User Manual

V1.00

Contents

About This Manual

This manual describes how to use and manage the device.

Revision History

Manual Version	Revision Content
V1.00	Initial release, based on IPC-D315-APKZ version

Copyright Statement

Disclaimer

Due to such reasons as product version upgrade or regulatory requirement of relevant regions, this manual will be periodically updated.

This manual is only for informational purpose, and all statements, information, and recommendations in this manual are presented without warranty.

The illustrations in this manual are for reference only and may vary depending on the version or model. The screenshots in this manual may have been customized to meet specific requirements and user preferences. As a result, some of the examples and functions featured may differ from those displayed on your monitor.

Safety Symbols

The symbols in the following table may be found in this manual. Carefully follow the instructions indicated by the symbols to avoid hazardous situations and use the product properly.

Symbol	Description
NOTE!	Indicates useful or supplemental information about the use of product.
CAUTION!	Indicates a situation which, if not avoided, could result in damage, data loss or malfunction to product.
WARNING!	Indicates a hazardous situation which, if not avoided, could result in bodily injury or death.

Contact Us

If you have any problems when using this manual, please contact us.

- Email: support@uniarch.cn
- Skype: support@uniarch.cn
- Uniarch website: http://uniarch.cn

1 Web Login

You can log in to the device's Web interface to perform management or maintenance operations.

Check Before Login

- The operation permissions for the device may vary with user type. See User for your operation permissions.
- The PC has a network connection to the device.
- A Web browser has been installed on the PC. Microsoft Internet Explorer 9.0 or later is recommended. Firefox, Chrome and Opera browsers are also supported.
- The PC uses Windows 7 or later.

Note:

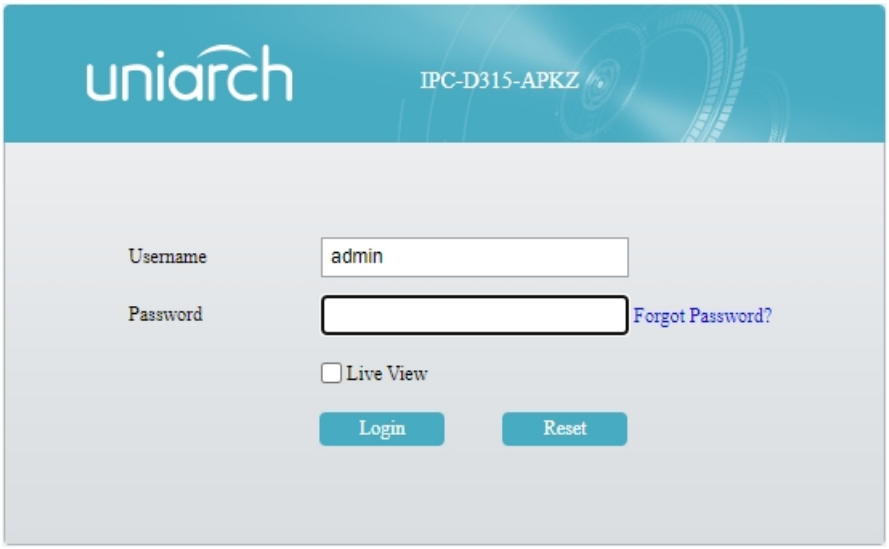
- The parameters and values displayed may vary with device model. The parameters that are grayed out on the Web GUI cannot be modified.
- The figures in this manual are for illustration purpose only and may vary with device model.

Login

Note:

- Default IP address: 192.168.1.13
- Default username: admin
- Default password: 123456
- To log in to your device across network segments, please change the default password to a strong password.
- You may need to install a plug-in as prompted at your first login. Close the Web browser when the installation starts.

1. Open a Web browser on your PC, enter the device's IP address and press **Enter**.
2. In the login dialog box, enter the default username and password and click **Login**.



Change Password

Note:
The default password is intended only for your first login. For security, we strongly recommend you set a strong password of 9 to 20 characters from at least three of the four types: upper-case letter, lower-case letter, digit, special character (not including / \ : * ? ‘ “ < > | % &).

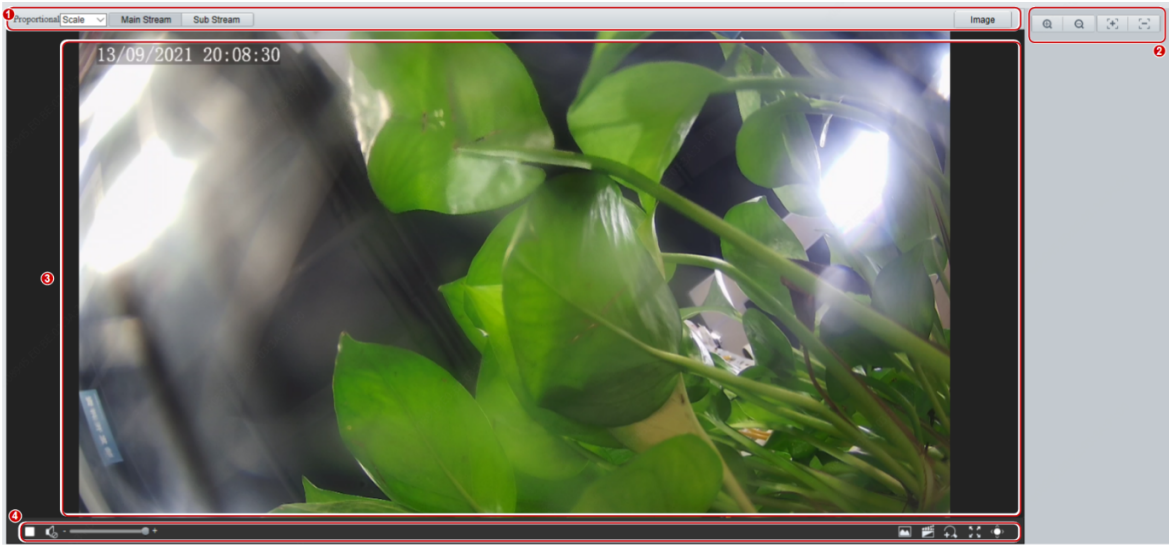
See User for details.

Retrieve Password

Click **Forgot Password** in the login page, then follow the on-screen instructions to retrieve your password.

2 Live View

The **Live View** page appears after you log in.



This page plays live video (real-time audio and video) received from a camera in a window through the Web interface.

It contains four functional areas: ❶ menu, ❷ camera control panel, ❸ live view window, ❹ live view toolbar.

2.1 Menu

Item	Description
Logout	Click to log out.
Proportional Scale	Set the image display ratio in the window. • Scale: Display 16:9 images. • Stretch: Display images according to the window size (stretch images to fit the window). • Original: Display images with original size.
Image	Click this button to open the image setting page.
Main Stream Sub Stream	Select a stream mode. • Main Stream: High resolution mode (generally the maximum resolution supported by the device). • Sub Stream: Low resolution mode (generally 720×576 (D2)). **Note:** See Video for resolution configuration.

2.2 Camera Control Panel

Item	Description
/	Increase/decrease the focal length of the camera.
/	Zoom in/out on images of the camera.

2.3 Live View Window

You can double-click the window to enter full screen mode. To exit, press **ESC**.

2.4 Live View Toolbar

Control live video and perform other live view operations using the toolbar.

Item	Description
	Play/stop live video.
	Adjust the output volume for the media player on the PC.
	Take a snapshot of the current image displayed on the PC.
	Start/stop local recording.
	Start/stop digital zoom.
	Full screen.
	Show/hide PTZ control panel.

Viewing Certain Area of Images with Digital Zoom

1. In the **Live View** page, click  in the toolbar.
2. Drag your mouse to specify the area (rectangular area) to be magnified.
3. Release the mouse button to view the magnified area.
   - Left-click in the area, drag it left or right to view the whole image.
   - Use the scroll wheel to zoom in or out on the image.
4. To exit, click  .

3 Setup

3.1 Basic Settings

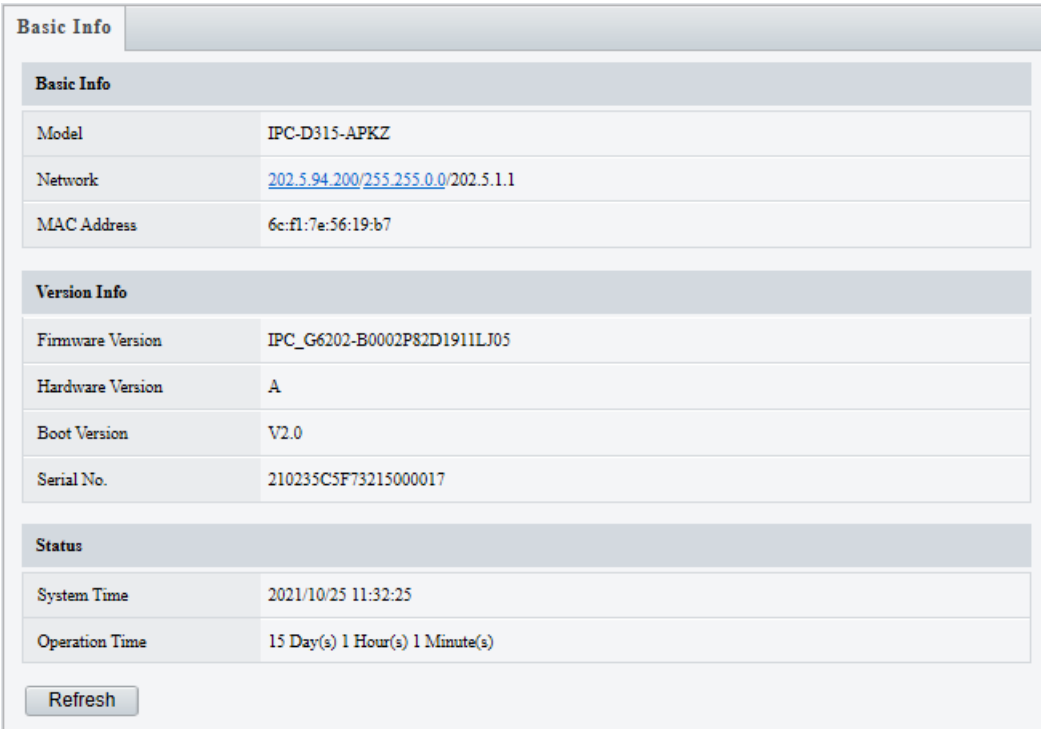
View the basic information and set some basic parameters.

3.1.1 Basic Info

View the basic information such as device model and system time.

Go to **Setup** > **Common** > **Basic Info**.

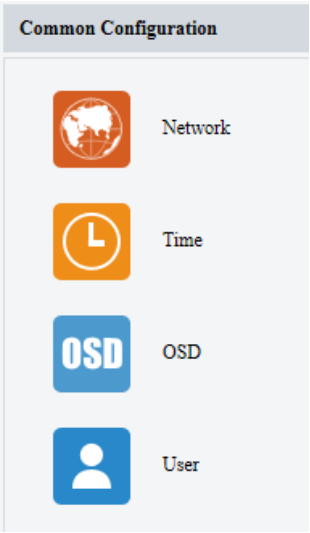
Note:
The parameters displayed in the **Basic Info** page may vary with device model.



- Some parameters are described in the table below.

Item		Description
Basic Info	Model	Device model.
	Network	The IP address of the device. **Note:** See Network for IP address configuration.
	MAC Address	The MAC address of the device.
Version Info	Firmware Version	The firmware version of the device.
	Hardware Version	The hardware version of the device.
	Boot Version	The boot version of the device.
	Serial No.	The serial number of the device.
Status	System Time	System time. **Note:** See Time for system time configuration.
Operation Time		The operation time of the device.

- You can also click the icons under **Common Configuration** to switch to corresponding configuration interfaces.



3.1.2 Network

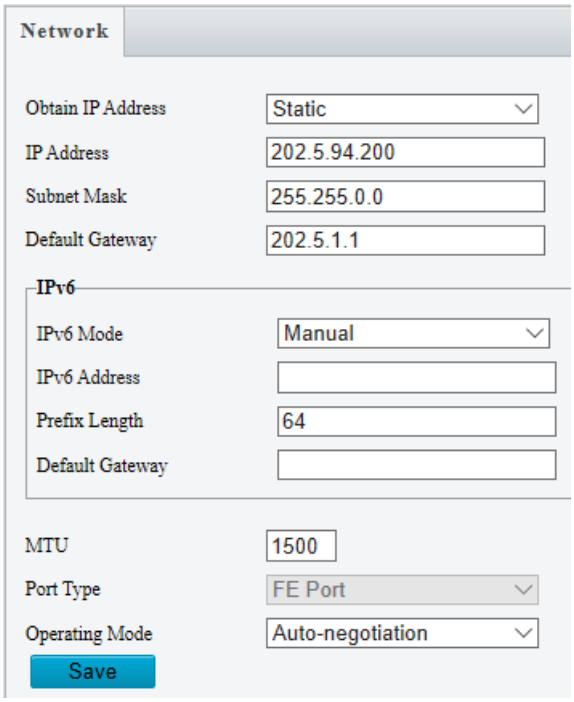
Configure network parameters so that the device can communicate with other devices.

Go to **Setup** > **Common** > **Network**.

Note:
After you change the IP address, you need to log in again with the new IP address.

Static

1. In the **Obtain IP Address** list, click **Static**.



2. Set the parameters.

Item		Description
Obtain IP Address		Set how to obtain the IP address, including **Static**, **PPPoE**, and **DHCP**. The figure above shows an example with **Static** selected.
IP Address		Enter the IP address and make sure the IP address is unique in the network.
Subnet Mask		Enter the subnet mask.
Default Gateway		Enter the default gateway.
IPv6	IPv6 Mode	Currently only supports the **Manual** mode.

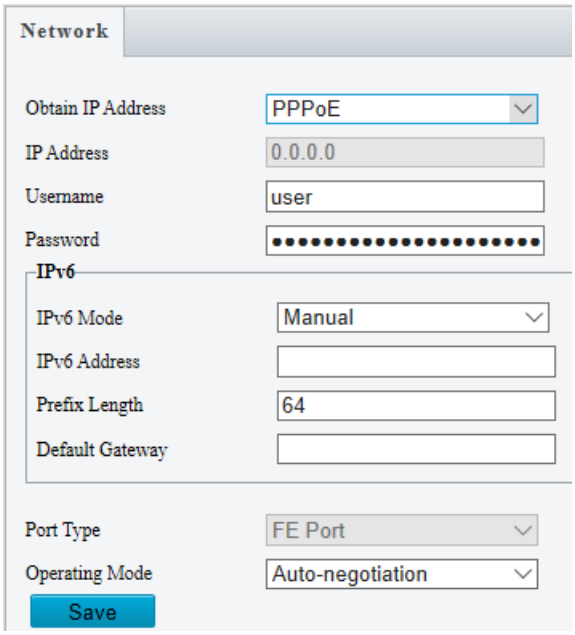
Item		Description
	IPv6 Address	Enter the IPv6 address and make sure the IPv6 address is unique in the network.
	Prefix Length	Range: 3 to 127.
	Default Gateway	Enter the default gateway or leave it blank.
MTU		Set the maximum transmission unit. A valid MTU value ranges from 576 to 1500. **Note:** The greater the value, the higher the communication efficiency, the higher the transmission delay. Set the value according to the actual conditions.
Port Type		Select the appropriate port type.
Operating Mode		Select the appropriate operating mode.

3. Click **Save** to save the settings.

PPPoE

Note:
This function is not supported by some models.

1. In the **Obtain IP Address** list, click **PPPoE**.



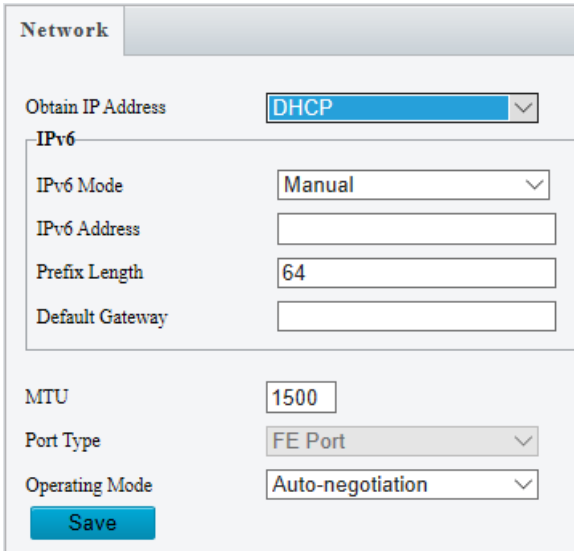
2. Set the parameters.

Item	Description
Obtain IP Address	Set how to obtain the IP address. The figure above shows an example with **PPPoE** selected.
IP Address	The default IP address is **0.0.0.0**.
Username	Set the username as prompted.
Password	Set the password as prompted.
IPv6	See Static for IPv6 configuration.
Port Type	Select the appropriate port type.
Operating Mode	Select the appropriate operating mode.

3. Click **Save** to save the settings.

DHCP

1. In the **Obtain IP Address** list, click **DHCP**.



2. Set the parameters.

Item	Description
Obtain IP Address	Set how to obtain the IP address. The figure above shows an example with **DHCP** selected.
IPv6	See Static for IPv6 configuration.
MTU	Set the maximum transmission unit. A valid MTU value ranges from 576 to 1500. **Note:** The greater the value, the higher the communication efficiency, the higher the transmission delay. Set the value according to the actual conditions.
Port Type	Select the appropriate port type.
Operating Mode	Select the appropriate operating mode.

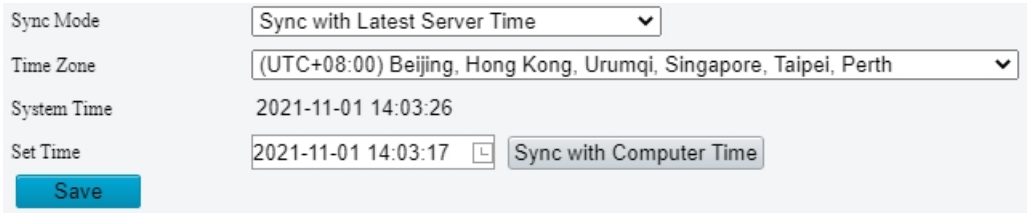
3. Click **Save** to save the settings.

3.1.3 Time

Configure system time and DST parameters.

Time

1. Go to **Setup** > **Common** > **Time**.



2. Set the parameters.

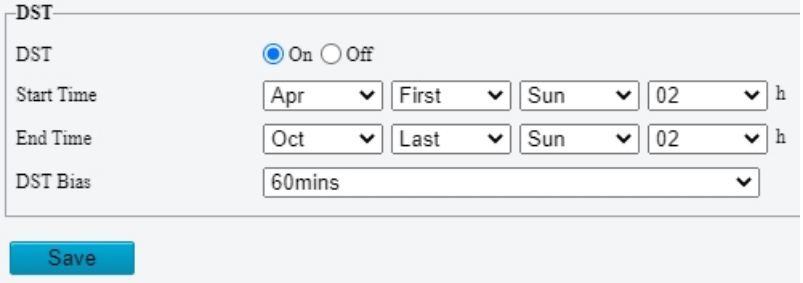
Item	Description
Sync Mode	Set the time sync mode. The default mode is **Sync with Latest Server Time**.
Time Zone	Set the time zone. The default time zone is **(UTC+00:00) London, Dublin, Lisbon**.
System Time	Display current system time. See the description of **Set Time** for system time customization.

Item	Description
Set Time	Set the system time as required. • Click 2021-10-25 16:39:10 to set the time manually. • Click Sync with Computer Time to sync the time and time zone with the PC. • Click Cancel Sync. to cancel sync.

3. Click **Save** to save the settings.

DST

1. Go to **Setup** > **Common** > **Time** > **DST**.



2. Set the parameters.

Item	Description
DST	Turn on or off **DST**. It is turned off by default.
Start Time	Set the start time.
End Time	Set the end time.
DST Bias	Set the offset time. The default offset time is 60 minutes.

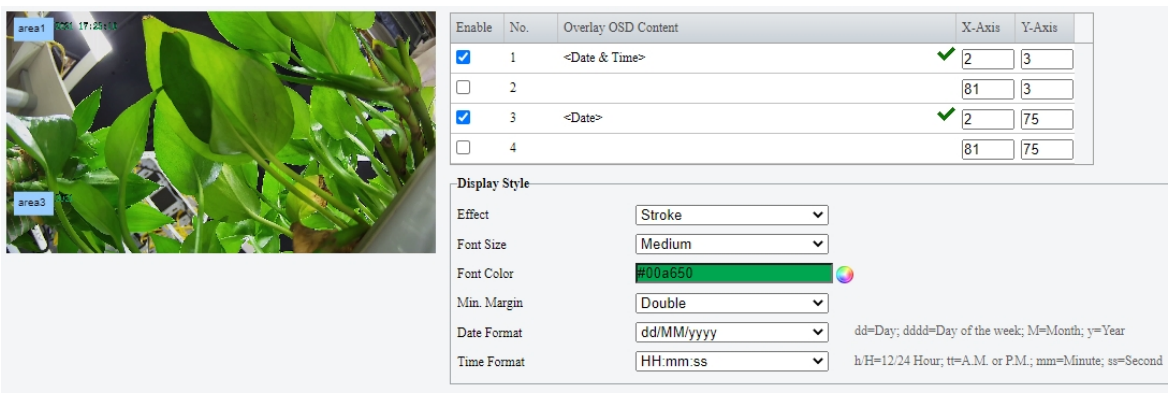
3. Click **Save** to save the settings.

3.1.4 OSD

On Screen Display (OSD) are characters displayed with video images, for example, camera name, date and time.

Go to **Setup** > **Common** > **OSD**.

Note:
This function may vary with device model.



Set the parameters.

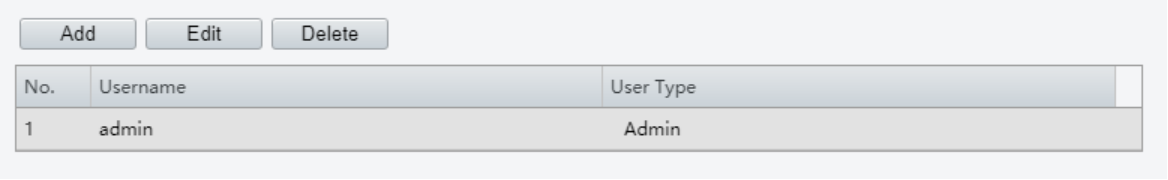
Item	Description
Enable	Select the check boxes in the **Enable** column to overlay the corresponding contents on the video images. **Note:** ✔ indicates the OSD is set successfully.
Overlay OSD Content	Select the content to be overlaid, including **Custom**, **Date & Time**, **Time**, **Date**, and **Network Port**.

Item		Description
X-Axis		Set the OSD position. **Note:** You can also set the OSD position as follows: point to the OSD box in the preview window, drag the box to the desired position after the cursor shape is changed.
Y-Axis		Set the OSD position. **Note:** You can also set the OSD position as follows: point to the OSD box in the preview window, drag the box to the desired position after the cursor shape is changed.
Display Style	Effect	Set the display effect, including **Background**, **Stroke**, **Hollow**, and **Normal**. The default display effect is **Background**.
	Font Size	Set the font size, including **Large**, **Medium**, and **Small**. The default font size is **Medium**.
	Font Color	Set the font color. 1. Click . 2. Select the desired color.
	Min. Margin	Set the minimum margin, including **None**, **Double**, and **Single**.
	Date Format	Set the date format. 9 formats are available, the default date format is **dd/MM/yyyy**. **Note:** dd=Day; dddd=Day of the week; M=Month; y=Year
	Time Format	Set the time format. 2 formats are available, the default time format is **HH:mm:ss**. **Note:** h/H=12/24 Hour; tt=A.M. or P.M.; mm=Minute; ss=Second

3.1.5 User

Add, delete or edit user information.

Go to **Setup** > **Common** > **User**.



Set the parameters.

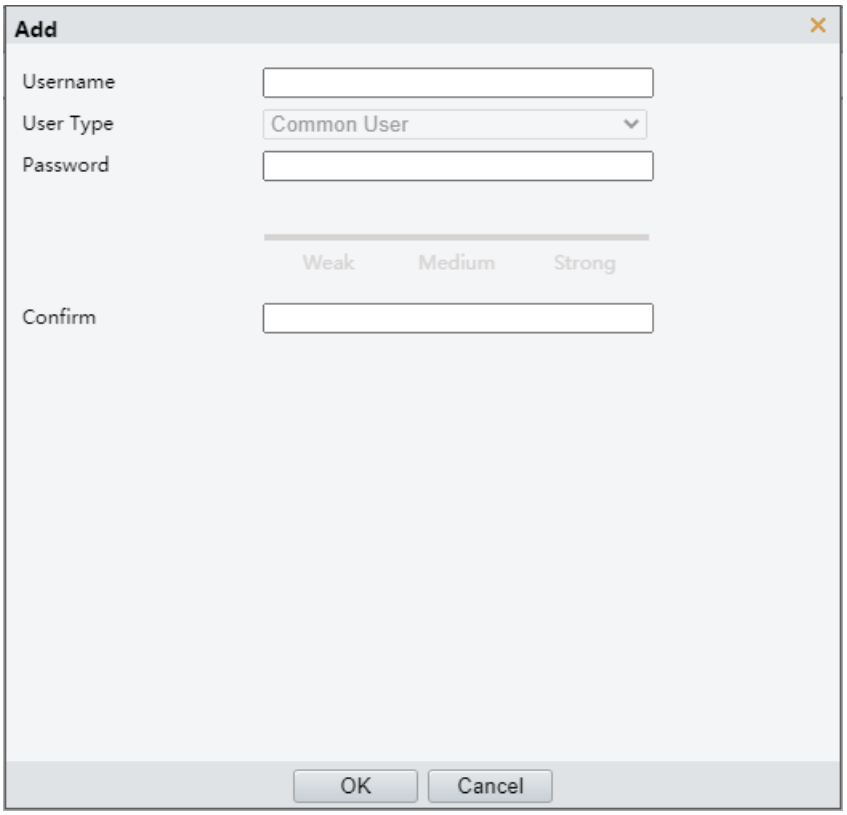
Item	Description
Username	You can set it when adding a user. See Adding a User. **Note:** The default administrator name is admin, which cannot be modified.

User Type	You can set it when adding a user.
	Note:
	• The system supports two user types: **Admin** and **Common User**.
	  • Only 1 administrator is allowed.
	  • Up to 31 common users are allowed.
	• The admin user has all permissions for managing the device and other users, and the common user only has the live view and playback permissions.

Item	Description
Add	Add users. See Adding a User.
Edit	Edit user information. See Editing User Info.
Delete	Delete users. See Deleting a User.

Adding a User

1. Click **Add**.



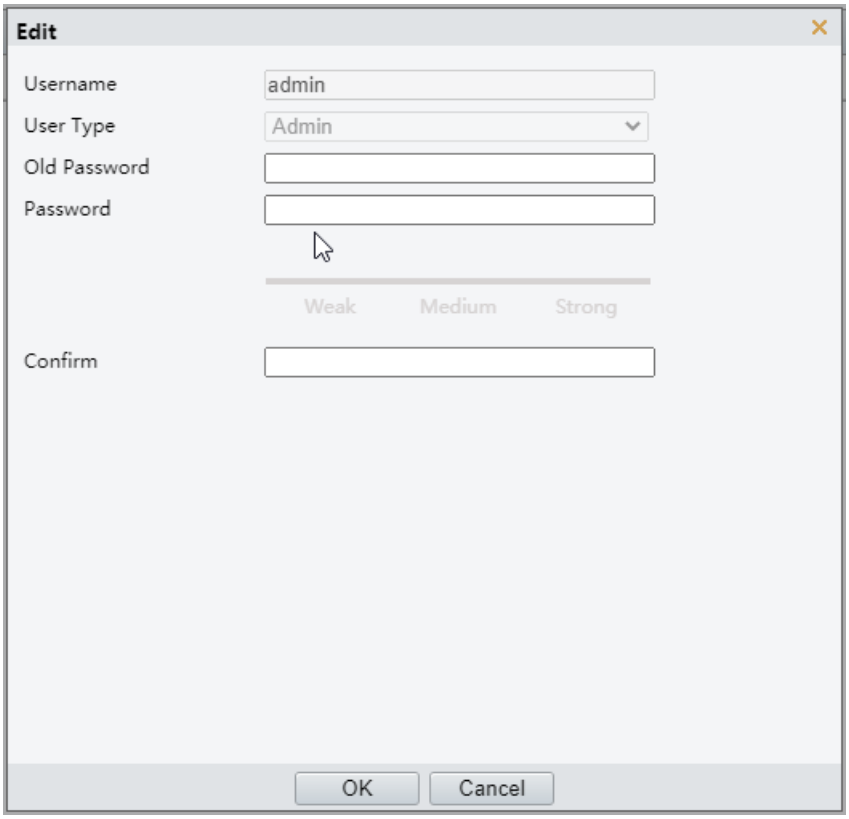
2. Set the parameters.

Item	Description
Username	Set the username.
User Type	Set the user type.
Password	Set the password.
Confirm	Confirm the password you entered by entering it again. Make sure that the two passwords you entered are the same.

3. Click **Save** to save the settings.

Editing User Info

1. Select the user you want to edit.
2. Click **Edit**.



3. Set the parameters.

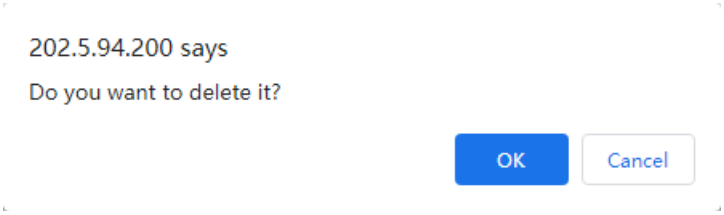
Item	Description
Username	See User.
User Type	See User.
Old Password	Enter the old password.
Password	Enter the new password.
Confirm	Confirm the new password you entered by entering it again. Make sure that the two new passwords you entered are the same.

4. Click **Save** to save the settings.

Note:
Changing the username or password for a user when the user is still logged in will force the user to log out. The user must use the new username or password to log in.

Deleting a User

1. Select the user you want to delete.
2. Click **Delete**.



3. Click OK. Parameter(s) set successfully. means the user is deleted successfully.

Note:
- The admin user cannot be deleted.
- Deleting a user when the user is still logged in will force the user to log out.

3.2 Network

Configure network parameters so that the device can communicate with other devices.

3.2.1 Network

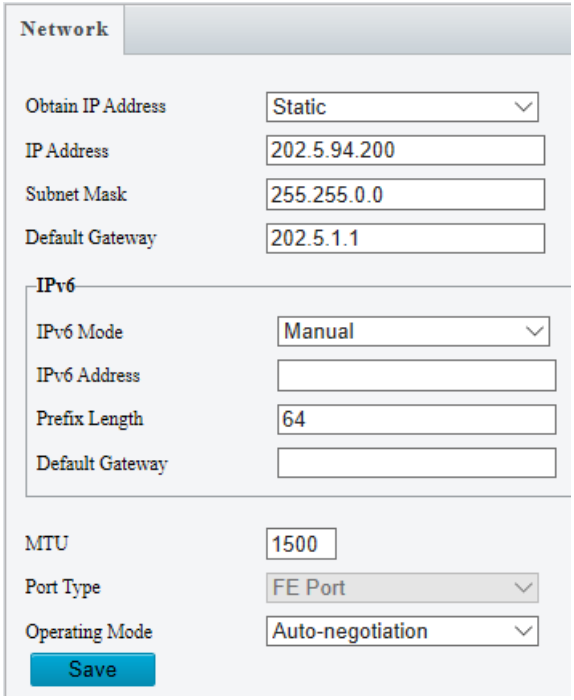
Configure network parameters so that the device can communicate with other devices.

Go to **Setup** > **Common** > **Network**.

Note:
After you change the IP address, you need to log in again with the new IP address.

Static

1. In the **Obtain IP Address** list, click **Static**.



2. Set the parameters.

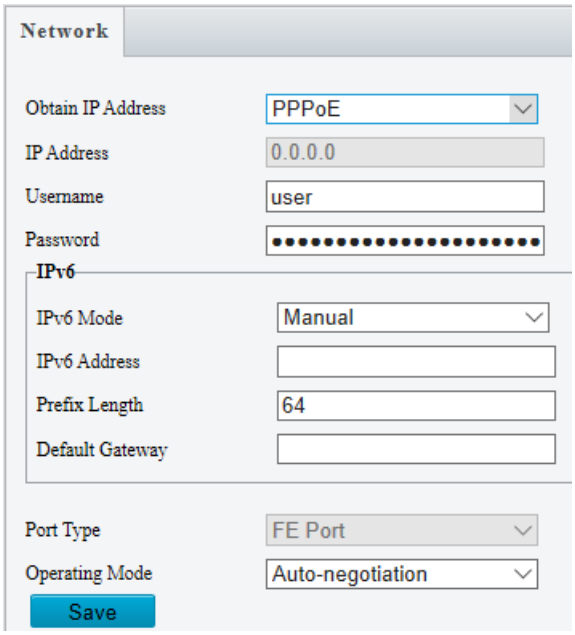
Item		Description
Obtain IP Address		Set how to obtain the IP address, including **Static**, **PPPoE**, and **DHCP**. The figure above shows an example with **Static** selected.
IP Address		Enter the IP address and make sure the IP address is unique in the network.
Subnet Mask		Enter the subnet mask.
Default Gateway		Enter the default gateway.
IPv6	IPv6 Mode	Currently only supports the **Manual** mode.
	IPv6 Address	Enter the IPv6 address and make sure the IPv6 address is unique in the network.
	Prefix Length	Range: 3 to 127.
	Default Gateway	Enter the default gateway or leave it blank.
MTU		Set the maximum transmission unit. A valid MTU value ranges from 576 to 1500. **Note:** The greater the value, the higher the communication efficiency, the higher the transmission delay. Set the value according to the actual conditions.
Port Type		Select the appropriate port type.
Operating Mode		Select the appropriate operating mode.

3. Click **Save** to save the settings.

PPPoE

Note:
This function is not supported by some models.

1. In the **Obtain IP Address** list, click **PPPoE**.



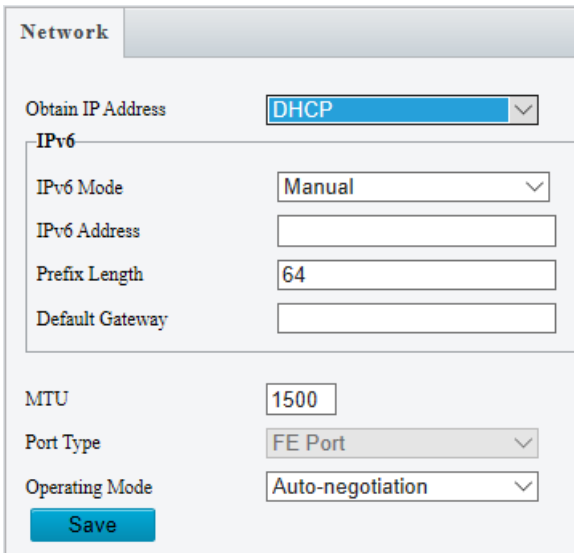
2. Set the parameters.

Item	Description
Obtain IP Address	Set how to obtain the IP address. The figure above shows an example with **PPPoE** selected.
IP Address	The default IP address is **0.0.0.0**.
Username	Set the username as prompted.
Password	Set the password as prompted.
IPv6	See Static for IPv6 configuration.
Port Type	Select the appropriate port type.
Operating Mode	Select the appropriate operating mode.

3. Click **Save** to save the settings.

DHCP

1. In the **Obtain IP Address** list, click **DHCP**.



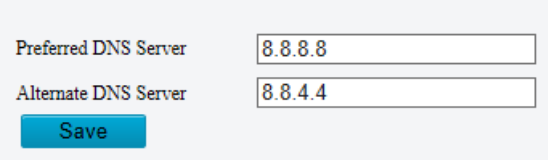
2. Set the parameters.

Item	Description
Obtain IP Address	Set how to obtain the IP address. The figure above shows an example with **DHCP** selected.
IPv6	See Static for IPv6 configuration.
MTU	Set the maximum transmission unit. A valid MTU value ranges from 576 to 1500. **Note:** The greater the value, the higher the communication efficiency, the higher the transmission delay. Set the value according to the actual conditions.
Port Type	Select the appropriate port type.
Operating Mode	Select the appropriate operating mode.

3. Click **Save** to save the settings.

3.2.2 DNS

Go to **Setup** > **Network** > **DNS**.



1. Set the parameters.

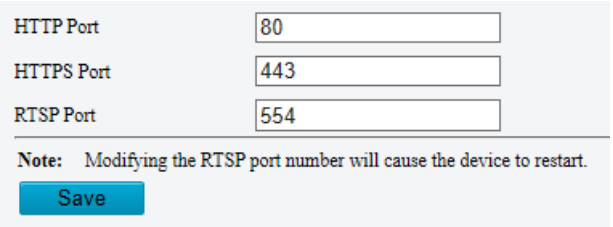
Item	Description
Preferred DNS Server	Set the preferred DNS server address.
Alternate DNS Server	Set the alternate DNS server address.

2. Click **Save** to save the settings.

3.2.3 Port

Go to **Setup** > **Network** > **Port**.

Note:
This function is not supported by some models.



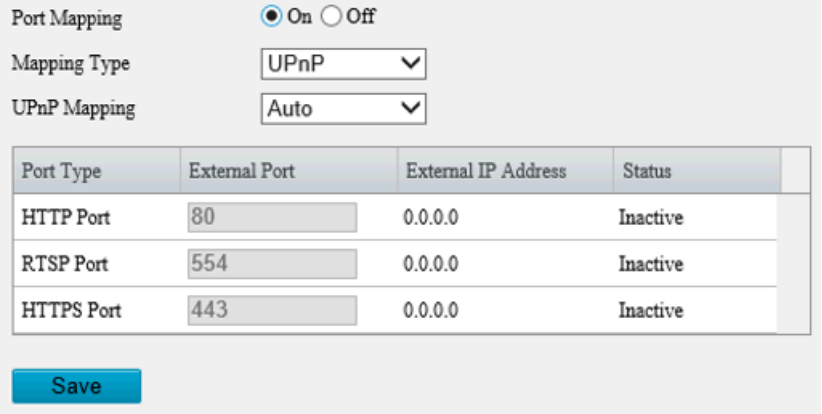
1. Set the parameters.

Item	Description
HTTP Port	Set the HTTP port number. **Note:** If the HTTP port number you entered has been used, a message “Port conflicts. Please try again.” will appear. • 23, 81, 82, 85, 3260, and 49152 have been assigned for other purposes and cannot be used. • In addition to the above port numbers, the system can also dynamically detect other port numbers that are already in use.
HTTPS Port	Set the HTTPS port number.
RTSP Port	Set the RTSP port number. **Note:** Modifying the RTSP port number will cause the device to restart.

2. Click **Save** to save the settings.

3.2.4 Port Mapping

Go to **Setup** > **Network** > **Port** > **Port Mapping**.



Set the parameters.

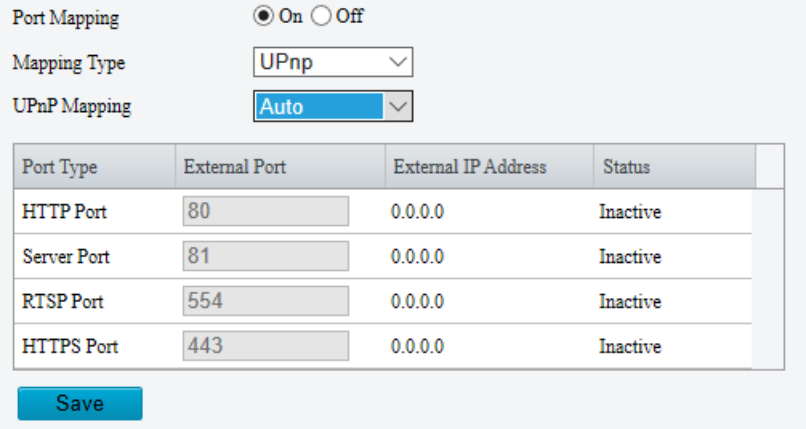
Item	Description
Port Mapping	Turn on or off **Port Mapping**. It is turned off by default.
Mapping Type	Set the port mapping mode, including **UPnP** and **Manual**. See UPnP and Manual.
UPnP Mapping	Set the UPnP mapping mode when the mapping mode is set to **UPnP**, including **Auto** and **Manual**. See UPnP.
Port Type	See Port.
External Port	Set the external port number.
External IP Address	Set the external IP address.
Status	Port configuration status.

UPnP

In the **Mapping Type** list, click **UPnP**.

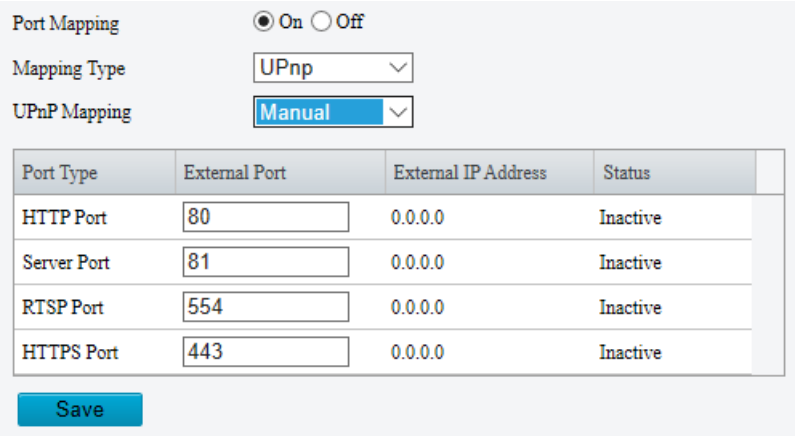
- Auto

  In the **UPnP Mapping** list, click **Auto**.



- Manual

  1. In the **UPnP Mapping** list, click **Manual**.



2. Set the parameters. See Port Mapping.
3. Click **Save** to save the settings.

Manual

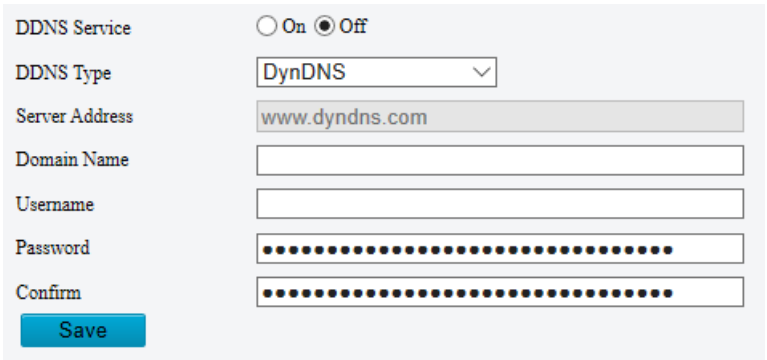
In the **Mapping Type** list, click **Manual**.

1. Set the parameters. See Port Mapping.
2. Click **Save** to save the settings.

3.2.5 DDNS

Go to **Setup** > **Network** > **DDNS**.

Note:
This function is not supported by some models.



1. Set the parameters.

Item	Description
DDNS Service	Turn on or off **DDNS**.
DDNS Type	Set the DDNS type, including **DynDNS**, **NO-IP**, and **EZDDNS**.
Server Address	The default server address is http://www.dyndns.com.
Domain Name	Enter the domain name.
Username	Enter the username.
Password	Enter the password.
Confirm	Confirm the password you entered by entering it again.

2. Click **Save** to save the settings.

3.2.6 Uniarch

Enable the Uniarch cloud service.

Go to **Setup** > **Network** > **Uniarch**.

1. Set the parameters.

Item	Description
Uniarch	Turn on or off **Uniarch** cloud service.
Add Without Signup	Turn on or off **Add Without Signup**.
Address	The website address of Uniarch.
Register Code	The register code of the device.
Device Status	Device status.
Scan	Scan the QR code using EZView to add the device.

2. Click **Save** to save the settings.

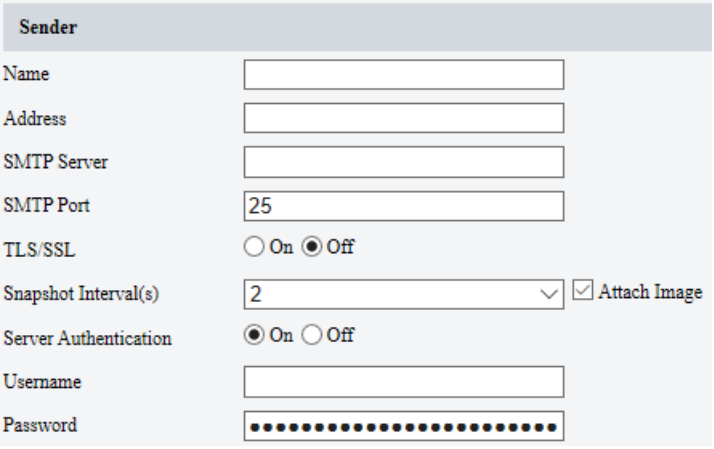
3.2.7 E-mail

Configure E-mail so that the device can e-mail an alarm message to the specified email addresses when an alarm occurs.

Go to **Setup** > **Network** > **E-mail**.

Sender

Set the sender information.



1. Set the parameters.

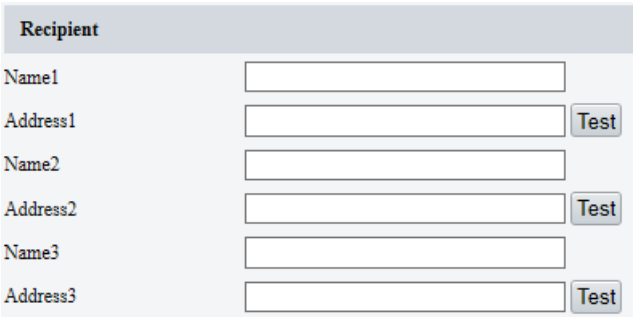
Item	Description
Name	Set as needed, for example, the device name.
Address	Set as needed, for example, the device IP.
SMTP Server	The server address registered by the sender.
SMTP Port	The server port registered by the sender.
TLS/SSL	Turn on or off **TLS/SSL**.

Item	Description
Snapshot Interval(s)	When an alarm occurs, the device will send an alarm email with 3 snapshots captured at set intervals.
Server Authentication	Enable SMTP server authentication to secure mail transmission. To enable it, you need to enter the correct username and password.
Username	Enter the username of the SMTP server.
Password	Enter the password of the SMTP server. **Note:** The password must be 0 to 32 characters and allows \ / : * ? ' " < > | % &

2. Click **Save** to save the settings.

Recipient

Set the recipient information.



1. Set the parameters.

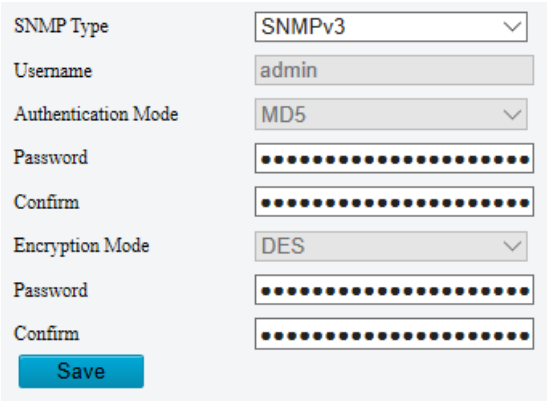
Item	Description
Name	Set the email name to receive emails. **Note:** The name must be 0 to 32 characters.
Address	Set the email address to receive emails.
Test	Click to test the recipient's address. **Note:** This function is not supported by some models.

2. Click **Save** to save the settings.

3.2.8 SNMP

SNMPv3 is recommended when a camera needs to transfer specified configuration information with the central server.

Go to **Setup** > **Network** > **SNMP**.



SNMPv3

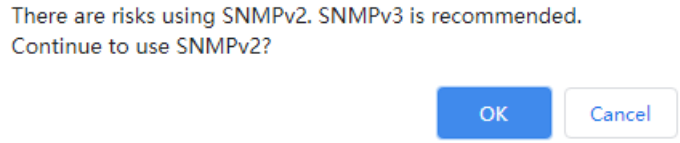
1. Set the parameters.

Item	Description
SNMP Type	Two options: **SNMPv3** and **SNMPv2**. **Note:** If you choose SNMPv2, an onscreen message will remind you of potential risks and ask if you want to continue. See SNMPv2.
Username	The default username is **admin**.
Authentication Mode	The default authentication mode is **MD5**.
Password	Set the password.
Confirm	Confirm the password you entered by entering it again.
Encryption Mode	Set the encryption mode.

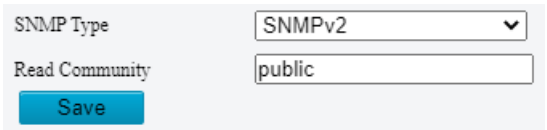
2. Click **Save** to save the settings.

SNMPv2

1. In the **SNMP Type** list, click **SNMPv2**. Then the following window appears.



2. Click **OK**.



3. Set the parameters.

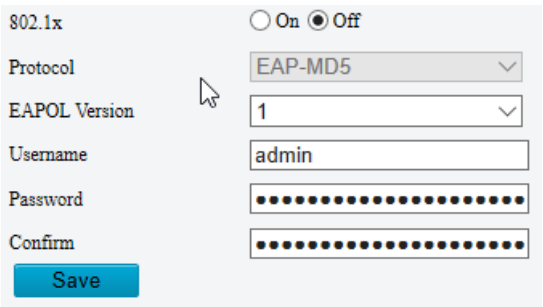
Item	Description
SNMP Type	See SNMPv3.
Read Community	This parameter is used for two-way authentication between a camera and the central server. The default name is **public**, and you may change it as needed. **Note:** If you change this parameter, you should change it into the same one on the central server, or the two-way authentication will not be completed.

4. Click **Save** to save the settings.

3.2.9 802.1x

802.1x provides authentication to devices trying to connect to a network. Only the authenticated devices can connect the network. This enhances security.

Go to **Setup** > **Network** > **802.1x**.



1. Set the parameters.

Item	Description
802.1x	Turn on or off **802.1x**.
Protocol	Select a protocol.

Item	Description
EAPOL Version	Select an EAPOL version, including **1** and **2**.
Username	Set the username. The name of the administrator is admin.
Password	Set the password.
Confirm	Confirm the password you entered by entering it again.

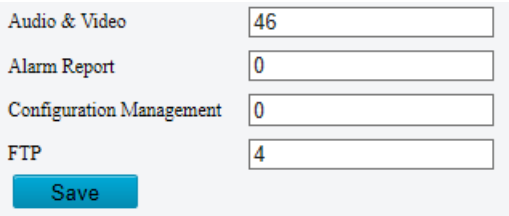
2. Click **Save** to save the settings.

3.2.10 QoS

QoS(Quality of Service) is the ability to provide better service for specified network communication. As a network security mechanism, QoS is used to address problems like network delay and blocking. When the network is overloaded or congested, QoS ensures that critical services are not delayed or discarded and that the network runs efficiently.

Note:
To use QoS, make sure that the switch supports QoS mode.

Go to **Setup** > **Network** > **QoS**.



1. Set a priority level (0 to 63) for each service.
   At present, QoS allows you to assign different priority to audio and video, alarm report, configuration management and FTP transmission. The greater the value, the higher the priority. For example, if the value of audio and video is set to 60, alarm report and configuration management is set to 0, and FTP is set to 4, when network congestion occurs, the priority is to ensure the smooth running of audio and video.
2. Click **Save** to save the settings.

3.3 Video & Audio

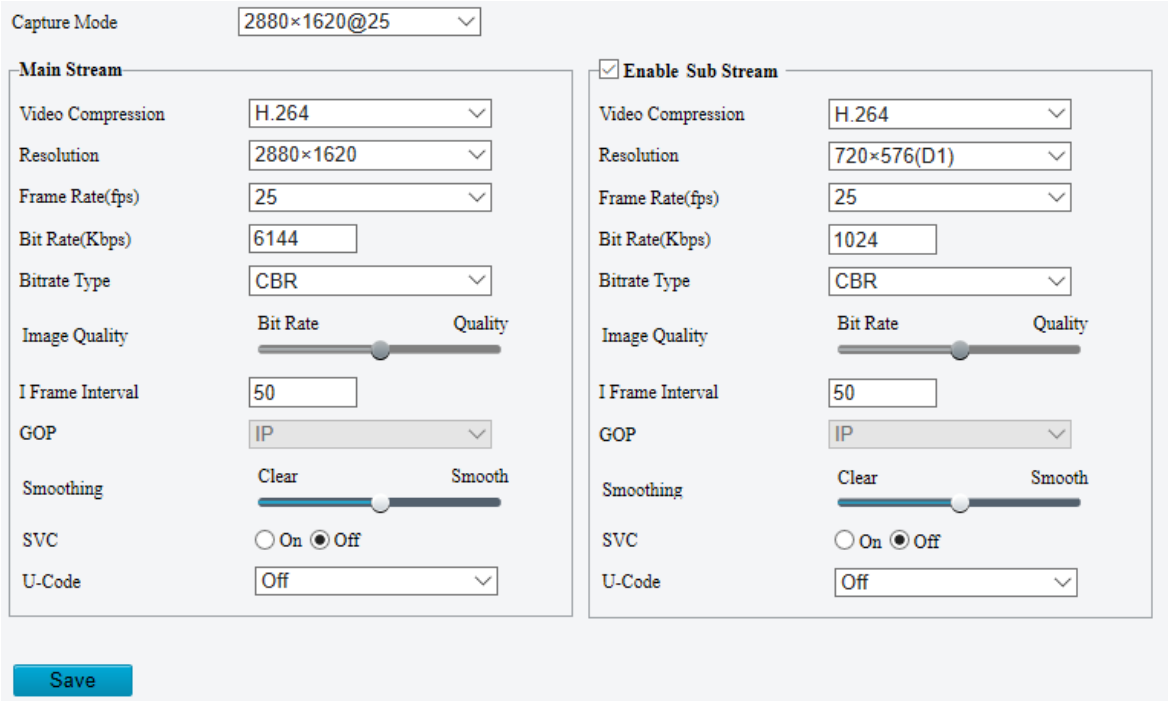
Configure video and audio parameters.

3.3.1 Video

Configure video parameters to achieve the desired video effect.

Go to **Setup** > **Video & Audio** > **Video**.

Note:
The video parameters displayed may vary with device model.



1. Set the parameters.

Item	Description
Capture Mode	Set the capture mode.
Main Stream/Enable Sub Stream	Set stream parameters.
Video Compression	Three options: **H.265**, **H.264**, and **MJPEG**.
Resolution	Number of pixels per inch of an image. The higher the resolution, the higher the pixels, the clearer the image.
Frame Rate(fps)	Set the frame rate for encoding images. Unit: FPS (frame per second).
Bit Rate(Kbps)	Set the bit rate. **Note:** • The bit rate must be an integer. • The bit rate range may vary with device model.
Bitrate Type	Set the bitrate type, including **CBR** and **VBR**. **Note:** • CBR: Constant Bit Rate, which means that the camera transmits data at a constant data rate. • VBR: Variable Bit Rate, which means that the camera adjusts the bit rate dynamically according to image quality.
Image Quality	When the bitrate type is set to **VBR**, you can drag the slider to adjust the quality level for images. The closer the slider is to **Quality**, the higher the bit rate and the higher the image quality.
I Frame Interval	Set the I frame interval. A valid value ranges from 5 to 250. The smaller the value, the higher the image quality.
Smoothing	Set the extent of smoothing. The closer the slider is to **Smooth**, the smoother the video. In a poor network environment, you can enable smoothing to get smoother video, but it may affect the image quality.

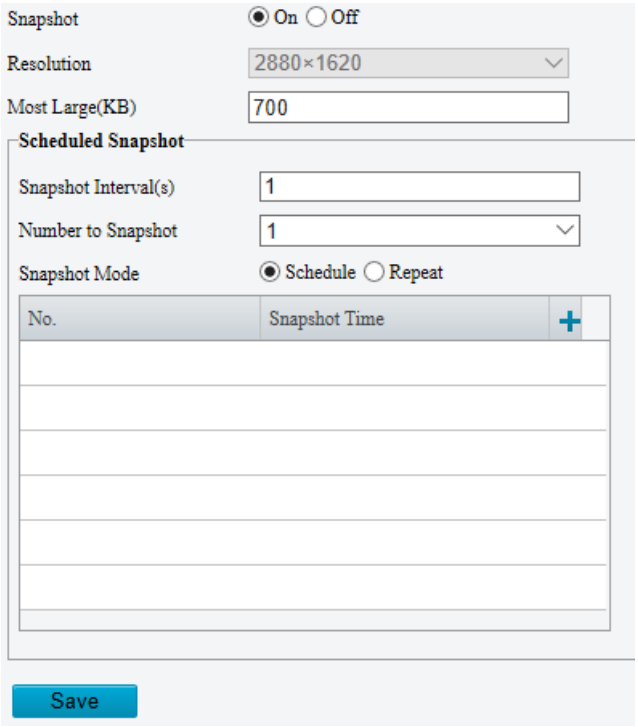
Item	Description
SVC	SVC (Scalable Video Coding) can reduce storage without compromising playback quality.
U-Code	Turn on or off **U-Code**. It is turned off by default. When enabled, the bitrate type is set to VBR, some parameters such as I frame interval, GOP, smoothing and SVC cannot be configured, and the ROI of the stream with U-Code enabled does not take effect.

2. Click **Save** to save the settings.

3.3.2 Snapshot

Configure snapshot parameters.

Go to **Setup** > **Video & Audio** > **Snapshot**.



Set the parameters.

Item	Description
Snapshot	Turn on or off **Snapshot**.
Resolution	The default resolution is the device resolution.
Most Large(KB)	Set the maximum image size. A valid value ranges from 150 to 1500.
Snapshot Interval(s)	Set the time interval for snapshots.
Number to Snapshot	Set the number of snapshots. 1 to 3 snapshots are allowed.
Snapshot Mode	Set the snapshot mode, including **Schedule** and **Repeat**. • Schedule Set a time for snapshots. See Schedule. • Repeat Set an interval for snapshots. See Repeat.

Schedule

1. Click **Schedule**.
2. Click + to add a schedule. See Arming Schedule for schedule configuration.
3. To delete the schedule, click 🗑.

Repeat

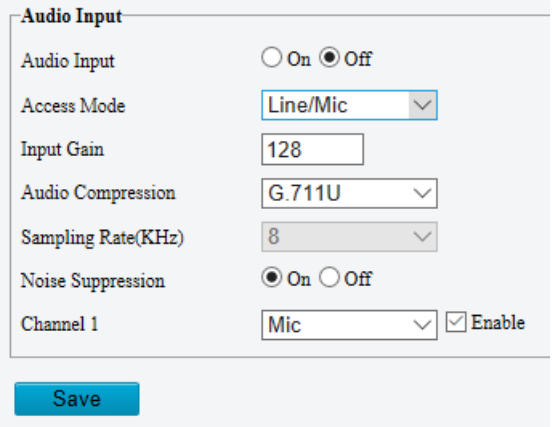
1. Click **Repeat**.
2. Set the snapshot interval. For example, when the interval is set to 60, the camera takes a snapshot every 60 seconds.

3.3.3 Audio

Configure audio parameters to achieve the desired audio effect.

Go to **Setup** > **Video & Audio** > **Audio**.

Note:
This function is not supported by some models.



1. Set the parameters.

Item	Description
Audio Input	Turn on or off **Audio Input**.
Access Mode	Currently only supports the **Line/Mic** mode.
Input Gain	Set the audio input gain. A valid value ranges from 0 to 255. The greater the gain, the louder the sound.
Audio Compression	Two options: **G.711U** and **G.711A**.
Noise Suppression	Reduce noise in digital audio. **Note:** This function is enabled by default.
Channel 1	Select the **Enable** check box to enable audio output. **Note:** This function is not supported by some models.

2. Click **Save** to save the settings.

3.3.4 ROI

When Region of Interest (ROI) is enabled, the system ensures image quality for the specified areas on the image at low bit rate.

Note:
This function is not supported by some models.

Go to **Setup** > **Video & Audio** > **ROI**.

1. Click + to add a area. Up to 8 areas can be added.
2. Adjust the position and size of the area as needed.
   - Point to the area and drag it to the desired position.
   - Drag the corners of the area to resize it.

3. To delete the area, click 🗑.

3.3.5 Media Stream

Configure media stream so that media contents such as audio, video and multimedia files can be transmitted over the network and played immediately, rather than being downloaded first.

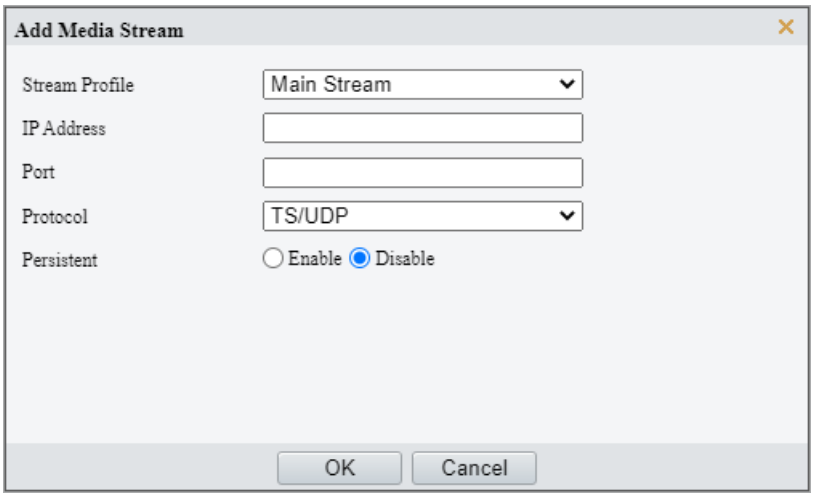
Go to **Setup** > **Video & Audio** > **Media Stream**.

Note:
This function is not supported by some models.

Media Stream

Go to **Setup** > **Video & Audio** > **Media Stream**.

1. Click +.



2. Set the parameters.

Item	Description
Stream Profile	Select a stream type.
IP Address	Enter the IP address and make sure the IP address is unique in the network.
Port	Enter the port number. A valid value ranges from 1 to 65535.

Item	Description
Protocol	Three options: **TS/UDP**, **EC/UDP**, and **RTMP**. • TS/UDP: Send TS files via multicast. • EC/UDP: Send EC files via multicast. • RTMP: Used for audio/video and data communication between client and server.
Persistent	Set whether to automatically establish the configured media stream after reboot.

3. Click **OK** to save the settings.
4. To delete, click .

RTSP Multicast Address

Configure RTSP multicast so that the third-party player can request RTSP multicast media streams from the camera through the RTSP protocol.

Go to **Setup** > **Video & Audio** > **Media Stream** > **RTSP Multicast Address**.

1. Set the parameters.

Item	Description
Main Stream/Sub Stream	Set the main stream and sub stream.
Multicast Address	Enter the multicast address. **Note:** A valid multicast address ranges from 224.0.1.0 to 239.255.255.255.
Port	Enter the port number. **Note:** A valid port number ranges from 0 to 65535.

2. Click **Save** to save the settings.

3.4 Image

3.4.1 Image

Configure image parameters such as exposure and illumination.

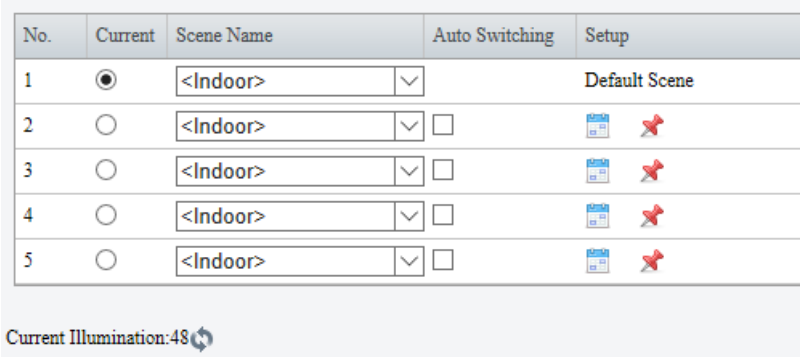
Note:

- The image parameters displayed and value ranges allowed may vary with device model.
- You may drag the sliders to adjust settings or enter values in the text boxes directly.
- Clicking **Default** will restore all image settings to defaults.

Go to **Setup** > **Image** > **Image**.

Scenes

Click **Scenes**.

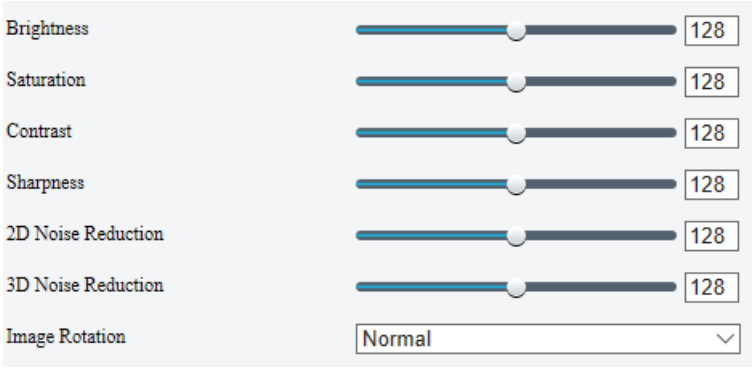


Set the parameters.

Item	Description
Current	Click ◉ to set the current scene.
Scene Name	Set the scene type. • Indoor: Recommended for indoor scenes. • WDR: Recommended for scenes with high-contrast lighting, such as window, corridor, front door or other scenes that are bright outside but dim inside. • Road Highlight Compensation(HLC): Used for suppressing strong light such as headlights on roads and spotlight in parks. Recommended for capturing vehicle license plates. • Custom: Customize the scene name.
Auto Switching	Select whether to add the scene to the auto-switching list. **Note:** • When enabled, if the conditions for switching to a non-default scene are met, the device will automatically switch to the scene; otherwise, the device uses the default scene. • If multiple non-default scenes meet the switching conditions at the same time, the device will switch to the scene with the minimum number (starts from 1 to 5).
	Set auto-switching conditions, including schedule and illumination. **Note:** • Up to 4 schedules are allowed. The schedules cannot overlap. • Auto switching can only be triggered when the time and illumination meet the set conditions.
	Set the scene as the default scene.
Current Illumination:48	Click to refresh the illumination value.
Enable Auto Switching	Turn on or off **Auto Switching**. When enabled, the scene parameters cannot be configured, and the device will automatically switch between the set scenes.

Image Enhancement

Click **Image Enhancement**.

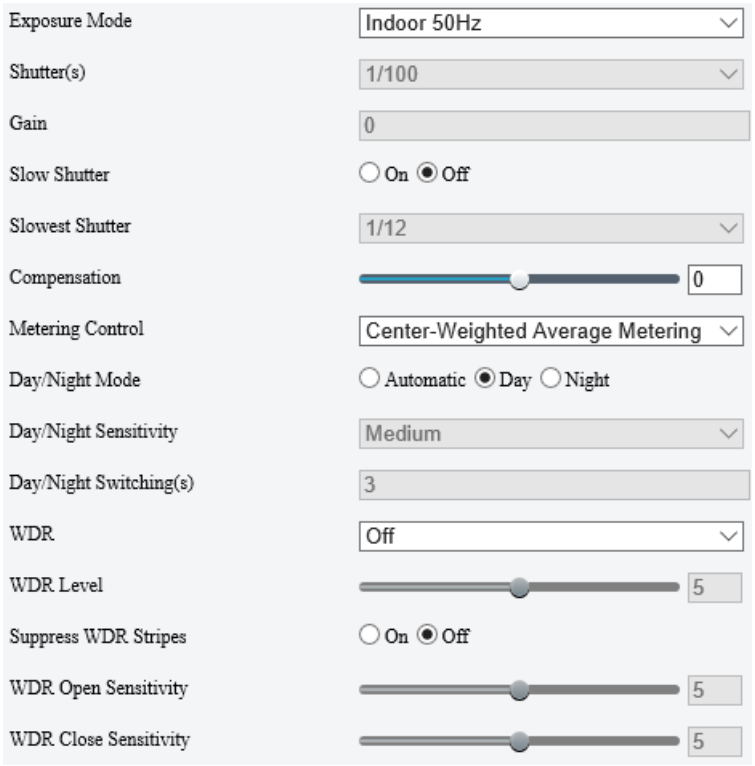


Set the parameters.

Item	Description
Brightness	The greater the value, the brighter the images appear.
Saturation	The greater the value, the more vivid the images appear.
Contrast	The greater the value, the more clear and colorful the images appear.
Sharpness	The greater the value, the sharper the edges of images.
2D Noise Reduction	Reduce noise in images to improve image quality. It may cause image blurring, especially at the edges of the image.
3D Noise Reduction	Reduce noise in images to improve image quality. It may cause image ghosting or smearing.
Image Rotation	Adjust image direction.

Exposure

Click **Exposure**.



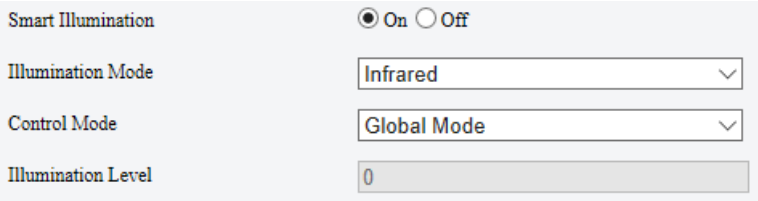
Set the parameters.

Item	Description
Exposure Mode	Select the correct exposure mode to achieve the desired exposure effect. • Automatic: The camera automatically adjusts exposure according to the environment. • Custom: User can set exposure as needed. • Shutter Priority: The camera adjusts shutter as priority to adjust the image quality. • Iris Priority: The camera adjusts iris as priority to adjust the image quality. • Indoor 50Hz: Reduce stripes by limiting shutter frequency. • Indoor 60Hz: Reduce stripes by limiting shutter frequency. • Manual: Fine tune image quality by setting shutter, gain and iris manually. • Low Motion Blur: Control the minimum shutter to reduce motion blur in faces captured in motion. **Note:** This function may vary with device model.
Shutter(s)	Shutter is used to control the light that comes into the lens. A fast shutter speed is ideal for scenes in quick motion. A slow shutter speed is ideal for scenes that change slowly. **Note:** • You can set a shutter speed when **Exposure Mode** is set to **Manual**, **Low Motion Blur** or **Custom**. • When **Slow Shutter** is disabled, the reciprocal of the shutter speed must be greater than the frame rate.
Gain	Control image signals so that the camera can output standard video signals in different light conditions. **Note:** This parameter can be configured only when **Exposure Mode** is set to **Manual** or **Custom**.
Slow Shutter	Improve image brightness in low light conditions.
Slowest Shutter	Set the slowest shutter speed that the camera can use during exposure.
Compensation	Adjust the compensation value as required to achieve the desired image effect. **Note:** This parameter cannot be configured when **Exposure Mode** is set to **Manual**.
Metering Control	Set how the camera measures the intensity of light. • Center-Weighted Average Metering: Measure light mainly in the central part of images. • Evaluative Metering: Measure light in the specified area of images. • Spot Metering: Similar to evaluative metering. But it cannot increase the brightness of images. • Face Metering: Adjust image quality in poor lighting conditions by controlling the brightness of captured faces in face scenes. **Note:** This function may vary with device model and cannot be configured when **Exposure Mode** is set to **Manual**.

Item	Description
Day/Night Mode	Set the day/night mode. • Automatic: The camera can automatically switch between night mode and day mode according to the ambient lighting condition to output optimum images. • Day: The camera outputs high-quality images in daylight conditions. • Night: The camera outputs high-quality images in low-light conditions. • Input Boolean: The camera switches between day mode and night mode according to the Boolean value input from a connected third-party device. **Note:** This function may vary with device model.
Day/Night Sensitivity	Light threshold for switching between day mode and night mode. A higher sensitivity value means that the camera is more sensitive to the change of light and is therefore more easily to switch between day mode and night mode. **Note:** This parameter can be configured only when **Day/Night Mode** is set to **Automatic**.
Day/Night Switching(s)	Set the length of time before the camera switches between day mode and night mode after the switching conditions are met. **Note:** This parameter can be configured only when **Day/Night Mode** is set to **Automatic**.
WDR	Enable WDR to ensure clear images in high contrast conditions. **Note:** This parameter can be configured only when **Exposure Mode** is set to **Automatic**, **Custom**, **Shutter Priority**, **Indoor 50Hz** or **Indoor 60Hz** and when **Image Stabilizer** and **Defog** are disabled.
WDR Level	After enabling WDR, you can improve image quality by adjusting the WDR level. **Note:** Use level 7 or higher when there is a high contrast between the bright and dark areas of the scene. In the case of low contrast, it is recommended to disable WDR or use level 1 to 6.
Suppress WDR Stripes	When enabled, the camera can automatically adjust slow shutter frequency according to the light frequency to minimize stripes that may appear in images.
WDR Open Sensitivity\WDR Close Sensitivity	When WDR is set to **Automatic**, adjust the parameter to change the WDR switching sensitivity.

Smart Illumination

Click **Smart Illumination**.

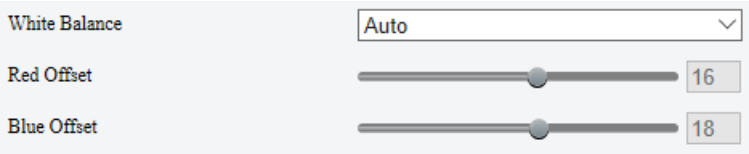


Set the parameters.

Item	Description
Smart Illumination	Turn on or off **Smart Illumination**.
Illumination Mode	Set the illumination mode. • Infrared: The camera uses infrared light illumination. • White Light: The camera uses white light illumination. • Warm Light: The camera uses warm light illumination. • Laser: The camera uses laser light illumination. **Note:** This function may vary with device model.
Control Mode	Set the illumination control mode. • Global Mode: The camera automatically adjusts illumination and exposure to achieve the balanced image effect. Some areas might be overexposed if you select this option. This option is recommended if you focus on the monitoring range and image brightness. • Overexposure Restrain: The camera automatically adjusts illumination and exposure to avoid regional overexposure. Some areas might be dark if you select this option. This option is recommended if you focus on the clarity of the monitoring center area and overexposure control.
Illumination Level	Set the illumination level. The greater the value, the higher the intensity. 0 means that the illumination is turned off.

White Balance

Click **White Balance**.

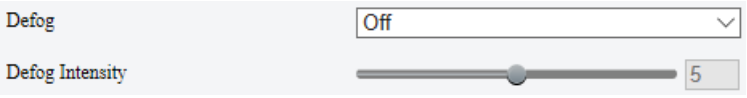


Set the parameters.

Item	Description
White Balance	Adjust the red or blue offset of the image to remove unrealistic color casts. • Auto/Auto 2: Adjust the red or blue offset automatically according to the lighting condition (the color tends to be blue). If the image has color casts in **Auto** mode, you can switch to **Auto 2** mode. • Fine Tune: Adjust the red or blue offset manually. • Sodium Lamp: Adjust the red or blue offset automatically according to the lighting condition (the color tends to be red). • Outdoor: Used for outdoor environments where the color temperature varies widely. • Locked: Keep the current color temperature.
Red Offset	Adjust the red offset manually. **Note:** This parameter can be configured only when **White Balance** is set to **Fine Tune**.
Blue Offset	Adjust the blue offset manually. **Note:** This parameter can be configured only when **White Balance** is set to **Fine Tune**.

Advanced

Click **Advanced**.



Set the parameters.

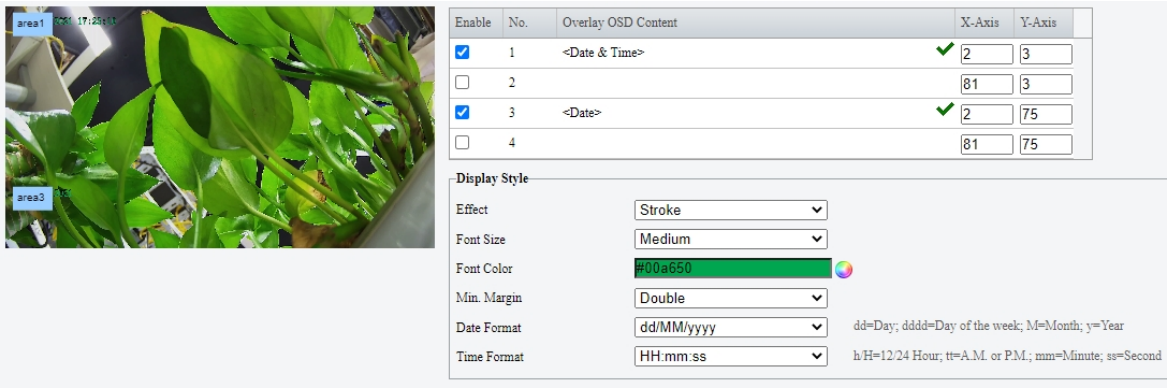
Item	Description
Defog	Turn on or off **Defog**.
Defog Intensity	Set the defog intensity.

3.4.2 OSD

On Screen Display (OSD) are characters displayed with video images, for example, camera name, date and time.

Go to **Setup** > **Common** > **OSD**.

Note:
This function may vary with device model.



Set the parameters.

Item		Description
Enable		Select the check boxes in the **Enable** column to overlay the corresponding contents on the video images. **Note:** ✔ indicates the OSD is set successfully.
Overlay OSD Content		Select the content to be overlaid, including **Custom**, **Date & Time**, **Time**, **Date**, and **Network Port**.
X-Axis		Set the OSD position. **Note:** You can also set the OSD position as follows: point to the OSD box in the preview window, drag the box to the desired position after the cursor shape is changed.
Y-Axis		Set the OSD position. **Note:** You can also set the OSD position as follows: point to the OSD box in the preview window, drag the box to the desired position after the cursor shape is changed.
Display Style	Effect	Set the display effect, including **Background**, **Stroke**, **Hollow**, and **Normal**. The default display effect is **Background**.
	Font Size	Set the font size, including **Large**, **Medium**, and **Small**. The default font size is **Medium**.
	Font Color	Set the font color. 1. Click . 2. Select the desired color.
	Min. Margin	Set the minimum margin, including **None**, **Double**, and **Single**.

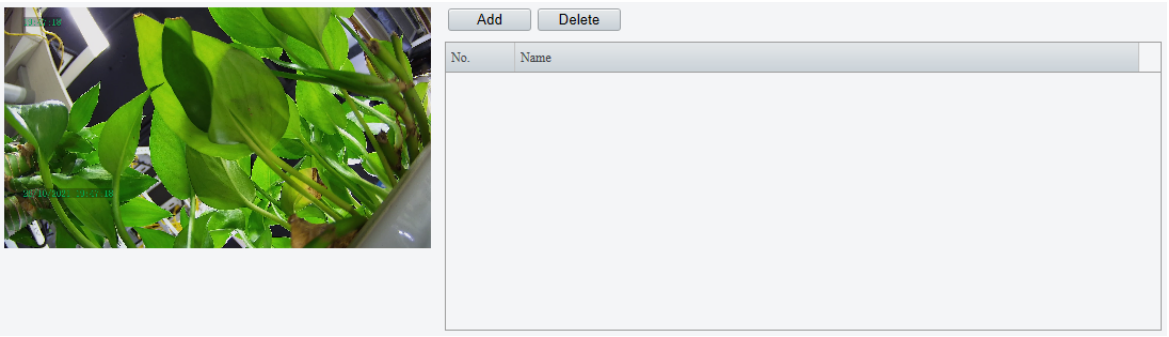
Item		Description
	Date Format	Set the date format. 9 formats are available, the default date format is **dd/MM/yyyy**. **Note:** dd=Day; dddd=Day of the week; M=Month; y=Year
	Time Format	Set the time format. 2 formats are available, the default time format is **HH:mm:ss**. **Note:** h/H=12/24 Hour; tt=A.M. or P.M.; mm=Minute; ss=Second

3.4.3 Privacy Mask

On certain occasions, you may need to set a mask area on the camera image to protect privacy, for example, the keyboard of an ATM machine.

Note:
This function may vary with device model.

Go to **Setup** > **Image** > **Privacy Mask**.



- Adding a privacy mask

  Click Add to add a privacy mask. Up to 4 masks are allowed.
- Modifying a privacy mask
  - Point to the mask box and drag it to the desired position.
  - Drag the corners of the box to resize it.

- Deleting a privacy mask
  1. Click the mask you want to delete.
  2. Click Delete.

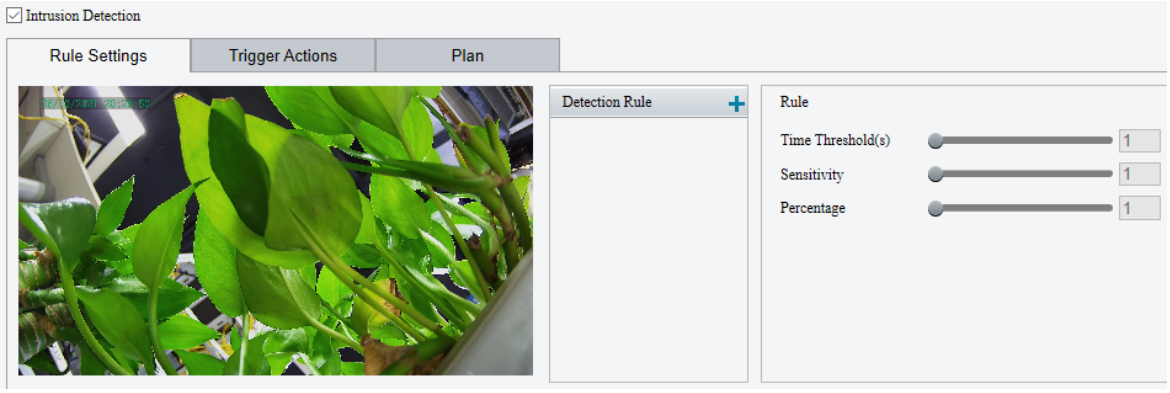
3.5 Intelligent

3.5.1 Intrusion Detection

Intrusion detection detects objects entering a user-specified area and staying for a preset time and triggers an alarm.

Note:
This function may vary with device model.

Go to **Setup** > **Intelligent** > **Smart**. Click ⚙ right to **Intrusion** to configure intrusion detection parameters.



1. Select the **Intrusion Detection** check box to enable intrusion detection.
2. Click ➕ to add a detection area.
3. Adjust the position and size of the area or draw an area as needed.
   - Adjust the position and size of the area.
     - Point to the area and drag it to the desired position.
     - Drag the corners of the area to resize it.
   - Draw an area.
     Click in the preview window to draw a hexagonal area.
4. Set the rules for reporting intrusion alarms.

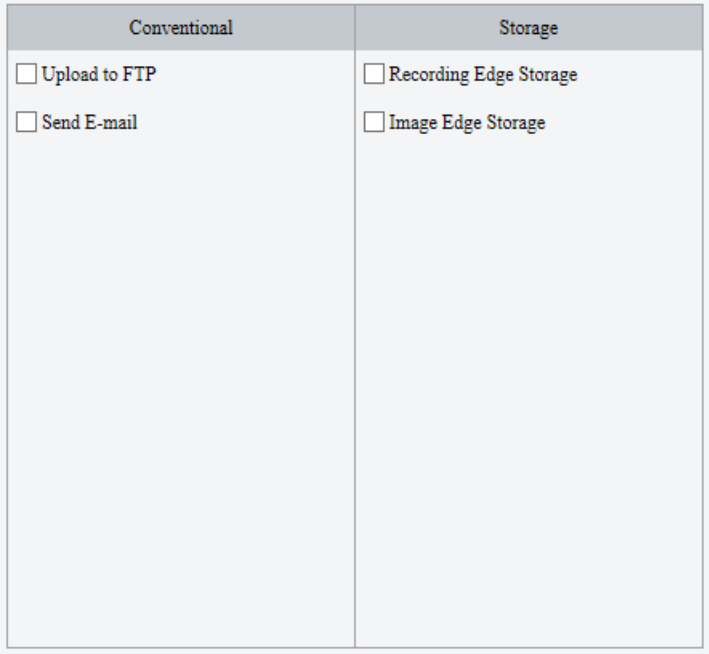
Item	Description
Time Threshold(s)	Set the time threshold that an object stays in the detection area. If the time that an object stays in the detection area exceeds the threshold, an alarm will be triggered.
Sensitivity	The higher the sensitivity, the more likely an intruder will be detected.
Percentage	Set the percentage of the size of an intruder against the size of the detection area. If the percentage of the size of an intruder against the size of the detection area exceeds the set value, an alarm will be triggered.

5. Set alarm-triggered actions. See Alarm-triggered Actions.
6. Modify the arming schedule. See Arming Schedule.

3.5.2 Alarm-triggered Actions

Configure linkage actions (actions to be triggered when an alarm occurs) so that the user can handle the alarm in time.

Note:
This function may vary with device model.



1. Set the parameters.

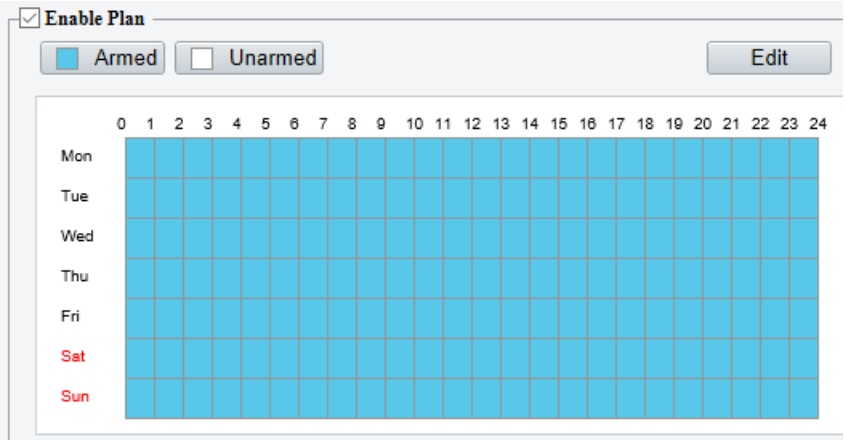
Item		Description
Conventional	Upload to FTP	The camera uploads snapshots to the specified FTP server when an alarm occurs. **Note:** Configure FTP and Snapshot first before using this function.
	Send E-mail	The camera sends snapshots to the specified email addresses when an alarm occurs. **Note:** Configure E-mail and Snapshot first before using this function.
Storage	Recording Edge Storage	The camera saves recordings to SD card when an alarm occurs. **Note:** Configure Storage first before using this function.
	Image Edge Storage	The camera saves snapshots to SD card when an alarm occurs. **Note:** Configure Storage first before using this function.

2. Click **Save** to save the settings.

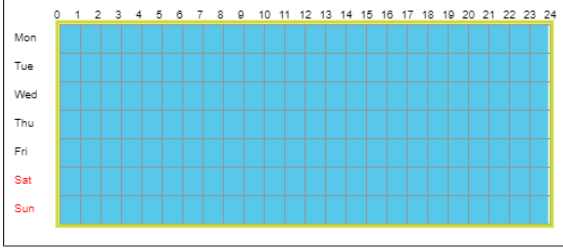
3.5.3 Arming Schedule

Set time periods during which alarms can occur.

Note:
This function may vary with device model.

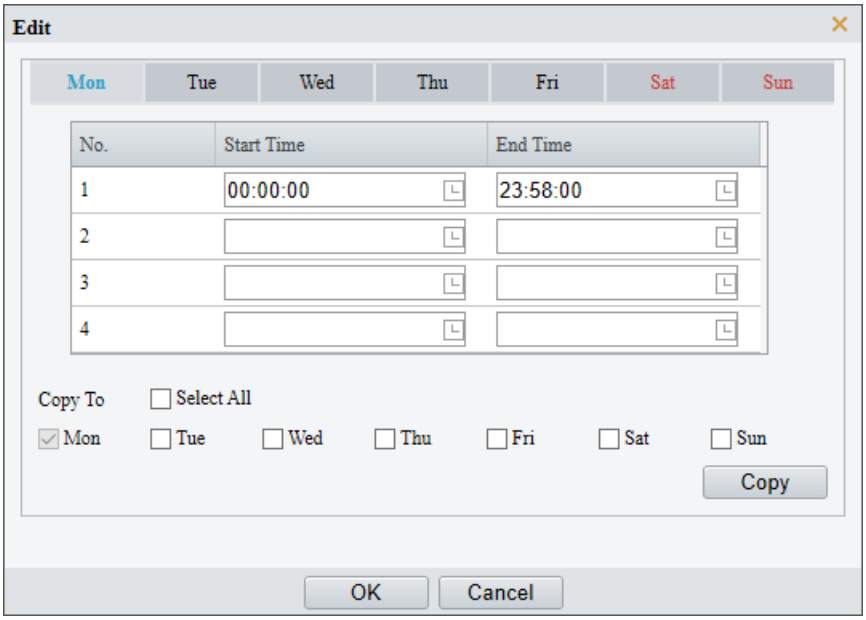


1. Select the **Enable Plan** check box to enable arming schedule.
2. See the table below for arming schedule configuration.

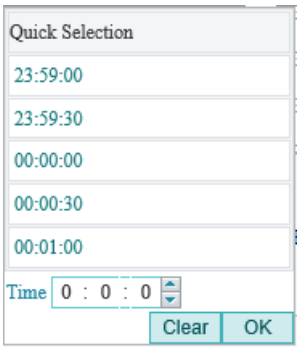
Item	Description
Armed	Click to set the arming time in the schedule below.
Unarmed	Click to set the time to cancel arming in the schedule below.
Edit	Click to edit the arming schedule.
	Arming schedule. • indicates armed period. • indicates disarmed period.

3. Configure arming schedule.
   - Edit a schedule

     (1) Click Edit.



     (2) Set the arming time. You can click to select time or directly type the time in the **Time** text box.



(3) Click **OK** to save the settings. To clear the settings, click **Clear**.

Note:
To apply the same time settings to other days, select the desired day(s), and then click **Copy**.

- Draw a schedule
  - To set an arming schedule, click **Armed**, and then click the time cells you want to enable arming.

    Note:
    You may also drag your mouse to select in batches.
  - To delete an arming schedule, click **Unarmed**, and then click the time cells you want to disable arming.

4. Click **Save** to save the settings.

3.6 Events

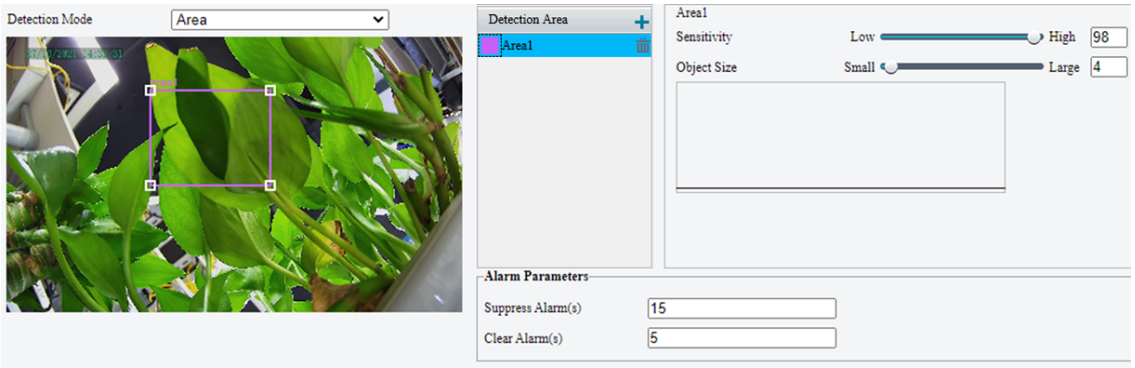
3.6.1 Motion Detection

Motion detection detects moving objects in the detection area and triggers an alarm.

Go to **Setup** > **Events** > **Common Alarm** > **Motion Detection**.

Area Detection

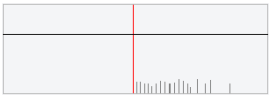
1. In the **Detection Mode** list, click **Area**.



2. Click ➕ to add a detection area. Up to 4 detection areas are allowed.
3. Adjust the position and size of the area as needed.
   - Point to the area and drag it to the desired position.
   - Drag the corners of the area to resize it.

4. Set detection rules.

Item	Description
Sensitivity	Set the detection sensitivity. The higher the sensitivity, the more likely small motions will be detected.

Item	Description
Object Size	Set the percentage of the size of an moving object against the size of the detection area. If the percentage of the size of an moving object detected against the size of the detection area exceeds the set percentage, an alarm will be triggered. **Note:** To detect tiny moving objects, you need to draw a small box (detection area) in the actual motion area accordingly.
	Real-time motion detection results. **Note:** • The red lines represent the reported motion detection alarms. • The longer a line, the greater the extent of motion. • The denser the lines, the higher the frequency of motion.

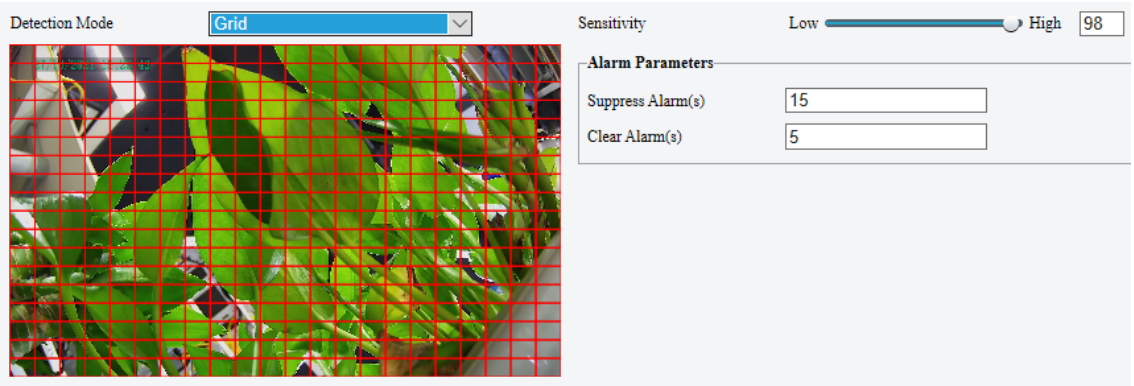
5. Set alarm parameters.

Item	Description
Suppress Alarm(s)	After an alarm is triggered, the same alarm will not be reported within the set time.
Clear Alarm(s)	Set when an alarm will be cleared. After an alarm is triggered: • If the same alarm is not triggered within the set time, the alarm will be cleared at the end of the set time. • If the same alarm is triggered within the set time, the alarm will be cleared at the end of the suppress alarm time.

6. To delete the area, click .
7. Set alarm-triggered actions. See Alarm-triggered Actions.
8. Modify the arming schedule. See Arming Schedule.
9. Click **Save** to save the settings.

Grid Detection

1. In the **Detection Mode** list, click **Grid**.

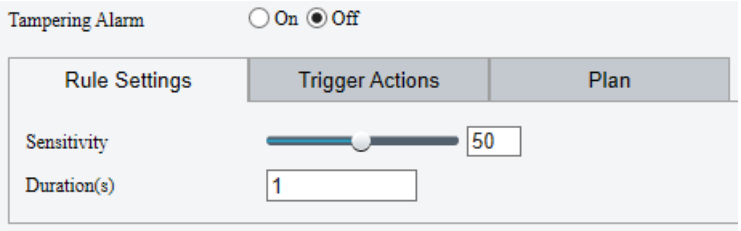


2. In the preview window, click or drag your mouse to set the detection area.
3. Set the detection sensitivity.
4. Set alarm rules.
5. Set alarm-triggered actions. See Alarm-triggered Actions.
6. Modify the arming schedule. See Arming Schedule.
7. Click **Save** to save the settings.

3.6.2 Tampering Alarm

Configure tampering alarm so that the camera reports a tampering alarm when the lens is blocked for a certain length of time.

Go to **Setup** > **Events** > **Common Alarm** > **Tampering Alarm**.



1. Enable **Tampering Alarm**. This function is disabled by default.
2. Set alarm rules.

Item	Description
Sensitivity	Set the detection sensitivity. The higher the sensitivity, the more likely the lens blocking from a farther location will be detected.
Duration(s)	Set the lens blocking duration. If the lens is blocked for more than the set time, an alarm will be triggered.

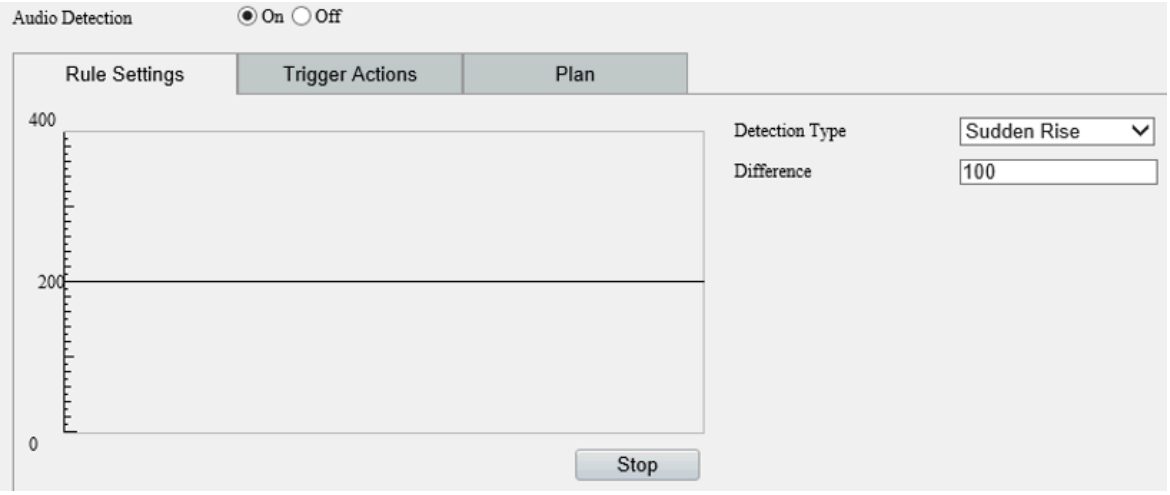
3. Set alarm-triggered actions. See Alarm-triggered Actions.
4. Modify the arming schedule. See Arming Schedule.
5. Click **Save** to save the settings.

3.6.3 Audio Detection

The camera can detect input audio signals for exceptions. When the rise or fall of volume exceeds the set limit, or when the input volume reaches the threshold, the camera reports an alarm and triggers the set actions.

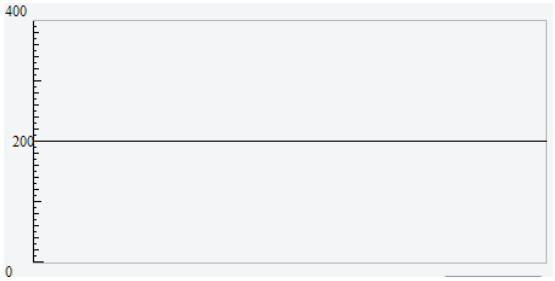
Note:
Make sure that an audio input device is correctly connected to the camera and audio input is turned on. See Audio.

Go to **Setup** > **Events** > **Common Alarm** > **Audio Detection**.



1. Enable **Audio Detection**. This function is disabled by default.
2. Set alarm rules.

Item	Description
Detection Type	Set the detection type. • Sudden Rise: An alarm is reported when the rise of volume exceeds the difference. • Sudden Fall: An alarm is reported when the fall of volume exceeds the difference. • Sudden Change: An alarm is reported when the rise or fall of volume exceeds the difference. • Threshold: An alarm is reported when the volume exceeds a threshold.

Item	Description
Difference	Set the alarm difference or threshold. • Threshold: After a volume is set as the threshold, an alarm is reported when the threshold is exceeded. • Difference: The difference between two volumes. When the rise or fall of volume exceeds the difference, an alarm is reported.
	Real-time audio detection results.
Start / Stop	Show or hide audio detection results.

3. Set alarm-triggered actions. See Alarm-triggered Actions.
4. Modify the arming schedule. See Arming Schedule.
5. Click **Save** to save the settings.

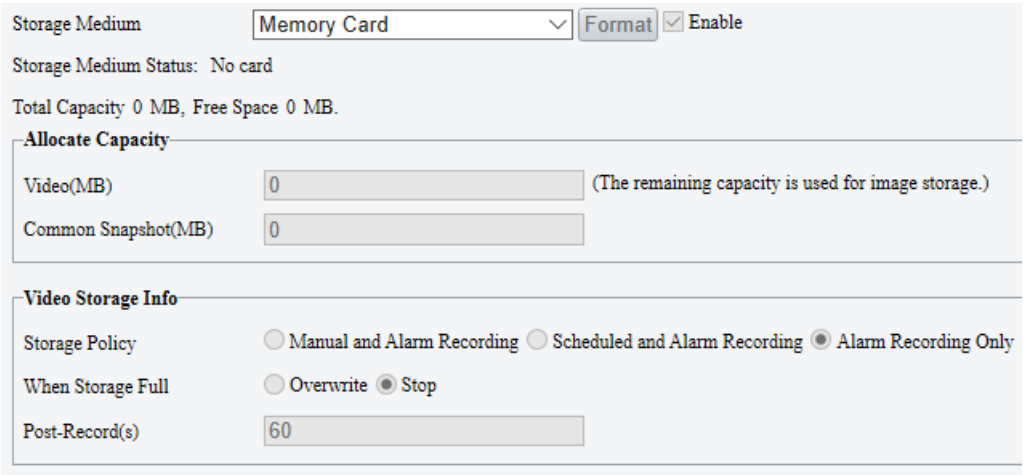
3.7 Storage

3.7.1 Storage

Configure storage so that you can save videos and snapshots in storage resources mounted on the device. This function is recommended when the camera is running in stand-alone mode.

Note:
This function is not supported by some models, and may vary with device model.

Go to **Setup** > **Storage** > **Storage**.



1. Set the parameters.

Item	Description
Storage Medium	Two options: **Memory Card** and **NAS**.
IP Address	Enter the IP address when **Storage Medium** is set to **NAS**.
Path	Set the path to save files when **Storage Medium** is set to **NAS**.

Item		Description
Format		To format the memory card, select the **Enable** check box and then click **Format**. **Note:** The device will restart after the formatting is completed.
NAS Test		Test if NAS is available.
Allocate Capacity	Video(MB)	Allocate storage capacity for videos.
	Common Snapshot(MB)	Allocate storage capacity for common snapshots.
Video Storage Info	Storage Policy	Select a storage policy, including **Manual and Alarm Recording**, **Scheduled and Alarm Recording**, and **Alarm Recording Only**.
	When Storage Full	Set the storage strategy when the memory card is full. • Overwrite: If there is no free space in the memory card, new data will overwrite the existing data repeatedly. • Stop: If there is no free space in the memory card, new data will not be saved to the memory card.
	Post-Record(s)	The duration set to record after an alarm.

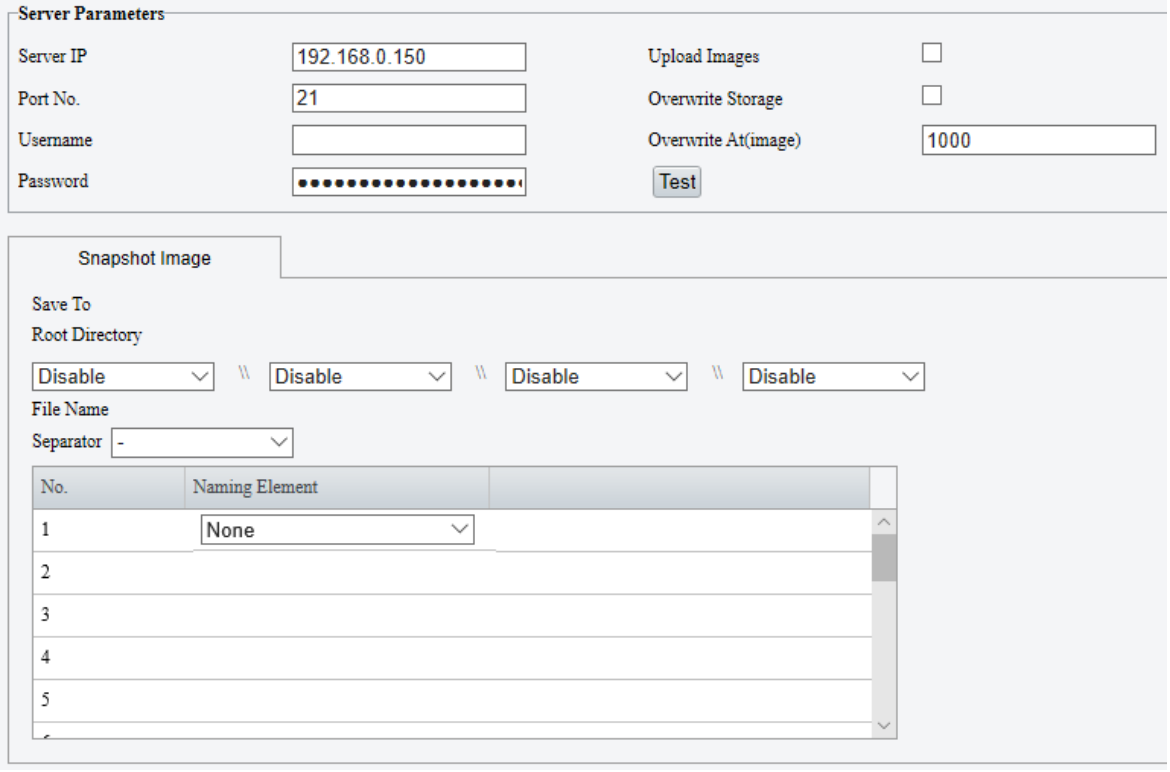
2. Click **Save** to save the settings.

3.7.2 FTP

Configure FTP so that you can upload snapshots from network cameras to the specified FTP server.

Note:
The parameters displayed in the **FTP** page may vary with device model.

Go to **Setup** > **Storage** > **FTP**.



1. Set the server parameters.

Item	Description
Server IP	Set the IP address of the FTP server.
Upload Images	Set whether to upload images.
Port No.	Set the port number of the FTP server.
Overwrite Storage	Set whether to overwrite storage.
Username	Set the username.
Overwrite At(image)	Set the threshold for overwriting images. A valid value ranges from 1 to 100000.
Password	Set the password.
Test	Some models support FTP test. You may test FTP after completing FTP settings correctly.

2. Set the snapshot parameters.

Item	Description
Save To	The path for saving snapshots.
Root Directory	Set the path to save snapshots.
File Name	File name.
Separator	Select a separator.
Naming Element	Set the naming rules for snapshots.

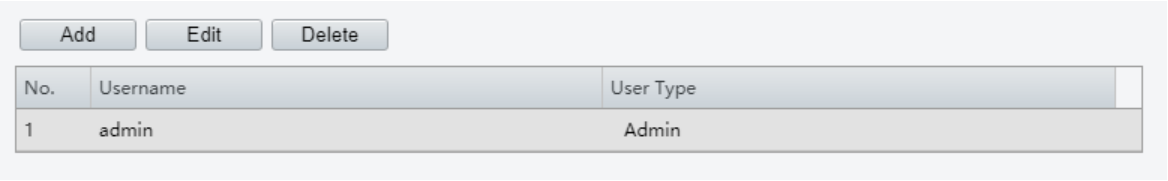
3. Click **Save** to save the settings.

3.8 Security

3.8.1 User

Add, delete or edit user information.

Go to **Setup** > **Common** > **User**.



Set the parameters.

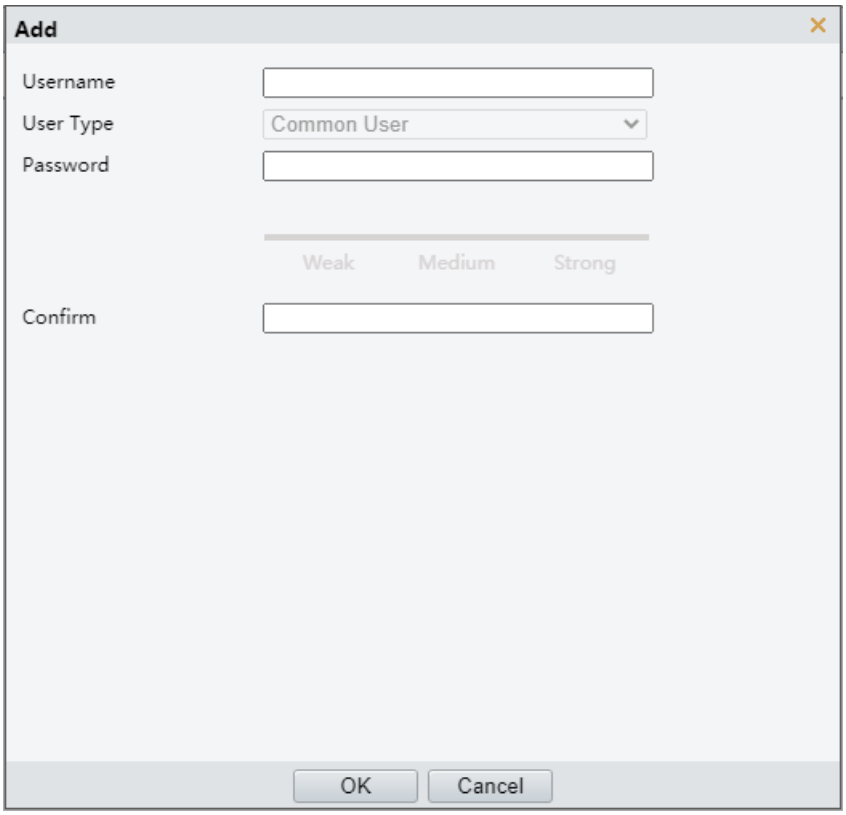
Item	Description
Username	You can set it when adding a user. See Adding a User. **Note:** The default administrator name is admin, which cannot be modified.

User Type	You can set it when adding a user.
	Note:
	• The system supports two user types: **Admin** and **Common User**.
	  • Only 1 administrator is allowed.
	  • Up to 31 common users are allowed.
	• The admin user has all permissions for managing the device and other users, and the common user only has the live view and playback permissions.

Add	Add users. See Adding a User.
Edit	Edit user information. See Editing User Info.
Delete	Delete users. See Deleting a User.

Adding a User

1. Click **Add**.



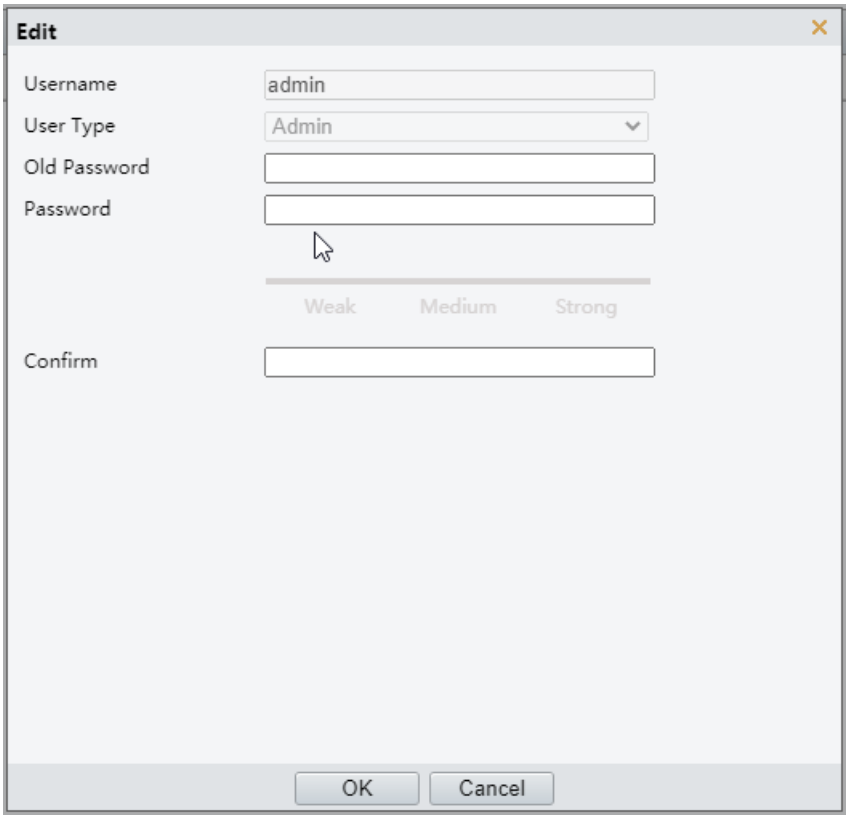
2. Set the parameters.

Item	Description
Username	Set the username.
User Type	Set the user type.
Password	Set the password.
Confirm	Confirm the password you entered by entering it again. Make sure that the two passwords you entered are the same.

3. Click **Save** to save the settings.

Editing User Info

1. Select the user you want to edit.
2. Click **Edit**.



3. Set the parameters.

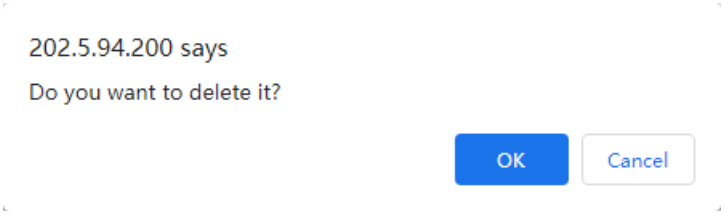
Item	Description
Username	See User.
User Type	See User.
Old Password	Enter the old password.
Password	Enter the new password.
Confirm	Confirm the new password you entered by entering it again. Make sure that the two new passwords you entered are the same.

4. Click **Save** to save the settings.

Note:
Changing the username or password for a user when the user is still logged in will force the user to log out. The user must use the new username or password to log in.

Deleting a User

1. Select the user you want to delete.
2. Click **Delete**.



3. Click OK. Parameter(s) set successfully. means the user is deleted successfully.

Note:
- The admin user cannot be deleted.
- Deleting a user when the user is still logged in will force the user to log out.

3.8.2 Network Security

Configure network security to ensure system security.

Go to **Setup** > **Security** > **Network Security**.

Note:
The network security parameters may vary with device model.

HTTPS

Note:
This function is not supported by some models.

1. Go to **Setup** > **Security** > **Network Security** > **HTTPS**.

2. Set the parameters.

Item	Description
HTTPS	Turn on or off **HTTPS**.
Browse...	Click to import the SSL certificate.

3. Click **Save** to save the settings.

Authentication

1. Go to **Setup** > **Security** > **Network Security** > **Authentication**.

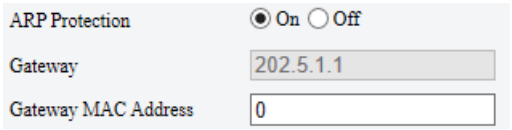
2. Set the parameters.

Item	Description
RTSP Authentication	Select an RTSP authentication mode, including **None**, **Basic**, and **Digest**.
HTTP Authentication	Select an HTTP authentication mode, including **None** and **Digest**.

3. Click **Save** to save the settings.

ARP Protection

1. Go to **Setup** > **Security** > **Network Security** > **ARP Protection**.



2. Set the parameters.

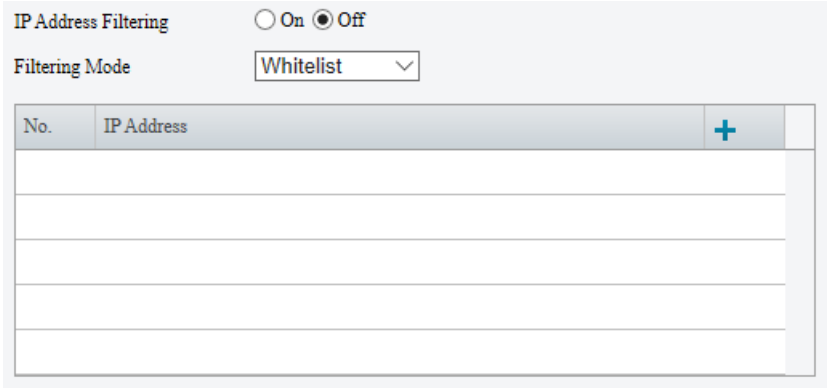
Item	Description
ARP Protection	Turn on or off **ARP Protection**.
Gateway	Set the gateway.
Gateway MAC Address	Set the gateway MAC address.

3. Click **Save** to save the settings.

IP Address Filtering

Note:
This function is not supported by some models.

1. Go to **Setup** > **Security** > **Network Security** > **IP Address Filtering**.



2. Set the parameters.

Item	Description
IP Address Filtering	Turn on or off **IP Address Filtering**.
Filtering Mode	Select a filtering mode, including **Whitelist** and **Deny Access**.
+	Click to add the IP address to be filtered.
🗑	Click to delete the IP address.

3. Click **Save** to save the settings.

Note:

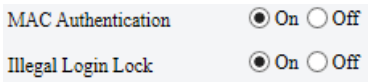
- If **Filtering Mode** is set to **Whitelist**, only the added IP address(es) are allowed to access the camera. If **Filtering Mode** is set to **Deny Access**, only the added IP address(es) are not allowed to access the camera.
- Up to 32 IP addresses are allowed. Each IP address can be added once only.
- The first byte of each IP address must be 1 to 223, and the fourth cannot be 0. For example, the following IP addresses are illegal and cannot be added: 0.0.0.0, 127.0.0.1, 255.255.255.255, 224.0.0.1.

Access Policy

Note:

The **MAC Authentication** and **Illegal Login Lock** are enabled by default. When **Illegal Login Lock** is enabled, the device is automatically locked for 5 minutes after 5 failed login attempts.

1. Go to **Setup** > **Security** > **Network Security** > **Access Policy**.



2. Set the parameters.

Item	Description
MAC Authentication	Turn on or off **MAC Authentication**.
Illegal Login Lock	Turn on or off **Illegal Login Lock**.

3. Click **Save** to save the settings.

3.8.3 Registration Info

Set whether to display vendor information of the device on the management platform.

Go to **Setup** > **Security** > **Registration Info**.

1. Set the parameters.

Item	Description
Hide Vendor Info	Turn on or off **Hide Vendor Info**.

2. Click **Save** to save the settings.

3.8.4 Watermark

Use watermark to encrypt custom information with video to prevent unauthorized deletion or alteration.

Go to **Setup** > **Security** > **Watermark**.

1. Set the parameters.

Item	Description
Watermark	Turn on or off **Watermark**.
Watermark Content	Set the watermark content.

2. Click **Save** to save the settings.

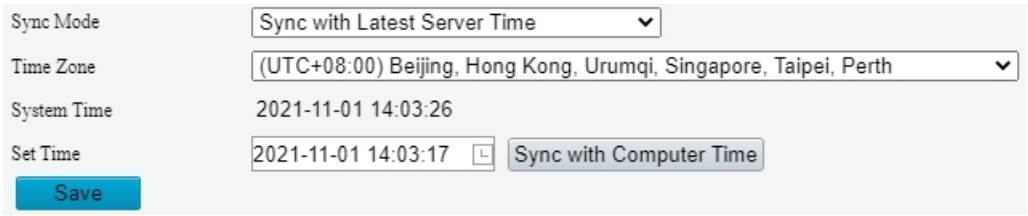
3.9 System

3.9.1 Time

Configure system time and DST parameters.

Time

1. Go to **Setup** > **Common** > **Time**.



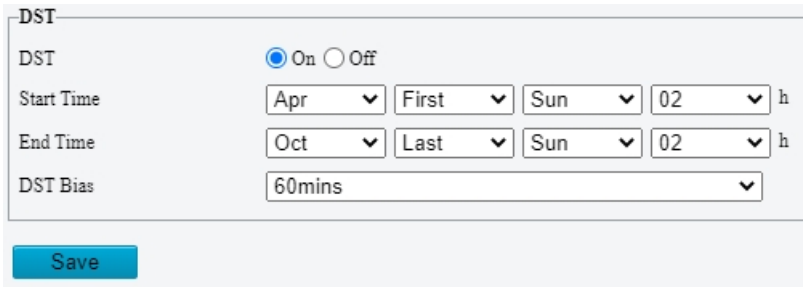
2. Set the parameters.

Item	Description
Sync Mode	Set the time sync mode. The default mode is **Sync with Latest Server Time**.
Time Zone	Set the time zone. The default time zone is **(UTC+00:00) London, Dublin, Lisbon**.
System Time	Display current system time. See the description of **Set Time** for system time customization.
Set Time	Set the system time as required. • Click 2021-10-25 16:39:10 to set the time manually. • Click Sync with Computer Time to sync the time and time zone with the PC. • Click Cancel Sync. to cancel sync.

3. Click **Save** to save the settings.

DST

1. Go to **Setup** > **Common** > **Time** > **DST**.



2. Set the parameters.

Item	Description
DST	Turn on or off **DST**. It is turned off by default.
Start Time	Set the start time.
End Time	Set the end time.
DST Bias	Set the offset time. The default offset time is 60 minutes.

3. Click **Save** to save the settings.

3.9.2 Maintenance

Perform maintenance operations for your device.

Note:
The maintenance parameters may vary with device model.

Go to **Setup** > **System** > **Maintenance**.

Software Upgrade

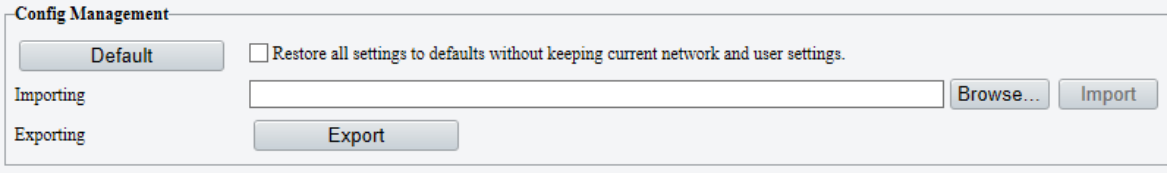
- Local upgrade
  1. Click **Browse** and select the upgrade file. Some models support boot program upgrade, you can select the **Upgrade Boot Program** check box to upgrade.
  2. Click **Upgrade** to start upgrade. The device will restart automatically after the upgrade is completed.
- Cloud upgrade
  Click **Detect** to see whether a new version is available.

Note:
- Do not disconnect power during upgrade. The device will restart after the upgrade is completed.
- Some models do not support cloud upgrade.
- If the upgrade file is a ZIP file, it must include all the necessary files.
- The target version must match the device, otherwise unexpected results may occur.

Configuration Management

Export the current configurations of the camera and save them to the PC or an external storage medium. You can also quickly restore configurations by importing backup configurations stored on the PC or an external storage medium back to the camera.

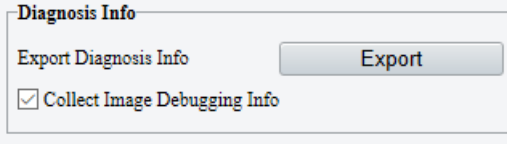
Note:
- After you perform the Default operation, all settings are restored to factory defaults, except the following: login password of the system administrator, network settings, and system time.
- Make sure you import the correct configuration file for your camera. Otherwise, unexpected results may occur.
- The camera will restart when the configuration file is imported successfully.



- Importing configuration file
  1. Click **Browse** and select the configuration file.
  2. Click **Import** to start importing.
- Exporting configuration file
  Click **Export** to export the configuration file to the PC.
- Restoring default settings
  1. Set whether to keep network and user settings.
  2. Click **Default** to start restoring.

Diagnosis Info

Diagnosis information includes logs and system configurations. You can export diagnosis information to your PC.

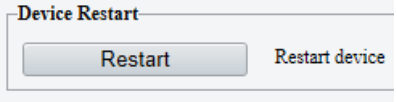


Click **Browse** to set the path for saving the exported diagnosis information and then click **Export**.

Note:

- Diagnosis information is exported to the local folder in the form of a compressed file. You need to decompress the file using a tool such as WinRAR and then open the file using a text editor.
- By selecting **Collect Image Debugging Info**, you can display video with debugging information at the same time, which makes troubleshooting easier.

Device Restart



Click **Restart** to restart the device.

Note:

Perform this operation with caution. Restarting the device will interrupt the ongoing services.