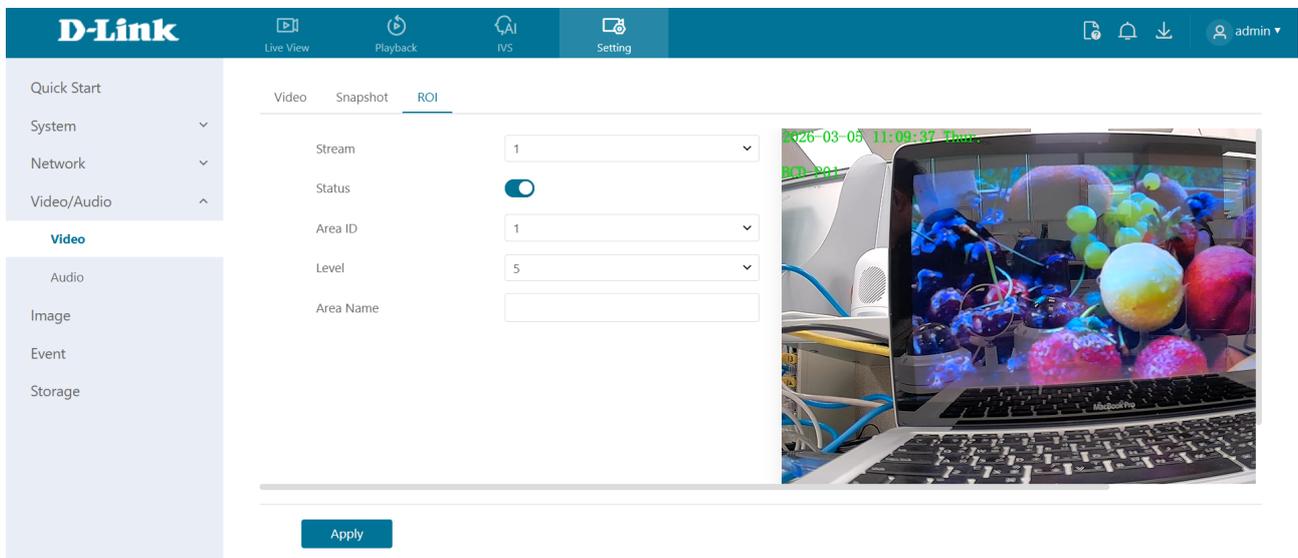
5.1.3 ROI Parameter

Procedure

Step 1 Navigate to **Setting > Video/Audio > Snapshot**.

The **Snapshot** configuration page is displayed as shown in Figure 5-2.

Figure 5-2 ROI configuration page



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

Table 5-2 Parameters of ROI

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

Parameter	Description	Setting
Level	The visual effect of ROI. The higher the level is, the clearer the area is; the more blurred outside the area.	[Setting method] Select a value from the drop-down list box. [Default value] 5
Area Name	The marked name used for areas.	[Setting method] Enter a value manually. The value cannot exceed 32 bytes.

Step 3 Click **Draw** to show the red frame, drag the four corners of rectangle to adjust the position.

Step 4 Click **Apply**.

If the message "**Apply success!**" is displayed, the settings have been saved.

5.2 Audio

5.2.1 Audio

Description

On this page, you can configure **audio input and output** settings, including type, volume, and noise reduction.

Procedure

Step 1 Navigate to **Setting > Video/Audio > Audio**. The **Audio Input** page is displayed, as shown in Figure 5-3. Table 5-3 describes the parameters.

Figure 5-3 Audio input page

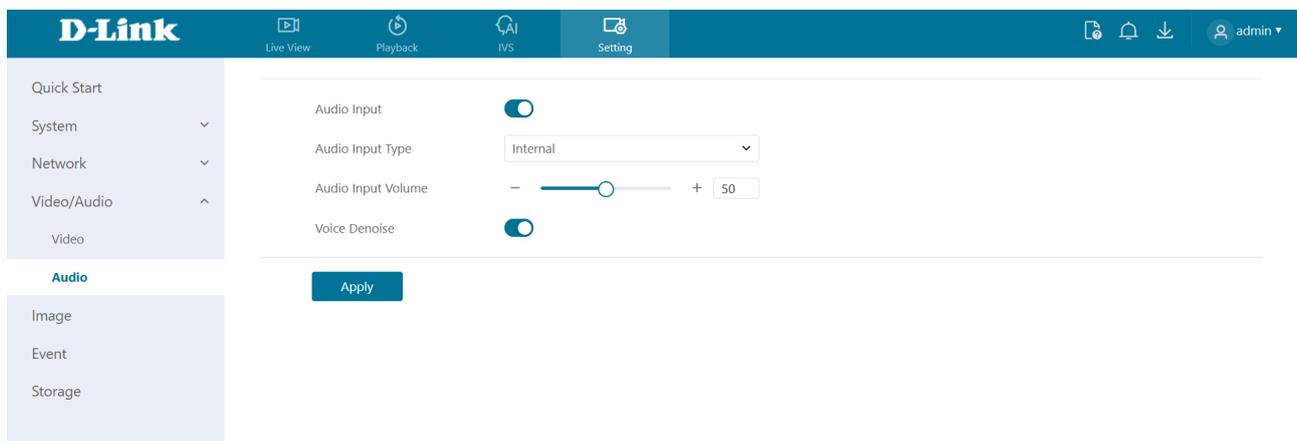


Table 5-3 Parameters of audio input

Parameter	Description	Setting
Enable Audio Input	Indicates whether to enable the audio input function.	[Setting method] Click the button on to enable audio input.
Audio Input Type	Audio input types include: Line In / Internal An active audio input is required.	[Setting method] Select a value from the drop-down list box.
Audio Input Volume	Allows you to adjust the audio input volume.	[Setting method] Slide the slider left or right. [Default value] 50 NOTE The value ranges from 0 to 100.
Enable Audio Output	Indicates whether to enable the audio output function.	[Setting method] Click the button on to enable audio output.
Audio Output Type	Microphone types include: <input type="checkbox"/> External An active audio output is required. Internal means the camera own speaker.	[Setting method] Select a value from the drop-down list box.
Audio output Volume	Allows you to adjust the audio output volume.	[Setting method] Slide the slider left or right. [Default value] 50 NOTE The value ranges from 0 to 100.
Voice Denoise	Reduces background noise on internal mic.	[Setting method] Click the button on to enable.

Step 2 Click **Apply**.

If "**Apply success!**" is displayed, the settings have been saved.

6 Configuration Image

6.1 Configure Display

For detailed information, please refer to **Chapter 2.3** .

6.2 Configure OSD

For detailed information, please refer to **Chapter 2.4**

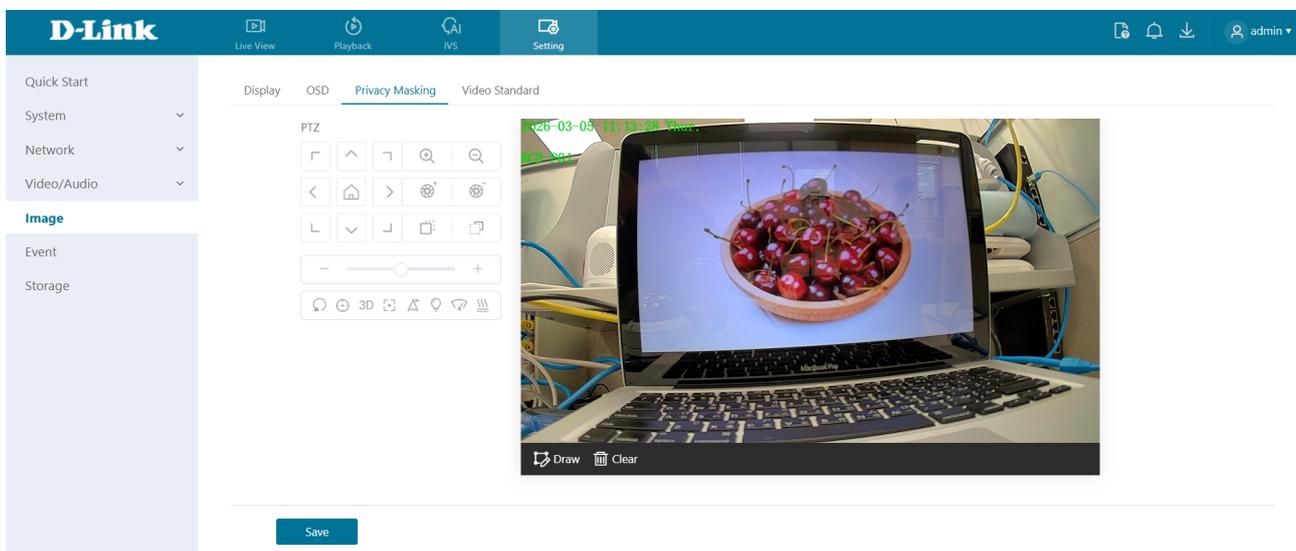
6.3 Configure the Privacy Mask

Procedure

Step 1 Navigate to **Setting > Image > Privacy Masking**.

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

Figure 6-1 Privacy masking page



Step 2 Click **Draw** to display a red frame over the video preview. Drag the four corners of the rectangle to adjust its position and size.

Step 3 Click **Clear** to remove the selected frame.

NOTE

- The maximum maskable area depends on the device model (refer to on-screen tips).
- You can mask up to **four areas**.
- To delete a masking area: Tick the corresponding ID in the **Privacy Masking List**, then click **Delete**.

Step 4 Set the parameters according to Table 6-1.

Table 6-1 Parameters of privacy masking

Parameter	Description	Setting
ID	Identifier for each masking area.	N/A
Name	Name for the masking area.	[Setting method] Click the name and enter a value manually. [Default value] Blank
Type	Type of privacy masking.	[Setting method] Select a value from the drop-down list box. [Default value] Color Block
Color	Color of privacy masking.	[Setting method] Select a value from the drop-down list box. [Default value] Black
Enable	Indicates whether to enable the privacy masking.	[Setting method] Select a value from the drop-down list box. [Default value] Yes
Delete	Delete a privacy masking.	[Setting method] 6. Select a privacy masking from the Privacy Masking List. 7. Click Delete , the privacy masking is deleted successfully
Modify	Modify a privacy masking.	[Setting method] 8. Select a privacy masking from the Privacy Masking List. 9. Click a parameter and modify it. 10. Click Modify , the privacy masking is modified successfully

Step 5 Click **Add** to add privacy masking.

6.4 Configure Video Standard

Procedure

Step 1 Navigate to **Setting > Image > Video Standard**.

The **Camera** page is displayed, as shown in Figure 6-2. Set the video format parameters according to Table 6-2.

Figure 6-2 Camera page

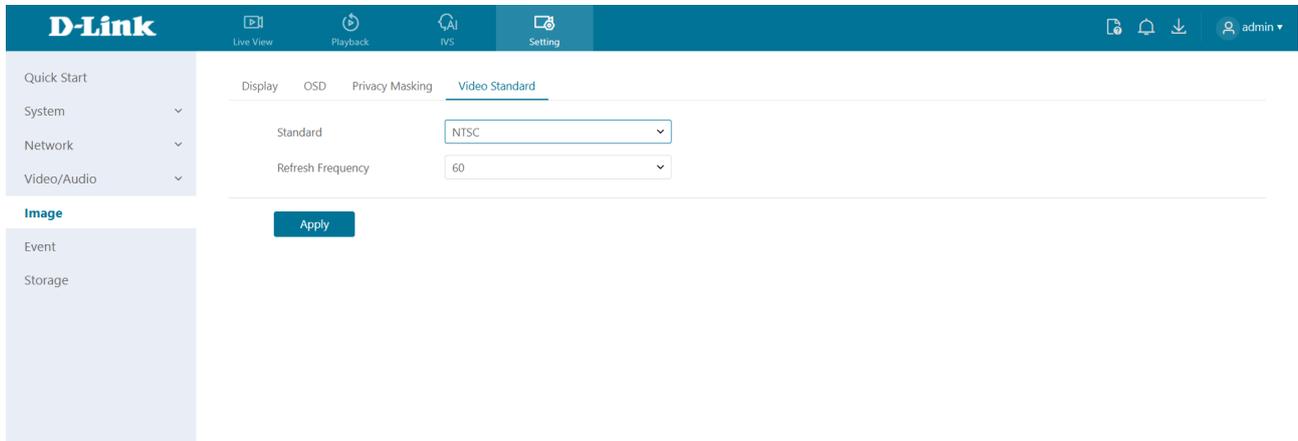


Table 6-2 Parameters of camera

Parameter	Description	Setting
Video System	<p>The options are as follows:</p> <ul style="list-style-type: none"> <input type="checkbox"/> PAL: Used in Europe and China mainland, India, Pakistan, etc. <input type="checkbox"/> NTSC: Used in USA, Japan, South Korea, and Taiwan, etc. 	<p>[Setting method] Select a value from the drop-down list box. [Default value] PAL NOTE Whether the video system can be changed depends on the device model.</p>
Video Refresh Frequency	<p>The options are as follows:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 50 Hz: corresponds to the PAL system. <input type="checkbox"/> 60 Hz: corresponds to NTSC system. 	<p>[Setting method] Follow the video standard.</p>

Step 2 Click **Apply**. If the message "**Apply success!**" is displayed, the settings are saved..

NOTE

If the message "**The device will restart, are you sure to modify?**" appears, confirm to proceed. The system will restart and apply the new video standard.

7 Configure Event

7.1 Motion Alarm

Description

The **Motion Alarm** page allows you to:

- Enable or disable motion detection.
- Configure detection schedules and areas.
- Link motion events to alarms (e.g., audible alerts, recordings, light signals).
- Trigger notifications via FTP or SMTP.

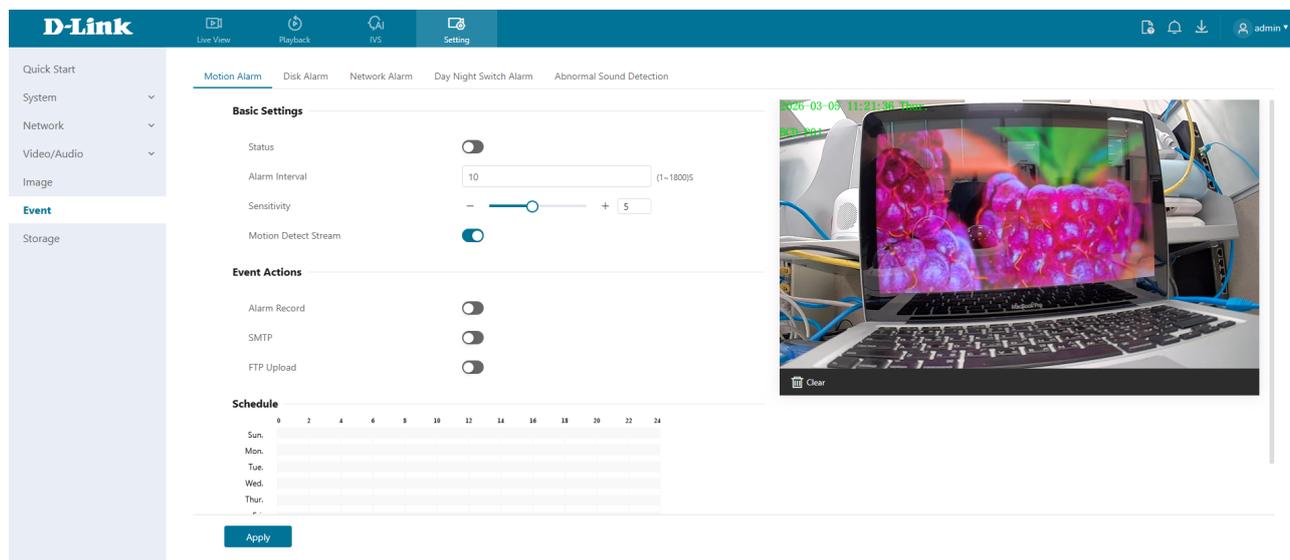
When motion is detected within a predefined area and schedule, the camera generates an alarm and triggers the configured linkage actions.

Procedure

Step 1 Go to **Setting > Event > Motion Alarm**.

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

Figure 7-1 Motion alarm page



Step 2 Configure all parameters, please refer to Table 7-1.

Table 7-1 Motion alarm parameters

Parameter	Description	Setting
Status	Enables or disables motion detection.	[How to set] Click Enable to enable. [Default value] OFF

Parameter	Description	Setting
Alarm Interval	Sets the time interval (1–1800 seconds) during which repeated alarms are suppressed.	[How to set] Input a value, 1~1800s
Sensitivity	Determines motion detection sensitivity. Higher values detect smaller movements but may reduce accuracy.	[How to set] Choose from the drop-down list [Default value] 5
Motion Detect Stream	Enables or disables motion detection.	[How to set] Click to enable [Default value] OFF
Alarm Record	Records alarm-triggered video to the SD card.	[How to set] Click to enable alarm record. [Default value] OFF
SMTP	Sends alarm notifications via email. SMTP must be configured..	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Uploads alarm snapshots to an FTP server. FTP must be configured.	[How to set] Click to enable FTP Upload. [Default value] OFF

Step 3 Enable **Motion Detect Stream** if you want to visualize object tracking during motion events.

Step 4 Configure Deployment Schedule.

Method 1: Click and drag within the time grid (00:00–24:00) from Monday to Sunday.

Method 2: Click **Select All** to apply full-time deployment for all days.

Method 3: Set one day's schedule and click the **Copy icon** to replicate it to other days.

Figure 7-2 Copy

Copy:

All

Sun.

Mon.

Tue.

Wed.

Thur.

Fri.

Sat.

OK

To delete all time slots, click **Clear All**.

To remove a specific time block, click it and then click **Delete**.

08:30 ~ 10:00 OK Delete

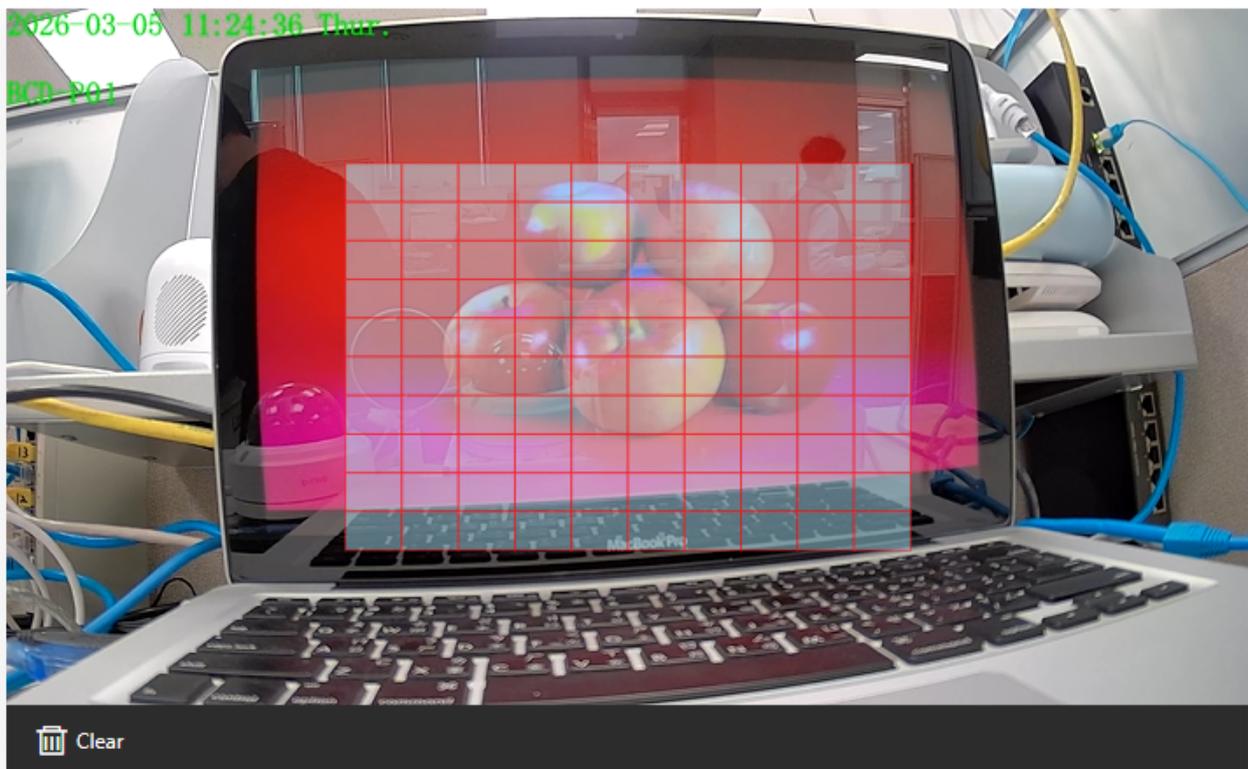
Configure the detection area.

Step 1 Press and hold the left mouse button and drag over the video preview to draw the detection zone (see Figure 7-3).

Step 2 To remove an area, click **Clear**.

Step 3 To disarm a specific block, click on the red grid square.

Figure 7-3 Motion area setting page



NOTE

Click **Clear** to delete a detection area. Click the red block to disarm this area.

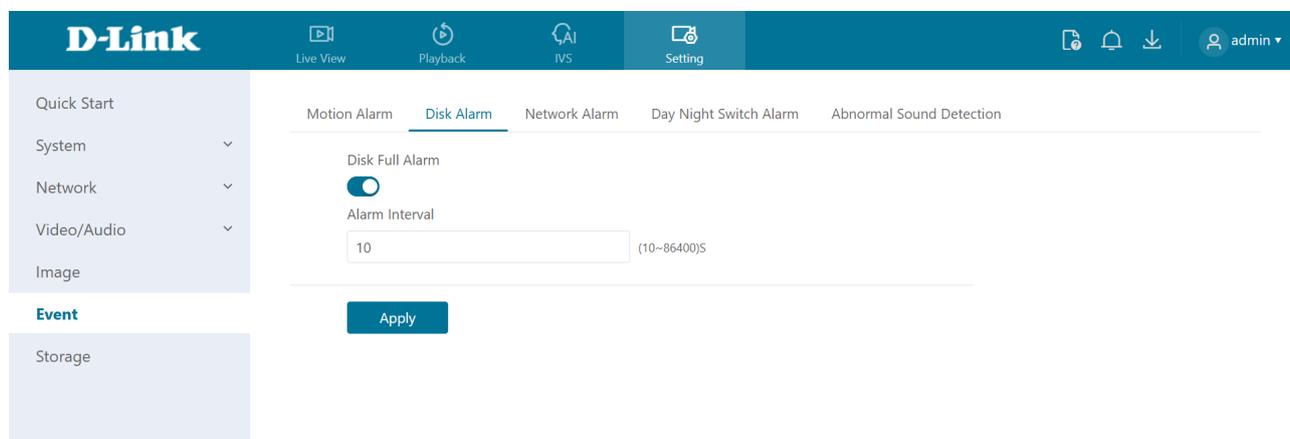
Step 4 If the message "**Apply success!**" is displayed, all configurations are saved successfully.

7.2 Disk Alarm

Procedure

Step 1 Navigate to **Setting > Event > Disk Alarm**. The **Disk Alarm** page is displayed, as shown in Figure 7-4.

Figure 7-4 Disk alarm page



Step 2 Click the toggle button on to enable disk alarm.

Step 3 Configure the **Alarm Interval**. This sets how often the system triggers alarms for disk issues. Enter a value in seconds (range: 10–86400).

Step 4 Select the **Out Channel** number (Please refer to the actual product).

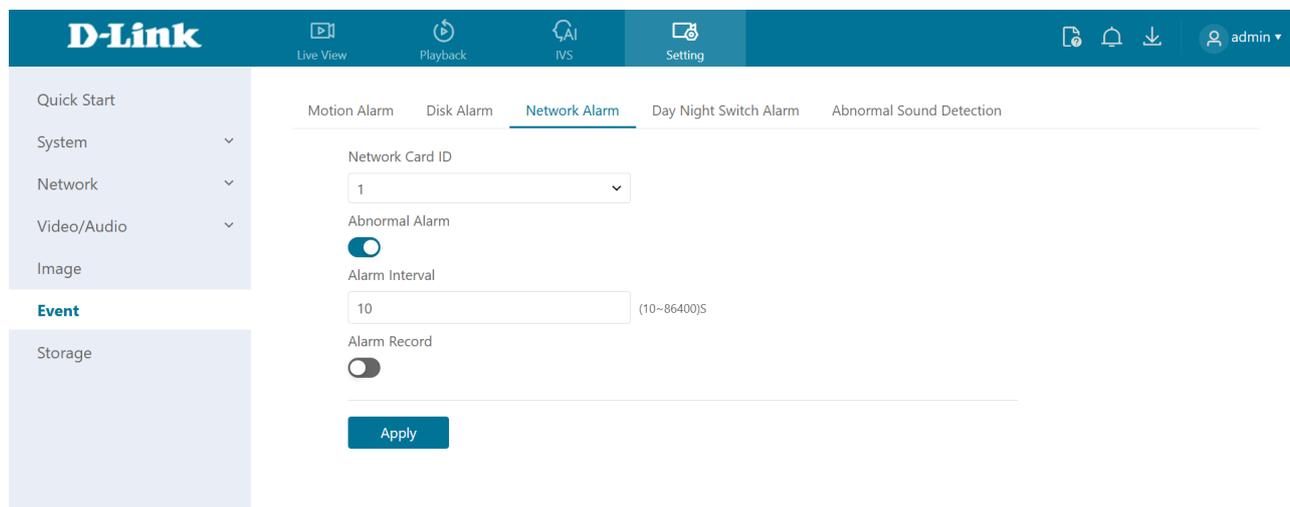
Step 5 Click **Apply**. When the message "**Apply success!**" appears, the configuration is saved.

7.3 Network Alarm

Procedure

Step 1 Navigate to **Setting > Event > Network Alarm**. The **Network Alarm** page is displayed, as shown in Figure 7-5.

Figure 7-5 Network alarm page



Step 2 Click the toggle button to enable **Abnormal Alarm**. The system will monitor the network interface for abnormalities.

- Step 3 Configure the **Network Alarm Interval**. Enter how frequently the system should check for network errors.
- Step 4 Select the **Output Channel** for alarm notifications. You may also enable **Alarm Record** if an SD card is installed.
- Step 5 Click **Apply**. A message stating "Apply success!" conforms that settings have been saved.

7.4 Day/Night Switch Alarm

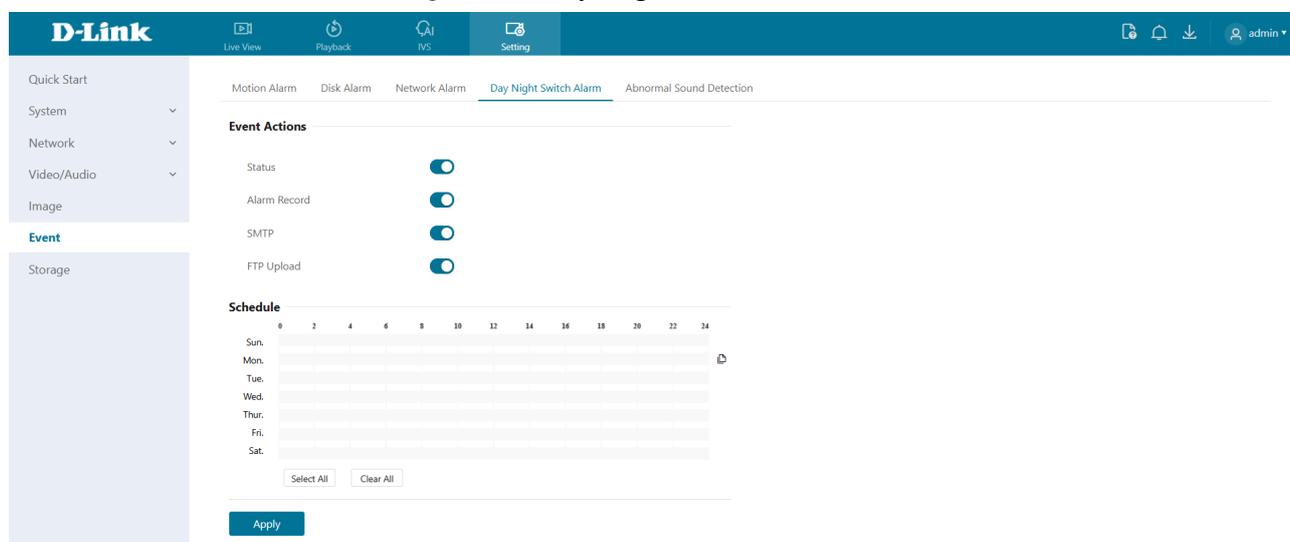
Description

The **Day/Night Switch Alarm** function triggers an alert whenever the camera switches between day and night modes according to the defined schedule.

Procedure

- Step 1 Navigate to **Setting > Event > Day/Night Switch Alarm**. The **Day/Night Switch Alarm** page is displayed, as shown in Figure 7-6.

Figure 7-6 Day/Night switch alarm



- Step 2 Click the toggle to **enable Day/Night Switch Alarm**.
- Step 3 Configure the **alarm schedule**.
Define the specific time ranges during which the alarm should be active.
- Step 4 Enable **Alarm Record** if you want the event recorded to an SD card.
Toggle the switch to activate.
- Step 5 Enable **SMTP** if you wish to receive an email notification.
SMTP must be configured under **Network > Advanced Settings > SMTP**.
- Step 6 Enable **FTP Upload** to send alarm data to an FTP server.
FTP must be pre-configured in system settings.
- Step 7 Click **Apply**.
When the message "**Apply success!**" appears, the settings are successfully saved.

7.5 Abnormal Sound Detection

The camera is equipped with a built-in microphone or supports external audio input (Line In). On the **Audio Abnormal Detection** page, you can perform the following actions:

- Enable the **Abnormal Sound Detection** function.
- Set the schedule during which abnormal sound detection is active.
- Configure the alarm output channel for abnormal sound events.

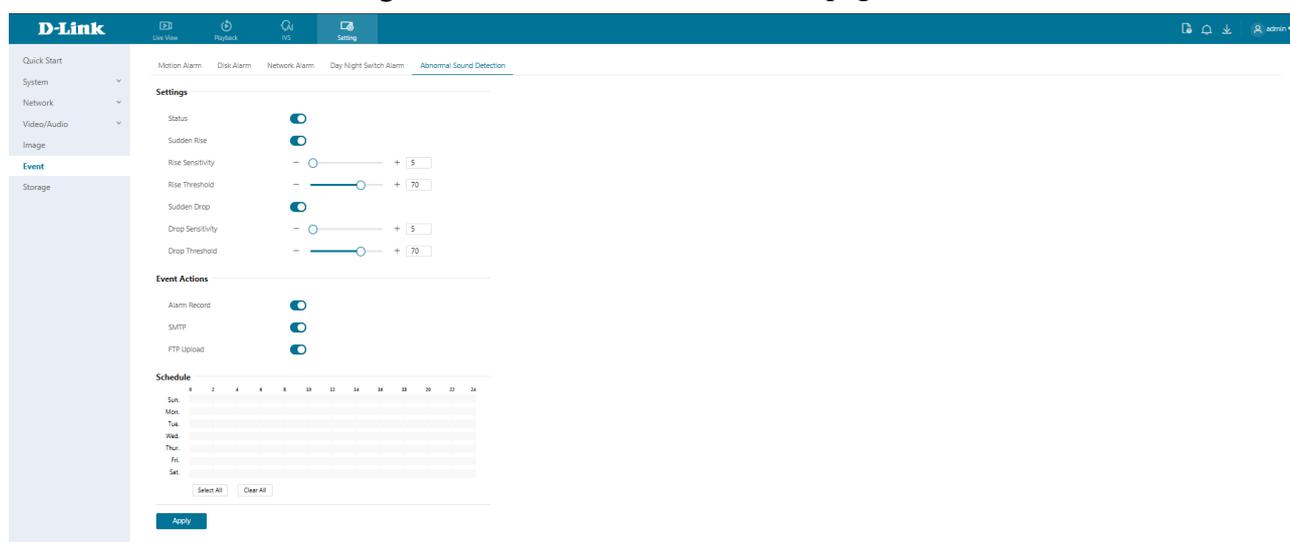
When this function is enabled and a sudden rise or drop in audio levels is detected during the scheduled time, the camera triggers an alarm and executes the corresponding linkage actions.

Procedure

Step 1 Navigate to **Setting > Event > Abnormal Sound Detection**.

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

Figure 7-7 Audio abnormal detection page



Step 2 Click the toggle button to **enable Audio Abnormal Detection**.

Step 3 Enable either or both of the following:

Sudden Rise — detects sharp increases in sound level.

Sudden Drop — detects sharp decreases in sound level.

Step 4 Select the **Output Channel** for triggering the external alarm.

Step 5 Click the toggle button on to enable **Alarm Record**, **SMTP**, **FTP Upload**.

Step 6 Configure the **Schedule** (deployment time). For details about how to set **Schedule**, please refer to Section 7.1 Step 4.

8 Configure Storage Function

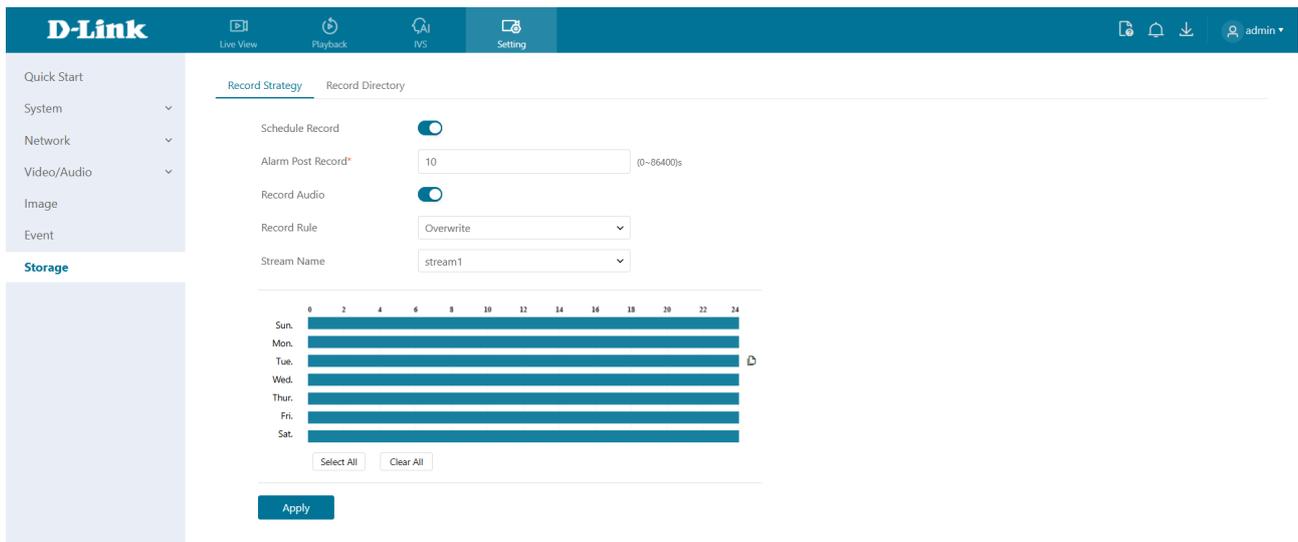
8.1 Record Strategy

You can configure the scheduled recording, alarm recording duration, audio recording, storage rules, and stream selection.

Procedure

Step 1 Navigate to **Setting > Storage > Record Strategy**. The **Record Strategy** page is displayed, as shown in Figure 8-1.

Figure 8-1 Record strategy page



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

Table 8-1 Parameters of recording policy

Parameter	Description	Setting
Schedule Record	Enables time-based recording.	[Setting method] Click the button on to enable schedule record. [Default value] OFF
Alarm Post Record	Time in seconds to continue recording after an alarm. (0–86400 sec)	[Setting method] Enter a value manually.
Record Audio	Records audio along with video.	[Setting method] Click the button on to enable record audio.
Record Rule	Rule for saving recordings. The options are as follows: <input type="checkbox"/> Overwrite: Saves recordings in cycles. <input type="checkbox"/> Retention: Duration (in days) for saving a recording. The duration can be a maximum of 360 days. NOTE The value 0 indicates that recordings are not overwritten.	[Setting method] Select a value from the drop-down list box.

Parameter	Description	Setting
Stream Name	Specifies the stream used for recording.	[Setting method] Select a value from the drop-down list box.

Step 3 Configure the **Schedule** (deployment time). Refer to Section 7.1 Step 4.

Step 4 Click **Apply**.

If the message "Apply success!" appears, settings are saved successfully.

If other information is displayed, set the parameters correctly.

8.2 Record Directory

Description

Recordings can be saved to an **SD Card**, **FTP**, or **NAS** (Network Attached Storage), depending on your device model.

Procedure

Step 1 Go to **Setting > Storage > Record Directory**.

The **Record Directory** page will appear, as shown in Figure 8-2.

Figure 8-2 Record directory page

Disk Type	Disk ID	Group ID	Status	Total Space(MB)	Free Space (MB)	Threshold(%)	Tips	Operate
SD Card	1	1	Disable	0	0	100	N/A	
FTP	2	1	Disable	65535	64681	100	N/A	
NAS	3	1	Enable	0	0	100	Camera Con...	

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

Table 8-2 Parameters of Record directory

Parameter	Description	Setting
Disk Type	Recording device type (e.g., SD card, FTP, NAS).	[Setting method] The parameter cannot be set manually.
Disk ID	Identification number of the disk.	
Group ID	Group assignment ID.	

Parameter	Description	Setting
Enable	Enables selected storage.	
Total Space (MB)	Total capacity of the storage device.	
Free Space (MB)	Remaining usable space.	
Threshold (%)	Triggers alarm when used space exceeds this threshold.	
Tips	Shows connection status of the storage device.	

Step 3 Click **Modify** to update directory parameters.
(See Figure 8-3).

Figure 8-3 Record path modify

Record Strategy Record Directory

Record Path Modify

SD Card

Disk ID 1

Total Space(MB) 59520

Threshold (1~100)

Cancel Format **Modify**

8.2.2 Configure the SD Card

Procedure

Step 1 Go to **Setting > Storage > Record Directory**

Step 2 Select SD Card, then click the edit icon.

Step 3 Set parameters as Table 8-3.

Table 8-3 Parameters of SD card recording

Parameter	Description	Setting
SD Card	Enables SD card recording.	[Setting method] Click button to enable SD card.
Disk ID	Identifier of the SD card.	N/A

Parameter	Description	Setting
Total Space(MB)	Total disk capacity.	[Setting method] The parameter cannot be set manually.
Alarm Threshold (1-100)	Set alert threshold for used space (1–100).	[Setting method] Enter a value from 1-100.

Step 4 Click **Apply**.

Message "**Apply success!**" confirms the settings are saved.

8.2.3 Configure the FTP

Procedure

Step 1 **Step 1:** Navigate to **Setting > Storage > Record Directory**.
Ensure **SD card type is OFF**.

Step 2 **Step 2:** Choose **FTP** and click the **edit icon**.

The **FTP Record Path Modify** page appears (see Figure 8-4).

Figure 8-4 FTP record path modify page

Record Strategy [Record Directory](#)

Record Path Modify

FTP

Mode

IP Address

Port

Path (Composed of numbers, letters, and underscores starting with / or \)

User Name

Password

Total Space(MB) (2048~999999999)

Step 3 Set the parameters according to Table 8-4.

Table 8-4 Parameters of FTP recording

Parameter	Description	Setting
FTP	Enables recording to an FTP server	[Setting method] Enable

Parameter	Description	Setting
IP Address	IP address of FTP server.	[Setting method] Enter a value manually.
Port	Communication port for FTP.	[Setting method] Enter a value manually.
Path	FTP Directory path to store recordings.	[Setting method] Enter a value manually.
User Name	FTP server account.	[Setting method] Enter a value manually.
Password	FTP server password.	[Setting method] Enter a value manually.
Confirm	Confirm the password.	[Setting method] Enter a value manually.
Free Space (MB)	Available space on FTP server.	[Setting method] Enter a value.
FTP over SSL / TLS (FTPS)	Available space on FTP server.	[Setting method] Tick

Step 4 Click **Apply**. A message stating "**Apply success!**" confirms your settings.

8.2.4 Configure the NAS

Procedure

- Step 1 Navigate to **Setting > Storage > Record Directory**.
Ensure **SD card type** is **OFF**.
- Step 2 Choose **NAS** and click the **edit** icon.
The **NAS Record Path Modify** page is displayed (see Figure 8-5).

Figure 8-5 NAS record path modify page

Record Strategy Record Directory

Record Path Modify

NAS

IP Address

Path

User Name

Password

Confirm

File System

Step 3 Set the parameters according to Table 8-5.

Table 8-5 Parameters of NAS recording

Parameter	Description	Setting
NAS	Enables video storage to NAS.	[Setting method] Enable
IP Address	IP address of the NAS server.	[Setting method] Enter a value manually.
Path	IP address of NAS device.	[Setting method] Enter a value manually.
User Name	NAS device account.	[Setting method] Enter a value manually.
Password	NAS device Password.	[Setting method] Enter a value manually.
Confirm	Confirm the password.	[Setting method] Enter a value manually.
File System	Choose between CIFS and NFS protocols.	[Setting method] Choose from drop-down list. [Default value] cifs

Step 4 Click **Apply**. The message "**Apply success!**" confirms the settings have been stored.

9.1 Configure Deep Learning

9.1.1 AI Multi-Target

Step 1 Navigate to **IVS > Deep Learning > AI Multi-Target**. The **AI Multi-Target** to set page is displayed as shown in Figure 9-1.

Figure 9-1 AI Multi-Target page

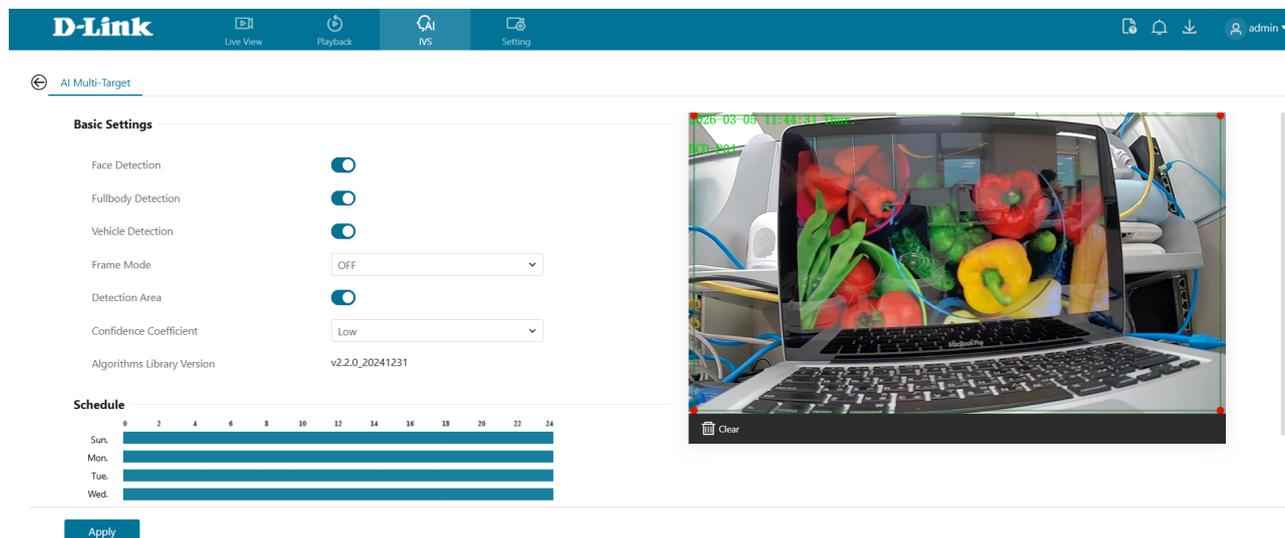


Table 9-1 lists the AI Multi-Target parameters.

Table 9-1 Parameters of AI Multi-Target

Parameter	Description	How to set
Face Detection	Enables face capture when a person appears in the live video.	Enable
Full body Detection	Enables full-body capture when a person appears.	Enable
Vehicle Detection	Captures vehicle when it appears in the video feed.	Enable
Frame Mode	Display box style in live view: Full Frame, Four-Corner Frame, Mosaic, or OFF. Full frame:  Four-Corner Frame: 	Choose from drop list.

Parameter	Description	How to set
Detection Area	Shows detection area on the live video feed.	
Confidence Coefficient	Sets detection confidence (High, Mid, Low). Higher = better accuracy.	Choose from drop list.

Step 2 Set the **deployment schedule**. Refer to **Section 7.1 Step 4**.

Step 3 Click **Apply**. The message "**Apply succeed!**" confirms that settings are saved.

9.2 Configure Intelligent Analysis

9.2.1 Intrusion

Description

Generates an alarm when a target (person or vehicle) enters a defined detection area.

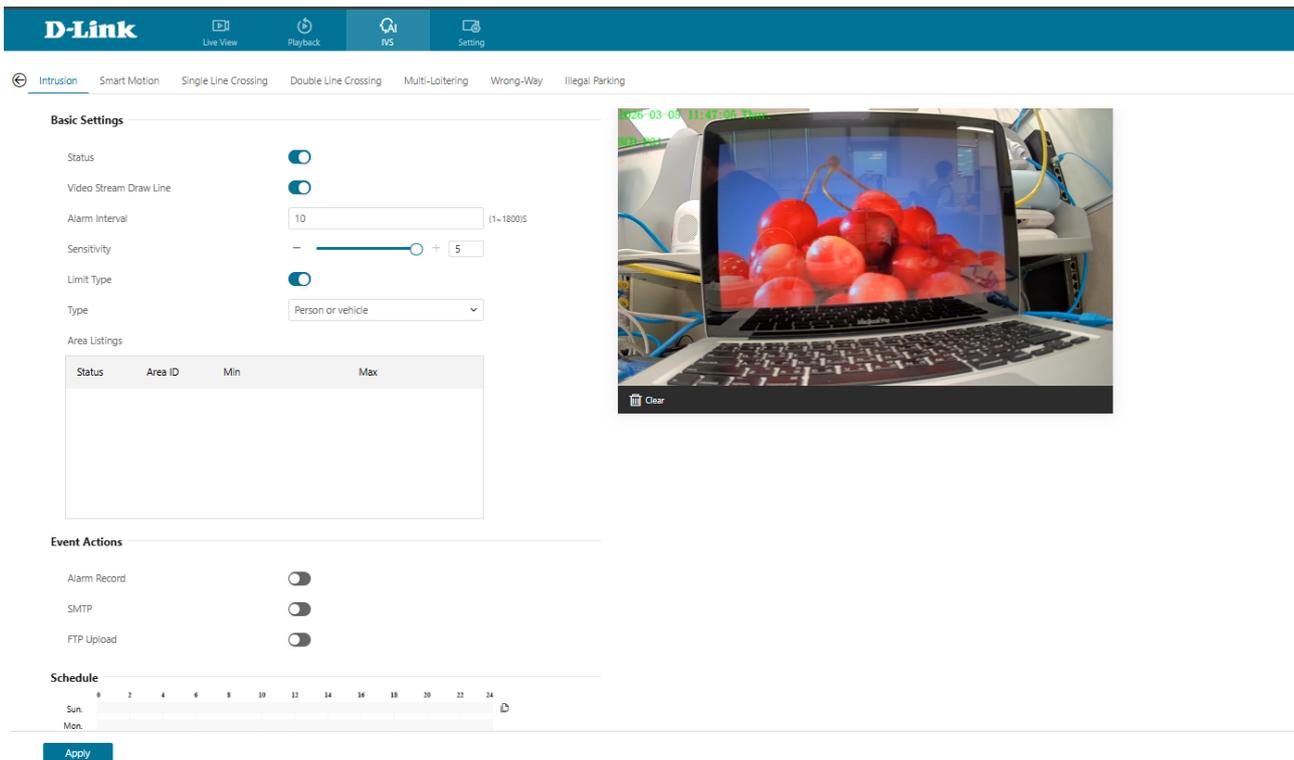
Procedure

Step 1 Go to **IVS > Intelligent Analysis > Intrusion**.

The **Intrusion Settings** page appears (see Figure 9-2).

Step 2 Set the intrusion parameters as listed below.

Figure 9-2 Intrusion settings page



Step 3 Set all parameters of intrusion. Table 9-2 describes the specific parameters.

Table 9-2 Intrusion parameter description

Parameter	Description	Setting
Status	Enables the intrusion alarm.	[How to set] Click the button on. [Default value] OFF
Alarm Interval	Time interval (in seconds) during which identical alarms will not be repeated (1–1800s).	[How to set] Input a value, 1~1800s
Sensitivity	Higher sensitivity increases detection but reduces accuracy.	[How to set] Choose from the drop-down list [Default value] 5
Limit Type	Choose detection target: Person, Car, or Both.	[How to set] Click the button on. [Default value] OFF
Area Listings	Set the areas will show in listings. Tick the status, the min and max detecting area show on area, you can drag the point to adjust the size of the detecting area, or modify the value directly.	[How to set] Set the detecting area.
Alarm Record	The device will record alarm with SD card.	[How to set] Click to enable alarm record. [Default value] OFF
SMTP	Enable the button to enable SMTP serve.	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol.	[How to set] Click to enable FTP Upload. [Default value] OFF

Step 4 Set a deployment area.

To configure the detection area:

Step 1 **Move the cursor** to the drawing interface.

Step 2 **Click to create a point**—this marks the starting vertex of the area.

Step 3 **Move the cursor and click again** to create the next point, forming a line segment.

Step 4 **Repeat** this process to form a polygon that outlines the detection area.

Step 5 Once your shape is complete, **right-click** to finish the drawing.

Note:

- Lines cannot intersect each other.
- Each shape can have **up to 8 sides**.
- You can draw **up to 8 separate detection areas**.

See **Figure 9-3** for a visual reference of the drawing interface.

Figure 9-3 Deployment area setting page



9.2.2 Smart Motion

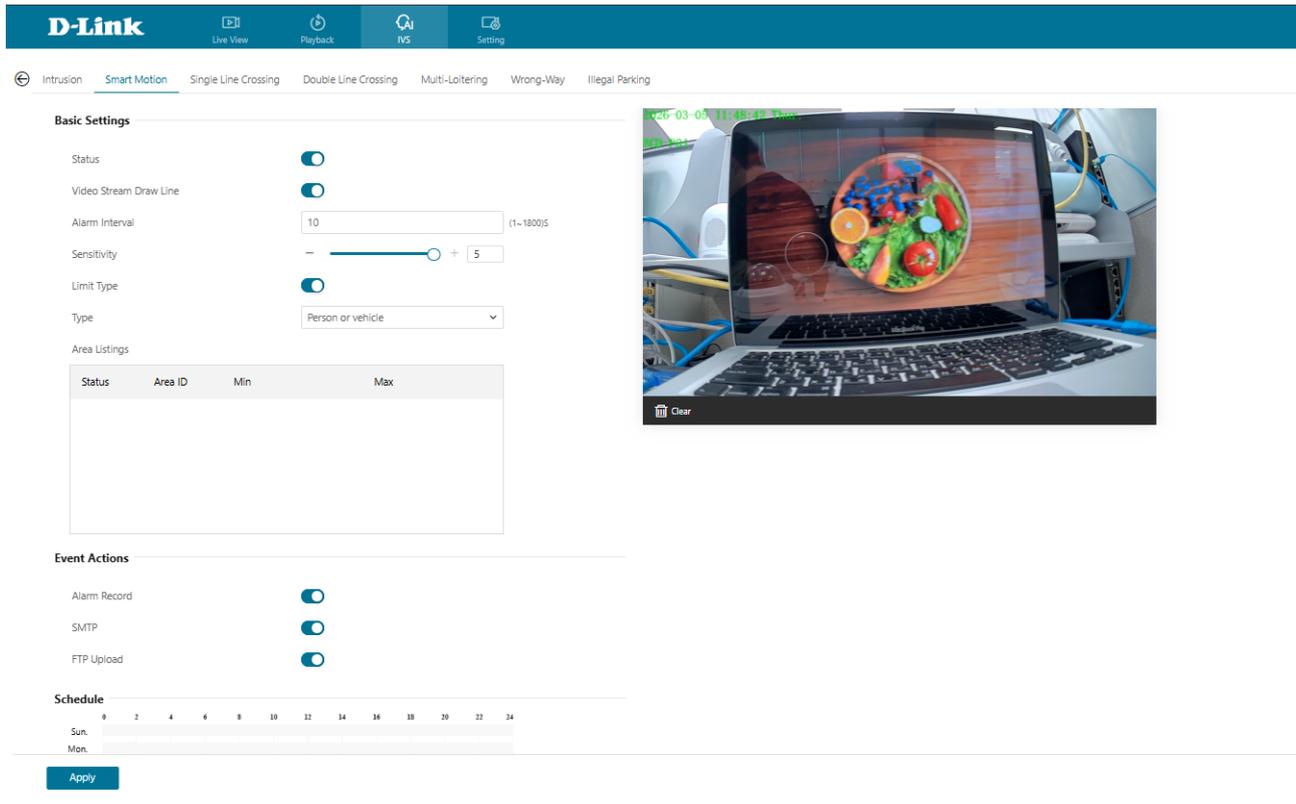
Description

Smart motion detection generates an alarm when specified target objects—such as people, vehicles, or both—move within a predefined area.

Procedure

Step 1 Go to **IVS > Intelligent Analysis > Smart Motion**. The **Smart Motion settings** page appears as shown in Figure 9-4.

Figure 9-4 Smart motion settings page



Step 2 Configure all parameters. Refer to section 9.2.1 Step 3 for details

Step 3 Define the **detection area**:

- Move the cursor to the live view.
- Click to place the first point.
- Continue clicking to form a polygonal area.
- **Right-click** to finish drawing.

NOTE

- Lines **must not intersect**.
- You can draw a shape with up to **8 sides**.
- You can define up to **8 deployment areas**.

Step 4 Set the deployment time. Refer to Section 7.1 Step 4 for more detail..

Step 5 Click **Apply**. A message "Apply success!" will confirm that the settings have been saved.

9.2.3 Single Line Crossing

Description

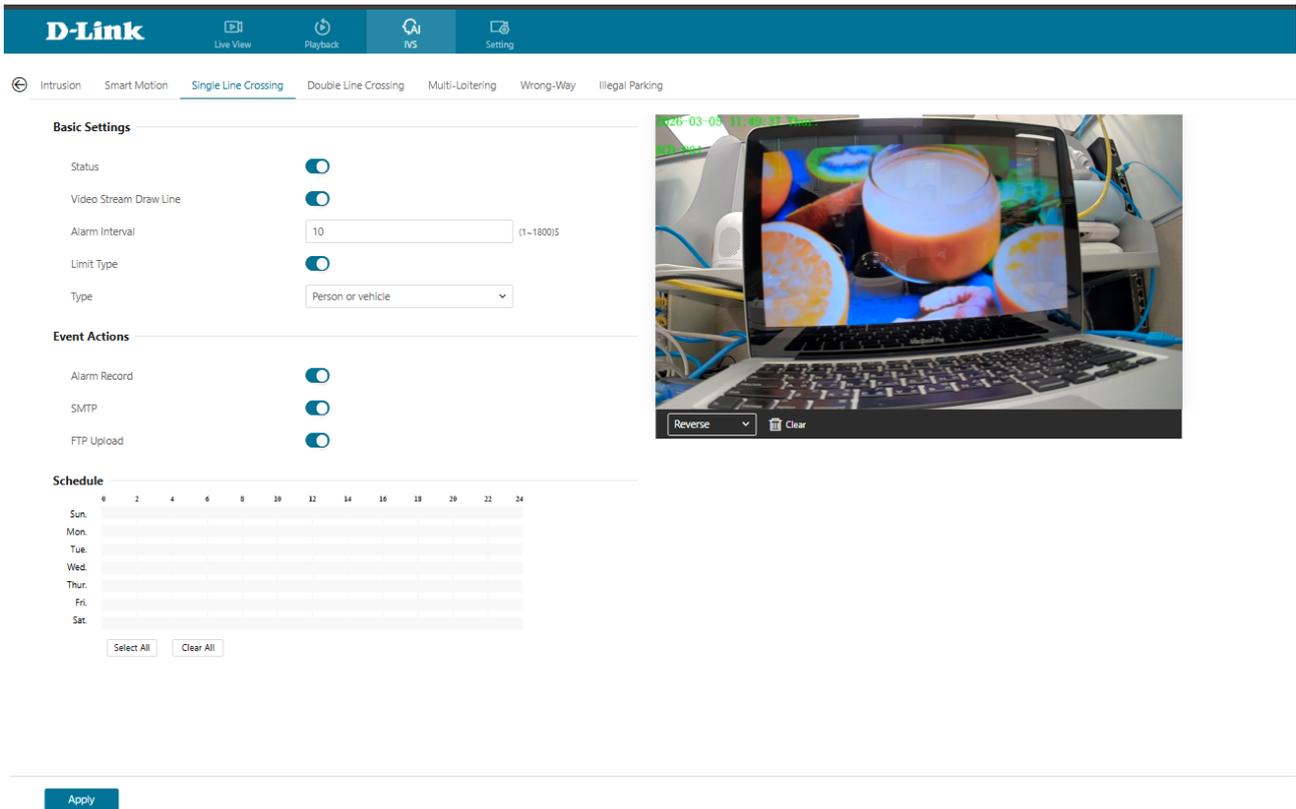
Single line crossing detection monitors a virtual line placed in the camera's field of view. An alarm is triggered when a target (such as a person or vehicle) crosses the line in a specified direction.

Procedure

Step 1 Go to **IVS > Intelligent Analysis > Single Line Crossing**.

The **Single Line Crossing** settings page appears, as shown in Figure 9-5.

Figure 9-5 Single line crossing setting interface

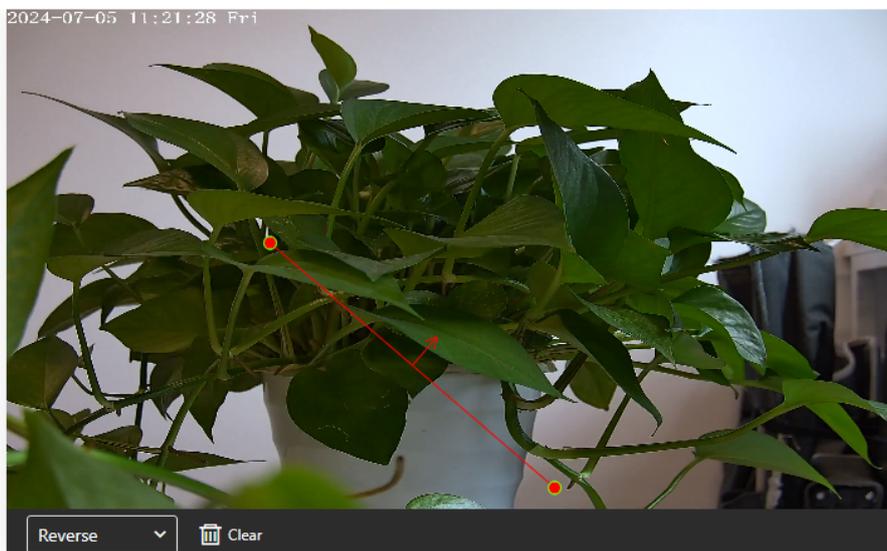


Step 2 Set all parameters of the single line crossing, please refer to 9.2.1 Step 3.

Step 3 Draw and configure the crossing line:

- Hold down the **left mouse button** and draw a straight line.
- Release the button to create the single line crossing.
- **Click** the line to select it (it turns red when selected).
- Set the direction: **Positive**, **Reverse**, or **Bidirectional**.
- To reposition the line, drag from either endpoint.
- **Right-click** to delete the line, as shown in Figure 9-6.

Figure 9-6 Deployment area setting page



 **NOTE**

- Draw the line toward the center of the screen for better recognition timing.
- Ensure the line is long enough short lines may miss detection, especially for targets recognized by foot position.

Step 4 Set the deployment time. Refer to section 7.1 Step 4.

Step 5 Click **Apply**. A message "Apply success!" will confirm that the settings have been saved.

9.2.4 Double Line Crossing

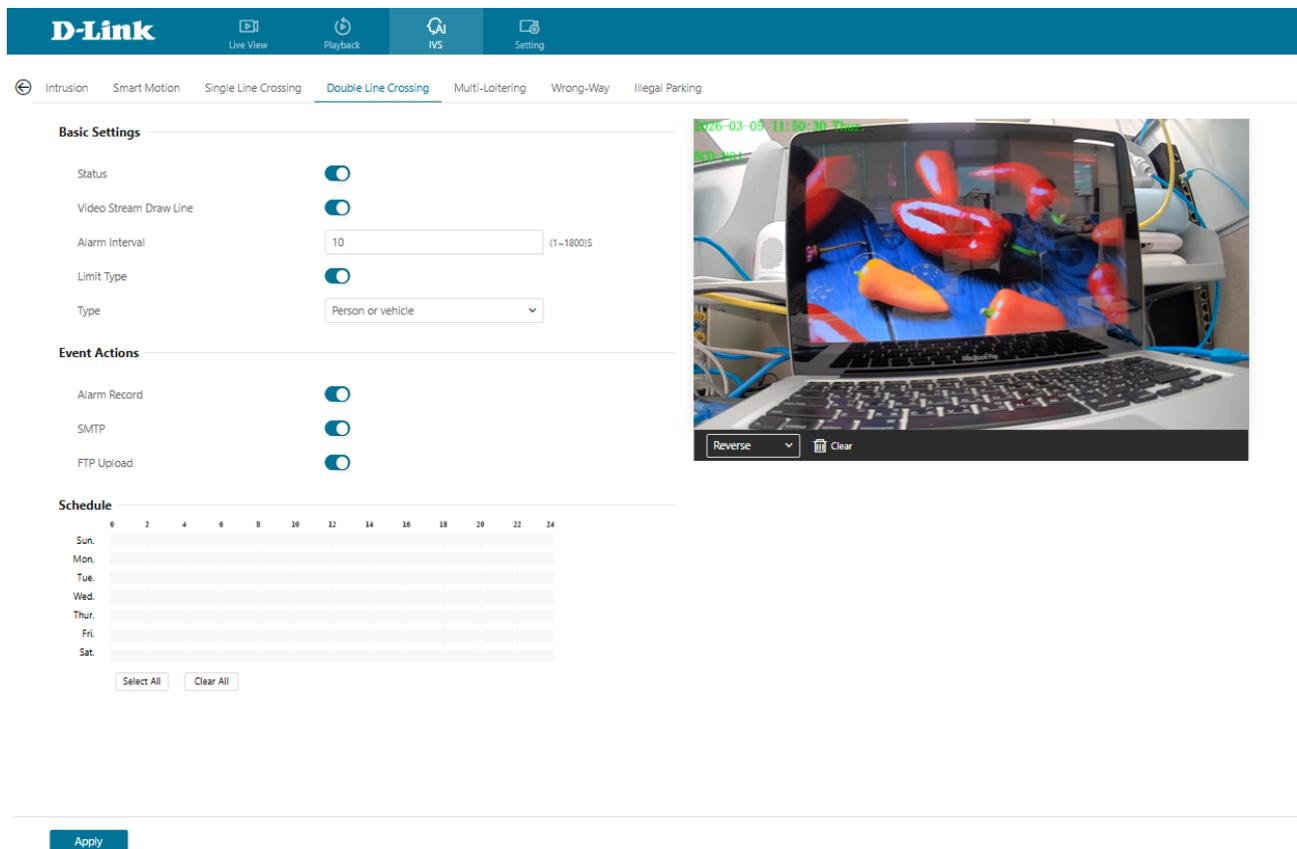
Description

Double line crossing defines two virtual lines in the monitored area. An alarm is triggered when a target (such as a person or vehicle) crosses both lines in a specific direction and order—first Line 1, then Line 2—within a predefined time frame.

Procedure

Step 1 Navigate to **IVS > Intelligent Analysis > Double Line Crossing** to access the **Double Line Crossing** setting interface, as shown in Figure 9-7.

Figure 9-7 Double line crossing settings interface



Step 2 Set all parameters of the double line crossing, please refer to 9.2.1 Step 3. Define the deployment area.

- **Drawing lines:** Hold down the **left mouse button** and draw two lines in sequence. Release to generate two virtual fences labeled "1" and "2."
- **Setting direction:** Click on either fence (it will turn red when selected). Choose **Positive** or **Reverse** direction from the drop-down.

- **Editing lines:** Drag the endpoints to adjust the size or position. Right-click to delete a line, as shown in Figure 9-8.

Figure 9-8 Deployment area settings page



NOTE

- The system recognizes a valid crossing only if **Virtual Fence 1** is crossed **before Virtual Fence 2**.
- Draw the fences toward the **center** of the screen to ensure the target is fully recognized before crossing.
- The fence **length must be sufficient** for reliable foot-based detection.
- Direction cannot be manually adjusted other than by selecting **Reverse**.

Step 3 Set the deployment time. Refer to Section 7.1 Step 4.

Step 4 Click **Apply**. A message saying "Apply success!" confirms that the settings have been saved.

9.2.5 Multi-Loitering

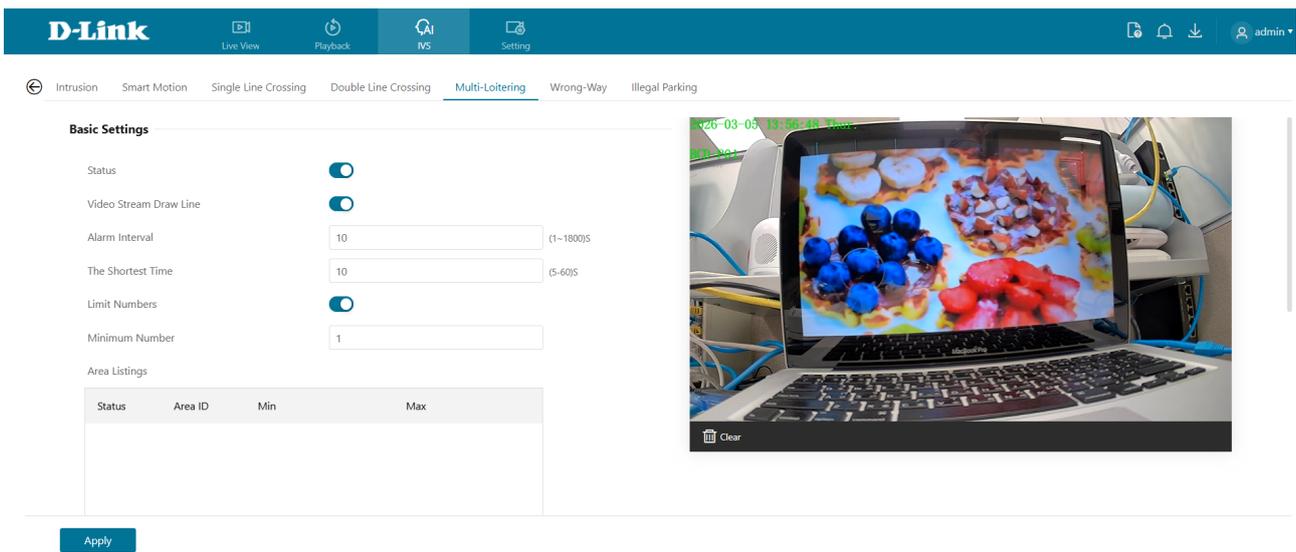
Description

Multi-loitering detection triggers an alarm when multiple targets (e.g., persons or vehicles) remain in a defined area longer than a specified minimum loitering time.

Procedure

Step 1 Navigate to **IVS > Intelligent Analysis > Multi-Loitering** to access the **Multi-Loitering** setting interface, as shown in Figure 9-9.

Figure 9-9 Multi-Loitering setting page



Step 2 Set all parameters of multi-loitering, please refer to 9.2.1 Step 3.

Step 3 Set a deployment area:

- Move the cursor and **click** to define points.
- Click again to add vertices and create a polygon.
- **Right-click** to complete the shape, as shown in Figure 9-10.

Figure 9-10 Deployment area settings page



 **NOTE**

- A Lines cannot cross each other.
- You may define up to 8-sided shapes.
- A maximum of 8 deployment areas is supported.

Step 4 Set the deployment time. Refer to section 7.1 Step 4.

Step 5 Click **Apply**. The he system will save the configuration and display "Apply success!"

9.2.6 Wrong-Way

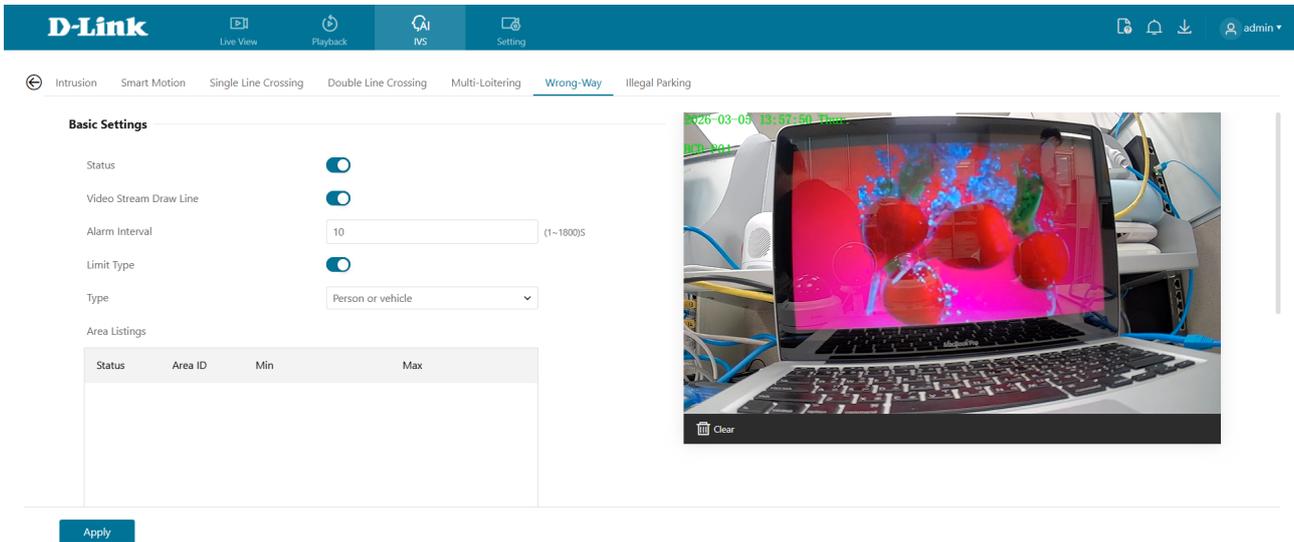
Description

Wrong-Way monitors directional movement within a designated area. An alarm is triggered when a target (such as a person or vehicle) moves in the opposite direction of the configured travel path.

Procedure

Step 1 Navigate to **IVS > Intelligent Analysis > Wrong-Way** to access the Wrong-Way settings interface, as shown in Figure 9-11.

Figure 9-11 Wrong-Way settings page



Step 2 Set all parameters of Wrong-Way, please refer to 9.2.1 Step 3.

Step 3 Define the deployment area.

- Move the cursor on the video interface and click to create a point.
- Continue clicking to form lines and enclose a custom shape.
- Right-click to finish the area drawing.
- Use the **arrow tool** within the field to define the reverse direction of travel, as shown in

Figure 9-12.

Figure 9-12 Deployment area setting interface



NOTE

- Lines **must not intersect**, or the drawing will fail.
- A **maximum of 8 sides per shape** and **up to 8 zones** are supported.

Step 4 Set deployment time, please refer to Section 7.1 Step 4.

Step 5 Click **Apply**. The system will save your settings and display the message "**Apply success!**".

9.2.7 Illegal Parking

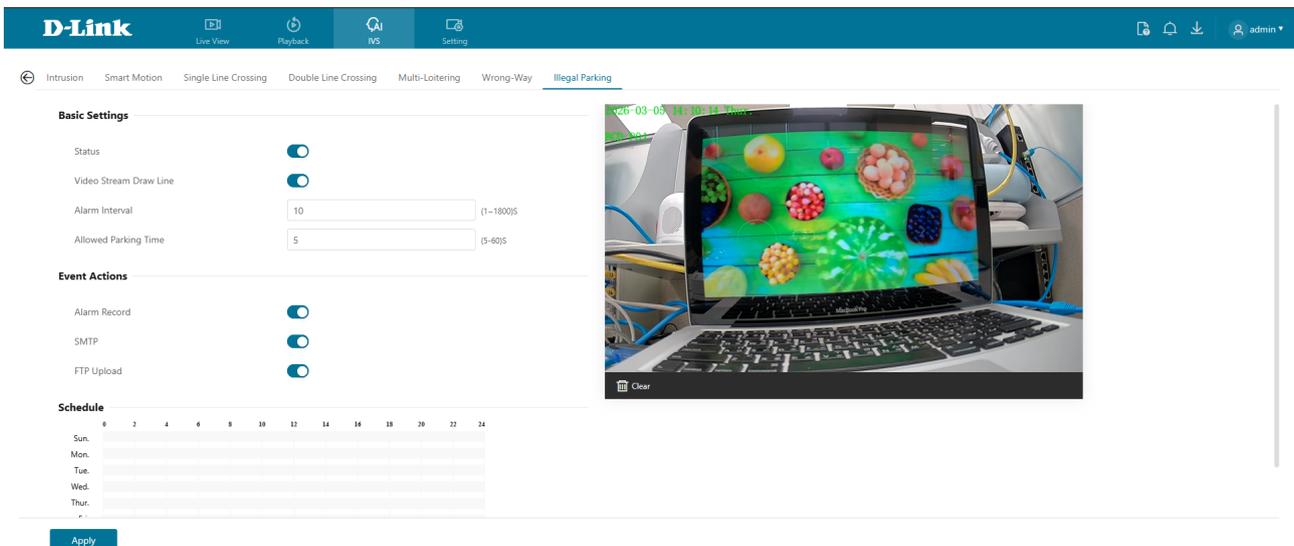
Description

This function generates an alarm when a vehicle remains in a designated detection area longer than the allowed parking time.

Procedure

Step 1 Navigate to **IVS > Intelligent Analysis > Illegal Parking**, as shown in Figure 9-13.

Figure 9-13 Illegal parking settings page



Step 2 **Configure the following parameters:**

(Refer to Section 9.2.1 Step 2 for details on parameter settings such as sensitivity, interval, and output actions.)

Step 3 **Set a Deployment Area:**

- Use the mouse to draw a region on the live video feed.

Step 4 **Set the Schedule Time:**

- See Section 7.1 Step 4 for instructions on setting active monitoring times.

Step 5 **Click Apply**

- A confirmation message "**Apply success!**" will confirm that the settings have been saved.

9.3 Configure People Counting

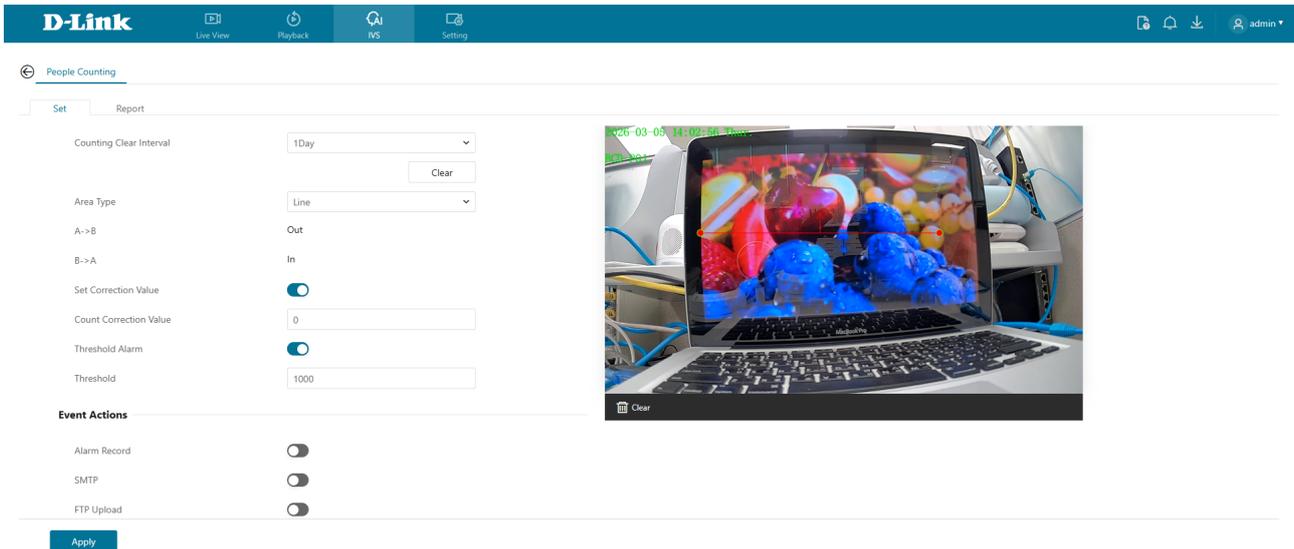
9.3.1 Setting

People Counting allows the camera to count entries and exits across a defined line in the monitored area. This is useful for analyzing foot traffic.

Procedure

Step 1 Navigate to **IVS > Behavior Analysis > People Counting** to access the **People Counting** setting interface, as shown in Figure 9-14.

Figure 9-14 People counting page



Step 2 Set all parameters of illegal parking. Table 9-3 describes the specific parameters.

Table 9-3 Parameters of people counting

Parameter	Description	Setting
Status	Enables the button to enable the alarm.	[How to set] Click the button on. [Default value] OFF
OSD Enable	Enable the OSD, the count data will show on live video screen.	[How to set] Click the button on. [Default value] OFF
Counting Clear Interval	Automatically resets the count at set intervals (e.g., 10 min, 1 hour, etc.). Manual reset also available via Clear Counting .	[How to set] Choose from drop-down list. [Default value] 12 hours

Parameter	Description	Setting
Area Type	Defines the counting method (e.g., line). Labels A and B indicate "In" and "Out."	[How to set] Choose from drop-down list. [Default value] Line
Set Correction Value	Enable, set the count correction value, it can be positive or negative. For example, if there are 30 people enter the area before counting, input 30 to correct. If 30 people go out the area, input -30.	[How to set] Enable /Input a value in the area box. [Default value] 0
Threshold alarm	Triggers an alarm if the count exceeds a defined threshold.	[How to set] Click the button on. [Default value] OFF
Alarm Record	Enable the button to enable the alarm record.	[How to set] Click to enable Alarm Record. [Default value] OFF
SMTP	Enable the button to enable SMTP sever. The parameters of SMTP can be set at Setting > Network > Advanced Settings > SMTP interface.	[How to set] Click to enable SMTP. [Default value] OFF
FTP Upload	Enable the button to enable File Transfer Protocol. The parameters of FTP can be set at Setting > Network > Advanced Settings > FTP interface.	[How to set] Click to enable FTP Upload. [Default value] OFF

Step 3 Set the deployment area:

- Click to generate points on the live video screen.
- Continue to form a line or shape.
- Right-click to finish drawing.

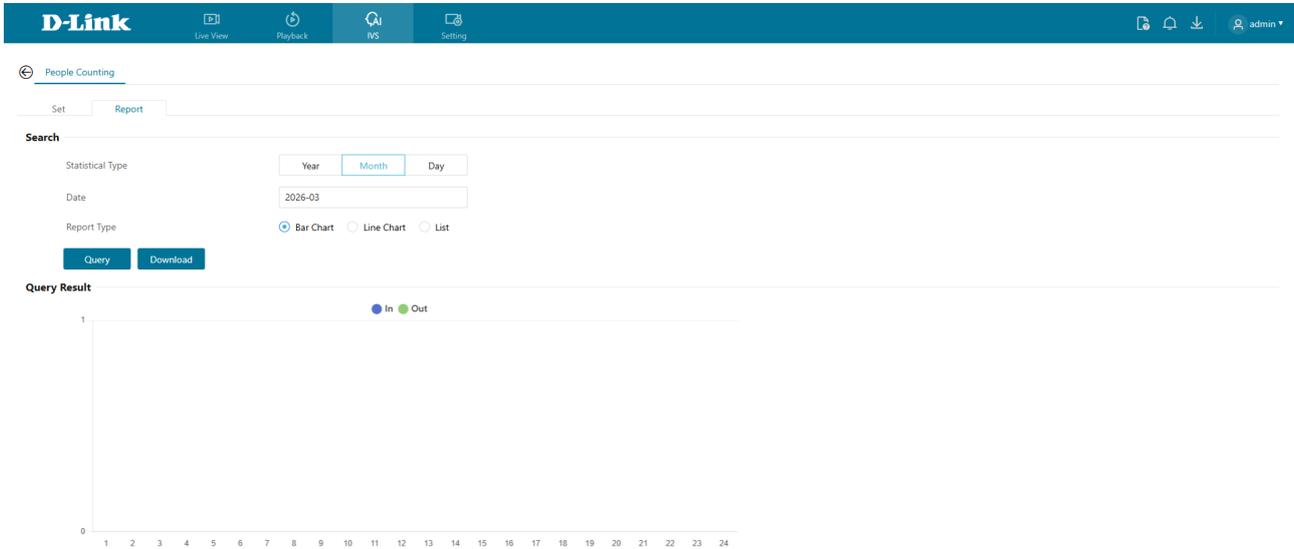
Step 4 Set the deployment time. Refer to section 7.1 Step 4.

Step 5 Click **Apply**. The system saves your configuration and confirms with "**Apply success!**".

9.3.2 Report

The People Counting interface allows you to view statistical data by setting specific query conditions, including a defined time range. The data can be visualized in three formats: Line Chart, Bar Chart, or List, as shown in Figure 9-15.

Figure 9-15 People counting page



Procedure

Step 1 Set the Time Range:

- Use the calendar pop-up to select the **Start** and **End** time for the query.
- Select the **Year** and **Month** as needed.

Step 2 Choose Report Type:

- Available display formats include:
 - **Line Chart**
 - **Bar Chart**
 - **List**

Step 3 Query the Data:

- Click the **Query** button to retrieve the people counting results based on the specified conditions.

Step 4 Download Results:

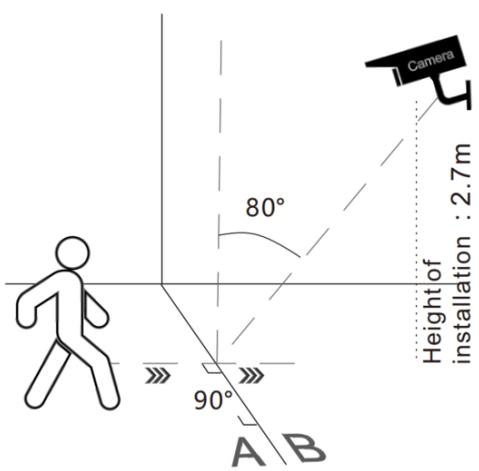
- Click **Download** to export the query results. The data can be saved to a local folder for further analysis or reporting.

Troubleshooting

Below table describes the common faults and solutions.

Common faults and solutions

Common Fault	Possible Cause	Solution
When you enter the device IP address in the address box of Internet Explorer and press Enter , the message "There is a problem with this website's security certificate." is displayed.	The certificate is not installed.	Click Continue to this website (not recommended) to proceed .
The web management system cannot be accessed.	The network is disconnected.	Connect the PC directly to the camera, and verify that the web management system can be accessed. Run the ping command to verify that the camera is reachable.
	The IP address is used by another device.	Connect the PC directly to the camera and configure the IP address of the camera.
	The IP addresses of the PC and IP camera are on different networks.	Check the IP address, subnet mask, and gateway settings on the IP camera, and change the settings as required.
After the IP camera is upgraded, the web management system cannot be accessed.	The browser cache is not deleted.	To delete the browser cache, proceed as follows: <ol style="list-style-type: none"> 1. Open browser. 2. Press Ctrl + Shift +Delete. The Delete Browsing History dialog box is displayed. 3. Select all check boxes. 4. Click Delete. Login to the web management system again.

Common Fault	Possible Cause	Solution								
The IP camera cannot be upgraded.	The network is disconnected. The network settings are incorrect.	Confirm that the upgrade network is connected. Check the network settings.								
	The upgrade package is incorrect.	Obtain the correct upgrade package and upgrade the IP camera again.								
The accuracy of people counting is bad.	The installation method is fault.	<p>Install camera and draw the line following as figure.</p>  <p>General Environment is over 480Lux, 5000K</p> <table border="1" data-bbox="1141 750 1412 985"> <thead> <tr> <th>Lens (mm)</th> <th>Pixel: distance of recognition</th> </tr> </thead> <tbody> <tr> <td>2.8</td> <td>5M:3~40 8M:3~45</td> </tr> <tr> <td>2.7~13.5 zoom=1</td> <td>5M:3~35 8M:3~45</td> </tr> <tr> <td>2.7~13.5 zoom=5</td> <td>5M:5~105 8M:4.5~30</td> </tr> </tbody> </table>	Lens (mm)	Pixel: distance of recognition	2.8	5M:3~40 8M:3~45	2.7~13.5 zoom=1	5M:3~35 8M:3~45	2.7~13.5 zoom=5	5M:5~105 8M:4.5~30
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