Network Cameras User Manual

Manual Version:2.08



Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

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Disclaimer



CAUTION!

The default password is used for your first login. To ensure account security, please change the password after your first login. You are recommended to set a strong password (no less than eight characters).

- To the maximum extent permitted by applicable law, the product described, with its hardware, software, firmware and documents, is provided on an "as is" basis.
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- Video and audio surveillance can be regulated by laws that vary from country to country. Check the law in your local region before using this product for surveillance purposes. We shall not be held responsible for any consequences resulting from illegal operations of the device.
- 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.
- This manual is a guide for multiple product models and so it is not intended for any specific product.
- Due to uncertainties such as physical environment, discrepancy may exist between the actual values and reference values provided in this manual. The ultimate right to interpretation resides in our company.



Environmental Protection

This product has been designed to comply with the requirements on environmental protection. For the proper storage, use and disposal of this product, national laws and regulations must be observed.

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	
	Contains important safety instructions and indicates situations that could cause bodily injury.	
	Means reader be careful and improper operations may cause damage or malfunction to product.	
NOTE!	Means useful or supplemental information about the use of product.	



Contents

1 Network Connection1	-
2 Login1	_
Preparation1	L
Logging In to the Web Interface ····································	;
Introduction to the Web Interface4	
Initial Configuration4	ł
3 Configuring Parameters5	;
Local Parameters5	;
Network Configuration7	,
Ethernet7	,
Port10)
FTP10)
E-Mail12	,
Port Mapping13	;
DNS14	ŀ
DDNS14	ŀ
EZCloud15	;
802.1x	;
Image Configuration ·······16	;
Image Adjustment ·······16	;
OSD Setting25	;
Privacy Mask······27	,
Audio and Video Configuration28	3
Video Configuration28	3
Audio Configuration30)
Snapshot ······31	L
ROI	,
Media Stream Configuration32	2
Intelligent Alarm Configuration34	ł
Smart Settings34	ŀ
Cross Line Detection	;
Intrusion Detection36	;
Object Moving ·······37	,
Object Left ·······38	3
Face Detection39)
People Counting40)
Auto Tracking41	L
Heat Map······42	,
Defocus Detection43	;
Scene Change Detection43	;
Advanced Settings44	ł
Common Alarm Configuration45	;
Configuring Motion Detection Alarm45	;

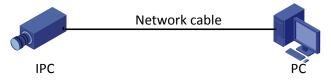


Configuring Tampering Alarm ······	
Configuring Audio Detection Alarm ······	49
Configuring Alarm Input ······	51
Configuring Alarm Output ·····	
Memory Card Storage ·····	53
Setting Edge Storage ·····	
Setting Cache Post Recording	
System Maintenance ·····	
Security	
Setting the System Time	
Setting Servers	
Serial Port Mode Configuration	
Wiper Control ······	
Viewing Device Status ······	
Photo Storage Status	
Upgrading the Device	
Restarting the System	
Importing and Exporting System Configuration File	
Collecting Diagnosis Information	
Focus Configuration	
Device Mounting Height	
Fisheye Camera Parameter ·····	
4 Live View ·····	
Live View Toolbar	
Viewing Certain Area of Images	71
Using Digital Zoom ······	
Using Area Focus ······	72
Using 3D Positioning	73
Live View of Fisheye Cameras	73
5 Video Playback and Download with Edge Storage	
Video Playback and Download with Edge Storage	
Download	
6 PTZ Control	
PTZ Control Toolbar	
Setting Patrol by Presets	
Setting Presets	
Setting Patrol	
Setting Home Position	
Remote Control PTZ	
PTZ Limit	
Resume Patrol	
Appendix A Glossary	
Appendix B FAQ ·····	

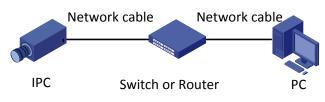


1 Network Connection

Before accessing a network camera (also known as IP Camera or IPC) from a PC, you need to connect the network camera to the PC directly with a network cable or via a switch or router.



Use a Shielded Twisted Pair (STP) cable to connect the network interfaces of the network camera and the PC.



Use Shielded Twisted Pair (STP) cables to connect the network interfaces of the camera and the switch or router.

2 Login

Preparation

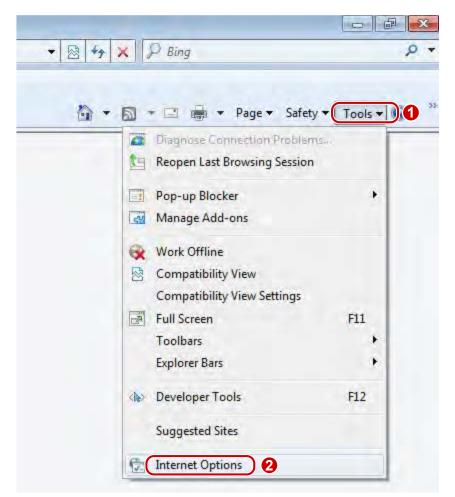
After you have completed the installation in accordance with the quick guide, connect the camera to power to start it. After the camera is started, you can access the camera from a PC client installed with a web browser or the client software EZStation. Internet Explorer (IE) is a recommended web browser. For more information about EZStation, refer to the *EZStation User Manual*.

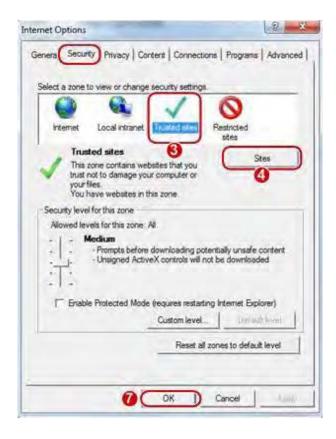
The following takes IE on a Microsoft Windows 7 operating system as an example.

Check before login

- The camera is operating correctly.
- The network connection between the PC and the camera is normal.
- The PC is installed with Internet Explorer 10.0 or higher.
- (Optional) The resolution is set to 1440 x 900.











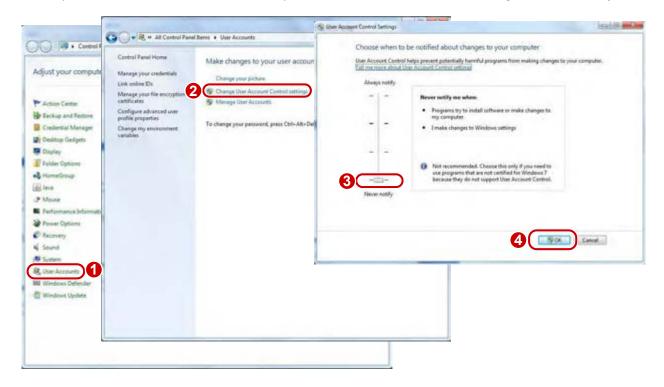


NOTE!

The IP address 192.168.1.13 in this example is the default IP address. Please replace it with the actual address of your camera if it has been changed.

(Optional) Modify user access control settings

Before you access the camera, follow the steps to set User Account Control Settings to Never notify.



Logging In to the Web Interface

The default static IP address of the camera is 192.168.1.13, and the default subnet mask is 255.255.255.0. DHCP is turned on by default. If a DHCP server is used in the network, the IP address of your camera may be assigned dynamically, and you need to use the correct IP address to log in. Use the EZStation client to view the dynamic IP address of your camera.

The following takes IE as an example to describe the login procedure.

1. Browse to the login page by entering the correct IP address of your camera in the address bar.



2. If you log in for the first time, follow system prompts and install the ActiveX. You need to close your browser to complete the installation.



- NOTE!
 - To manually load the ActiveX, type *http://IP address*/ActiveX/Setup.exe in the address bar and press **Enter**.

^

- The default password is used for your first login. To ensure account security, please change the password after your first login. You are recommended to set a strong password (no less than eight characters).
- The camera protects itself from illegal access by limiting the number of failed login attempts. If login fails six times consecutively, the camera locks automatically for ten minutes.



- **3.** Enter the username and password, and then click **Login**. For the first login, use the default username "admin" and password "123456".
- If you log in with **Live View** selected, live video will be displayed when you are logged in. Otherwise, you need to start live video manually in the live view window.
- If you log in with **Save Password** selected, you do not need to enter the password each time when you log in. To ensure security, you are not advised to select **Save Password**.
- To clear the **Username** and **Password** text boxes and the **Save Password** check box, click **Reset**.

Introduction to the Web Interface

By default the live view window is displayed when you are logged in to the Web interface. The following shows an example.



No.	Description
1	Menu
2	PTZ control area Note: This area is available for PTZ dome cameras and PTZ cameras.
3	Live view window
4	Live view toolbar

Initial Configuration

After you log in to the device, please perform the following initial configuration.

Item		Description
1.	<u>Ethernet</u> .	Reconfigure the device IP and network parameters based on the actual networking.
2. Log out and log in again to the Web using the new IP address.		-



Item		Description
3.	Set the system time.	Set the system time based on the actual situation.
4.	(Optional) Set the management server.	Set the management server based on the actual networking.
5.	(Optional) Set the server for storing photos.	Set the server for storing photos based on the actual networking.
6.	<u>Set OSD</u> .	Set the information displayed on the screen as needed, for example, time.
7.	(Optional) Manage users.	Change the default password and add common users as needed.

You can watch the live video after finishing the initial configuration. Please configure other parameters as needed.

NOTE!

- The displayed live view interface, parameters displayed and value ranges may vary with models. Please see the actual Web interface for details.
- The parameters that are grayed out cannot be modified. For the actual settings, see the Web interface.
- It is recommended that you change the password when you are logged in the first time. For details about how to change a password, see <u>Security</u>.

3 Configuring Parameters

Local Parameters

Set local parameters for your PC.



NOTE!

The local parameters may vary with models. Please see the actual Web interface for details.

1. Select Setup > Common > Local Settings.



Intelligent Mark				
Untriggered Target	Disable	•		
Video				
Processing Mode	Fluency Priority	•		
Protocol	TCP [•		
Audio				
Encoding Format	G.711U	•		
Recording and Snapsho	,			
Recording	Subsection By Time	•		
Subsection Time (min)	30	[1-60]		
When Storage Full	Overwrite Recording	Stop Recording	9	
Total Capacity(GB)	10	[1~1024]		
Local Recording	TS	-		
Files Folder	C:\IPC\		Browse	Open

2. Modify the settings as required. The following table describes some major parameters.

Parameter		Description	
Intelligent Mark	Untriggered Target	When enabled, the camera will display an on-screen mark on the target (e.g., face when face detection is enabled) and track it.	
Video	Processing Mode	 Real-Time Priority: Recommended if the network is in good condition. Fluency Priority: Recommended if you want short time lag for live video. Ultra-low Latency: Recommended if you want the minimum time lag for live video. 	
	Protocol	Set the protocol used to transmit media streams to be decoded by the PC.	
Record	Recording	 Subsection By Time: Duration of recorded video for each recording file on the computer. For example, 2 minutes. Subsection By Size: Size of each recording file stored on the computer. For example, 5M. 	
and Snapshot	Record Overwrite	 Overwrite: When the assigned storage space on the computer is used up, the camera deletes the existing recording files to make room for the new recording file. Full Stop: When the assigned storage space on the computer is full, recording stops automatically. 	

3. Click Save.



Network Configuration

Ethernet

Modify communication settings such as the IP address for the camera so that the camera can communicate with other devices.



NOTE!

- After you have changed the IP address, you need to use the new IP address to log in.
- The configurations of DNS (Domain Name System) server are applicable when the device is accessed by domain name.

Static Address

1. Click Setup > Network > Network.

Obtain IP Address	Static 💌
IP Address	203.3.1.99
Subnet Mask	255.255.255.0
Default Gateway	203.3.1.1
IPv6	
IPv6 Mode	Manual 💌
IPv6 Address	
Prefix Length	64
Default Gateway	
MTU	1500
Port Type	FE Port 👻
Operating Mode	Auto-negotiation

- 2. Select Static from the Obtain IP Address drop-down list.
- **3.** Enter the IP address, subnet mask, and default gateway address. Make sure that the IP address of the camera is unique in the network.
- 4. Click Save.

PPPoE

-(/

NOTE!

This function is not supported by some models. Please see the actual model for details.

If the camera is connected to the network through Point to Point over Ethernet (PPPoE), you need to select PPPoE as the IP obtainment mode.

1. Click Setup > Network > Network.



Obtain IP Address	PPPoE	•
Username	user	
Password	•••••	
IPv6		
IPv6 Mode	Manual	-
IPv6 Address		
Prefix Length	64	
Default Gateway		
MTU	1500	
Port Type	FE Port	-
Operating Mode	Auto-negotiation	-

- 2. Select PPPoE from the Obtain IP Address drop-down list.
- 3. Enter the username and password provided by your internet Service Provider (ISP).
- 4. Click Save.

DHCP

The Dynamic Host Configuration Protocol (DHCP) is enabled by default when the camera is delivered. If a DHCP server is deployed in the network, the camera can automatically obtain an IP address from the DHCP server.

To manually configure DHCP, follow the steps below:

1. Click Setup > Network > Network.

Obtain IP Address	DHCP	-
IPv6		
IPv6 Mode	Manual	-
IPv6 Address		
Prefix Length	64	
Default Gateway		
MTU	1500	
Port Type	FE Port	-
Operating Mode	Auto-negotiation	-

- 2. Select DHCP from the Obtain IP Address drop-down list.
- 3. Click Save.

IPv6

1. Click Setup > Network > Network.

IPv6	
IPv6 Mode	Manual 💌
IPv6 Address	
Prefix Length	64
Default Gateway	



- 2. By default the IPv6 mode is set to Manual.
- **3.** Enter the IPv6 address, set the prefix length and default gateway. The IP address must be unique on the network.
- 4. Click Save.

Wi-Fi

NOTE!

This function is not supported by some models, please see the actual model for details.

1. Click Setup > Network > Network. Click the Wi-Fi tab.



2. Select Sniffer.

3. Click Save.

Some devices can search for Wi-Fi networks and connect.

1. Select Setup > Network > Network. Select Wi-Fi for Wi-Fi Mode.

Vi-Fi Mode	Wi-Fi	~	
Adaptive Streams	● On () Off		
Network Status			
Current Status	Disconnected		
SSID	None		
IP Ad <mark>dres</mark> s	0.0.0.0		
Subnet Mas <mark>k</mark>	0.0.0		
Default Gateway	0.0.0.0		
Strength(%)	0		

Wi-Fi Network

Search SSID Authentication Channel MAC Encryption Strength(%) Strength(dBm) Wi-Fi NVR SSID Password None ~ Encryption WPA-PSK WPA2-PSK Authentication V Obtain IP Address DHCP ~

- 2. Signal strength is displayed. Turn on Adaptive Streams. The page shows that there are other Wi-Fi networks. To search for Wi-Fi networks again, click Search.
- **3.** Click an SSID in the Wi-Fi Network list. Information about the corresponding network is displayed.
- 4. Click Save.



5. When Wi-Fi Mode is set to Wi-Fi Hotspot, the camera can function as a Wi-Fi hotspot for other devices.

Wi-Fi Mode	Wi-Fi Hotspot	~
Hotspot Settings		
SSID	IPCWiFi67C54C	
Password	•••••	
Channel	Automatic	~
Gateway Address	203.6.1.1	

6. Click Save.

Port

NOTE!

This function is not supported by some models. Please see the actual model for details.

1.	Click Setup	>	Network	>	Port.
----	-------------	---	---------	---	-------

HTTP Port	80
HTTPS Port	443
RTSP Port	554

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

- **2.** Configure relevant port numbers.
- 3. Click Save.

FTP

All snapshots (except face detection) are saved through the general FTP service. After the configuration of FTP, you will be able to upload snapshots from network cameras to the specified FTP server.

General

1. Click Setup > Storage > FTP. Go to General tab.



rver IP	192.168.0.15	50	Upload Images	
rt No.	21		Overwrite Storage	
ername			Overwrite At(image)	1000
ssword			Test	
	reset No.]\ [IP Address]\ [Date] prv]\ [Hour(s)]		
toot Directo	pry	idress 🗸 \		our(s) 🗸
toot Directo Pre ile Name[P	eset No. V IP Adureset No.]-[PTZ Zoom]-[PTZ Lat	idress 🗸 \		our(s)
ile Name[P	eset No. V IP Add reset No.]-[PTZ Zoom]-[PTZ Lat V	idress 🗸 \		our(s)
toot Directo Pre ile Name[P eparator No.	eset No. V IP Adu reset No.]-[PTZ Zoom]-[PTZ Lat V Naming Element	Idress V \\ titude]-[PTZ Longitud		our(s)
toot Directo Pre ile Name[P ieparator[- No. 1	reset No.]-[PTZ Zoom]-[PTZ Lat Naming Element Preset No.	Idress V \\ titude]-[PTZ Longitud		our(s)
toot Directo Pri ile Name[P ieparator] No. 1 2	IP Add reset No.]-[PTZ Zoom]-[PTZ Lat Naming Element Preset No. PTZ Zoom	Idress V \\ titude]-[PTZ Longitud		our(s)

- Set the IP address and port for the FTP server, username and password used to upload images to the FTP server, select Upload Images, Overwrite Storage and set Overwrite At (threshold for overwriting images). Some camera models support FTP test. You may test FTP after completing FTP settings correctly.
- **3.** Set the path for saving snapshots on the FTP server and the file name format. For example, set path as Preset No.\\IP Address\\Date\\Hour(s), and set file name as Preset No.-PTZ Zoom-PTZ Latitude-PTZ Longitude.jpg.
- 4. Click Save.

Smart

This function is used to store snapshots taken for smart functions such as face recognition. To use smart FTP, click Setup > System > Server > Intelligent Server and set Platform Communication Type to FTP.

1. Click Setup > Storage > FTP. Go to Smart tab.



	ters	
erver IP	192.168.0.150	Custom Naming Rules
ort No.	21	Convert Path into UTF8 Format
Isername		
assword		
evice Name		
evice ID	1	
ntersection ID		
Root Director	eset No.]\ [IP Address]\ [Date]	✓ \\ Date ✓
Root Directon Pres	Y	
Root Directon Pres File Name[Pre	et No. V IP Address	
Root Directon Pres File Name[Pre Separator	y et No. V IP Address set No.]-[PTZ Latitude]-[PTZ Longitud	de]-[PTZ Zoom].jpg
Root Directon Pres File Name[Pre Separator - No.	set No.]-[PTZ Latitude]-[PTZ Longitud Naming Element	de]-[PTZ Zoom].jpg
Root Directon Pres File Name[Pre Separator - No. 1	Vet No. V IP Address set No.]-[PTZ Latitude]-[PTZ Longitud Naming Element Preset No. V	de]-[PTZ Zoom].jpg
Root Directon Pres File Name[Pre Separator No. 1 2	Vet No. V IP Address set No.]-[PTZ Latitude]-[PTZ Longitud Naming Element Preset No. V PTZ Latitude	de]-[PTZ Zoom].jpg

- 2. Set the IP address and port of the FTP server, username and password used to upload images to the FTP server.
- **3.** Set the path for saving snapshots on the FTP server and the file name format. For example, set path as Preset No.\\IP Address\\Date, and set file name as Preset No.-PTZ Latitude-PTZ Longitude-PTZ Zoom.jpg.
- 4. Click Save.

E-Mail

After the configuration of E-mail, when alarms are triggered, you will be able to send messages to the specified E-mail address.

1. Click Setup > Network > E-mail.



https://tm.by Интернет-магазин TM.by

Sender		
Name		
Address		
SMTP Server		
SMTP Port	25	
TLS/SSL	On@Off	
Snapshot Interval(s)	2	✓ ✓ Attach Image
Server Authentication	●On⊖Off	
Username		
Password		
Recipient		
Name1		
Address1		Test
Name2		
Address2		Test
Name3		
Address3		Test

2. Configure relevant parameters of the sender and the recipient. Some camera models support Email test. You may test email after setting the recipient address. The following table describes some major parameters.

Parameter	Description
	When enabled, the e-mail will be encrypted using TLS (Transport Layer Security) or Secure Socket Layer (SSL) to protect privacy.
TLS/SSL	First it tries to send through an SSL connection. If the SMTP server supports SSL, the e-mail will be sent through the SSL connection; otherwise, it tries to send using STARTTLS.
Attach Image	When enabled, the e-mail will contain 3 instant snapshots as attachment according to the Capture Interval.
Username/Password	Username and password of the registration email address. The password allows the following special characters $\ / : * ?' " <> % &$

3. Click Save.

Port Mapping

1. Click Setup > Network > Port. Go to Port Mapping tab.



Mapping Type	Manua	•	
Port Type	External Port	External IP Addr	ess Status
HTTP Port	80	0.0.0.0	Inactive
RTSP Port	554	0.0.0.0	Inactive
Server Port	81	0.0.0.0	Inactive

- 2. Enable **Port Mapping** and select mapping type. If **Manual** is selected, then external ports must be configured (external IP is obtained automatically by the camera). If the configured port is occupied, then the **Status** will show Inactive.
- 3. Click Save.

DNS

1. Click Setup > Network > DNS.

Preferred DNS Server	8.8.8.8
Alternate DNS Server	8.8.4.4

- 2. Set DNS server addresses.
- 3. Click Save.

DDNS

NOTE!

This function is not supported by some models. Please see the actual model for details.

1. Click Setup > Network > DDNS.

DDNS Service	● On ◯ Off	
DDNS Type	DynDNS NO-IP	
Server Address	EZDDNS	
Domain Name		
Username		
Password		
Confirm		

- 2. Enable DDNS Service.
- **3.** Select a DDNS type: DynDNS, NO-IP, or EZDDNS.
- 4. Complete other settings including server address, domain name, username and password.
- 5. Click Save.



EZCloud



NOTE!

- This function is not available to all models.
- Scan the QR code with your mobile phone (iOS or Android) to download the APP.
- When installed, run the APP to add the camera. Please refer to the online help in the APP for detailed steps.

1. Click Setup > Network > EZCloud.

EZCloud Address Register Code Device Status	 On Off <u>en.ezcloud.uniview.com</u> 1234567890123456789012345 Offline
Scan	

- 2. Select On to enable cloud service.
- 3. Click Save.

802.1x

802.1x provides authentication to devices (e.g., cameras) trying to connect to a network. Only the authenticated devices can connect the network. This enhances security.

1. Click Setup > Network > 802.1x.

802.1x	la On 💮 Off	
Protocol	EAP-MD5	-
EAPOL Version	1	-
Username		
Password		
Confirm		

- 2. Select **On** and then complete other settings.
- 3. Click Save.



Image Configuration

Image Adjustment



NOTE!

- The image parameters displayed and value ranges allowed may vary with camera model. For the actual parameters and value ranges of your camera, see the Web interface. You may move the sliders to adjust settings or enter values in the text boxes directly.
- Clicking **Default** will restore all the default image settings.

Setting the Scene

Set image parameters to achieve the desired image effects based on live video in different scenes.

Click Setup > Image > Image.

The scene management page for some models is displayed as follows, you can select the desired scene in the drop-down list.

Scene	Indoor	~

The scene management page of some models is displayed as follows, you can take the following steps to configure the scene.

No.	Curre	Scene Name	Auto Switching	Setu	p
1		<common></common>	-	Defa	ult Scene
2	Ø	<common></common>	F	1	*
3	Ø	<common></common>	2	1	*
4	Ø	<common></common>	2	12	*
5	0	<common></common>	E.	19	*

- 1. Click Scenes.
- **2.** Select a scene, and then set scene switching parameters. The following table describes some major parameters.

Column	Description
	Indicates the scene that is being used.
	Note:
Current	• Select an option button to switch to the scene and display the corresponding image parameters for the scene.
	• The camera switches the current scene automatically when Enable Auto Switching is selected.
Scene Name	Name of the current scene. The device provides several preset scene modes. When you select a scene, the corresponding image parameters are displayed. You can adjust image settings according to actual needs.



Column	Description
	 Common: recommended for outdoor scenes. Indoor: recommended for indoor scenes. High Sensitivity: recommended for low light environment. Highlight Compensation: can suppress strong light such as headlights on roads and
	 spotlight in parks. Recommended for capturing vehicle license plates. WDR: recommeded for scenes with high-contrast lighting, such as window, corridor, front door or other scenes that are bright outside but dim inside. Custom: set a scene name as needed. Face: Capture faces in motion in complicated scenes.
Auto Switching	Indicates whether to add a scene to the auto-switching list. Note : If Auto Switching is selected, the system switches to a scene automatically when the condition for switching to the scene is met. By default the auto-switching list includes the default scene.
Setup	Click 📰 to set conditions for auto-switching, including schedule, illumination, and current elevation (angle between the PTZ and the horizontal direction). It means that auto-switching is triggered only when illumination and the current elevation during the set time period meet the set conditions. A condition is invalid if both the start and end values are set to 0.

- 3. Select a scene and then click x to set it as the default scene.
- **4.** If auto-switching is enabled, the camera can switch to the scene automatically when the condition for switching to a non-default scene is met. Otherwise, the camera remains in the default scene. When auto-switching is not enabled, the camera remains in the current scene.

- If Auto Switching is enabled (scene settings will be unavailable), the device will switch between the set scenes. If not, the device will stay at the current scene. The device will stay at default scenes unless the non-default scenes are triggered.
- If multiple non-default scenes are triggered, then the device will switch to the scene with the minimum number (starts from 1 to 5).

Image Enhancement



NOTE!

NOTE!

This function may vary with models. Please see actual Web interface for details.

1. Click Setup > Image > Image and then click Image Enhancement.

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

2. Use the sliders to change the settings. You may also enter values directly. The following table describes some major parameters.



ltem	Description				
	Set the degree of brightness of images.				
Brightness					
	Low brightness High brightness				
	The amount of a hue contained in a color.				
Saturation					
	Low saturation High saturation				
	Set the degree of difference between the blackest pixel and the whitest pixel.				
Contrast					
	Low contrast High contrast				
	Contrast of boundaries of objects in an image.				
Sharpness					
	Low sharpness High sharpness				
2D Noise Reduction	Reduce the noise of images. The function may cause image blurring.				
3D Noise Reduction	Reduce the noise of images. The function may cause motion blur (or ghosting in some applications).				
Image Rotation	Rotation of the image.				





Description



3. To restore default settings in this area, click **Default**.

Exposure

NOTE!

- This function may vary with models. Please see actual Web interface for details.
- The default settings are scene-adaptive. Use default settings unless modification is necessary.
- 1. Click Setup > Image > Image and then click Exposure.



1	P			2012	
xposure Mode	Custom	~	Slow Shutter	⊖On⊛Off	
hutter(s)	1/100000 🗸 1/30	~	Slowest Shutter	1/12	~
lain	0 ~[100		Metering Control	Face Metering	~
ompensation		0	Face Brightness		50
			Day/Night Mode	Automatic Day Night	
			Day/Night Sensitivity	Medium	~
tin. Duration(min)	-,	5	Day/Night Switching(s)	[3	
VDR	01	~			
VDR Level		-5			
uppress WDR Stripes	Oneoff				

For some camera models, the page is displayed as follows.

* Exposure		
Exposure Mode	Custom	~
Shutter(s)	1/100000 🗸 ~ 1/200	~
Gain	0~[100	
Slow Shutter	On⊚Off	
Slowest Shutter	1/12	~
Compensation		0
Day/Night Mode	●Automatic○Day○Night	
Day/Night Sensitivity	Ultra-low	~
Day/Night Switching(s)	60	
HLC Intensity		5

2. Set the parameters as required. The following table describes some major parameters.

Parameter	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: The user sets exposure as needed. Indoor 50Hz: Reduce stripes by limiting shutter frequency. Indoor 60Hz: Reduce stripes by limiting shutter frequency. Manual: Finetune 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.
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 or Shutter Priority. If Slow Shutter is set to Off, the reciprocal of the shutter speed must be greater than the frame rate.
Gain (dB)	Control image signals so that the camera outputs standard video signals according to the light condition. Note: You can set this parameter only when Exposure Mode is set to Manual or Gain Priority.
Slow Shutter	Improves image brightness in low light conditions. Note:



Parameter	Description
	You can set this parameter only when Exposure Mode is not set to Shutter Priority and when Image Stabilizer is disabled.
Slowest Shutter	Set the slowest shutter speed that the camera can use during exposure. Note: You can set this parameter only when Slow Shutter is set to On .
Compensation	Adjust the compensation value as required to achieve the desired effects. Note: You can set this parameter only when Exposure Mode is not set to Manual .
Metering Control	 Set the way 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 customized area of images. Highlight compensation: Ignore the brightness of the overexposed area of images. But selecting this setting will decrease the overall brightness of the image. Face Metering: Adjust image quality in poor lighting conditions by controlling the brightness of captured face in Face scene. Note: You can set this parameter only when Exposure Mode is not set to Manual.
Day/Night Mode	 Automatic: The camera outputs the optimum images according to the light condition. In this mode, the camera can switch between night mode and day mode automatically. Night: The camera provides high-quality black and white images using the existing light Day: The camera provides high-quality color images using the existing light.
Day/Night Sensitivity	Light threshold for switching between day mode and night mode. A higher sensitivity means that the camera is more sensitive to the change of light and becomes more easily to switch between day mode and night mode. Note: You can set this parameter 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 conditions for switching are met. Note: You can set this parameter only when Day/Night Mode is set to Automatic.
WDR	Enable WDR to distinguish the bright and dark areas in the same image. Note: You can set this parameter only when Exposure Mode is neither Customize nor Manual and when Image Stabilizer is disabled.
WDR Level	After enabling the WDR function, you can improve the image 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 1-6.
Suppress WDR Stripes	When enabled, the camera can automatically adjust slow shutter frequency according to the frequency of light to minimize stripes that may appear in images.

3. To restore the default settings, click **Default**.



NOTE!

This function may vary with models. Please see actual Web interface for details.

1. Click Setup > Image > Image and then click Smart Illumination.

* Smart Illumination			
Smart Illumination	●On⊖Off	Control Mode	Manual 🗸
Lighting Type	Infrared V	Near-illumination Level	0
Mid-illumination Level	0	Far-illumination Level	0

2. Select the correct IR control mode and set the parameters. The following table describes some major parameters.

Derementer	
Parameter	Description
	Infrared: The camera uses infrared light illumination.
Lighting Type	White Light: The camera uses white light illumination.
-18110118 19PC	Note:
	When Control Mode is set to Manual , camera can set illumination level from 0~1000.
Control Mode	 Global Mode: The camera adjusts IR illumination and exposure to achieve balanced image effects. Some areas might be overexposed if you select this option. This option is recommended if monitored range and image brightness are your first priority. Overexposure Restrain: The camera adjusts IR illumination and exposure to avoid regional overexposure. Some areas might be dark if you select this option. This option is recommended if clarity of the central part of the image and overexposure control are your first priority. Road: This mode offers strong illumination in whole and is recommended for monitoring wide-ranging scenes, for example, road. Park: This mode offers uniform light and is recommended for monitoring small range scenes with many obstacles, for example, industrial parks. Manual: This mode allows you to manually control the intensity of IR illumination.
	Indoor: This mode is recommended for application in indoor scenes.
	Set the intensity level of the IR light. The greater the value, the higher the intensity. 0 means that the IR light is turned off.
	• Near-illumination Level : You are recommended to set this parameter first for a wide-angle scene.
Illumination Level	• Mid-illumination Level : You are recommended to set this parameter first if the scene requires an intermediate focal length.
	• Far-illumination Level : You are recommended to set this parameter first if the scene requires a telephoto view.
	Note:
	You can set this parameter only when Control Mode is set to Manual .

3. To restore the default settings, click Default.

Focus

NOTE!

This function may vary with models. Please see actual models for details.



-0

1. Click Setup > Image > Image and then click Focus.

* Focus		
Focus Mode	One-Click Focus	~
Scene	Normal	~

2. Select the focus mode as required.

Parameter	Description
Focus Mode	 Auto Focus: The camera focuses automatically according to the current light condition. Manual Focus: Manually adjust camera focus as required. One-Click Focus: The camera is triggered to focus once when rotating, zooming or going to a preset.
	• One-Click Focus (IR): In a low light condition such as during night hours or in a dark house, this focus mode achieves better effects with the IR light turned on.
Scene	 Normal: Used for common scenes, such as road and industrial park. Long Distance: Used for long-distance monitoring on a road. For example, when the camera is installed over 30 meters high to monitor a distant road intersection.

3. To restore the default settings, click **Default**.

White Balance

White balance is the process of offsetting unnatural color cast in images under different color temperatures so as to output images that best suit human eyes.



NOTE!

This function may vary with models. Please see the actual Web interface for details.

1. Click Setup > Image > Image and then click White Balance.

* White Balance	
White Balance	Auto 💌
Red Offset	11
Blue Offset	14

2. Select a white balance mode as required. The following table describes some major parameters.

Parameter	Description
White Balance	 Adjust the red or blue offset of the image: Auto/Auto2: The camera adjusts the red and blue offset automatically according to the light condition (the color tends to be blue). If the images are still unnaturally red or blue in Auto mode, please try Auto2. Fine Tune: Allow you to adjust the red and blue offset manually. Outdoor: Suitable for outdoor environment with a relatively greater color temperature range. Locked: Lock the current color temperature without change. Sodium Lamp: The camera adjusts red and blue offset automatically according to the light condition (the color tends to be red).



	Adjust the red offset manually.
Red Offset	Note:
	You can set this parameter only when White Balance is set to Fine Tune.
	Adjust the blue offset manually.
Blue Offset	Note:
	You can set this parameter only when White Balance is set to Fine Tune.

3. To restore the default settings, click **Default**.

Advanced

Use the defog function to adjust the clarity of images captured in fog or haze conditions.

1. Click Setup > Image > Image and then click Advanced.

* Advanced	
Defog	Off V
Defog Intensity	5
Image Stable	EIS V

NOTE!

- You can set this parameter only when WDR is turned off.
- Only some camera models support optical defog. When Defog is set to On, defog intensity level 6-9 represent optical defog, and images change from color to black/white when defog intensity is set from level 5 to 6; if Defog is set to Auto and defog intensity level is somewhere between 6-9, images do not automatically change to black/white in light fog conditions; the camera automatically switches to optical defog only in heavy fog conditions.
- **2.** Enable the defog function and then select a level for the scene. Level 9 achieves the maximum defog effects, and level 1 achieves the minimum.



Defog Off



Defog On

3. To restore the default settings, click **Default**.

Lighting Type



NOTE!

This function may vary with models. Please see the actual model for details.

1. Click Setup > Image > Image and then click Smart Illumination



- 2. Select an option from the Lighting Type drop-down list.
- **3.** To restore the default settings, click **Default**.

Configuring Iris and Lens Mode

- NOTE!
 - This function is only supported by certain network box camera types. Please see the actual model for details.

-

- Please use the lens with P-Iris control mode, and connect the iris control cable to the Z/F port of the camera.
- Iris can be set only when Lens Mode is set to P-IRIS.

1. Click Setup > Image > Image and then click Advanced.

Advanced				
Defog	Off	•	Lens Mode	P-IRIS
Defog Intensity		5	Aperture Control	Manual
			F-Number	100
				Use Recommended Value

2. Modify the settings as required. The following table describes some major parameters.

Parameter	Description
Lens Mode	 Z/F: to modify focus and zoom. P-Iris: to modify iris value.
Aperture Control	Automatically or manually adjust iris. Note: You can set this parameter only when Lens Mode is set to P-Iris.
F-Number	Change aperture manually.

3. To restore the default settings, click **Default**.

OSD Setting

On Screen Display (OSD) is the text displayed on the screen with video images and may include time and other customized contents.



NOTE!

This function may vary with models. Please see the actual Web interface for details.

1. Click Setup > Image > OSD.



areal	Enable No. Ove	wlay OSD Content		X-Axis V-Axis
h	☑ 1 <d< th=""><th>ate & Time></th><th></th><th>✓ 2 B</th></d<>	ate & Time>		✓ 2 B
14	2			[75] [3]
distant of the	2 3			2 75
And Day of the	1 4			0 0
PF 1				0 0
The state of the second s				0 0
and the second se				0 0
[None]	A 1 8			0 0
	Display Style			
	Effect	Background	v	
*	Font Size	Medium	Y	
•	Font Color	#0000-1		
	Min. Margin	None	~	
	Date Format	dd/MM/yyyyy	Y	dd=Day; dddd=Day of the week; M=Month; y=Year
	Time Format	HH mm ss	V	h/H=12/24 Hout; tt=A.M. or P.M.; mm=Minute; ss=Secon

The OSD interface of some models is displayed as follows.

areal			Inable	No.	Overlay OSD Content		X-Aais Y-Aais
Augentine and	2	- //	1	1	«Date & Time»		✓ 2 3
Self Tom	- Andrew State	Teller.		2			75 3
ALL ALL A		1 miles		3			2 75
AND DESCRIPTION		- Ba		4			0 0
PA DE DE PR				5			0 0
	- WAAY	IT THE COM		6			0 0
CONTRACTOR OF THE OWNER	State State State	40. 2		7			
1	[None]	× + + =		8			0 0
· · · ·	0 0	E E	Displa	y Style			
4 11 1		1 44 1 44	Effect		Background	×	
	0 0		Font 5	ize	Medium	Y	
T			Font	lolor	(#0000-t		9
· •	* *	9	Min. N	Aargin	None	~	
	8 9	8	Date F	ormat	(dd/MM/yyyy	v	dd=Day; dddd=Day of the week; M=Month; y=Year
and the second se	and a second sec	Contraction of the local division of the loc	Time	format	HH mm ss	Y	h/H=12/24 Hours It=A.M. or P.M.; mm=Minute; ss=Second

- **2.** Select the position and content of the OSD.
- Position: Click the desired box in the **Live View** area. After the cursor shape is changed, click and hold the button to move the box to the desired position. To set the position precisely, use the X and Y coordinates under **Overlay Area**.
- Overlay OSD Content: The drop-down list provides **Time**, **Preset** and **Serial Info**. You may also select **Custom** and enter the content you want.
- After you have set the position and OSD content, the ✓ symbol appears in the Status column, which means that the OSD is set successfully. You may set multiple lines of contents for each area and use ∧ and ∨ to adjust the sequence of display.
- **3.** After you have completed the settings, a message appears to indicate the successful settings.

You may right-click in the preview window and then choose to view in full screen mode or at an aspect ratio. You may also double-click the preview window to enter or exit full screen mode.

To cancel OSD for an area, clear the OSD content in the **Overlay OSD Content** column or select **None** in the **Position** column.

The following shows an example time OSD.





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. When PTZ changes its position or zooms, the Privacy Mask will be adjusted accordingly to protect the area all along.

NOTE!

=

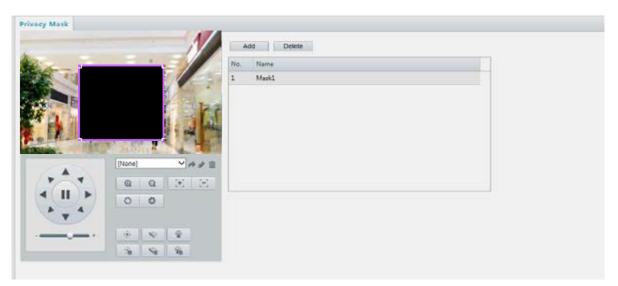
- This function may vary with models. Please see the actual Web interface for details.
- Some models support up to 24 privacy masks. The same picture shows up to only 8 privacy masks.

and the second sec		No.	Name	Max. Zoom	Operation
		1	Mask1	1.00]
	[None] ✓ ♥ ♥ 葡 Q. Q. (+) (-) ★ ★				

1. Click Setup > Image > Privacy Mask.

For some camera models, the page is displayed as follows:





- 2. Click + to add a privacy mask, and click \overline{m} to delete a mask.
- To mask a position: Click the box (with **Mask** displayed on it) to activate the mask. After the cursor shape has changed, drag the box to the intended position.
- To mask an area: Use the mouse to draw a box on the area you want to mask.

When privacy mask is configured, the intended area is blocked. The following shows an example.



Audio and Video Configuration

Video Configuration

You can set video parameters that your camera supports and view the current status of BNC output. If available, you may also enable sub-stream and third stream as required.



NOTE!

- This function may vary with models. Only some camera models support the third stream. To determine if your camera supports this function, see the Web interface.
- After enabling the sub or third stream, modify the parameters as required. The parameters for the sub and third stream have the same meanings as that for the main stream.
- 1. Click Setup > Video & Audio > Video.



H.264 1080P		-
1080P		10.00
		Ŧ
25		-
4096	[128~16384]	
CBR		-
Quality	Bit R	ate
50	[5 ~ 250]	
IP		Ŧ
Clear	Smo	oth
🔿 On 🧿	Off	
Off		•
PAI		
	CBR Quality 50 IP Clear	CBR Quality Bit R 50 [5 ~ 250] IP Clear Smo On @ Off Off

2. Modify the settings as required. The following table describes some major parameters.

Parameter	Description	
	Three options: H.265, H.264 and MJPEG.	
Video Compression	Note:	
	• Image Quality cannot be set when Video Compression is set to H.265 or H.264. When set to MJPEG, only three frame rates are available: 1, 3 and 5; and Bit Rate, I Frame Interval, Smoothing and U-Code cannot be set.	
	• The bit rate changes to the default when you change the setting between H.264 and H.265. The default bit rate for H.265 is half of that for H.264.	
	Frame rate for encoding images. Unit: FPS (frame per second).	
Frame Rate	Note:	
	To ensure image quality, note that the frame rate should not be greater than the reciprocal of shutter speed.	
Bitrate Type	• 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 Encoding Mode is VBR , you can move the slider to adjust quality level for images. Moving the slider toward Bit Rate decreases the bit rate and may affect image quality. Moving the slider toward Quality increases the bit rate and improves image quality.	
l Frame Interval	Interval at which an I frame is encoded. Normally, a shorter I frame interval offers better image quality but consumes more bandwidth.	
GOP	Group Of Pictures in MPEG video encoding. This parameter specifies the order in which intra-frames (I frame) and inter-frames are arranged.	
SVC	SVC (Scalable Video Coding) can reduce storage without compromising playback quality.	
U-Code	• Basic Mode: The actual bit rate is around 3/4 of the set bit rate.	



Parameter	Description	
	• Advanced Mode: The actual bit rate is around 1/2 of the set bit rate.	
	Note:	
	• When U-Code is enabled, video compression only supports H.264 and H.265. MJPEG is not supported.	
	• When U-Code is enabled, the capture mode does not support frame rates higher than 30.	
Smoothing	Set the extent of smoothing. Choosing Clear means disabling Smoothing . Moving the slider toward Smooth increases the level of smoothing but will affect image quality.	
	Note:	
	In a poor network environment, you can enable smoothing to get more fluent video.	
BNC Output	BNC output supports NTSC and PAL.	

3. Click Save.

Audio Configuration

Audio configuration means setting audio encoding parameters for your camera.



NOTE!

This function is not supported by some models. Please see the actual model for details.

1. Click Setup > Video & Audio > Audio.

Audio Input	
Audio Input	⊘ On ⊚ Off
Access Mode	Line/Mic 💌
Input Gain	128 [0~255]
Audio Compression	G.711U 🔹
Sampling Rate(KHz)	8 👻
Noise Suppression	💮 On 👜 Off
Channel 1	Line 💽 🔽 Enable

2. Modify the settings as required. The following table describes some major parameters.

Parameter	Description
	No audio data will be encoded when Off is selected.
Audio Input	Note:
	It is recommended to select Off if you do not need audio. This can improve device performance to some extent.
	Currently only Line/Mic.
Access Mode	Note:
	This function is not available to devices with two audio output channels.
. I'	Three options: G.711U, G.711A and ACC-LC.
Audio Compression	G.711U and G.711A support 8K sampling rate only, and ACC-LC supports 8K, 16K and 48K sampling rates.



Parameter	Description
Input Gain	Audio signal amplification for sampling. The greater the gain, the greater amplification.
Noise Suppression	Used to reduce noise in images. To enable noise suppression, select On .
	Audio output channel. To enable audio output, select Enable.
Channel	Note:
	Only some camera models support two channels.

3. Click Save.

Snapshot

Snapshot	● On ◯ Off	
Resolution	1920*1080	~
Most Large(KB)	300	
Scheduled Snapshot		
Snapshot Interval	1	
Number to Snapshot	2	~
Snapshot Mode	● Schedule ○ Repeat	
No.	Snapshot Time	+
1	19:12:00	â

2. Select **On**, and then set resolution, most large and schedule as needed. Some parameters are described in the table below.

Parameter	Description
Snapshot Interval	Interval between two snapshots. For example, with Snapshot Interval set to 1 and Number of Snapshot set to 2, the camera will take 2 snapshots (take one first and then take another after 1 second).
Number to Snapshot	Currently 1, 2, and 3 snapshots are allowed.
Snapshot Mode	Schedule: You need to set a snapshot time, e.g., 19:12:00, which means the camera takes a snapshot at 19:12:00.
	Repeat : Allows you to set an interval(unit: sec). For example, according to the settings shown in the figure above, 60 seconds must elapse before the camera takes another two snapshots.

3. Click Save.



When Region of Interest (ROI) is enabled, the system ensures image quality for ROI first if the bit rate is insufficient.



NOTE!

This function is not supported by some models. Please see the actual model for details.

1. Click Setup > Video & Audio > ROI.



Click +, and then drag the mouse to cover the intended part of the images. To delete, select the area and then click .

Media Stream Configuration

Media Stream

You can display the established media streams from a camera. You may also set the camera so it transmits code streams by the UDP or TCP protocol to a specified IP address and port number. The settings can be saved and take effect after the camera is restarted.



NOTE!

- This function is not supported by some models. Please see the actual model for details.
- Choosing a transport protocol based on your actual needs and network performance. Generally speaking, TCP enables better image quality than UDP but also causes higher latency.
- 1. Click Setup > Video & Audio > Media Stream.



Stream Profile	IP Address	Port	Protocol	Persistent	+
	Add Media Stream			×	
	Stream Profile IP Address Port Protocol Persistent		▼ ▼		
		ОК	Cancel		

2. Click 📕, select a stream type, and then set the IP address and port number of the unicast or multicast

group for the decoding device that receives audio and video streams from the camera.

If you want the device to establish the media stream that has been configured before automatically after the restart, select Yes for Persistent.

- 3. To delete a stream, click 📠.
- 4. Click **Submit** to complete the operations.

RTSP Multicast Address

After an RTSP multicast address is configured, the third-party player can request the RTSP multicast media stream from the camera through the RTP protocol.

1. Click Setup > Video & Audio > Media Stream > RTSP Multicast Address.

Main Stream		
Multicast Address	0.0.0.0	
Port	0	
Sub Stream		
Multicast Address	0.0.0.0	
Port	0	
Third Stream		
Multicast Address	0.0.0.0	
Port	0	

For some camera models, the page is displayed as follows.



Main Stream	
Multicast Address	0.0.0.0
Port	0
Sub Stream	
Multicast Address	0.0.0.0
Port	0
Third Stream	
Multicast Address	0.0.0.0
Port	0
Multicast Address	0.0.0.0
Port	0
Multicast Address	0.0.0.0
Port	0
Multicast Address	0.0.0.0
Port	0

- **2.** Set the multicast address (224.0.0.0 to 239.255.255.255) and port number (0 to 65535).
- 3. Click Save.

Intelligent Alarm Configuration

You can configure intelligent monitoring to count people and monitor moving objects. Intelligent monitoring includes people counting, intrusion detection, and auto tracking.

The supported functions may vary with camera model.

Smart Settings

Click Setup > Intelligent > Smart Settings.



Cross Line	0	☑ 🔣 Intrusion	0
Exception Detection & Statistic	5		
Dbject Moving	0	D Object Left	0
Face			
	0		
People Counting			
People Counting	0		
Auto Tracking			
Auto Tracking	0		

For some camera models, the page is displayed as follows.

Cross Line	0	Intrusion	0
Exception Detection & Statistics	5		
Defocus	0	🗹 🔀 Scene Change	0
Face			
E Face	0		
People Counting			
People Counting	0	1	

Cross Line Detection

Cross line detection detects objects that cross a virtual line in live video and triggers alarm when such an event is detected.

1. Click Setup > Intelligent > Smart Settings. Choose Cross Line and then click



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Cross Line Detection			Detection Rule	+	Rule1 Trigger Direction Sensitivity	[A<>8	9 50	
4 (II) b		-++= [Alarm Output	Unarm	Upload to FTF	,	Trigger E-mail	Trigger Tracking
· · ·	*		0 1 2 2 Mon Tue Wed Thu Fri Sat Sun	1000		13 14 15 16 1	7 18 19 20 21 22 20 24	

- 2. Select Cross Line Detection.
- 3. In the Detection Rule area, click 🛨 to add a new detection area. To delete a detection area, click 🗰 .
- 4. On the small preview window, drag the line to the intended position and set the detection range.
- **5.** Set the direction and sensitivity for the camera to decide whether to report a cross line detection alarm.
- **6.** Set the alarm-triggered actions and arming schedule as required. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 7. Click Save.

Intrusion Detection

Intrusion detection detects objects that enter a specified area in live video and triggers alarm when such an event is detected.

1. Click Setup > Intelligent > Smart Settings. Choose Intrusion and then click



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Distrusion Detection		Detection Rule Rules	Rule1 Time Threshold(x) Sensitivity Percentage		
		Trigger Actions Alarm Output Enable Plan	Upload to FTP	Trigger E-mail	Trigger Tracking
× 4	*		nammed 5 6 7 8 9 10 11 12 13 14 15	Edit	

- 2. Select Intrusion Detection.
- 3. In the Detection Rule area, click 📩 to add a new detection area. To delete a detection area, click 👜 .
- 4. Drag the borders of the box to set the intended position and range.
- **5.** Set time threshold, sensitivity, and percentage for the camera to decide whether to report an intrusion detection alarm.
- Time Threshold: The minimum length of time that the intruder stays in the detection area before an alarm will be reported.
- Sensitivity: Sensitivity of detection. A greater value means higher detection sensitivity.
- Percentage: The minimum ratio of the intruder's size to the size of the specified detection area before an alarm will be reported.
- **6.** Set the alarm-triggered actions and arming schedule as required. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 7. Click Save.

Object Moving

Detect objects left behind in the specified area and trigger alarms.

1. Click Setup > Intelligent > Smart Settings. Choose Object Moving and then click



Enable Object Moving Detection	Detection Rule	+ Rule1	
	Rule1	Time Threshold(s)	50
	Trigger Actions Alarm Output		ar E-mail
	0 1 2 Mon Tue Wed Thu Fri Sat Sun	Unarmed	Edit

- 2. Select Enable Object Moving Detection.
- 3. In the Detection Rule area, click \pm to add a detection area. To delete, click \pm .
- **4.** Drag the box to set the position and effective range.
- 5. Set time threshold and sensitivity to decide whether to report an intrusion detection alarm.
- **Time threshold**: Minimum duration an object is detected in the specified area to trigger an alarm.
- **Sensitivity**: The greater the number, the higher the sensitivity. An alarm is reported if an object is detected in the specified area for the specified length of time.
- **6.** Set the alarm-triggered actions and arming schedule as required. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 7. Click Save.

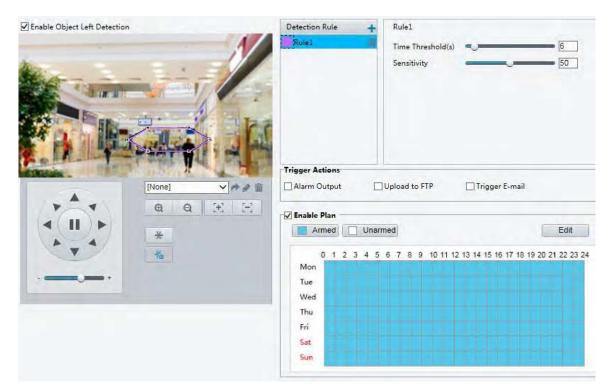
Object Left

Detect objects left behind in the specified area and trigger alarms.

1. Click Setup > Intelligent > Smart Settings. Choose Object Left and then click



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- 2. Select Enable Object Left Detection.
- 3. In the Detection Rule area, click \blacksquare to add a detection area. To delete, click \blacksquare .
- **4.** Drag the box to set the position and effective range.
- 5. Set time threshold and sensitivity to decide whether to report an intrusion detection alarm.
- **Time threshold**: Minimum duration an object is detected in the specified area to trigger an alarm.
- **Sensitivity**: The greater the number, the higher the sensitivity. An alarm is reported if an object is detected in the specified area for the specified length of time.
- **6.** Set the alarm-triggered actions and arming schedule as required. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 7. Click Save.

Face Detection

Face detection detects human faces in live video.

1. Click Setup > Intelligent > Smart Settings. Choose Face and then click ⁹.



Smart Settings > Face			Start Intelligent Ana	lysis
Face				
Detection Area	○ Full Screen Specifi	ed Area	4	1
Detection Sensitivity		5	and the second	
Snapshot Mode	Intelligent Recognitio	n 🗌 Alarm Input	10 × 10	
Max. Same Thumbnail I	[10			A
Counting	⊖ On			
Filter by Object Size (V	/idth)(px)			and a start and the
Max. Size	600		and the second second	
Min. Size	240			[[None] V 🔿 🗇 🗇
Trigger Actions				Q Q E E
☑ Upload Image ☑ Thumbnail Image	Alarm Out	put.		*
✓ Enable Plan				Ha l
Armed 🔲 l	Inarmed	Edit		•
0 1 2 3 · Mon	4 5 6 7 8 9 10 11 12	2 13 14 15 16 17 18 19 20 21 22 2	13 24	
Tue				
Wed				
Thu				
Fri				
Sat				

- 2. Drag the borders to set the intended position and range.
- **3.** Set detection parameters according to actual needs.
- **4.** Set the alarm-triggered actions and arming schedule as required. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 5. Click Save.
- 6. Click Start Intelligent Analysis.

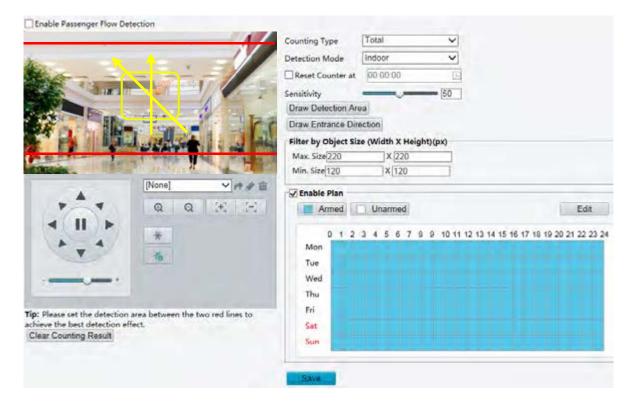
People Counting



NOTE!

- Only some camera models support this function.
- The supported alarm triggering and arming schedule may vary with camera model. Please see the actual Web interface for details.
- 1. Click Setup > Intelligent > Smart Settings. Choose People Counting and then click





- 2. Select Enable Passenger Flow Detection. Select a detection mode, set report interval and sensitivity.
- **3.** Click **Draw Detection Area**, and then draw a detection area on the preview window on the left, e.g., a square.
- **4.** Click **Draw Entrance Direction**, and then draw the direction on the preview window on the left. The direction is usually vertical or sloping.
- 5. Set Max. Size and Min. Size under Filter by Object Size. Only objects within the size range will be counted; others will be filtered and not counted. The maximum width or height must be greater than the minimum width or height.
- **6.** Set the alarm-triggered actions and arming schedule as required. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 7. To reset counting results, click Clear Counting Result.
- 8. Click Save.

Auto Tracking

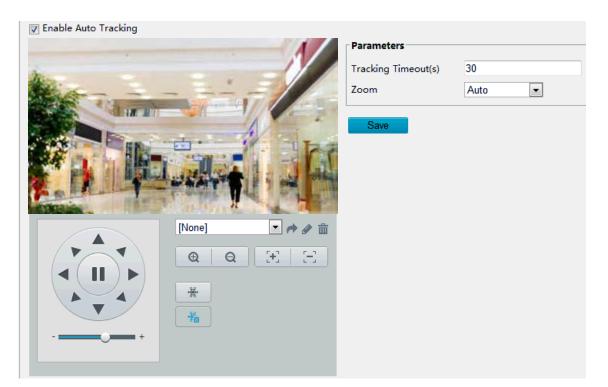
The camera automatically tracks an object that triggers the rule.



NOTE!

- Only some camera models support this function.
- The supported alarm triggering and arming schedule may vary with camera model. Please see the actual Web interface for details.
- 1. Click Setup > Intelligent > Smart Settings. Choose Auto Tracking and then click ??.





- 2. Set tracking timeout (unit: sec) and zoom ratio.
- 3. Click Save.

Heat Map

The heat map uses different colors to display visitor traffic patterns. A dark color, red, for example, indicates higher traffic density.

1. Click Setup > Intelligent > Smart Settings. Choose Heat Map and then click ⁽²⁾.

Enable		
	Number of Zones 4 V	
	Background Update Rate	
	Sensitivity	
	Min. Object Size	
	Update Interval(min)	
	Report Data to Center	
	Enable Plan	
	Armed Unamed	Edt
	0123456789 1011	12 13 14 15 16 17 18 19 20 21 22 23 24
	0 1 2 3 4 5 6 7 8 9 10 11 1 Mon	12 13 14 15 10 17 18 19 20 21 22 25 24
	Tue	*********
	Wed	
	Thu	
	fri	
	See	
	Sun	

- 2. Select Enable.
- 3. Set Background Update Rate. The greater the value, the quicker the image refreshes.
- 4. Set **Sensitivity**. The greater the value, the more likely that small objects will be detected.
- 5. Set Min. Object Size. The greater the value, the more small objects will be ignored during detection.
- 6. Set update interval for reporting statistics to the platform.



- **7.** Set the alarm-triggered actions and arming schedule as required. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 8. Click Save.

Defocus Detection

NOTE!

- Only some camera models support this function.
- The supported alarm triggering and arming schedule may vary with camera model. Please see the actual Web interface for details.

Use defocus detection to detect defocus of the camera and to report an alarm when such an event is detected.

1. Click Setup > Intelligent > Smart Settings. Choose Defocus and then click 🔷 .

Smart Settings > Defocus Detection
Defocus Detection
Sensitivity 50
Trigger Actions
🔄 Alarm Output
🔄 Trigger E-mail
Save
Save

- 2. Select Defocus Detection.
- **3.** Set detection sensitivity and alarm-triggered actions as required. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 4. Click Save.

Scene Change Detection

NOTE!

- Only some camera models support this function.
- The supported alarm triggering and arming schedule may vary with camera model. Please see the actual Web interface for details.

Use scene change detection to detect the change of surveillance environment caused by external factors such as intentional rotation of the camera, and to report an alarm when such an event is detected.

1. Click Setup > Intelligent > Smart Settings. Choose Scene Change and then click ⁽¹⁾.



Scene Change Detection	
Sensitivity 50	
Trigger Actions	
Upload to FTP	
Trigger E-mail	
Enable Plan	
Armed Unarmed	Edit
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	7 18 19 20 21 22 23 24
Mon	
Tue	
Wed	
Thu	
Fri	
Sat	
Sun	

- 2. Select Scene Change Detection.
- **3.** Set detection sensitivity. Set the alarm-triggered actions and arming schedule as required. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 4. Click Save.

Advanced Settings

Advanced settings include snapshot clarity and detection mode for intelligent functions.

Photo parameters

Set clarity of snapshots.

1. Click Setup > Intelligent > Advanced Settings. Click Photo parameters tab.

Clarity	
Thumbnail Image Clarity	99

- **2.** Set the thumbnail image clarity.
- 3. Click Save.

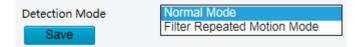
NOTE!

Please turn off the Face Detection before setting the photo parameter.



NOTE!

- Only some camera models support advanced settings. Please see the actual Web interface for details.
- The default detection mode is **Normal Mode**. Set as required.
- 1. Click Setup > Intelligent > Advanced Settings. Click Detection parameters tab.



- **2.** Choose a detection mode. Choose **Filter Repeated Motion Mode** to prevent repeated alarm reporting caused by repeated motion detected in the surveillance environment.
- 3. Click Save.

Common Alarm Configuration

You can schedule alarm reporting and set actions that can be triggered by other devices so that alarms and the triggered actions can be handled in time.

Alarm reporting can be scheduled for motion detection alarm, alarm input, alarm output, tampering detection alarm, and audio detection alarm. The supported alarms may vary with device model. For the alarm types that your camera supports, see the Web interface.

Configuring Motion Detection Alarm

Motion detection detects the object motion in a specified rectangular area during a period. You need to set a detection area, sensitivity of detection, object size, and history for the camera to decide whether to report a motion detection alarm when it detects motion.

NOTE!

- This function is not supported by some models. Please see the actual model for details.
- The alarm triggered actions may vary with models. Please see the actual Web interface for details.

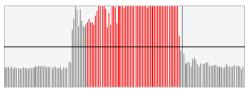
Area Detection

1. Click Setup > Events > Common Alarm > Motion Detection. Set Detection Mode to Area.



Detection Mode	[Area	- A	Detection Area + Area1 Area1 Sensitivity Low - High	
			Alarm Parameters Suppress Alarm(s)	
	[None]	v ##1	Clear Alarm(s) 5	
		(H) (H)	Trigger Actions Alarm Dutput 1 Goto Preset Upload to FTP Record	ding 🗌 Trigger E-mail
		¥ G	Enable Plan Unarmed Edit	
	39		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	

- 2. In the Detection Area area, click 📩 to add a new detection area. To delete a detection area, click 📠.
- **3.** Click and drag the mouse to set a detection area.
- **4.** Set the detection sensitivity, object size, and history for the camera to decide whether to report a motion detection alarm.
- Moving the slider to the right increases detection sensitivity. When the extent of motion within the detection area exceeds the set object size, the camera reports an alarm.
- Object size specifies the minimum ratio of the object's size to the size of the total detection area before an alarm will be reported. That is to say, to detect motion of tiny objects, you need to draw a small box (detection area) in the actual motion area accordingly.
- Motion detection results are shown in real time. The red lines represent the raised motion detection alarms. The longer a line, the greater the extent of motion. The denser the lines, the greater the frequency of motion.



- 5. Set the alarm parameters.
- Suppress Alarm(s): After an alarm is triggered, the same alarm will not be reported within the set time.
- Clear Alarm(s): After an alarm is triggered,
 - **a.** If the same alarm is not triggered within the set time, the alarm will be cleared and the same alarm can be reported again.
 - **b.** If the same alarm is triggered within the set time, the alarm will not be cleared until the suppress alarm time expires. Then the same alarm can be reported again.
- 6. Set actions to be triggered by motion detection alarm and the plan.

The following table describes the major alarm-triggered actions and how to set a plan.



ltem	Description	
Alarm Output 1	Select the check box. This setting is the alarm output interface linked to motion detection alarm. Note: When an alarm is reported, the camera triggers alarm output so as to trigger actions by a third-party device.	
Goto Preset	 Select the check box and set the preset linked to motion detection alarm. Note: Make sure you have set presets. Otherwise, you cannot set this parameter. For details about how to set a preset, see <u>Setting Presets</u>. When an alarm is reported, the PTZ camera automatically goes to the preset to capture video in the correct scene. 	
Upload to FTP	With Upload to FTP selected, the camera will automatically upload snapshots to the specified FTP server when an alarm is triggered. Note: Make sure you have completed <u>FTP</u> and <u>Snapshot</u> before using this function.	
Recording	With Recording selected, the camera will automatically record video when an alarm is triggered. Note: Please set Post-Record(s) on the Storage page first. Post-Record(s) specifies how long recording continues after the end of an alarm.	
Alarm the Center	With Alarm the Center selected, the camera will sends alarm information to the central server when an alarm is triggered. Note: Please complete settings on the Server page first.	
Trigger Tracking	 With Trigger Tracking selected, the camera starts auto tracking when an alarm is triggered. Note: Only some camera models support this function. Please set auto tracking on the Smart Settings page first. 	
Trigger E-mail	 With Trigger E-mail selected, the camera will automatically send snapshots to the specified E-mail address when an alarm is triggered. Note: Make sure you have completed <u>E-Mail</u> before using this function. 	
Enable Plan	Select the check box and set the start and end times during which motion detection alarm is effective. You can directly drag the mouse to draw a plan and click Edit to edit time periods in the table. The time periods cannot overlap. The camera reports alarms during the specified period(s) only. You can select from Monday to Sunday and set four periods for each day.	



7. Click Save.

Grid Detection

1. Click Setup > Events > Motion Detection. Set Detection Mode to Grid.

Detection Mode	Grid V	Sensitivity Low
		Alarm Parameters Suppress Alarm(s) Clear Alarm(s) 5
		Trigger Actions Alarm Output 1 Goto Preset 10000R C Dupload to FTP Recording Trigger E-mail
		Annec Unamed Ecc 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 1 22 23 24 Mon Ture Wed Thrae Fri Sat <

- 2. Detection area(s) can be irregular on the grid.
- **3.** Set detection sensitivity for the camera to decide whether to report a motion detection alarm (alarm visible on compatible NVR).
- 4. Set alarm parameters.
- Suppress Alarm(s): After an alarm is triggered, the same alarm will not be reported within the set time.
- Clear Alarm(s): After an alarm is triggered,
 - **a.** If the same alarm is not triggered within the set time, the alarm will be cleared and the same alarm can be reported again.
 - **b.** If the same alarm is triggered within the set time, the alarm will not be cleared until the suppress alarm time expires. Then the same alarm can be reported again.
- **5.** Set actions to be triggered by motion detection alarm and the plan. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Area Detection</u> in <u>Configuring Motion Detection Alarm</u>.
- 6. Click Save.

Configuring Tampering Alarm

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



NOTE!

- This function is not supported by some models. Please see the actual model for details.
- The alarm triggered actions may vary with models. Please see the actual Web interface for details.
- 1. Click Setup > Events > Common Alarm > Tampering Alarm.



ampering Alarm	● On () Off			
ensitivity	<u>50</u>			
uration(s)	1			
Trigger Actions				
Alarm Output 1	Goto Preset 1[DOOR]	Upload to FTP	Recording	Trigger E-mai
✓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 3	21 22 23 24		
0 1 2 3 Mon	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 3	21 22 23 24		
and the second se	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 3	21 22 23 24		
Mon	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 3	21 22 23 24		
Mon Tue	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 3	21 22 23 24		
Mon Tue Wed	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 3	21 22 23 24		
Mon Tue Wed Thu	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 3	21 22 23 24		

- 2. Select On for Tampering Alarm.
- **3.** Set detection sensitivity and duration for the camera to decide whether to report a tampering alarm. Sensitivity is divided into three levels: high-level, mid-level and low-level. Compared with mid-level sensitivity, the camera can detect blocking from a farther location when sensitivity is set to high. The camera reports an alarm when the lens is blocked for a specified length of time.

Tampering alarm is effective to the whole screen. To disable tampering alarm, clear the **Tampering Alarm** check box.

- **4.** Set actions to be triggered by tampering alarms and the plan. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 5. Click Save.

Configuring Audio Detection Alarm

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. Make sure that an audio input device is correctly connected to the camera and audio input is turned on in <u>Configuring Alarm Input</u>.



NOTE!

- This function is not supported by some models. Please see the actual web interface for details.
- The alarm triggered actions may vary with models. Please see the actual Web interface for details.
- 1. Click Setup > Events > Common Alarm > Audio Detection.



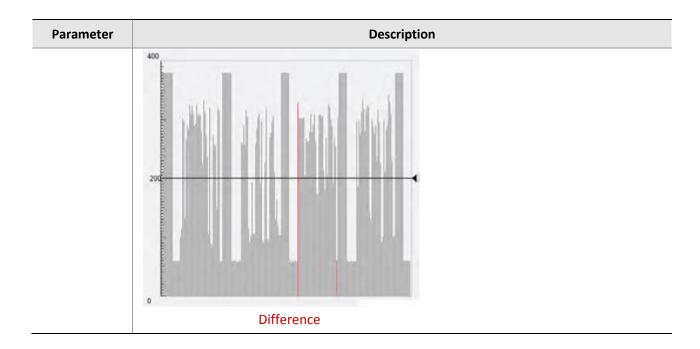
400	Audio Detection	
	Difference 100	
		t T(DOOR) V Deload to FTP
	Recording Trigger E-mail	
	Enable Plan	
200	Armed Unarmed	Edit
	0 1 2 3 4 5 6 7 8 9 10 11 12 Mon	2 13 14 15 16 17 18 19 29 21 22 23 24
	Tue	
	Wed	
	Thu	
	Sat	+++++++++++++++++++++++++++++++++++++++
0	Stop Sun	

2. Select **Enable** for **Audio Detection**, select a detection type and set the difference or threshold. To disable audio detection, clear the **Enable** check box.

The following table describes some major parameters.

Parameter	Description		
Detection Type	 Sudden Rise: An alarm is reported when the rise of volume exceeds the difference. Sudden Falls: 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	 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. Note: The scale in the audio detection area is used to measure sound volume. Audio detection results are shown in real time. The red part indicates the reported audio detection alarms. Volume Scale		





- **3.** Set the alarm-triggered actions and arming schedule as required. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 4. Click Save.

Configuring Alarm Input

The camera can receive alarm information from a third-party device. To use this function, you need to configure the following information for alarm input first: port, alarm name, alarm type (normally open or normally closed) and alarm reporting time.



NOTE!

- This function is not supported by some models. Please see the actual model for details.
- The alarm triggered actions may vary with models. Please see the actual Web interface for details.

1. Click Setup > Events > Common Alarm > Alarm Input.

ect Alarm	Alarm Input 1	~			
rm Name					
rm ID					
rm Type	N.O.	~			
rm Input	● On () Off				
igger Actions					
Alarm Output 1	Goto	o Preset 1[DOOR] 🗸 🗸	Upload to FTP	Recording	🗌 Trigger E-mail
Enable Plan	Unarmed		Edit		
	Unarmed		Edit		
		10 11 12 13 14 15 16 17 18 19 2			
Armed		10 11 12 13 14 15 16 17 18 19 2			
Armed		10 11 12 13 14 15 16 17 18 19 2			
Armed 0 1 2 Mon		10 11 12 13 14 15 16 17 18 19 2			
Armed 0 1 2 Mon Tue		10 11 12 13 14 15 16 17 18 19 2			
0 1 2 Mon Tue Wed		10 11 12 13 14 15 16 17 18 19 3			
0 1 2 Mon Tue Wed Thu		10 11 12 13 14 15 16 17 18 19 2			



- 2. Select alarm and set the alarm name.
- **3.** Select **N.O.** or **N.C.** according to the type of the third-party alarm input device. For example, if the third-party alarm input device is normally open, you need to select **N.O.** here, so that the camera can receive alarm information from the third-party alarm input device.
- **4.** Set actions to be triggered by an input alarm and the plan. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 5. Click Save.

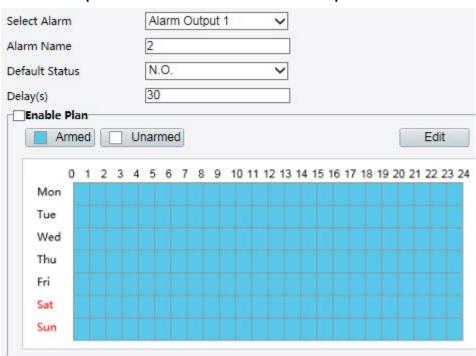
Configuring Alarm Output

After alarm output is triggered by a motion detection alarm, Boolean alarm, the camera can output alarm information to the third-party device if alarm output is set correctly to Normally Open or Normally Closed. The alarm output duration is configurable.



NOTE!

This function is not supported by some models. Please see the actual model for details.



1. Click Setup > Events > Common Alarm > Alarm Output.

- 2. Select the alarm and set the alarm name.
- 3. Set the status to N.O. (default setting) and set the alarm duration.
- **4.** Set actions to be triggered by an input alarm and the plan. For the detailed steps, see the descriptions of alarm-triggered actions in <u>Configuring Motion Detection Alarm</u>.
- 5. Click Save.





CAUTION!

Strictly follow the sequence when powering on the devices to avoid damaging camera components:

1. Check that the alarm type is set to **Normally Open** (default setting), and that the camera and the alarm output device are powered off.

2. After completing the connection, power on the camera first and then power on the alarm output device.

Memory Card Storage



- NOTE!
 - This function is not supported by some models, and may vary with models. Please see the actual model for details.
 - Edge storage is recommended when the camera operates in stand-alone mode. When the camera is managed by the central management server, you need to stop edge storage to avoid affecting the cache post recording service.
 - Post-Record is displayed if the camera is capable of this feature; This parameter is not displayed if not supported by the camera

Setting Edge Storage

Edge storage is used to save video data and snapshots to the memory card directly. Edge storage is recommended when the camera is running in stand-alone mode.

Manual storage

The camera records live video repeatedly if manual storage is enabled.

1. Click Setup > Storage > Storage.

Storage Medium	Memory Card 🗸	Format Z Enable
Total Capacity 7594 MB, F	ree Space 382 MB.	
Allocate Capacity		
Video(MB)	7594	(The remaining capacity is used for image storage.)
Common Snapshot(MB)	0	(The remaining capacity is used for smart snapshot storage.)
Smart Snapshot(MB)	0	
Video Storage Info		
Storage Policy	Manual Storage Planned Sto	orage 🔿 Off
Stream	Main Stream	
When Storage Full	Overwrite Stop	
Post-Record(s)	60	1

2. Start edge storage and modify the settings as required. The following table describes some major parameters.

Parameter	Description
Storage	Storage resource type.
Medium	Note:



	 To format the memory card, disable the storage function for the card first. Then Click Format and then click OK to confirm the operation. The system will restart when the format is completed. Information about the total and free space is displayed.
Data Overwrite Policy	 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)	For alarm-triggered recording, length of time that recording continues after the end of the alarm.

3. Click Save.

Planned storage

If planned storage is enabled, the camera records video to the memory card during the specified periods.

1. Click Setup > Storage > Storage.

Memory Card V	Format Z Enable
ree Space 382 MB.	
124220	
7594	(The remaining capacity is used for image storage.) (The remaining capacity is used for smart snapshot storage.)
0	
0	
O Manual Storage Planned Sto	rage 🔿 Off
Main Stream 🗸	
Overwrite Stop	
60	1
narmed	Edit
5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24
	ree Space 382 MB.

For some camera models, the page is displayed as follows.



Storage Medium	Memory Card	✓ Format Enable	
Total Capacity 7514 MB, Fr	ree Space 7514 MB.		
Allocate Capacity			
Video(MB)	7514	(The remaining capacity is used for image storage.)	
Common Snapshot(MB)	0		
Video Storage Info			
Storage Policy	O Manual Storage Pla	anned Storage 🔿 Off	
Stream	Main Stream	~	
When Storage Full	Overwrite Stop		
Post-Record(s)	60		
121			
Plan			
Armed Ur	narmed	Edit	
01234	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		الا	
Sun			

- 2. Select **Planned Storage**, and then set the periods during which the camera records video to the memory card.
- 3. Click Save.

NOTE!

- Planned storage is not effective when manual storage and planned storage are both enabled.
- To query recordings in the memory card, see <u>Video Playback and Download with Edge Storage</u>.

Setting Cache Post Recording

A camera under centralized management can use the memory card as a backup storage resource of the central management server. If storage from the camera to the central storage device is interrupted due to unstable network connection, the camera automatically will start cache post recording and store videos to the memory card.

With recording backup enabled, the camera can automatically transfer the video stored in the memory card to a storage resource of the backup server in form of file when the communication between the camera and the backup server is restored.

NOTE!

Before you set cache post recording for a camera, check that:

- The memory card is correctly installed on the camera.
- Backup resource has been added on the central server.
- Backup resource has been allocated for the camera.
- Post-Record is displayed if the camera is capable of this feature; This parameter is not displayed if not supported by the camera



Disable edge storage

1. Click Setup > Storage > Storage.

Storage Medium	Memory Card	~	Format Finable
Total Capacity 7594 MB, F	ree Space 382 MB.		
Allocate Capacity		_	
Video(MB)	7594		(The remaining capacity is used for image storage.)
Common Snapshot(MB)	0		(The remaining capacity is used for smart snapshot storage.)
Smart Snapshot(MB)	0		1
Video Storage Info			
Storage Policy	O Manual Storage O Pla	anned Sto	orage Off
Post-Record(s)	60		

- 2. Set Storage Policy to Off. Post-Record is displayed if the camera is capable of this feature and then set Post-Record(s).
- 3. Click Save.

NOTE!

System Maintenance



This function is not supported by some models. Please see the actual model for details.

Security

User Management

There are two types of users in the system:

- Administrator: referred to as "admin" in this manual. The default name of the administrator is admin, which cannot be modified. Admin has full permission and can manage all users and devices. Only one admin user is allowed in the system.
- Common user: referred to as "user" in this manual. User only has permission to play live and recorded video. Up to 32 common users are allowed in the system.

You can add a user on the user management interface (under Setup > Security > User).

After the user is added successfully, you can change the password by entering the new password or delete the user by clearing the username.



NOTE!

- Only admin can change passwords. 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.
- Only admin can add and delete users. Deleting a user when the user is still logged in will force the user to log out. A deleted user cannot log in.

Setting Secure Data Transmission

Set a secure channel for data transmission to ensure security.





NOTE!

This function is not supported by some models. Please see the actual model for details.

 Click Setup > Network > I 	Port.
---	-------

HTTP Port	80
HTTPS Port	443
RTSP Port	554

- 2. Enter the port number in the HTTPS Port text box.
- 3. Click Save.
- 4. Click Setup > Security > Network Security > HTTPS.

HTTPS	l On 🔿 Off		
SSL Certificate		Browse	Upigad

- 5. Select On for HTTPS. You may import a custom SSL certificate as needed.
- 6. Click Save.

Next time you log in, enter the address in *https://IP:HTTPS port number* format, for example, *https://192.168.1.13:443* to enter secure channel mode. If you use the default HTTPS port, enter *https://IP*.

Authentication

RTSP (Real Time Streaming Protocol) is an application layer protocol. To transmit and control the audio and video, set RTSP authentication on the Web interface.

1. Click Setup > Security > Network Security > Authentication.

RTSP Authentication	Digest	~
HTTP Authentication	Digest	~
Save		

2. Select an authentication mode and then click Save.

Hide Vendor Information

You can set to hide the vendor information of the network camera on the Web interface.

1. Click Setup > Security > Registration Info.



- 2. Under Registration Info, select On.
- 3. Click Save.

APR Protection

This function protects a camera from ARP attacks. The gateway and the MAC address must be set properly before a PC can access the camera from another network; if an incorrect MAC is set, only PCs on the same LAN can access.

1. Click Setup > Security > Network Security > ARP Protection.



ARP Protection	💩 On 👝 Off
Gateway	203.3.1.1
Gateway MAC Address	0
Save	

- 2. Select the check box to enable the ARP binding function and set the gateway MAC address.
- 3. Click Save.

NOTE!

IP Address Filtering

Use IP address filtering to allow or forbid access from specified IP address(es).

-///

This function is not supported by some models. Please see the actual model for details.

1. Click Setup > Security > Network Security > IP Address Filtering.

ilterin	g Mode	Whitelist	
Na.	IP Address		+
1	1.1.1.1		1
_			

- 2. Select On to enable IP address filtering.
- 3. Select a filtering mode, and then add IP address(es).
- 4. Click Save.

NOTE!

- If **Filtering Mode** is set to **Whitelist**, then only the added IP address(es) are allowed to access the camera. If **Filtering Mode** is set to **Deny Access**, then 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 1-223, 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!

Enabling friendly password does not affect use. If you turn it off and log in with a weak password, a page will pop up, prompting you to change the password. There is no Cancel or Close button on this page. The default password is treated as weak.

1. Click Setup > Security > Network Security > Access Policy.



Friendly Password	€On⊖Off
MAC Authentication	●On⊖Off
Save	

- 2. Select **On** to enable friendly password and MAC Authentication.
- 3. Click Save.

Watermark

NOTE!

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

Only some camera models support this function.

1. Click Setup > Security > Watermark.

Watermark	🇿 On _{Off}	
Watermark Content	ABC	
Save		

- 2. Select On to enable watermark, and then input watermark content.
- 3. Click Save.

Setting the System Time

You can use the following methods to adjust the system time of your device.

Manually Setting or Synchronizing the System Time

1. Click Setup > Common > Time, and then click the Time tab.

Sync Mode	Sync with Latest Server Time		
Time Zone	(UTC) London, Casablanca, Coordinated Universal Time		
System Time	2017-09-12 08:07:09 🕒 Sync with Con	nputer Time	

- 2. Select a synchronization mode.
- **3.** Set the correct time zone and system time. You may also click **Sync with Computer Time** to synchronize the time settings of your camera with that of your PC.
- 4. Click Save.

Synchronizing with the NTP Server

1. Click Setup > Common > Time, and then click the Time tab.

Sync Mode	Sync with NTP Server		
Time Zone	(UTC) London, Casablanca, Coordinated Universal Time		
System Time	2018-05-10 08:48:53 🕞 Sync with Computer Time		
NTP Server			
NTP Server Address	0.0.0.0		
Port	123		
Update Interval(s)	600		

2. Set Sync Mode to Sync with NTP Server, and then set the IP address and port of the NTP server and update interval.



3. Click Save. The camera will periodically synchronize time with the NTP server.

Setting the DST

1. Click Setup > Common > Time, and then click the DST tab.

DST				
DST	l On 💮 Off			
Start Time	Apr 💌 First	▼ Sun	▼ 02	💌 h
End Time	Oct 💌 Last	▼ Sun	▼ 02	💌 h
DST Bias	60mins			•

- 2. Select On for DST, set the start time, end time, and DST bias.
- 3. Click Save.

Setting Servers

Intelligent Server

You need to configure the intelligent server if an ultra sensitive camera is managed by a central server.



NOTE!

- Only some camera models support intelligent server.
- To use face snapshot, you need to configure the TMS server to which snapshots are uploaded.
- 1. Click Setup > Common > Server, and then click the Intelligent Server tab.

Server IP	0.0.0.0
Server Port	5196
Platform Communication Type	UV-V2 V
Device No.	IPC
Camera No.	IPC

- 2. Set the IP address of the TMS server and complete other settings.
- 3. Click Save.

Serial Port Mode Configuration

The RS485 serial port is used for data exchange with the third-party device. Serial port settings on the camera should be consistent with that of the connected third-party device.

This function is not supported by some models. Please see the actual model for details.

PTZ control

NOTE!

To control a PTZ camera through a third-party device, you need to set **Port Mode** to **PTZ Control**.

By sending PELCO-D compliant PTZ control commands through the RS485 port, you can control the PTZ camera without using the PTZ control panel.

1. Click Setup > System > Ports & Devices, and then click the Serial Port tab.

RS485_1		
Port Mode	PTZ Control	~
Baud Rate	9600	\sim
Data Bits	8	\sim
Stop Bits	1	\sim
Parity	None	\sim
Flow Control	None	\sim
PTZ Protocol	INTERNAL-PTZ	~
PTZ Mode	Built-in PTZ Priority	\sim
Address Code	1	
Enable Trans-Chanr	nel	

2. Select **PTZ Control** from the **Port Mode** drop-down list. The following table describes some major parameters.

Parameter	Description
	 Set the PTZ protocol that the channel supports. Note: You can set this parameter only when Port Mode is set to PTZ Control.
PTZ Protocol	• When PTZ Protocol is set to INTERNAL-PTZ , the camera can connect to the external PTZ without using the serial port (serial port parameters are grayed out). In this case, you only need to connect the zoom and focus interfaces of the camera to the lens, and then you can operate the PTZ like an internal PTZ.
	• Built-in PTZ Priority: When this option is selected, the camera first tries to control the PTZ (for example, to zoom or focus) by itself instead of through the external PTZ. For operations that the camera cannot accomplish by itself, the camera uses the external PTZ.
	• External PTZ Priority: The camera first tries to control the PTZ through the PTZ connected through the serial port.
PTZ Mode	Note:
11210000	• You can set this parameter only when Port Mode is set to PTZ Control .
	• When INTERNAL-PTZ is selected, this parameter is always set to Built-in PTZ Priority , and it is unnecessary to connect the camera to an external PTZ through the serial port. Control through the external PTZ is not effective even when the camera has been connected to an external PTZ.
	• Set this parameter as required. Make sure PTZ control related interfaces are correctly connected.
	Set the address code for the PTZ.
Address Code	Note:
	You can set this parameter only when Port Mode is set to PTZ Control and PTZ Protocol is not set to INTERNAL-PTZ.

3. Click Save.



Transparent channel

Use the RS485 serial port to achieve transparent data transmission with the third-party device. Transparent channel is mainly used to achieve transparent data transmission between two devices.

NOTE!

- This function is not supported by some models. Please see the actual model for details.
- Make sure that you have set **Port Mode** to **Trans-Channel** for your camera.
- 1. Click Setup > System > Ports & Devices, and then click the Serial Port tab.

RS485_1		
K3405_1		
Port Mode	Trans-Channel	~
Baud Rate	9600	~
Data Bits	8	~
Stop Bits	1	~
Parity	None	~
Flow Control	None	~
✓ Enable Trans-Ch	annel	
Destination IP	1.1.1.1	
Destination Port	1027	
Source IP	203.6.1.32	
Source Port	1025	

- 2. Select Trans-Channel from the Port Mode drop-down list.
- 3. Select Enable for Trans-Channel.
- **4.** Enter the destination IP address and port number (IP address and port number that the transparent channel connects to).
- 5. Click Save.

OSD

To display information from the third-party device on the OSD, you need to select OSD as the port mode.

The camera receives information from the third-party device through the RS485 serial port, translates the received information, and then displays it on the OSD.



NOTE!

To enable the camera to correctly translate information received from the third-party device, make sure that the information sent by the third-party device through the serial port complies with the data format specified by our company. For more details, contact your dealer.

1. Click Setup > System > Ports & Devices, and then click the Serial Port tab.



RS485_1		
Port Mode	OSD	~
	Enable OSD Report	
Baud Rate	9600	~
Data Bits	8	~
Stop Bits	1	~
Parity	None	~
Flow Control	None	~
Enable Trans-Channel		

- 2. Select OSD from the Port Mode drop-down list. Select Enable OSD Report (so OSD data will be uploaded to the platform).
- 3. Click Save.

ONVIF Transparent Channel

Transmit data through the transparent channel (ONVIF) between the camera's RS485 port and a third-party device.

1. Click Setup > System > Ports & Devices, and then click the Serial Port tab.

RS485_1		
Port Mode	Trans-Channel	via ON' 🗸
Baud Rate	9600	~
Data Bits	8	~
Stop Bits	1	~
Parity	None	~
Flow Control	None	~
Enable Trans-Channel		

- 2. Set Port Mode to Select Trans-Channel via ONVIF.
- 3. Click Save.

Wiper Control

Set wiper parameters before you can control the wiper.



NOTE!

This function is not supported by some models. Please see the actual model for details.

1. Click Setup > System > Ports & Devices, and then click the External Device tab.

Wiper	
Control Mode	Alarm Input/(V
Enable Wiper	Normally Op V

2. Set control mode for the wiper. The following table describes some major parameters.

Parameter	Description
Serial Port	The wiper is controlled by PELCO-D instructions; therefore, the PTZ protocol should be set to PELCO-D. See PTZ control for details.
Alarm Input/Output	Use alarm input and output to open or close the circuit and control the wiper.

Viewing Device Status

You can view the current status of your camera.

1. Click Setup > Common > Basic Info.

Basic Info			
Model	IPC		
Firmware Version	IPC		
Hardware Version	А		
Boot Version	V1.0		
Serial No.	2102335CC3531740100232		
Network	192.168.1.13/255.255.255.0/192.168.1.1		
MAC Address	48:ea:63:4d:56:88		
Status			
System Time	2018/1/25 19:16:27		
Operation Time	0 Day(s) 0 Hour(s) 0 Minute(s)		
Intelligent Server	Offline		

- 2. Click **Refresh** for the latest status information.
- **3.** View the device information.



You may view device model, firmware version, intelligent server status, etc, on the basic info page.

Photo Storage Status

NOTE!

View the current photo storage status. See Memory Card Storage for the full storage policy.



NOTE!

Only models with storage function support this function. Please see the actual model for details.

1. Click Photo.





- 2. Click **Refresh** to update the storage status.
- 3. You can export or delete photos in the Image List area.

Upgrading the Device

If the device is managed by the central management server and you want to upgrade the devices in batch mode, it is recommended to perform the upgrade operation on the central server. For detailed steps, see the user manual for the central management server.

1. Click Setup > System > Maintenance.

Software Upgrade					
Local Upgrade		Bro	owse	Upgrade	Upgrade Boot Program
Cloud Upgrade	Detect				

- 2. Under Software Upgrade, click Browse and select the correct upgrade file.
- **3.** Click **Upgrade** and then confirm to start. The camera will restart automatically after the upgrade is completed. Some devices support boot program upgrade. To upgrade, select **Upgrade Boot Program**.
- 4. You may click **Detect** to check for new versions available to cloud upgrade.





NOTE!

- You must use the correct upgrade file for you camera. Otherwise, unexpected results may occur.
- The upgrade file is a ZIP file and must include all the necessary files.
- The boot program loads the operating system and then the system starts running. The upgrade boot program function is disabled by default, and only the camera will be upgraded to the latest version. If enabled, both the camera and the boot program are upgraded, and the operating system of the following new versions can be booted properly and the camera can be upgraded conveniently.
- Ensure that the power supply is normal during upgrade. The device will restart after the upgrade is completed.

Restarting the System

1. Click Setup > System > Maintenance.

Device Restart	
Restart	Restart device

2. Under Device Restart, click Restart. The device will restart after you confirm the operation.

	•	2
(

i

CAUTION!

Perform this operation with caution because restarting the system interrupts the ongoing service.

Importing and Exporting System Configuration File

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.

CAUTION!

- 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.

1. Click Setup > System > Maintenance.

Config Management Default	Restore all settings to defaults without keeping current network and user settings.	
Importing	Browse	Import
Exporting	Browse	Export

- 2. To import configurations that you have backed up, click **Browse** next to the **Import** button and select the configurations you want to import, and then click **Import**. The result will be displayed.
- **3.** To export current system configurations, click **Browse** (next to the **Exporting** field), set the destination and then click **Export**.



4. To restore default configurations, click **Default** and then confirm the operation. The device will restart and restore the default configurations. Clicking **Default** with the check box selected will completely restore the device to factory default settings.

Collecting Diagnosis Information

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

1. Click Setup > System > Maintenance.

Export Diagnosis Info	Browse Expor
✓ Collect Image Debugging Info	

2. In the Diagnosis Info area, click Browse to set the destination and then click Export.

NOTE!

- Diagnosis information is exported to the local folder in 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.

Focus Configuration

NOTE!

The device can adjust the speed of auto-focus according to the minimum focus distance. In order to shoot clear objects, it is recommended that the minimum focus distance is set shorter than the distance between the objects and lens, for example, if the minimum focus distance is 3m, then the objects within 3m from lens will be out of focus.

This function is only supported by the devices with auto-focus. Please see the actual model for details.

1. Click Setup > System > Maintenance.

Focus			
Min. Focus Distance(cm)	10	•	ок
Max. Zoom Ratio	30		ОК

- 2. Under Focus, configure Min. Focus Distance (unit: cm) and Max. Zoom Ratio.
- 3. Click OK.

Device Mounting Height

Enter the actual height from the installed infrared dome to the ground, so that the dome will be able to automatically adjust its infrared lamp.



NOTE!

This function is only supported by some infrared cameras. Please see the actual model for details.

1. Click Setup > System > Maintenance.

Nounting Info		
Nounting Height (cm)	600	ОК



- 2. Enter the actual height from the installed Infrared Dome to the ground.
- 3. Click OK.

Fisheye Camera Parameter

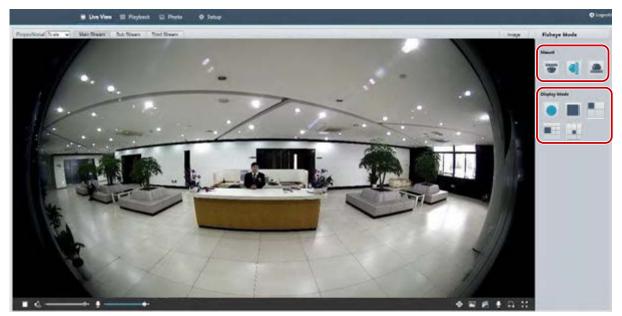
To display video properly, you need to set fisheye parameters properly according to the actual mounting mode.



NOTE!

This function is only supported by fisheye cameras. Please see the actual model for details.

1. Click Live View > Mount. Select the mounting mode. The selected mounting mode must be consistent with the actual mounting mode.



For some camera models, the page is displayed as follows.





2. Set the parameters. The following table describes some major parameters.

2. Set the parameters	s. The following table describes some major parameters.
Parameter	Description
	Eleven display modes: • Original Image • Panoramic • Panoramic+3PTZ • Panoramic+4PTZ • Panoramic+8PTZ • 360°Panoramic+1PTZ • 180°Panoramic • Fisheye+3PTZ • Fisheye+4PTZ • 360°Panoramic+6PTZ • Fisheye+8PTZ
	Three mounting modes: Ceiling Wall Deckton
	 Desktop Note: The selected mounting mode must be consistent with the actual mounting mode.

4 Live View

Live view means playing live video (real-time audio and video) received from a camera in a window through the Web interface.

If you log in with the **Live View** check box selected, live video appears by default when you are logged in. You may double-click the window to enter or exit full screen mode.





Live View Toolbar

NOTE!

The supported live view operations may vary with camera model. For the operations that your camera supports, see the Web interface.

Button	Description
	Play/stop live video.
(i)	Adjust the output volume for the media player on the PC.
ĝ - €+	Adjust the microphone volume on the PC during audio communication between the PC and the camera.
	Take a snapshot of the current image displayed on the PC.
	Note:
	The path for saving snapshots are set in System Configuration .
	Start/stop local recording.
	Note:
	The path for saving local recordings is set in System Configuration.
9	Start/stop audio communication between the PC and the camera.
	Start/stop digital zoom. For more details, see Using Digital Zoom.
[•]	Start/stop area focus. For more details, see Using Area Focus.
(\mathcal{X})	Start/stop 3D positioning. For more details, see Using 3D Positioning.
Ô	Show/hide the PTZ control panel.
Proportional Scale 💌	Set image display ratio in the window. For example, to display high-definition images at original 16:9, select Scale ; to display according to window size, select Stretch ; to display with the original image size, select Original .



Button	Description
0	Reset the packet loss rate to zero. Note: After you move the mouse cursor on a live view window, this button appears on the floating toolbar.
	 Display packet loss rate and bit rate information at the bottom of the window. Note: After you move the mouse cursor on a live view window, this button appears on the floating toolbar. Click this button to always display the information. With another click, the information appears only when you move the mouse cursor over the window or place it at the bottom. If the mouse cursor rests on the window for around 3 seconds or leaves the window, the information disappears.
Image	Click this button to open the image setting page.
**	Display in full screen mode.
Main Sub Third	Select a live video stream that the camera supports: main stream, sub stream or third stream.

Viewing Certain Area of Images

Digital zoom, area focus and 3D positioning allow you to get more details of certain part of images. Digital zoom enlarges an image with loss in image quality, while 3D positioning enlarges an image without.

Using Digital Zoom



NOTE!

The supported live view operations may vary with camera model. For the operations that your camera supports, see the Web interface.

1. On the Live View page, click on the toolbar.





- 2. Click and hold the mouse button, and then drag from top down (draw a rectangle) to specify an area. To restore the original image size and zoom in on other areas of the image, right-click the mouse.
- **3.** To exit, click $\widehat{\Box}$.

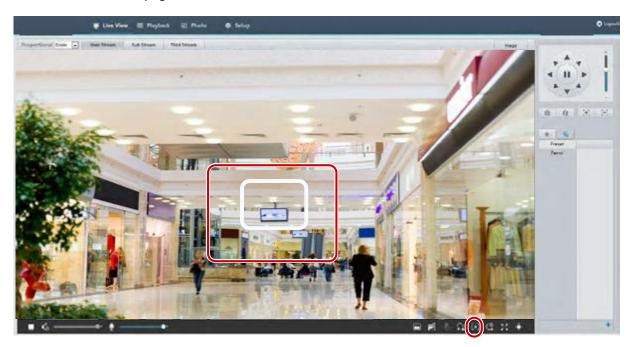
Using Area Focus



NOTE!

The supported live view operations may vary with camera model. For the operations that your camera supports, see the Web interface.

1. On the Live View page, click on the toolbar.



2. Click and hold the mouse button, and then drag from top down (draw a rectangle) to specify an area.



3. To exit, click

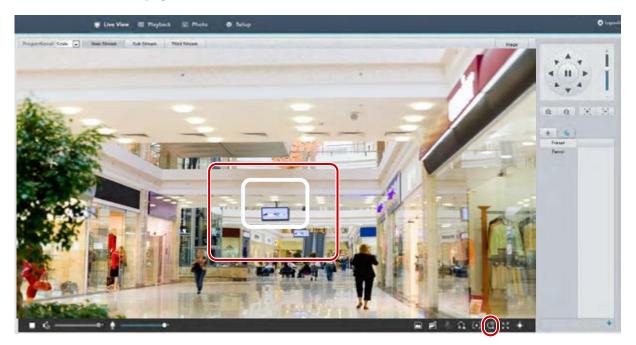
Using 3D Positioning



NOTE!

This function is available only for network PTZ cameras and network box cameras equipped with motorized zoom lens and PTZ. Please see actual models for details.

1. On the Live View page, click on the toolbar.



- 2. Click and hold the mouse button, and then drag from top down (draw a rectangle) to specify an area. Dragging reversely (from down top) will zoom out.
- **3.** To exit, click

Live View of Fisheye Cameras

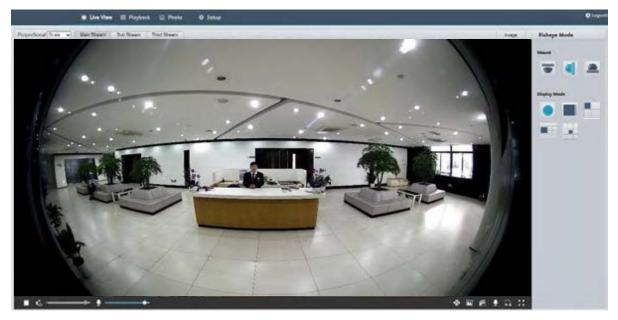
NOTE!

- This function is only supported by the network fisheye cameras. Please see actual models for details.
- The preview image on the Web may vary with the fisheye settings for the camera. Please set the fisheye parameters (see Fisheye Cameras Parameter) and the fisheye mode of the camera before you start live view.

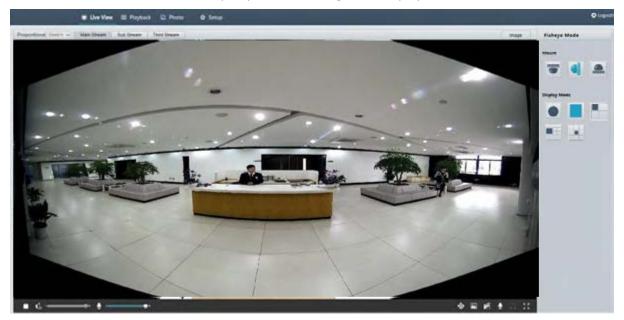
Display modes include three major types: Original Image, Fisheye and PTZ, Panoramic and PTZ. In different mounting modes, images are displayed differently. The following takes wall mount as an example.

When Original Image is selected, fisheye images are displayed as follows.





When Panoramic is selected, dewarped panoramic images are displayed as follows.



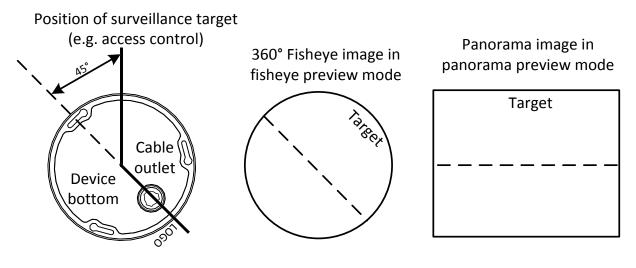


NOTE!

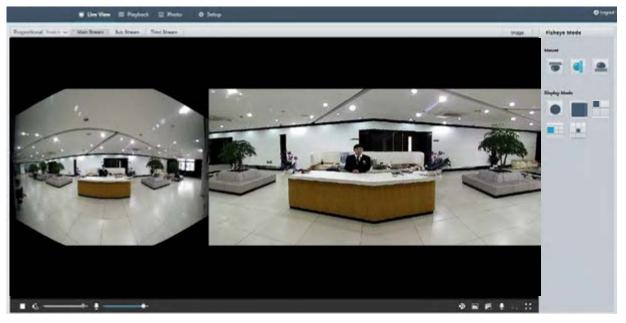
i

If the ceiling mount or desktop mount is adopted, the panorama image (two 180° images) is a dewarped image of the fisheye preview image (360° image). Please mount the camera with an appropriate angle of view according to the actual surveillance requirements.

For example, if the camera is installed on the ceiling, the surveillance target is displayed on the upper part of the panorama image when the intersection angle between the device cable outlet (logo) and the surveillance target in clockwise direction is 135°.



When Panoramic+4PTZ preview mode is selected from the list on the right, 4 local images are displayed, from left to right, from top to down, by default. You may perform PTZ control and zoom operations on each local image, as shown in the figure below.





5 Video Playback and Download with Edge Storage



NOTE!

- Edge storage refers to recording video to the memory card of a frontend device (mostly a camera). Local recording refers to recording video to a local PC client.
- Before you play back video with edge storage, check that the camera has been installed with a memory card and storage has been configured.
- This function is not supported by some models. Please see actual models for details.

Video Playback

1. Click **Playback** on the home page.



- 2. Select the date from the calendar.
- 3. Click Query.
- 4. Under Results, double-click the time period to start playing the recording.

Download

1. Click **Playback** on the home page.

ecord	ling Downl	oad		
Recor	rding Time	2017-09-13	~ 2017-09-14	
	No.	Start Time	End Time	
0	1	2017-09-13 19:12:23	2017-09-13 19:29:56	~
0	2	2017-09-13 19:29:58	2017-09-13 19:47:30	



- 2. Search for video within a specified period. The results will be shown in a list.
- **3.** Select your video and click **Download**. The video will be downloaded to your local path from the memory card (local path can be changed in **Local Settings**).
- 4. Click **Open** to show the folder where the downloaded video is saved.

6 PTZ Control

This function is available only for the PTZ dome cameras or a box camera installed on a Pan/Tilt motor.

NOTE!

- Some of the lens control functions are applicable to cameras equipped with motorized lens.
- The PTZ control buttons may vary with camera model. For the PTZ control buttons that your camera supports, see the Web interface.

PTZ Control Toolbar

Item	Description
Preset	Select a preset and then click 🏓. The PTZ camera goes to the selected preset.
	To add a preset, click 📥. To delete a preset, click 🗰 .
	Select a patrol route and then click 🕨 to start patrol.
Patrol	• To edit a patrol route, click 🧟.
	• To add a patrol route, click 📩
	• To delete a patrol route, click 💼 .
	Adjust the moving speed of the PTZ camera.
	Control the direction of the PTZ camera and release the control.
•),•	Turn on or off IR.
*, *	Turn on or off the wiper.
	Turn on or off the heater. Turn on or off the illuminator.
V / 12	Turn on or off the illuminator.
*	

Item	Description
E E	Adjust camera focus.
Q	Adjust camera zoom.
0 8	Increase or decrease iris diameter.
╡╞┍┓⊾╕ ┱╺	 Shortcut keys for PTZ control. After the mouse cursor changes to one of these shapes in live view, click and hold the left mouse button to operate the PTZ camera. Note: Only PTZ dome cameras and PTZ cameras support this function. These buttons are unusable when you are using 3D positioning or digital zoom.
ଭ୍ର୍	Shortcut keys for zooming in or out in live view. Scroll the wheel forward to zoom in or backward to zoom out. Note: Only cameras with motorized zoom lens support this function.

Setting Patrol by Presets

Setting Presets

On the **Preset** tab, you can manage presets or perform certain control operations to the PTZ camera. For more details, see <u>PTZ Control Toolbar</u>.

Add a preset

1. On the Live View page, click Preset on the control panel.

Preset Patrol		
	Add Preset Preset No. Preset Name	×
	ОК	Cancel
	2 🕂 🥕	

- 2. Adjust the camera till it points toward the desired direction.
- **3.** Adjust zoom and focus as needed to obtain the optimal image.
- 4. Click + to add it as a preset. Enter a number and name for the preset and then click **OK**.

Go to a preset

1. On the Live View page, click **Preset** on the control panel.



2. Click 🜈 for a preset. The PTZ camera goes to the selected preset.

Delete a preset

1. On the Live View page, click Preset on the control panel.



2. Click \overline{m} for a preset and then confirm the delete.

Setting Patrol

A patrol route is the track by which a PTZ camera follows when moving from a preset to the next. The length of time that a PTZ camera stays at each preset is configurable. Multiple patrol routes are allowed for a PTZ camera.

Patrol actions include going to a preset and staying at the preset for a certain amount of time before going to the next. You can set the rotation direction, zoom, rotation speed, patrol time, and stay time. The system



records the route and adds it to the action list. You may select **Keep Rotating** so the PTZ camera follows the same route and patrols repeatedly.

Add a patrol route

1. On the Live View page, click Patrol on the control panel.

Route Name DOOR Add Delete Added 2/64 Add Type Speed Keep Rotating Duracidenmi)/Radio Preset	10000	~
Action Type Speed Keep Rotating Duration(ma)/Natio Preset	10000	^
□ [Move Let _ ♥]6 _ ♥ □ [50000		^
		* * *
		0.530
		×
	v	~
		2.1

- **2.** Click **+**.
- On the Add Patrol page, enter the route ID and name, and then click Add to add a patrol action. Up to 64 actions are allowed. Each line includes two actions when action type is set to Move Direction and Zoom, so 32 actions are allowed. Use the buttons to adjust the sequence of the actions.

Patrol actions include:

- Go to a preset and stay for a certain amount of time before going to the next preset.
- Rotate at the set speed in the set direction for a certain amount of time, zoom, stay at a set position for a certain amount of time, or patrol repeatedly if **Keep Rotating** is selected.

It is recommended that the first action type is Go to Preset.

4. Click OK.

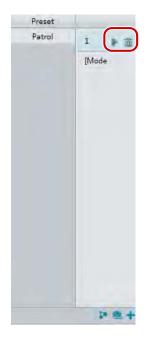
Record a patrol route

1. On the Live View page, click Patrol on the control panel.





- Click a to start recording the patrol route. You can adjust the direction and zoom of the camera during the recording. The system records the motion and track of the camera and adds them to the action list.
- Click to finish recording. Then the patrol route is saved as a mode route automatically. You can click
 to start patrol or m to delete the mode route.



Make a patrol plan

1. On the Live View page, click Patrol on the control panel.



1 [DOOR]	100	l Plan Enable Patrol	Plan							
		Max	Tue	Wed	Thu	F	e sat		Sin	
				1		1	Please select	-		
				[1]-1		E	Please select			
				101-		1	Please select			
				et-		1	Please select			
				- D		5	Please select			
				(int +		Þ	Please select			
		-		121-		1	Please select			
				-			Please select		Copy	Paste
	10.4				OK		Cancel			

- 2. Click P. The page for setting patrol plans is displayed.
- **3.** Set the correct patrol time and route.
- 4. Select Enable Patrol Plan.
- 5. Click OK.

Start a patrol route

After you have added a patrol route, select the patrol route to start patrol.

1. On the Live View page, click Patrol on the control panel.



2. Click For the patrol route you want to start.

Edit a patrol route

1. On the Live View page, click Patrol on the control panel.

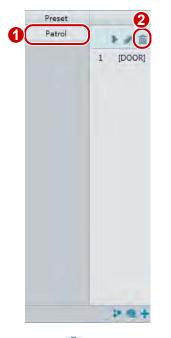


	Revie ID 1
1 [DOOR]	Revte Name DOOR
	Add Deinte
	Action Type Speed Keep Rotating Durationimat/Ratio Preset Stay Treveline)
	MoveLet a 6 a 10000 10000
	*
	OK Cancel

2. Click for the patrol route you want to edit and modify the settings as required.

Delete a patrol route

1. On the Live View page, click Patrol on the control panel.



2. Click \overline{m} for the patrol route you want to delete and then confirm the delete.

Setting Home Position

PTZ camera will return to home position if no operation is made within a specified period.



NOTE!

- This function is available for network PTZ cameras only.
- You need to add presets or a patrol route first. See Add a preset and Add a patrol route for details.
- 1. Click Setup > PTZ > Home Position.



Home Position	la On 👝 Off
Mode	Preset 💌
ID	1[DOOR]
Idle State(s)	60

- 2. Select a mode and ID.
- 3. Click Save.

NOTE!

Remote Control PTZ

When the third-party platform is used and the PTZ protocol does not match that, you can set the remote control function to control the PTZ.

This function is only supported by PTZ cameras.

1. Click Setup > PTZ > Remote Control.

Remote Control	On Off
Listener Port	10008
Address Code	1

2. Select **On** to enable **Remote Control**. Set the listener port and address code. The following table describes some major parameters.

Acronym	Description
Listener Port	Camera's local port, which cannot be a port that is already in use. Change the default setting only when necessary.
Address Code	The camera can read the address code contained in instructions. The camera interprets the instruction only when the address code in the instruction is the address code configured here.

3. Click Save.

PTZ Limit

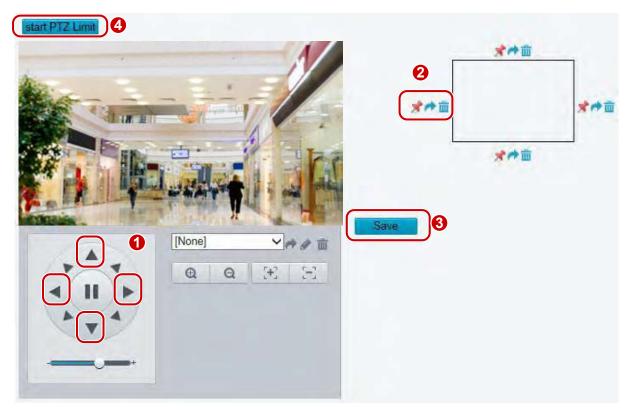
NOTE!

Set rotation limits to prevent the PTZ camera from hitting obstacles such as a wall.

This function is only supported by some PTZ cameras.

1. Click Setup > PTZ > PTZ Limit.





- 2. Use directional buttons to rotate the camera to an intended position.
- 3. Click 📌 to set the current position as a limit. For example, click 📌 on the top to set the upper limit.

Clicking 🕏 will rotate the camera to the current position if the direction has been changed.

- 4. Repeat the above steps to set all limits as needed (up, down, left, right).
- 5. Click Save.
- 6. Click Start PTZ Limit to apply the setting.
- **7.** Click into delete settings and reset the limit.

Resume Patrol

1. Click Setup > PTZ > Patrol.

Preset Snapshot

On Off

Resume Patrol(s)

60

- 2. Set the time when patrol resumes.
- 3. Click Save.



Appendix A Glossary

Acronym	Description
ARP	Address Resolution Protocol
CBR	Constant Bit Rate
DNS	Domain Name Service
DDNS	Dynamic Domain Name Service
DHCP	Dynamic Host Configuration Protocol
DST	Daylight Saving Time
FTP	File Transfer Protocol
GOP	Group Of Pictures
GUI	Graphical User Interface
HTTPS	Hyper Text Transfer Protocol over SSL
IE	Internet Explorer
IMOS	IP Multimedia Operation System
IP	Internet Protocol
IPC	IP Camera
MTU	Maximum Transmission Unit
NTP	Network Time Protocol
OSD	On Screen Display
РоЕ	Power over Ethernet
PPPoE	Point-to-Point Protocol over Ethernet
PTZ	Pan, Tilt, Zoom
ROI	Region of Interest
SMTP	Simple Mail Transfer Protocol
SSL	Secure Socket Layer
UNP	Universal Network Passport
USB	Universal Serial Bus
VBR	Variable Bit Rate
WDR	Wide Dynamic Range



What to do if no message prompts me to install ActiveX when I log in on a Windows 7 PC the first time

Answer: Follow these steps to turn off UAC and then log in again:

- 1. Click the Start button, and then click Control Panel.
- 2. In the search box, type uac, and then click Change User Account Control Settings.
- 3. Move the slider to the Never Notify position, and then click OK.
- 4. After UAC is turned off, log in again.

What to do if the installation of ActiveX failed

Answer: If the installation failed, add the IP address of the camera as a trusted site: open **Internet Option** in IE, click the **Security** tab, click **Trusted sites**, and then click **Sites** to add the website.

If you use Windows 7, you need to save the **setup.exe** to your PC first, right-click the file, select **Run as administrator**, and then install it according to instructions.

What to do if live video fails when I log in for the first time

Answer: Close the firewall on your PC and then log in to the Web interface again.

