

Network Camera User Manual

V1.01

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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
V1.01	Replace the picture

Copyright Statement

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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:**

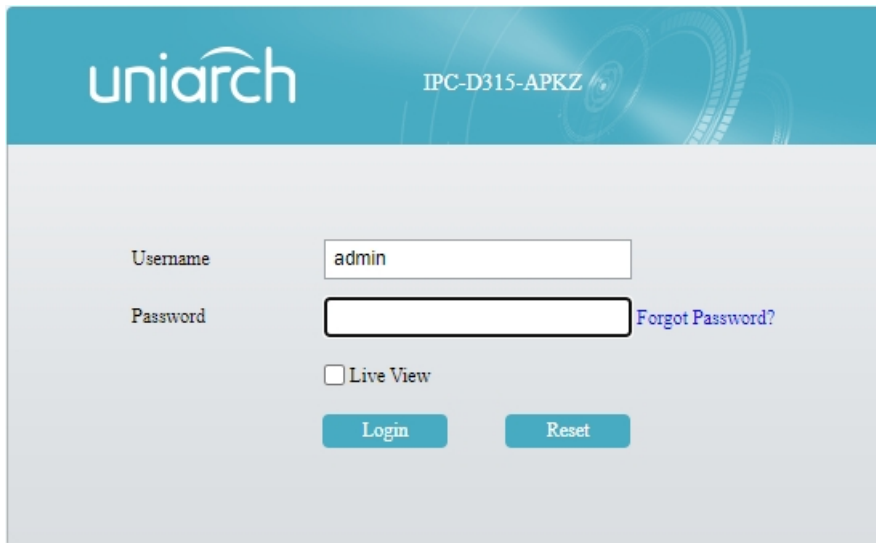
- The parameters and values displayed may vary with device model. The parameters that are grayed out on the Web GUI cannot be modified.
- The figures in this manual are for illustration purpose only and may vary with device model.

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**.



The screenshot shows the UniArch login interface. At the top, the UniArch logo and the device model 'IPC-D315-APKZ' are displayed. The main area contains a login form with the following elements:

- Username:** A text input field containing the value 'admin'.
- Password:** A password input field with a 'Forgot Password?' link to its right.
- Live View:** A checkbox labeled 'Live View' which is currently unchecked.
- Buttons:** Two buttons labeled 'Login' and 'Reset' are positioned at the bottom of the form.

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 / \ : * ? ' " < > | % &).

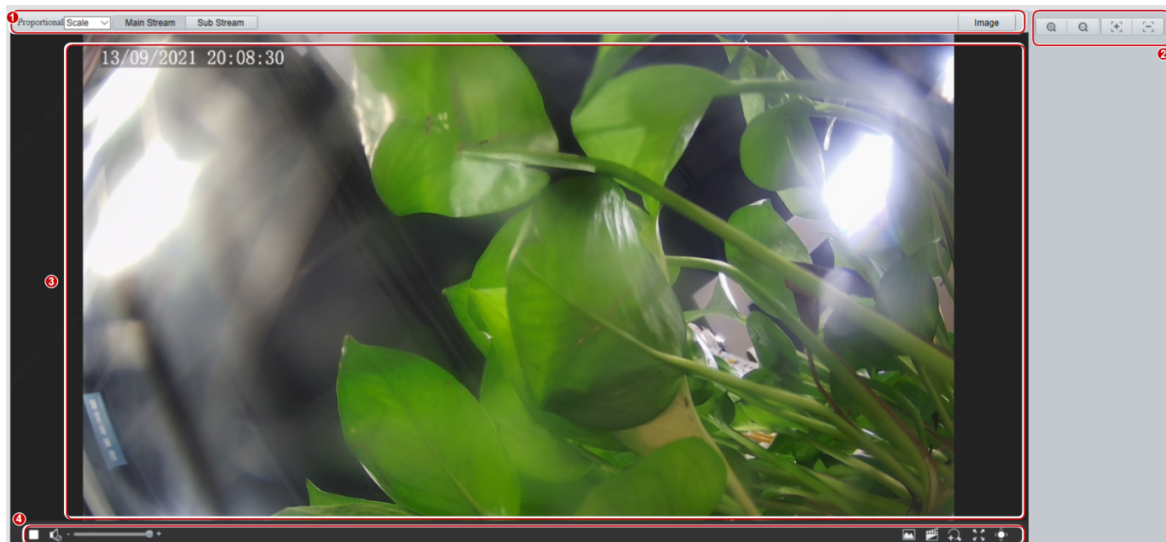
See [User](#) for details.

Retrieve Password

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

2 Live View



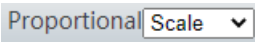


The **Live View** page appears after you log in.





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: **1** menu, **2** camera control panel, **3** live view window, **4** live view toolbar.

2.1 Menu

Item	Description
	Click  to log out.
	Set the image display ratio in the window. <ul style="list-style-type: none"> 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.
	Click this button to open the image setting page.
	Select a stream mode. <ul style="list-style-type: none"> Main Stream: High resolution mode (generally the maximum resolution supported by the device). Sub Stream: Low resolution mode (generally 720×576 (D2)). <p>Note: See Video for resolution configuration.</p>

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:**

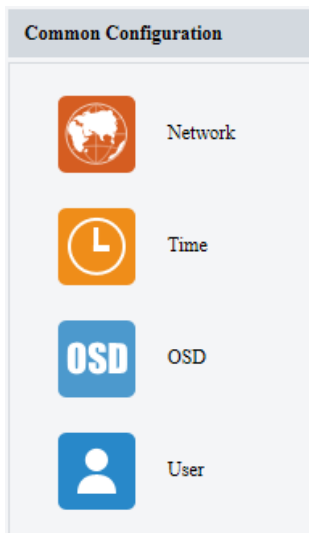
The parameters displayed in the **Basic Info** page may vary with device model.

Basic Info	
Basic Info	
Model	IPC-D315-APKZ
Network	202.5.94.200/255.255.0.0/202.5.1.1
MAC Address	6c:f1:7e:56:19:b7
Version Info	
Firmware Version	IPC_G6202-B0002P82D1911LJ05
Hardware Version	A
Boot Version	V2.0
Serial No.	210235C5F73215000017
Status	
System Time	2021/10/25 11:32:25
Operation Time	15 Day(s) 1 Hour(s) 1 Minute(s)
<input type="button" value="Refresh"/>	

- 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.

Manual

1. In the **Obtain IP Address** list, click **Manual**.
2. Set the parameters.

Item		Description
Obtain IP Address		Set how to obtain the IP address, including Manual , PPPoE , and Obtain Automatically(DHCP) . The figure above shows an example with Manual 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**.

Network

Obtain IP Address:

IP Address:

Username:

Password:

IPv6

IPv6 Mode:

IPv6 Address:

Prefix Length:

Default Gateway:

Port Type:

Operating Mode:


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.

Obtain Automatically(DHCP)

1. In the **Obtain IP Address** list, click **Obtain Automatically(DHCP)**.
2. Set the parameters.

Item	Description
Obtain IP Address	Set how to obtain the IP address. The figure above shows an example with Obtain Automatically(DHCP) selected.
IPv6	See Manual 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**.

Sync Mode

Time Zone

System Time 2021-11-01 14:03:26

Set 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. <ul style="list-style-type: none"> • Click <input type="text" value="2021-10-25 16:39:10"/> to set the time manually. • Click <input type="button" value="Sync with Computer Time"/> to sync the time and time zone with the PC. • Click <input type="button" value="Cancel Sync"/> to cancel sync.

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

DST

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

DST

DST On Off

Start Time h

End Time h

DST Bias

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.

Enable	No.	Overlay OSD Content	X-Axis	Y-Axis
<input checked="" type="checkbox"/>	1	<Date & Time>	<input checked="" type="checkbox"/> 2	<input type="text" value="3"/>
<input type="checkbox"/>	2		<input type="text" value="81"/>	<input type="text" value="3"/>
<input checked="" type="checkbox"/>	3	<Date>	<input checked="" type="checkbox"/> 2	<input type="text" value="75"/>
<input type="checkbox"/>	4		<input type="text" value="81"/>	<input type="text" value="75"/>

Display Style

Effect:

Font Size:

Font Color:

Min. Margin:

Date Format: dd=Day; dddd=Day of the week; M=Month; y=Year

Time Format: h/H=12/24 Hour; tt=A.M. or P.M.; mm=Minute; ss=Second

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.
	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.**

No.	Username	User Type
1	admin	Admin

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: <ul style="list-style-type: none"> The system supports two user types: Admin and Common User. <ul style="list-style-type: none"> 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**.

Add
✕

Username

User Type Common User ▼

Password

Weak
Medium
Strong

Confirm

2. Set the parameters.

Item	Description
Username	Set the username.

Item	Description
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

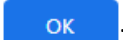
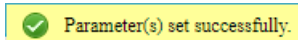
1. Select the user you want to delete.
2. Click **Delete**.

202.5.94.200 says

Do you want to delete it?

OK

Cancel

- Click .  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.

Manual

- In the **Obtain IP Address** list, click **Manual**.
- Set the parameters.

Item	Description	
Obtain IP Address	Set how to obtain the IP address, including Manual , PPPoE , and Obtain Automatically(DHCP) . The figure above shows an example with Manual 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.	

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

PPPoE



Note:

This function is not supported by some models.

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

Network

Obtain IP Address:

IP Address:

Username:

Password:

IPv6

IPv6 Mode:

IPv6 Address:

Prefix Length:

Default Gateway:

Port Type:

Operating Mode:


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.

Obtain Automatically(DHCP)

1. In the **Obtain IP Address** list, click **Obtain Automatically(DHCP)**.
2. Set the parameters.

Item	Description
Obtain IP Address	Set how to obtain the IP address. The figure above shows an example with Obtain Automatically(DHCP) selected.
IPv6	See Manual 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**.

Preferred DNS Server

Alternate DNS Server


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.



HTTP Port

HTTPS Port

RTSP Port

Note: Modifying the RTSP port number will cause the device to restart.

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. <ul style="list-style-type: none"> • 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**.

Port Mapping On Off

Mapping Type

UPnP Mapping

Port Type	External Port	External IP Address	Status
HTTP Port	<input type="text" value="80"/>	0.0.0.0	Inactive
RTSP Port	<input type="text" value="554"/>	0.0.0.0	Inactive
HTTPS Port	<input type="text" value="443"/>	0.0.0.0	Inactive

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**.

Port Mapping On Off

Mapping Type

UPnP Mapping

Port Type	External Port	External IP Address	Status
HTTP Port	<input type="text" value="80"/>	0.0.0.0	Inactive
Server Port	<input type="text" value="81"/>	0.0.0.0	Inactive
RTSP Port	<input type="text" value="554"/>	0.0.0.0	Inactive
HTTPS Port	<input type="text" value="443"/>	0.0.0.0	Inactive

- Manual

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

Port Mapping On Off

Mapping Type

UPnP Mapping

Port Type	External Port	External IP Address	Status
HTTP Port	<input type="text" value="80"/>	0.0.0.0	Inactive
Server Port	<input type="text" value="81"/>	0.0.0.0	Inactive
RTSP Port	<input type="text" value="554"/>	0.0.0.0	Inactive
HTTPS Port	<input type="text" value="443"/>	0.0.0.0	Inactive

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.

DDNS Service On Off

DDNS Type

Server Address

Domain Name

Username

Password

Confirm

Save

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**.

Uniarch On Off

Add Without Signup On Off

Address en-uniarch.uniview.com

Register Code 315C1LBKCPD4391J5PR8NI5S4

Device Status Offline

Scan 

Save

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.

Sender	
Name	<input type="text"/>
Address	<input type="text"/>
SMTP Server	<input type="text"/>
SMTP Port	<input type="text" value="25"/>
TLS/SSL	<input type="radio"/> On <input checked="" type="radio"/> Off
Snapshot Interval(s)	<input type="text" value="2"/> <input type="checkbox"/> Attach Image
Server Authentication	<input checked="" type="radio"/> On <input type="radio"/> Off
Username	<input type="text"/>
Password	<input type="password"/>

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 .
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.

Recipient	
Name1	<input type="text"/>
Address1	<input type="text"/> <input type="button" value="Test"/>
Name2	<input type="text"/>
Address2	<input type="text"/> <input type="button" value="Test"/>
Name3	<input type="text"/>
Address3	<input type="text"/> <input type="button" value="Test"/>

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.

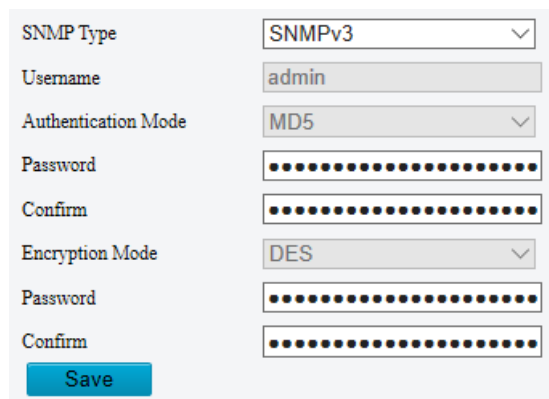
Item	Description
Test	Click to test the recipient's address.  Note: This function is not supported by some models.

- 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

- 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.

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

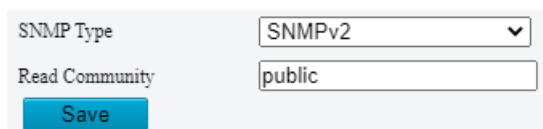
SNMPv2

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

There are risks using SNMPv2. SNMPv3 is recommended.
Continue to use SNMPv2?




- Click **OK**.



- Set the parameters.

Item	Description
SNMP Type	See SNMPv3 .

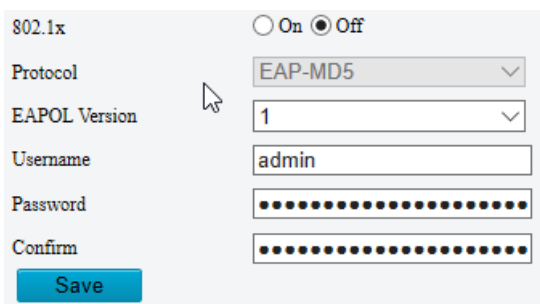
Item	Description
Read Community	This parameter is used for two-way authentication between a camera and the central server. The default name is public , and you may change it as needed.  Note: If you change this parameter, you should change it into the same one on the central server, or the two-way authentication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

- 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**.




- Set the parameters.

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

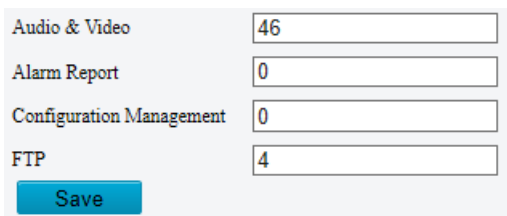
- Click **Save** to save the settings.

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**.



- 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.

- 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.

The screenshot shows a configuration interface for video parameters. At the top, 'Capture Mode' is set to '2880x1620@25'. Below this are two main sections: 'Main Stream' and 'Enable Sub Stream'. Each section contains the following settings: Video Compression (H.264), Resolution (2880x1620 for Main, 720x576(D1) for Sub), Frame Rate (25), Bit Rate (6144 for Main, 1024 for Sub), Bitrate Type (CBR), Image Quality (slider between Bit Rate and Quality), I Frame Interval (50), GOP (IP), Smoothing (slider between Clear and Smooth), SVC (radio buttons for On and Off, with Off selected), and U-Code (Off). A 'Save' button is located at the bottom left of the configuration area.

1. Set the parameters.

Item	Description
Capture Mode	Set the capture mode.
Main Stream / <input checked="" type="checkbox"/> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.

Item	Description
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.
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**.

Snapshot On Off

Resolution

Most Large(KB)

Scheduled Snapshot

Snapshot Interval(s)

Number to Snapshot

Snapshot Mode Schedule Repeat

No.	Snapshot Time	+

Save

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.

Item	Description
Snapshot Mode	Set the snapshot mode, including Schedule and Repeat . <ul style="list-style-type: none"> 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.

Audio Input

Audio Input On Off

Access Mode

Input Gain

Audio Compression



Sampling Rate(KHz)

Noise Suppression On Off

Channel 1 Enable

Save

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.

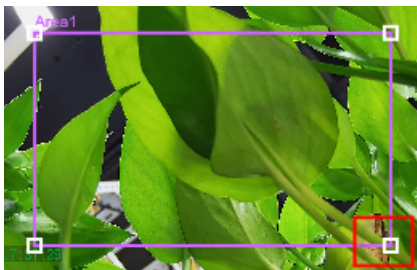
**Note:**

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**.

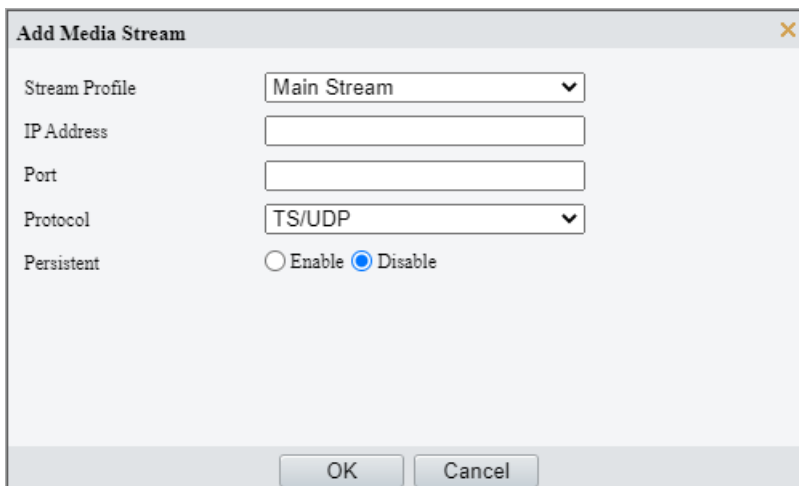
**Note:**

This function is not supported by some models.

Media Stream


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

1. Click **+**.



2. Set the parameters.

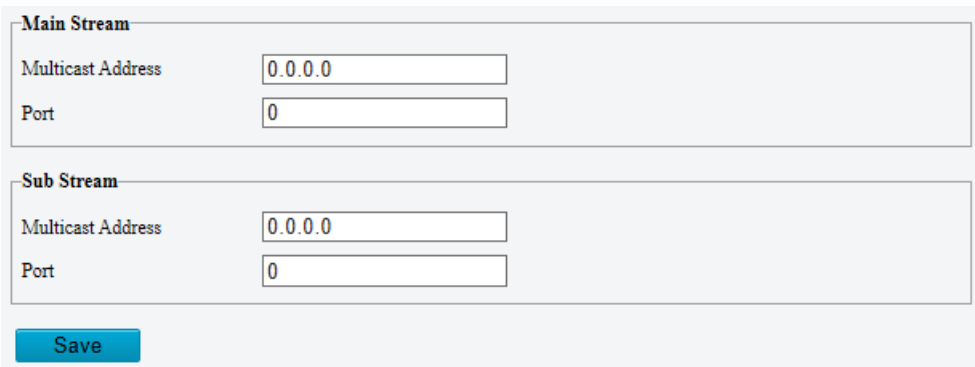
Item	Description
Stream Profile	Select a stream type.
IP Address	Enter the IP address and make sure the IP address is unique in the network.
Port	Enter the port number. A valid value ranges from 1 to 65535.
Protocol	Three options: TS/UDP , EC/UDP , and RTMP . <ul style="list-style-type: none"> • TS/UDP: 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**.


No.	Current	Scene Name	Auto Switching	Setup
1	<input checked="" type="radio"/>	<Indoor>	<input type="checkbox"/>	Default Scene
2	<input type="radio"/>	<Indoor>	<input type="checkbox"/>	
3	<input type="radio"/>	<Indoor>	<input type="checkbox"/>	
4	<input type="radio"/>	<Indoor>	<input type="checkbox"/>	
5	<input type="radio"/>	<Indoor>	<input type="checkbox"/>	







Current Illumination:48

Set the parameters.

Item	Description
Current	Click <input checked="" type="radio"/> to set the current scene.
Scene Name	Set the scene type. <ul style="list-style-type: none"> 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. <p> Note:</p> <ul style="list-style-type: none"> 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. <p> Note:</p> <ul style="list-style-type: none"> 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**.











Brightness		128
Saturation		128
Contrast		128
Sharpness		128
2D Noise Reduction		128
3D Noise Reduction		128
Image Rotation	Normal 	

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**.


Exposure Mode	Indoor 50Hz 
Shutter(s)	1/100 
Gain	0
Slow Shutter	<input type="radio"/> On <input checked="" type="radio"/> Off
Slowest Shutter	1/12 
Compensation	 0
Metering Control	Center-Weighted Average Metering 
Day/Night Mode	<input type="radio"/> Automatic <input checked="" type="radio"/> Day <input type="radio"/> Night
Day/Night Sensitivity	Medium 
Day/Night Switching(s)	3
WDR	Off 
WDR Level	 5
Suppress WDR Stripes	<input type="radio"/> On <input checked="" type="radio"/> Off
WDR Open Sensitivity	 5
WDR Close Sensitivity	 5

Set the parameters.

Item	Description
Exposure Mode	<p>Select the correct exposure mode to achieve the desired exposure effect.</p> <ul style="list-style-type: none"> • 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. <p> Note: This function may vary with device model.</p>
Shutter(s)	<p>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.</p> <p> Note:</p> <ul style="list-style-type: none"> • 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	<p>Control image signals so that the camera can output standard video signals in different light conditions.</p> <p> Note: This parameter can be configured only when Exposure Mode is set to Manual or Custom.</p>
Slow Shutter	Improve image brightness in low light conditions.
Slowest Shutter	Set the slowest shutter speed that the camera can use during exposure.
Compensation	<p>Adjust the compensation value as required to achieve the desired image effect.</p> <p> Note: This parameter cannot be configured when Exposure Mode is set to Manual.</p>
Metering Control	<p>Set how the camera measures the intensity of light.</p> <ul style="list-style-type: none"> • 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. <p> Note: This function may vary with device model and cannot be configured when Exposure Mode is set to Manual.</p>


Item	Description
Day/Night Mode	<p>Set the day/night mode.</p> <ul style="list-style-type: none"> • 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. <p> Note: This function may vary with device model.</p>
Day/Night Sensitivity	<p>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.</p> <p> Note: This parameter can be configured only when Day/Night Mode is set to Automatic.</p>
Day/Night Switching(s)	<p>Set the length of time before the camera switches between day mode and night mode after the switching conditions are met.</p> <p> Note: This parameter can be configured only when Day/Night Mode is set to Automatic.</p>
WDR	<p>Enable WDR to ensure clear images in high contrast conditions.</p> <p> 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.</p>
WDR Level	<p>After enabling WDR, you can improve image quality by adjusting the WDR level.</p> <p> 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.</p>
Suppress WDR Stripes	<p>When enabled, the camera can automatically adjust slow shutter frequency according to the light frequency to minimize stripes that may appear in images.</p>
WDR Open Sensitivity\WDR Close Sensitivity	<p>When WDR is set to Automatic, adjust the parameter to change the WDR switching sensitivity.</p>

Smart Illumination

Click  **Smart Illumination**.


Smart Illumination	<input checked="" type="radio"/> On <input type="radio"/> Off
Illumination Mode	<input type="text" value="Infrared"/>
Control Mode	<input type="text" value="Global Mode"/>
Illumination Level	<input type="text" value="0"/>

Set the parameters.

Item	Description
Smart Illumination	Turn on or off Smart Illumination .
Illumination Mode	<p>Set the illumination mode.</p> <ul style="list-style-type: none"> 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. <p> Note: This function may vary with device model.</p>
Control Mode	<p>Set the illumination control mode.</p> <ul style="list-style-type: none"> 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**.





White Balance: Auto


Red Offset: 16

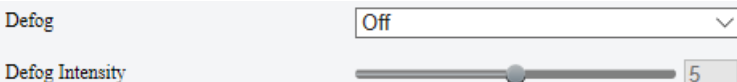
Blue Offset: 18

Set the parameters.

Item	Description
White Balance	<p>Adjust the red or blue offset of the image to remove unrealistic color casts.</p> <ul style="list-style-type: none"> 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	<p>Adjust the red offset manually.</p> <p> Note: This parameter can be configured only when White Balance is set to Fine Tune.</p>
Blue Offset	<p>Adjust the blue offset manually.</p> <p> Note: This parameter can be configured only when White Balance is set to Fine Tune.</p>

Advanced

Click  **Advanced**.



Defog: Off

Defog Intensity: 5

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.

Enable	No.	Overlay OSD Content	X-Axis	Y-Axis
<input checked="" type="checkbox"/>	1	<Date & Time>	<input checked="" type="checkbox"/> 2	<input type="text" value="3"/>
<input type="checkbox"/>	2		<input type="text" value="81"/>	<input type="text" value="3"/>
<input checked="" type="checkbox"/>	3	<Date>	<input checked="" type="checkbox"/> 2	<input type="text" value="75"/>
<input type="checkbox"/>	4		<input type="text" value="81"/>	<input type="text" value="75"/>

Display Style

Effect: Stroke

Font Size: Medium

Font Color: #00a650

Min. Margin: Double



Date Format: dd/MM/yyyy

Time Format: HH:mm:ss

dd=Day; dddd=Day of the week; M=Month; y=Year
h H=12/24 Hour; t=A.M. or P.M.; mm=Minute; ss=Second


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 .

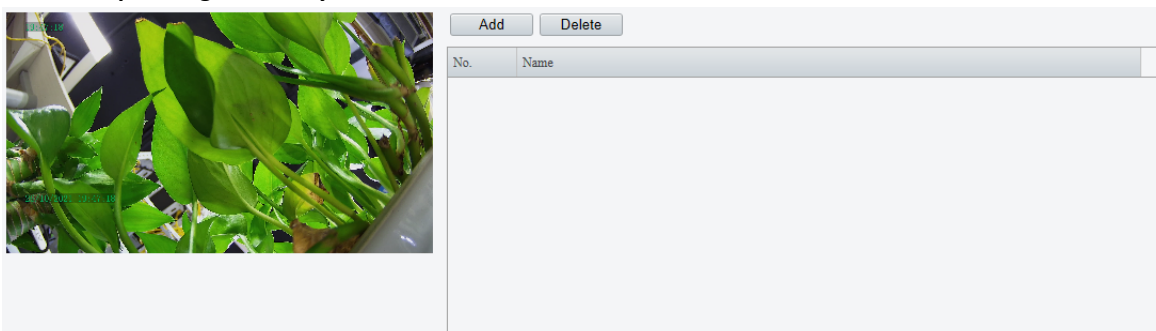
Item		Description
	Date Format	Set the date format. 9 formats are available, the default date format is dd/MM/yyyy .  Note: dd=Day; dddd=Day of the week; M=Month; y=Year
	Time Format	Set the time format. 2 formats are available, the default time format is HH:mm:ss .  Note: h/H=12/24 Hour; tt=A.M. or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

3.4.3 Privacy Mask

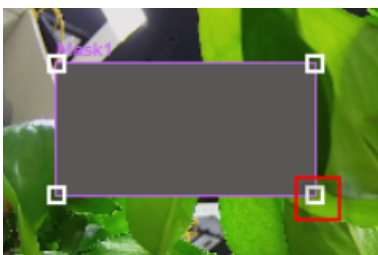
On certain occasions, you may need to set a mask area on the camera image to protect privacy, for example, the keyboard of an ATM machine.

 **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**.

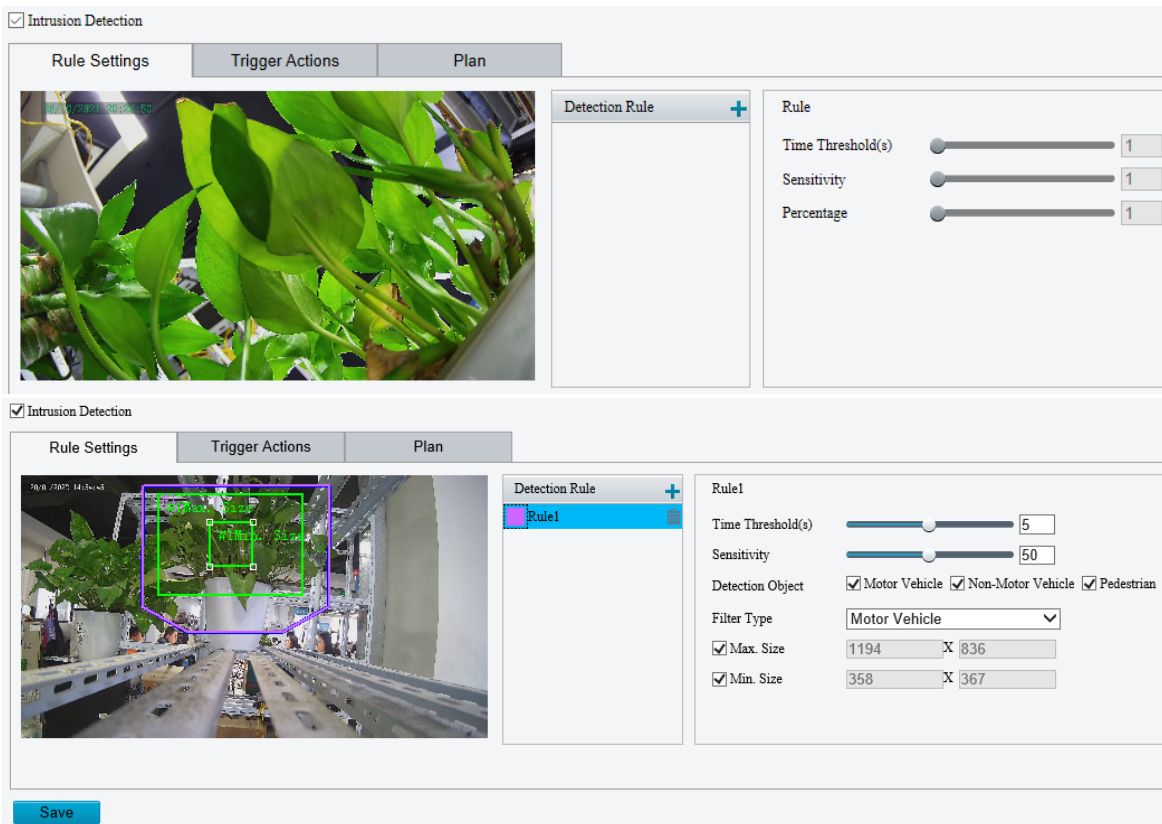
3.5 Smart

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 > Smart > Smart**. Click  right to **Intrusion** to configure intrusion detection parameters. Taking the following two windows as examples.



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, and the more likely false alarms will occur.
Detection Object	Set the detection object, including motor vehicle, non-motor vehicle, and pedestrian.
Filter Type	Select a filter type, set the filter rules (Max. Size and Min. Size), then only objects in the range of Max. Size and Min. Size will be detected.
Max. Size	When enabled, a green box appears in the left preview window, you can adjust the position and size of the box using your mouse.
Min. Size	When enabled, a green box appears in the left preview window, you can adjust the position and size of the box using your mouse.
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.

Conventional	Storage
<input type="checkbox"/> Upload to FTP <input type="checkbox"/> Send E-mail	<input type="checkbox"/> Recording Edge Storage <input type="checkbox"/> Image Edge Storage

Conventional	Alarm Output	Storage
<input type="checkbox"/> Send E-mail <input type="checkbox"/> Upload Image(Original)	<input type="checkbox"/> Alarm Sound <input type="checkbox"/> Alarm Light	<input type="checkbox"/> Recording Edge Storage <input type="checkbox"/> Image Edge Storage <input type="checkbox"/> FTP Video Storage

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.

Item		Description
	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.
	Upload Image (Original)	
Storage	Recording Edge Storage	The camera saves recordings to the SD card when an alarm occurs. Note: Configure Storage first before using this function.
	Image Edge Storage	The camera saves snapshots to the SD card when an alarm occurs. Note: Configure Storage first before using this function.
	FTP Video Storage	The camera saves recordings to the specified FTP server when an alarm occurs. Configure FTP first before using this function.
	Alarm Sound	The camera triggers alarm sound when an alarm occurs. Click  to configure the alarm sound.
	Alarm Light	The camera triggers alarm light when an alarm occurs. Click  to configure the alarm light.

- 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.

Enable Plan

Armed
 Unarmed
Edit

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon																									
Tue																									
Wed																									
Thu																									
Fri																									
Sat																									
Sun																									

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

Item	Description
<input checked="" type="checkbox"/> Armed	Click to set the arming time in the schedule below.
<input type="checkbox"/> Unarmed	Click to set the time to cancel arming in the schedule below.
Edit	Click to edit the arming schedule.

Item	Description
	<p>Arming schedule.</p> <ul style="list-style-type: none"> indicates armed period. indicates disarmed period.

3. Configure arming schedule.

- Edit a schedule

(1) Click .

Edit

Mon Tue Wed Thu Fri Sat Sun

No.	Start Time	End Time
1	00:00:00	23:58:00
2		
3		
4		

Copy To Select All
 Mon Tue Wed Thu Fri Sat Sun

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

Quick Selection

23:59:00

23:59:30

00:00:00

00:00:30

00:01:00

Time 0 : 0 : 0

(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:

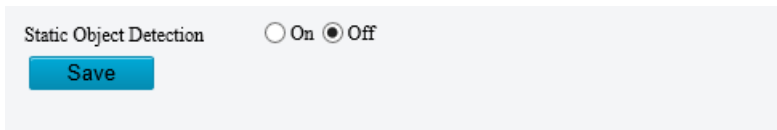
You may also drag your mouse to select in batches.

- 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.

3.5.4 Advanced Settings

1. Select **Setup > Smart > Advanced Settings** to go to **Detection Parameters**.

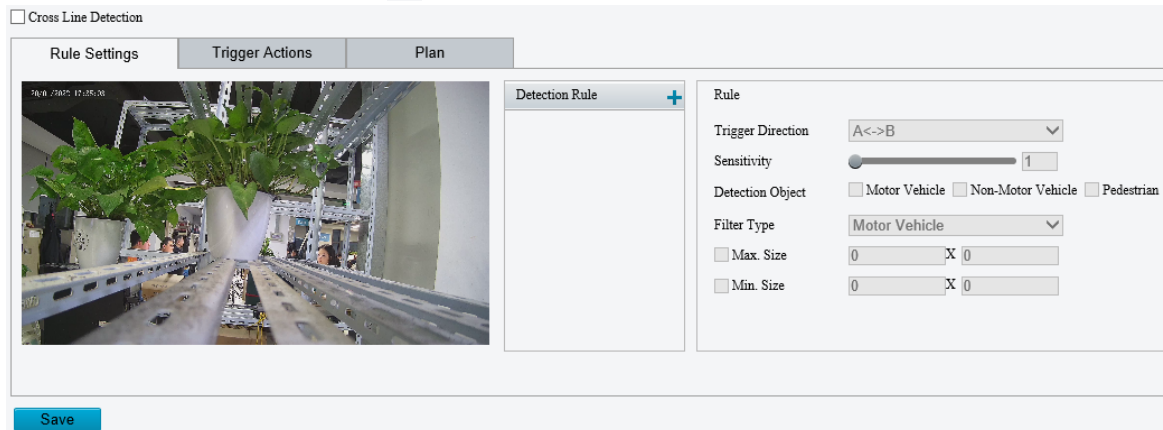



2. Click **On**.
3. Click **Save** to save the settings.

3.5.5 Cross Line Detection

Cross line detection detects objects crossing a user-specified virtual line in a specified direction and triggers an alarm.

Go to **Setup > Smart > Smart**. Click  right to **Cross Line** to configure cross line detection parameters.




1. Select the **Cross Line Detection** check box to enable it.
2. Click  to add a detection line.
3. Adjust the position and length of the line or draw a line as needed.
 - Adjust the position and length of the line.
 - Point to the line and drag it to the desired position.
 - Drag the endpoints of the line to resize it.
 - Draw a line.
 - In the preview window, drag the mouse to draw a line.
4. Set the rules for reporting cross line alarms.

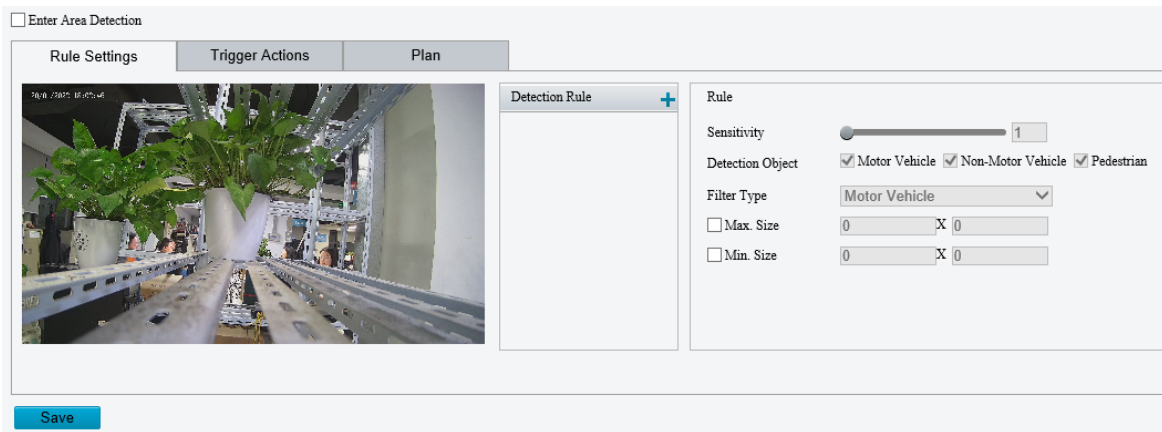
Item	Description
Trigger Direction	Crossing direction: A<>B, cross the line from A to B. B<>A, cross the line from B to A.
Sensitivity	The higher the sensitivity, the more likely cross line behaviors will be detected, and the more likely false alarms will occur.
Detection Object	Set the detection object, including motor vehicle, non-motor vehicle, and pedestrian.
Filter Type	Select a filter type, set the filter rules (Max. Size and Min. Size), then only objects in the range of Max. Size and Min. Size will be detected.
Max. Size	When enabled, a green box appears in the preview window, you can adjust the position and size of the box using your mouse.
Min. Size	When enabled, a green box appears in the preview window, you can adjust the position and size of the box using your mouse.

5. Set alarm-triggered actions. See [Alarm-triggered Actions](#).
6. Modify the arming schedule. See [Arming Schedule](#).

3.5.6 Enter Area Detection

Enter area detection detects objects entering a user-specified area and triggers an alarm.

Go to **Setup > Smart > Smart**. Click  right to **Enter Area** to configure the parameters.




1. Select the **Enter Area Detection** check box to enable enter area 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 enter area alarms.

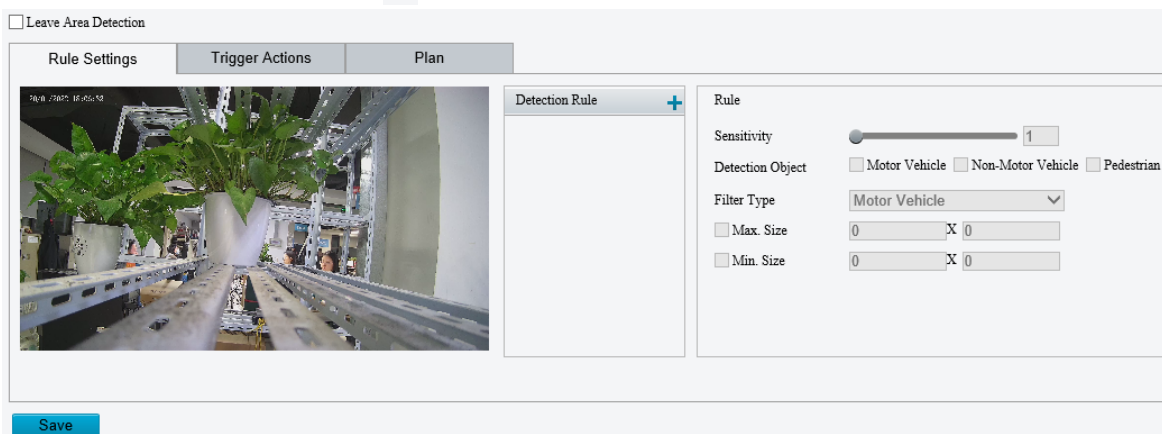
Item	Description
Sensitivity	The higher the sensitivity, the more likely entry behaviors will be detected, and the more likely false alarms will occur.
Detection Object	Set the detection object, including motor vehicle, non-motor vehicle, and pedestrian.
Filter Type	Select a filter type, set the filter rules (Max. Size and Min. Size), then only objects in the range of Max. Size and Min. Size will be detected.
Max. Size	When enabled, a green box appears in the left preview window, you can adjust the position and size of the box using your mouse.
Min. Size	When enabled, a green box appears in the left preview window, you can adjust the position and size of the box using your mouse.

5. Set alarm-triggered actions. See [Alarm-triggered Actions](#).
6. Modify the arming schedule. See [Arming Schedule](#).

3.5.7 Leave Area Detection

Leave area detection detects objects leaving a user-specified area and triggers an alarm.

Go to **Setup > Smart > Smart**. Click  right to **Leave Area** to configure the parameters.



1. Select the **Leave Area Detection** check box to enable leave area 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 leave area alarms.

Item	Description
Sensitivity	The higher the sensitivity, the more likely the leave area behaviors will be detected, and the more likely false alarms will occur.
Detection Object	Set the detection object, including motor vehicle, non-motor vehicle, and pedestrian.
Filter Type	Select a filter type, set the filter rules (Max. Size and Min. Size), then only objects in the range of Max. Size and Min. Size will be detected.
Max. Size	When enabled, a green box appears in the left preview window, you can adjust the position and size of the box using your mouse.
Min. Size	When enabled, a green box appears in the left preview window, you can adjust the position and size of the box using your mouse.

5. Set alarm-triggered actions. See [Alarm-triggered Actions](#).
6. Modify the arming schedule. See [Arming Schedule](#).

3.6 Events

3.6.1 Motion Detection

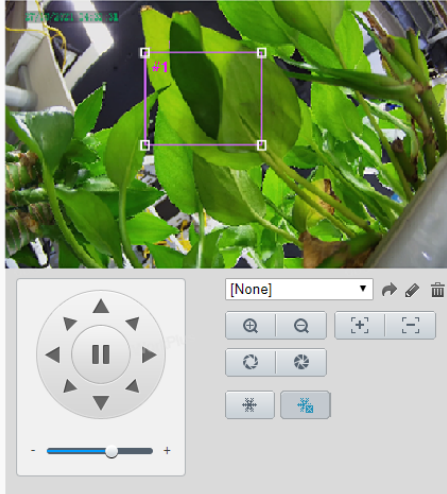
Motion detection detects moving objects in the detection area and triggers an alarm.

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

Area Detection

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

2.



Detection Rule

Rule1

Sensitivity: Low High

Object Size: Small Large


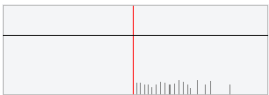

Alarm Parameters

Suppress Alarm(s):

3. Click **+** to add a detection area. Up to 4 detection areas are allowed.
4. 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.



5. Set detection rules.

Item	Description
Sensitivity	Set the detection sensitivity. The higher the sensitivity, the more likely small motions will be detected.
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: <ul style="list-style-type: none"> 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.

6. 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: <ul style="list-style-type: none"> 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.

7. To delete the area, click .

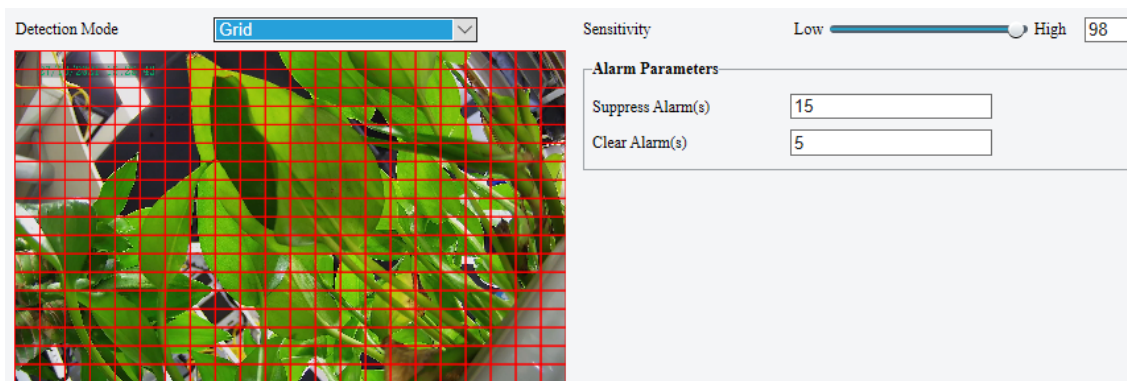
8. Set alarm-triggered actions. See [Alarm-triggered Actions](#).

9. Modify the arming schedule. See [Arming Schedule](#).

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

Grid Detection

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



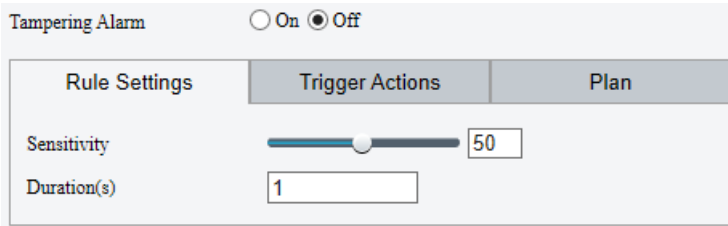
2. In the preview window, click or drag your mouse to set the detection area.

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

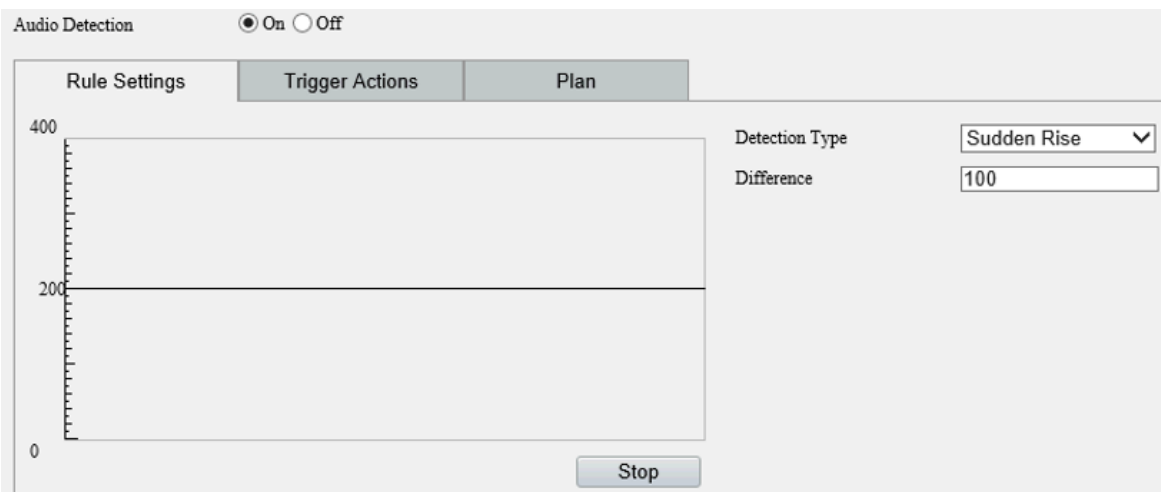
The camera can detect input audio signals for exceptions. When the rise or fall of volume exceeds the set limit, or when the input volume reaches the threshold, the camera reports an alarm and triggers the set actions.



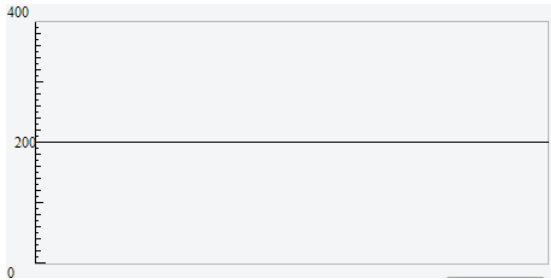
Note:

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. <ul style="list-style-type: none"> • 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.
Difference	Set the alarm difference or threshold. <ul style="list-style-type: none"> • 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.
<input type="button" value="Start"/> / <input type="button" value="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**.

Storage Medium Enable

Storage Medium Status: No card

Total Capacity 0 MB, Free Space 0 MB.

Allocate Capacity

Video(MB) (The remaining capacity is used for image storage.)

Common Snapshot(MB)


Video Storage Info

Storage Policy Manual and Alarm Recording Scheduled and Alarm Recording Alarm Recording Only

When Storage Full Overwrite Stop

Post-Record(s)

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 .
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. <ul style="list-style-type: none"> • 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**.

Server Parameters

Server IP: Upload Images:

Port No.: Overwrite Storage:

Username: Overwrite At(image):

Password:

Snapshot Image

Save To

Root Directory: \ \ \ \ \ \

File Name

Separator:

No.	Naming Element
1	<input type="text" value="None"/>
2	
3	
4	
5	

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.
<input type="button" value="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**.

No.	Username	User Type
1	admin	Admin

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: <ul style="list-style-type: none"> The system supports two user types: Admin and Common User. <ul style="list-style-type: none"> 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**.

Add
✕

Username

User Type Common User ▼

Password

Weak Medium Strong

Confirm

2. Set the parameters.

Item	Description
Username	Set the username.

Item	Description
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**.

202.5.94.200 says

Do you want to delete it?

OK

Cancel

- 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.

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

HTTPS On Off

SSL Certificate

- Set the parameters.

Item	Description
HTTPS	Turn on or off HTTPS .
<input type="button" value="Browse..."/>	Click to import the SSL certificate.

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

Authentication

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

RTSP Authentication

HTTP Authentication

- 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 .

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

ARP Protection

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

ARP Protection On Off

Gateway

Gateway MAC Address

- 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.

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

IP Address Filtering



Note:

This function is not supported by some models.

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

- 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.

- 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.

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

- Set the parameters.

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

- 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**.

- Set the parameters.

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

- 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.

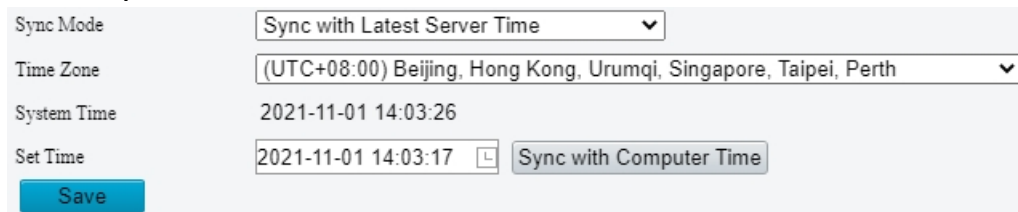
3.9 System

3.9.1 Time

Configure system time and DST parameters.

Time

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



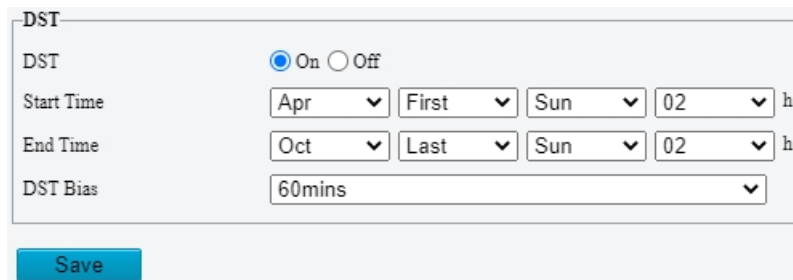
2. Set the parameters.

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. <ul style="list-style-type: none">• 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

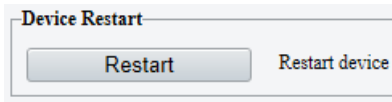
Diagnosis information includes logs and system configurations. You can export diagnosis information to your PC.

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.