




Network Camera

User Manual

Please read this instruction carefully before operating the unit and keep it for further reference

The following symbols or words may be found in this manual.

Symbols/Words	Description
 Warning	Indicates a medium or low potential hazardous situation which, if not avoided, will or could result in slight or moderate injury
 Caution	Indicates a potential risk which, if not avoided, will or could result in device damage, data loss, lower performance or unexpected results
 Note	Provides additional information to emphasize or supplement important points of the text.

About the Manual

- This manual is suitable for many models. All examples, screenshots, figures, charts, and illustrations used in the manual are for reference purpose, and actual products may be different with this Manual.
- Please read this user manual carefully to ensure that you can use the device correctly and safely.
- Within the maximum scope permitted by the law, the products described in this Manual (including hardware, software, firmware, etc.) are provided “AS IS”. The information in this document (including URL and other Internet site reference data) is subject to change without notice. This Manual may contain technical incorrect places or printing errors. This information will be periodically updated, and these changes will be added into the latest version of this Manual without prior notice.

Use of the Product

- This product should not be used for illegal purposes.
- The company does not allow anyone to use the Company's products to infringe the privacy, personal information, and portrait rights of others. The user shall not use this product for any illegal use or any prohibited use under these terms, conditions, and declarations. When using this product, the user shall not damage, disable, overload or obstruct any of the hardware of this product in any way, or interfere with the use of this product by any other users. Also, the user should not attempt to use the product or the software, by hacking, stealing the password, or any other means.

Electrical Safety

- This product is intended to be supplied by a Listed Power Unit, marked with 'Limited Power Source', 'LPS' on unit, output rated minimum 12V/1A, no more than 2000m altitude of operation and Tma=60 Deg.C.
- Risk of explosion if the battery is replaced by an incorrect type. Properly dispose of your used batteries in accordance with applicable laws and regulations. Improper replacement of the battery with an incorrect type may defeat a safeguard. Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion. Do not leave the battery in an extremely high temperature surrounding environment, which may cause an explosion or the leakage of flammable liquid or gas. Do not subject the battery to extremely low air pressure, which may cause an explosion or the leakage of flammable liquid or gas.
- It is recommended to charge the Li-ion Battery after 3 months storage.
- Improper handling and/or installation could run the risk of fire or electrical shock.
- The product must be grounded to reduce the risk of electric shock.
- ⚠ Warning: Wear anti-static gloves or discharge static electricity before removing the bubble or cover of the camera.
- ⚠ Caution: Do not provide two power supply sources at the same time for the device unless otherwise specified; it may result in device damage!

Environment

- Heavy stress, violent vibration or exposure to water is not allowed during transportation, storage and installation.
- Avoid aiming the camera directly towards extremely bright objects, such as, sun, as this may damage the image sensor.
- Keep away from heat sources such as radiators, heat registers, stove, etc.
- Do not expose the product to the direct airflow from an air conditioner.
- Do not place the device in a damp, dusty extremely hot or cold environment, or the locations with strong electromagnetic radiation or unstable lighting.
- Make sure that no reflective surface is too close to the camera lens. The IR light from the camera may reflect back into the lens, resulting in image blur.

Operation and Daily Maintenance

- There are no user-serviceable parts inside. Please contact the nearest service center if the product does not work properly.
- Please shut down the device and then unplug the power cable before you begin any maintenance work.
- ⚠ Warning: All the examination and repair work should be done by qualified personnel.
- Do not touch the CMOS sensor optical component. You can use a blower to clean the dust on the lens surface.
- Always use the dry soft cloth to clean the device. If there is too much dust, use a cloth cleaning (such as using cloth) may result in poor IR functionality and/or IR reflection.
- Dome cover is an optical device, please don't touch or wipe the cover surface directly during installation and use. For dust, use oil-free soft brush or hair dryer to remove it

gently; for grease or finger print, use oil-free cotton cloth or paper soaked with detergent to wipe from the lens center outward. Change the cloth and wipe several times if it is not clean enough.

Privacy Protection

- When installing cameras in public areas, a warning notice shall be given in a reasonable and effective manner and clarify the monitoring range.
- As the device user or data controller, you might collect the personal data of others, such as face, car plate number, etc. As a result, you shall implement reasonable and necessary measures to protect the legitimate rights and interests of other people, avoiding data leakage, improper use, including but not limited to, setting up access control, providing clear and visible notice to inform people of the existence of the surveillance area, providing required contact information and so on.

Disclaimer

- With regard to the product with internet access, the use of product shall be wholly at your own risks. Our company shall be irresponsible for abnormal operation, privacy leakage or other damages resulting from cyber attack, hacker attack, virus inspection, or other internet security risks; however, Our company will provide timely technical support if necessary.
- Surveillance laws vary from country to country. Check all laws in your local region before using this product for surveillance purposes. We shall not take the responsibility for any consequences resulting from illegal operations.

Cybersecurity Recommendations

- Use a strong password. At least 8 characters or a combination of characters, numbers, and upper and lower case letters should be used in your password.
- Regularly change the passwords of your devices to ensure that only authorized users can access the system (recommended time is 90 days).
- It is recommended to change the service default ports (like HTTP-80, HTTPS-443, etc.) to reduce the risk of outsiders being able to access.
- It is recommended to set the firewall of your router. But note that some important ports cannot be closed (like HTTP port, HTTPS port, Data Port).
- It is not recommended to expose the device to the public network. When it is necessary to be exposed to the public network, please set the external hardware firewall and the corresponding firewall policy.
- It is not recommended to use the v1 and v2 functions of SNMP.
- In order to enhance the security of WEB client access, please create a TLS certificate to enable HTTPS.
- Use black and white list to filter the IP address. This will prevent everyone, except those

specified IP addresses from accessing the system.

- If you add multiple users, please limit functions of guest accounts.
- If you enable UPnP, it will automatically try to forward ports in your router or modem. It is really very convenient for users, but this will increase the risk of data leakage when the system automatically forwards ports. Disabling UPnP is recommended when the function is not used in real applications.
- Check the log. If you want to know whether your device has been accessed by unauthorized users or not, you can check the log. The system log will show you which IP addresses were used to log in your system and what was accessed.

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1. FCC compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2. FCC conditions:

- This device complies with part 15 of the FCC Rules. Operation of this product is subject the following two conditions:
- This device may not cause harmful interface.
- This device must accept any interference received, including interference that may cause undesired operation.

RoHS

The products have been designed and manufactured in accordance with Directive EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



2012/19/EU (WEEE directive): The Directive on waste electrical and electronic equipment (WEEE Directive). To improve the environmental management of WEEE, the improvement of collection, treatment and recycling of electronics at the end of their life is essential. Therefore, the product marked with this symbol must be disposed of in a responsible manner.

Directive 94/62/EC: The Directive aims at the management of packaging and packaging waste and environmental protection. The packaging and packaging waste of the product in this manual refers to must be disposed of at designated collection points for proper recycling and environmental protection.

REACH(EC1907/2006): REACH concerns the Registration, Evaluation, Authorization and Restriction of Chemicals, which aims to ensure a high level of protection of human health and the environment through better and earlier identification of the intrinsic properties of chemical substances. The product in this manual refers to conforms to the rules and regulations of REACH. For more information of REACH, please refer to DG GROWTH or ECHA websites.

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1.1 Login via Web

If it is the first time for you to use the camera, please activate the camera and set the corresponding parameters via web client.

System Requirement

For proper operating the product, the following requirements should be met for your computer.

Operating System: Windows 7 Home basic or higher

CPU: 2.0GHz or higher

RAM: 1G or higher

Display: 1920*1080 resolution or higher (recommended)

Web browser: IE (plug-in required)/ Firefox/Edge/Safari/Google Chrome

It is recommended to use the latest version of these web browsers.

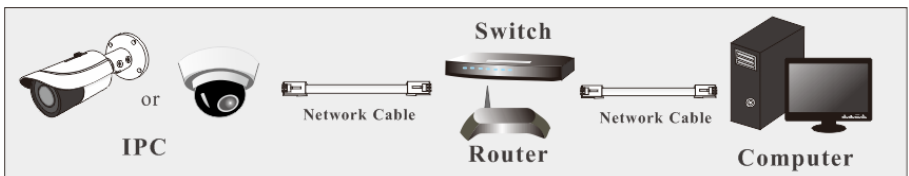
The menu display and operation of the camera may be slightly different by using the browser with plug-in or without plug-in. Installing plug-in will display more functions of the camera. Connect IP-Cam via LAN or WAN. Here only take IE browser for example. The details are as follows:

1.1.1 Access the Camera via LAN

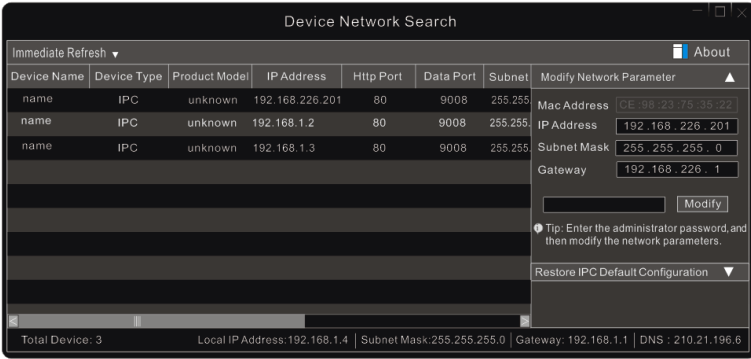
In LAN, there are two ways to access IP-Cam: 1. access through IP-Tool; 2. directly access through IE browser.

- **Access through IP-Tool**

Network connection:

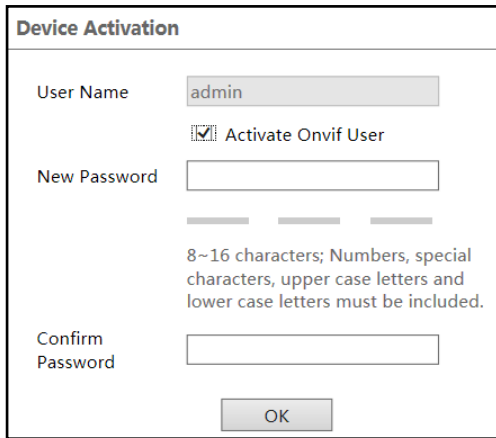


- ① Make sure the PC and IP-Cam are connected to the LAN and the IP-Tool is installed in the PC.
- ② Double click the IP-Tool icon on the desktop to run this software as shown below:



The default IP address of the camera is **192.168.226.201**.

③ Double click the IP address and then the system will pop up the IE browser to connect IP-CAM. After you read the privacy statement, check and click “Already Read”. Then activate the device.



Please self-define the password of admin according to the tip.

If “Activate Onvif User” is enabled, the ONVIF user can be activated simultaneously. When you connect the camera through the ONVIF protocol in the third-party platform, you can use the default username and the password set above to connect.

After that, follow directions to download, install and run the Active X control if prompted.

Re-connect your camera via IE browser and then a login box will appear.

The login form contains the following elements:

- Name:
- Password:
- Stream Type: (dropdown arrow)
- Language: (dropdown arrow)
- [Forget Password?](#)
-

Please enter the user name (admin) and password. Then select the stream type and language as needed.

Stream Type: The plug-in free live view only supports 1080P or lower resolution.

The security questions should be set after you click “Login” button. It is very important for you to reset your password. Please remember these answers.

The Safety Question dialog box contains the following elements:

- Security Question1: (dropdown arrow)
- Answer:
- Security Question2: (dropdown arrow)
- Answer:
- Security Question3: (dropdown arrow)
- Answer:
-

If you forget the admin password, you can reset the password by clicking **Forget Password** on the login page. Then you can reset the password by the security questions and answers you set.

You can set the account security question during the activation, or you can go to Config→Security→User, click **Safety Question**, select the security questions and input your answers.

● **Directly Access through IE**

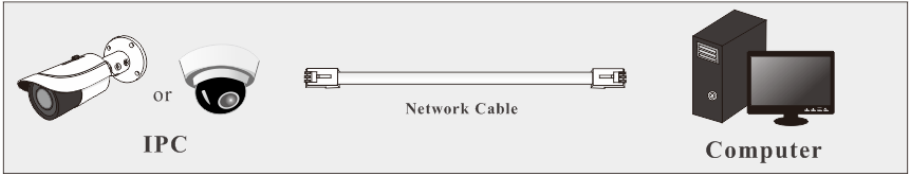
The default network settings are as shown below:

- IP address: **192.168.226.201**
- Subnet Mask: **255.255.255.0**
- Gateway: **192.168.226.1**

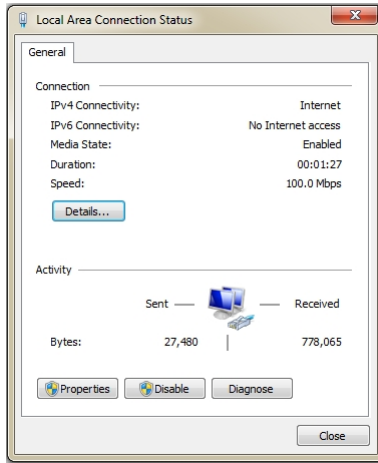
HTTP: **80**

Data port: **9008**

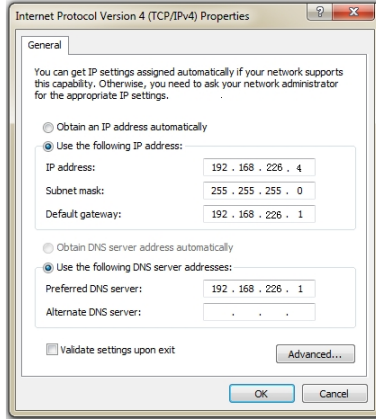
Use the above default settings when logging in the camera for the first time. Directly connect the camera to the computer through network cable.



① Manually set the IP address of the PC and the network segment should be as the same as the default settings of the IP camera. Open the network and share center. Click “Local Area Connection” to pop up the following window.



Select “Properties” and then select internet protocol according to the actual situation (for example: IPv4). Next, click the “Properties” button to set the network of the PC.



- ② Open the IE browser and enter the default address of IP-CAM and confirm.
- ③ Follow directions to download and install the Active X control.
- ④ Enter the default username and password in the login window and then enter to view.

1.1.2 Access the camera via WAN

After you activate and configure your camera, you can disconnect the network cable and access the camera through the wireless network. The setting steps are as follows:

- ① Insert a SIM card and make sure the SIM card works normally.
- ② Enter www.autonat.com* in the address bar of your web browser to log in. In the login interface, please enter the QR code number (device ID), username and password.

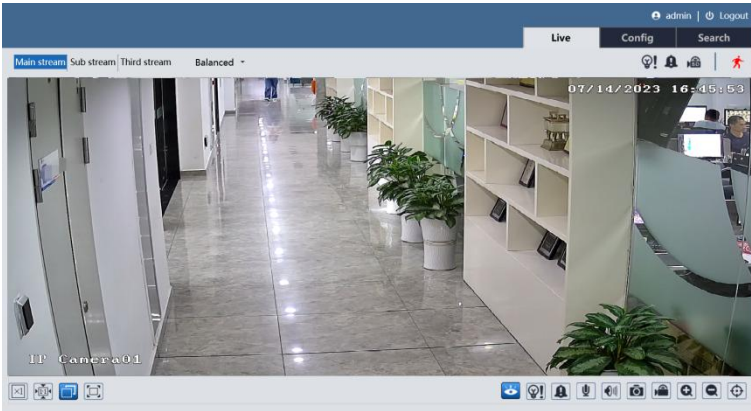
Note: * Different regions may have different login addresses. Please contact your dealer for details. In addition, not all functions of the camera are shown if you log in through P2P function. Here we only take “Log in via LAN” for example to introduce.

1.2 Login via APP

After you install “Superlive Plus”, run it and then scan the QR code (go to Config→System→Basic Information). Enter the login username and password to view.


2 Live View via Web

After logging in, the following window will be shown.



The following table is the instructions of the icons on the live view interface.

Icon	Description	Icon	Description
	Original size		Rule information display
	Fit correct scale		PIR (Passive Infrared) alarm indicator
	Auto (fill the window)		Object detection indicator (object abandoned/missing)
	Full screen		Motion alarm indicator
	Start/stop live view		Color abnormal indicator
	Enable/disable light alarm		Abnormal clarity indicator
	Enable or disable audio alarm		Scene change indicator
	Start/stop two-way audio (only available for the model with audio input connector)		Line crossing indicator
	Enable/disable audio		Region Intrusion indicator
	Snapshot		SD card recording indicator
	Start/stop local recording		Light alarm indicator
	Zoom in		Audio alarm indicator

Icon	Description	Icon	Description
	Zoom out		

*Those smart alarm indicators will flash only when the camera supports those functions and the corresponding events are enabled.

*Plug-in free live view: Two-way audio and local recording are not supported and the preview mode switch (real-time/balanced/fluent mode) is not available too.

*In full screen mode, double click on the mouse to exit or press the ESC key on the keyboard.

**After clicking the audio alarm icon, the warning voice will sound according to the set warning times (you can set the warning times by clicking Config→Alarm→Audio Alarm). Click this icon again. After the current warning voice completely sounds, it will stop.

*After clicking the light alarm icon, the light will flash alternatively according to the set flashing time (you can set the flashing time by clicking Config→Alarm→Light Alarm). Click this icon again to stop flashing.

*When 12VDC power supply is used to power the device, “Battery 100%” will always show at the bottom left of the live view interface.

* When LFP battery is used to power the device, the percentage of the battery capacity will show at the bottom left of the live view interface in real time.

3 Camera Configuration


In the Webcam client, choose “Config” to go to the configuration interface.

Note: Wherever applicable, click the “Save” button to save the settings.

3.1 System Configuration

3.1.1 Basic Information

In the “Basic Information” interface, the system information of the device is listed.

Device Name	IPC
Product Model	P1
Brand	Customer
Software Version	5.1.2.0(48390)
Software Build Date	2023-07-14
Onvif Version	22.12
OCX Version	2.2.7.42
MAC	00:18:aa:78:e9:e8
Device ID	IE
About this machine	View
Privacy Statement	View
	

3.1.2 Date and Time

Go to Config→System→Date and Time. Please refer to the following interface.

Zone		Date and Time	
Zone	GMT (Dublin, Lisbon, London, Reykjavik) ▼		
<input type="checkbox"/> DST			
<input checked="" type="radio"/> Auto DST			
<input type="radio"/> Manual DST			
Start Time	January ▼	First ▼	Sunday ▼ 00 ▼ Hour
End Time	February ▼	First ▼	Monday ▼ 00 ▼ Hour
Time Offset	120 Minutes ▼		
<input type="button" value="Save"/>			

Select the time zone and DST as required.

Note: The time zone of the camera and the computer must be the same. It is recommended to modify the time zone of the camera according to the time zone of the computer. If the time zone of the computer is modified, the current web client needs to be closed. Then re-open it and log in again.

Click the “Date and Time” tab to set the time mode and time format.

Zone		Date and Time	
Time Mode:			
<input checked="" type="radio"/> Synchronize with NTP server			
NTP server:		time.windows.com	Update period: 1440 Minutes
<input type="radio"/> Synchronize with computer time			
Date	2021-09-01	Time	17:37:36
<input type="radio"/> Set manually			
2021-09-01 09:37:32			
Time Format	24-Hour ▼		
<input type="button" value="Save"/>			

3.1.3 Local Config

Go to Config→System→Local Config to set up the storage path of captured pictures and recorded videos on the local PC. There is also an option to enable or disable the bitrate display in the recorded files.

Picture Path	C:\Program Files\NetAlIPCamera	<input type="button" value="Browse"/>
Record Path	C:\Program Files\NetAlIPCamera	<input type="button" value="Browse"/>
Video Audio Settings	<input type="radio"/> Open	<input checked="" type="radio"/> Close
Show Bitrate	<input type="radio"/> Open	<input checked="" type="radio"/> Close
Local Smart Snapshot Storage	<input type="radio"/> Open	<input checked="" type="radio"/> Close

Additionally, “Local smart snapshot storage” can be enabled or disabled here. If enabled, the captured pictures triggered by smart events (like line crossing detection, region intrusion, etc.) will be saved to the local PC.

Note: when you access your camera by the web browser without the plug-in, only Show Bitrate can be set in the above interface.

3.1.4 Storage

Go to Config→System→Storage to go to the interface as shown below.

Management		Record	Snapshot
Storage Mode	<input checked="" type="radio"/> Internal Memory Card <input type="radio"/> External Memory Card		
Total picture capacity	<input type="text" value="5528 MB"/>		
Picture remaining space	<input type="text" value="5527 MB"/>		
Total recording capacity	<input type="text" value="49665 MB"/>		
Record remaining space	<input type="text" value="49408 MB"/>		
State	<input type="text" value="Normal"/>		
Snapshot Quota	<input type="text" value="10"/>	%	
Video Quota	<input type="text" value="90"/>	%	
Changes in the quota ratio need to be formatted before they become effective.			
<input type="button" value="Format"/>			<input type="button" value="Save"/>

Select the storage mode as needed.

Internal memory card: the camera has an internal memory card by default. It can be used to store pictures and videos.

External memory card: you can insert an external memory card to the SD card slot of the camera. It also can be used to store pictures and videos.

These two cards cannot be used simultaneously. You can choose one to use.

- **SD Card Management**

Click the “Format” button to format the SD card. All data will be cleared by clicking this button.

Click the “Eject” button to stop writing data to SD card. Then the SD card can be ejected safely.

Snapshot Quota: Set the capacity proportion of captured pictures on the SD card.

Video Quota: Set the capacity proportion of record files on the SD card.

- **Schedule Recording Settings**

1. Go to Config→System→Storage→Record to go to the interface as shown below.

2. Set record stream, pre-record time, cycle writing.

Pre Record Time: Set the time to record before the actual recording begins.

3. Set schedule recording. Check “Enable Schedule Record” and set the schedule.

Weekly schedule

Set the alarm time from Monday to Sunday for a single week. Each day is divided in one hour increments. Green means scheduled. Blank means unscheduled.

“Add”: Add the schedule for a special day. Drag the mouse to set the time on the timeline.

“Erase”: Delete the schedule. Drag the mouse to erase the time on the timeline.

Manual Input: Click it for a specific day to enter specific start and end times. This adds more granularities (minutes).

Day schedule

Set the alarm time for alarm a special day, such as a holiday.

Note: Holiday schedule takes priority over weekly schedule.

● **Snapshot Settings**

Go to Config→System→Storage→Snapshot to go to the interface as shown below.

Management	Record	Snapshot
Snapshot Parameters		
Image Format	JPEG	▼
Resolution	704x576	▼
Image Quality	Low	▼
Event Trigger		
Snapshot Interval	1	Second
Snapshot Quantity	5	
Timing		
<input checked="" type="checkbox"/>	Enable Timing Snapshot	
Snapshot Interval	5	Second

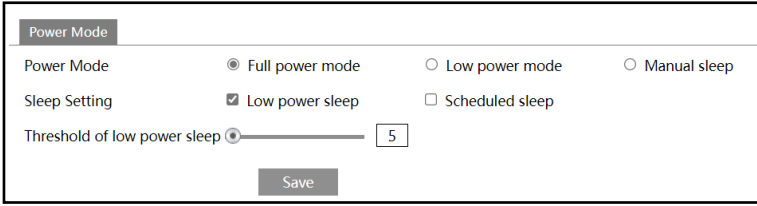
Set the format, resolution and quality of the image saved on the SD card and the snapshot interval and quantity and the timing snapshot here.

Snapshot Quantity: The number you set here is the maximum quantity of snapshots. The actual quantity of snapshots may be less than this number. Supposing the occurrence time of an alarm event is less than the time of capturing pictures, the actual quantity of snapshots is less than the set quantity of snapshots.

Timing Snapshot: Enable timing snapshot first and then set the snapshot interval and schedule. The setup steps of schedule are the same as the schedule recording (See [Schedule Recording](#)).

3.1.5 Power Mode

Go to Config→System→Power Mode.



Power Mode: Choose full power mode, low power mode or manual sleep as needed.

If “Low power mode” is selected, a maximum of 3 times only can be set for warning times of audio alarm, and the flashing frequency will be set to low by default.

Manual sleep: select it and click “Save”. Then the device enters the sleep mode.

In addition, you can set low power sleep and scheduled sleep here.

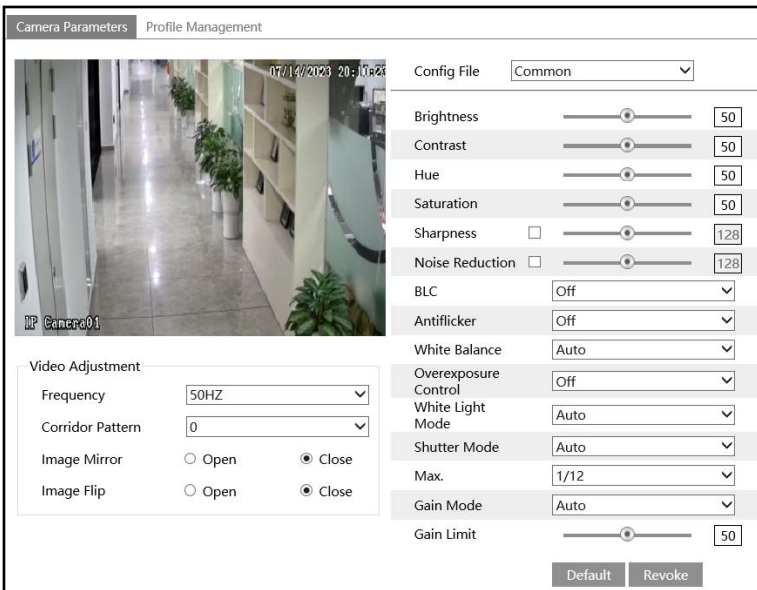
Low power sleep: set the threshold of low power sleep. When the device power is lower than the threshold value, the device enters sleep mode.

Scheduled sleep: If the device is during the scheduled sleep time, it enters the sleep mode. The setup steps of schedule are the same as the schedule recording (See [Schedule Recording](#)).

3.2 Image Configuration

3.2.1 Display Configuration

Go to Image→Display interface as shown below. The image’s brightness, contrast, hue and saturation and so on for common, day and night mode can be set up separately. The image effect can be quickly seen by switching the configuration file.



Brightness: Set the brightness level of the camera's image.

Contrast: Set the color difference between the brightest and darkest parts.

Hue: Set the total color degree of the image.

Saturation: Set the degree of color purity. The purer the color, the brighter the image is.

Sharpness: Set the resolution level of the image plane and the sharpness level of the image edge.

Noise Reduction: Decrease the noise and make the image more thorough. Increasing the value will make the noise reduction effect better but it will reduce the image resolution.

Backlight Compensation (BLC):

- Off: disables the backlight compensation function. It is the default mode.
- HWDR: WDR can adjust the camera to provide a better image when there are both very bright and very dark areas simultaneously in the field of the view by lowering the brightness of the bright area and increasing the brightness of the dark area.

Recording will be stopped for a few seconds while the mode is changing from non-WDR to WDR mode.

- HLC: lowers the brightness of the entire image by suppressing the brightness of the image's bright area and reducing the size of the halo area.
- BLC: If enabled, the auto exposure will activate according to the scene so that the object of the image in the darkest area will be seen clearly.

Antiflicker:

- Off: disables the anti-flicker function. This is used mostly in outdoor installations.
- 50Hz: reduces flicker in 50Hz lighting conditions.
- 60Hz: reduces flicker in 60Hz lighting conditions.

Smart IR: Choose "ON" or "OFF". This function can effectively avoid image overexposure so as to make the image more realistic. The higher the level is, the more overexposure compensation will be given.

White Balance: Adjust the color temperature according to the environment automatically.

Overexposure Control: Choose "OFF", "Low", "Mid" or "High". This function can automatically adjust the exposure parameter according to the actual effect of the image, effectively avoiding detail missing caused by image overexposure, so that the image will be more vivid. Please set it as needed.

White Light Mode: Choose "Off", "Auto" or "Manual". Please select it as needed.

Shutter Mode: Choose "Auto" or "Manual". If manual is chosen, the digital shutter speed can be adjusted.

Gain Mode: Choose "Auto" or "Manual". If "Auto" is selected, the gain value will be automatically adjusted (within the set gain limit value) according to the actual situation. If "Manual" is selected, the gain value shall be set manually. The higher the value is, the brighter the image is.

Frequency: 50Hz and 60Hz can be optional.

Corridor Pattern: Corridor viewing modes can be used for situations such as long hallways. 0, 90, 180 and 270 are available. The default value is 0.

Image Mirror: Turn the current video image horizontally.

Image Flip: Turn the current video image vertically.

Note: For some items (like HWDR), if selected/enabled, the camera will reboot automatically.

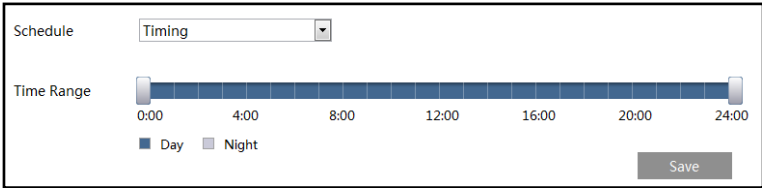
After that, clicking “Default” button will not take effect.

Schedule Settings of Image Parameters:

Click the “Profile Management” tab as shown below.



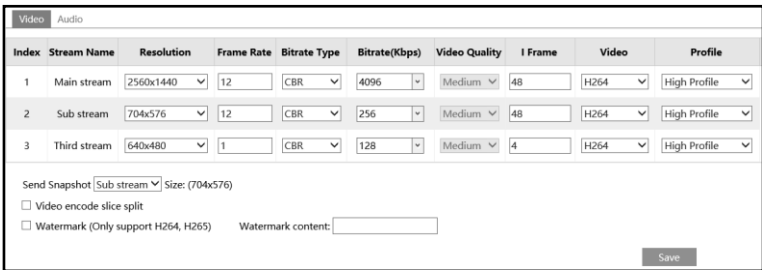
Set full time schedule for common, auto mode and specified time schedule for day and night. Choose “Timing” in the drop-down box of schedule as shown below.



Drag “” icons to set the time of day and night. Blue means day time and blank means night time. If the current mode of camera parameters is set to schedule, the image configuration mode will automatically switch between day and night according to the schedule.

3.2.2 Video / Audio Configuration

Go to Image→Video / Audio interface as shown below. In this interface, set the resolution, frame rate, bitrate type, video quality and so on subject to the actual network condition.



Three video streams can be adjustable.

Resolution: The size of image.

Frame rate: The higher the frame rate, the video is smoother.

Bitrate type: CBR and VBR are optional. Bitrate is related to image quality. CBR means that

no matter how much change is seen in the video scene, the compression bitrate will be kept constant. VBR means that the compression bitrate will be adjusted according to scene changes. For example, for scenes that do not have much movement, the bitrate will be kept at a lower value. This can help optimize the network bandwidth usage.

Bitrate: it can be adjusted when the mode is set to CBR. The higher the bitrate, the better the image quality will be.

Video Quality: It can be adjusted when the mode is set to VBR. The higher the image quality, the more bitrate will be required.

I Frame interval: It determines how many frames are allowed between a “group of pictures”. When a new scene begins in a video, until that scene ends, the entire group of frames (or pictures) can be considered as a group of pictures. If there is not much movement in the scene, setting the value higher than the frame rate is fine, potentially resulting in less bandwidth usage. However, if the value is set too high, and there is a high frequency of movement in the video, there is a risk of frame skipping.

Video Compression: MJPEG, H264+, H264, H265 or H265+ can be optional. MJPEG is not available for main stream. If H.265/H.265+ is chosen, make sure the client system is able to decode H.265/H.265+. Compared to H.265, H.265+ saves more storage space with the same maximum bitrate in most scenes. Compared to H.264, H.265 reduces the transmission bitrate under the same resolution, frame rate and image quality.

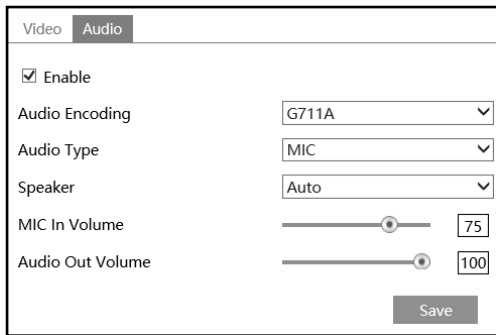
Profile: For H.264. Baseline, main and high profiles are selectable.

Send Snapshot: Set the snapshot stream.

Video encode slice split: If this function is enabled, smooth image can be gotten even though using the low-performance PC.

Watermark: When playing back the local recorded video in the search interface, the watermark can be displayed. To enable it, check the watermark box and enter the watermark text.

Click the “Audio” tab to go to the interface as shown below.



Audio Encoding: G711A and G711U are selectable.

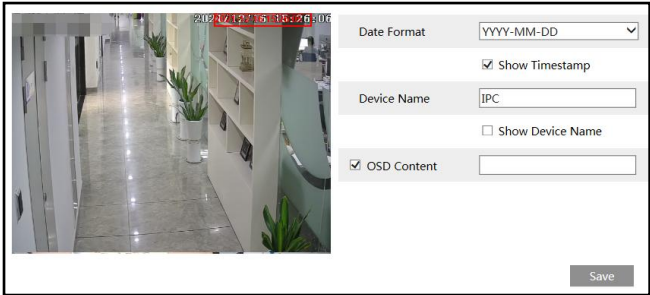
Audio Type: MIC

Speaker: Talkback, warning or auto can be optional. If “Talkback” is selected, the built-in

speaker will be used to output sound for two-way talk. If “Warning” is selected, the built-in speaker will be used to output the pre-defined audio alarm. If “Auto” is selected, the system will output sound for two-way talk or warning voice as needed. But when it is warning and two-way audio is being enabled simultaneously, two-way audio will be output first.

3.2.3 OSD Configuration

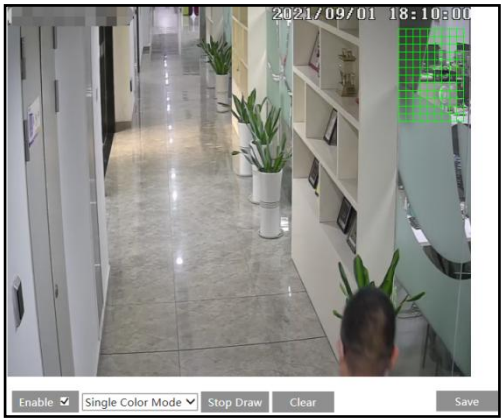
Go to Image→OSD interface as shown below.



Set time stamp, device name, OSD content and picture overlap here. After enabling the corresponding display and entering the content, drag them to change their position. Then click the “Save” button to save the settings.

3.2.4 Video Mask

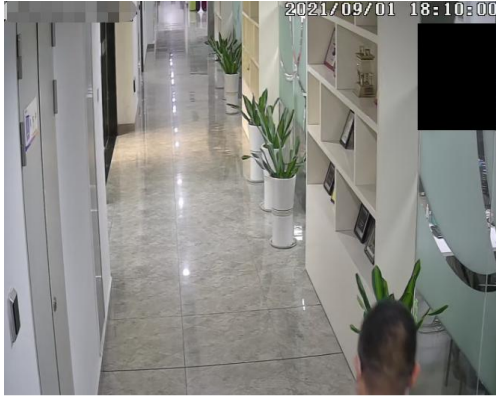
Go to Image→Video Mask interface as shown below. A maximum of 4 zones can be set up.



To set up video mask:

1. Enable video mask.
2. Click the “Draw Area” button and then drag the mouse to draw the video mask area.
3. Click the “Save” button to save the settings.

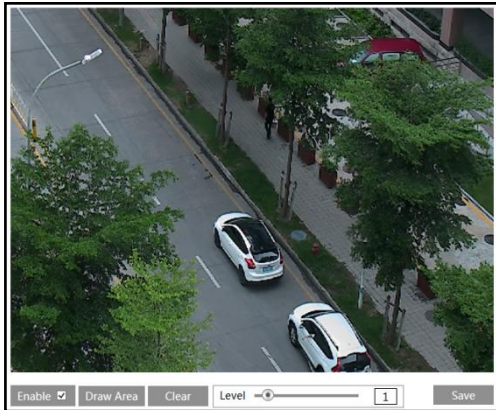
4. Return to the live to verify that the area have been drawn as shown as blocked out in the image.



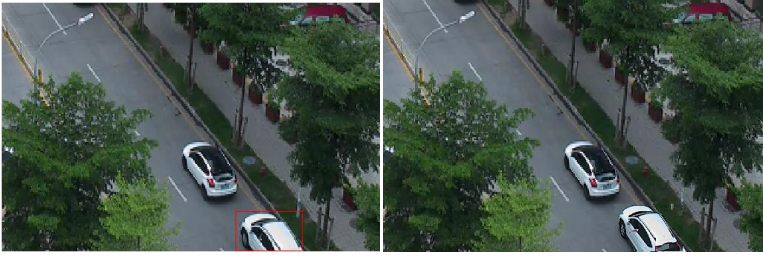
To clear the video mask:
Click the “Clear” button to delete the current video mask area.

3.2.5 ROI Configuration

Go to Image→ROI Config interface as shown below. An area in the image can be set as a region of interest. This area will have a higher bitrate than the rest of the image, resulting in better image quality for the identified area.



1. Check “Enable” and then click the “Draw Area” button.
2. Drag the mouse to set the ROI area.
3. Set the level.
4. Click the “Save” button to save the settings.



3.3 Alarm Configuration

3.3.1 Motion Detection

Go to Alarm → Motion Detection to set motion detection alarm.

Detection Config	Area and Sensitivity	Schedule
<input checked="" type="checkbox"/> Enable		
Alarm Holding Time	20 Seconds	▼
<input type="checkbox"/> Trigger Audio Alarm		
<input type="checkbox"/> Trigger SD Card Snapshot		
<input type="checkbox"/> Trigger SD Card Recording		
<input type="checkbox"/> Trigger Email		
<input type="checkbox"/> Trigger FTP		
<input type="button" value="Save"/>		

1. Check “Enable” check box to activate motion based alarms. If unchecked, the camera will not send out any signals to trigger motion-based recording to the NVR or CMS, even if there is motion in the video.

Alarm Holding Time: it refers to the time that the alarm extends for after an alarm ends. For instance, if the alarm holding time is set to 20 seconds, once the camera detects a motion, it will go to alarm and would not detect any other motion in 20 seconds. If there is another motion detected during this period, it will be considered as continuous movement; otherwise it will be considered as a single motion.

Trigger Audio Alarm: If selected, the warning voice will be uttered on detecting a motion based alarm. (Please set the warning voice first. See [Audio Alarm](#) for details).

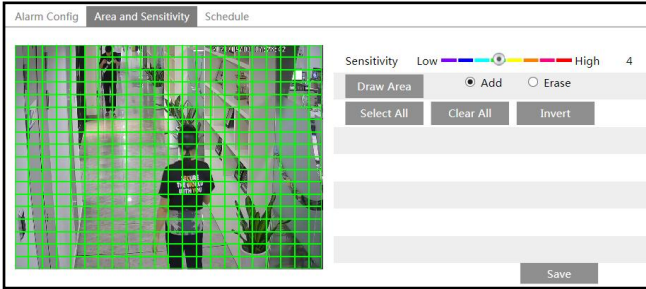
Trigger SD Card Snapshot: If selected, the system will capture images on motion detection and save the images on an SD card.

Trigger SD Card Recording: If selected, video will be recorded on an SD card on motion detection.

Trigger Email: If “Trigger Email” and “Attach Picture” are checked (email address must be set first in the Email configuration interface), the captured pictures and triggered event will be sent into those addresses.

Trigger FTP: If “Trigger FTP” and “Attach Picture” are checked, the captured pictures will be sent into FTP server address. Please refer to [FTP configuration](#) chapter for more details.

2. Set motion detection area and sensitivity. Click the “Area and Sensitivity” tab to go to the interface as shown below.



Move the “Sensitivity” scroll bar to set the sensitivity. Higher sensitivity value means that motion will be triggered more easily.

Select “Add” and click “Draw”. Drag the mouse to draw the motion detection area; Select “Erase” and drag the mouse to clear motion detection area.

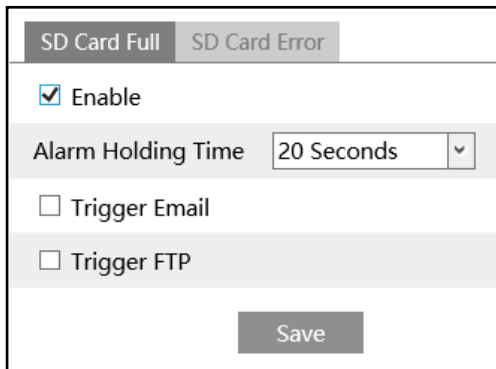
After that, click the “Save” to save the settings.

3. Set the schedule for motion detection. The schedule setup steps of the motion detection are the same as the schedule recording setup (See [Schedule Recording](#)).

3.3.2 Exception Alarm

- SD Card Full

1. Go to Config→Alarm→Exception Alarm→SD Card Full.



2. Click “Enable”.
3. Set the alarm holding time and alarm trigger options. The setup steps are the same as motion detection. Please refer to motion detection section for details.

● **SD Card Error**

When there are some errors in writing SD card, the corresponding alarms will be triggered.

1. Go to Config→Alarm→Exception Alarm→SD Card Error as shown below.

SD Card Full	SD Card Error
<input checked="" type="checkbox"/> Enable	
Alarm Holding Time	20 Seconds ▾
<input type="checkbox"/> Trigger Email	
<input type="checkbox"/> Trigger FTP	
Save	

2. Click “Enable”.
3. Set the alarm holding time and alarm trigger options. Trigger alarm out, Email and FTP. The setup steps are the same as motion detection. Please refer to [motion detection](#) chapter for details.

3.3.3 Alarm Server


Go to Alarm→Alarm Server interface as shown below.

Set the server address, port, heartbeat and heartbeat interval. When an alarm occurs, the camera will transfer the alarm event to the alarm server. If an alarm server is not needed, there is no need to configure this section.

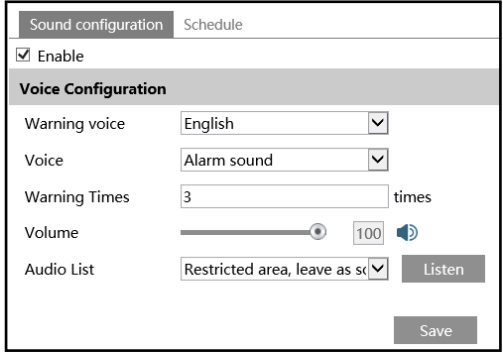
Server Address	0.0.0.0
Port	8010
Heartbeat	Disable ▾
Heartbeat interval	30 Second
OK	

3.3.4 Audio Alarm

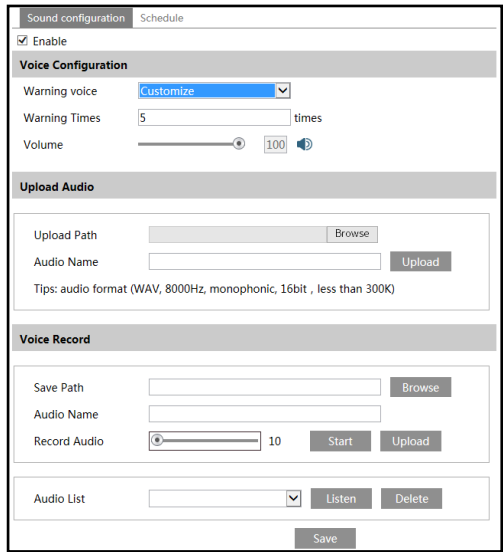
Go to Alarm→Audio Alarm interface as shown below.

Enable audio alarm. If disabled, the warning sound will not be uttered by clicking  in the

live view interface.



① Select the warning voice. If you want to customize the voice, you can choose “Customize”. Click “Browse” to choose the audio file you want to upload and then enter the audio name. Finally, click “Upload” to upload the audio file. Note that the format of the audio file must meet the requirement (see Tips), or it will not be uploaded. After you upload the audio file, you can select the audio name from the audio list and click “Listen” to listen to it. Click “Delete” to delete the audio.




You can also record your own voice in the above interface and then upload.

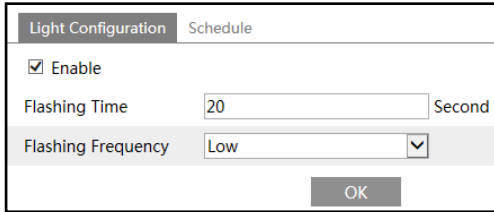
- Insert the microphone into your PC.
- Click “Browse” to choose the save path of the audio you want to record.
- Set the record audio volume and then click “Start” to start recording your voice.

- Click “Upload” to upload your customized voice.
- ② Select the voice and then set the warning times and volume as needed.
Warning times: it ranges from 1 to 50.
- ③ Set the schedule of audio alarm. The setup steps of the schedule are the same as the schedule recording setup. (See [Schedule Recording](#)).
- ④ Click “OK” to save the settings.

3.3.5 Light Alarm

Go to Alarm→Light Alarm interface as shown below.

- ① Enable light alarm as needed. If it is disabled, the flashing light will not be turned on by clicking  in the live view interface.
- ② Set the flashing time and frequency of the light.



Light Configuration	Schedule
<input checked="" type="checkbox"/> Enable	
Flashing Time	<input type="text" value="20"/> Second
Flashing Frequency	<input type="text" value="Low"/> ▾
<input type="button" value="OK"/>	

Flashing time: the flashing time ranges from 1 second to 60 seconds.

Flashing Frequency: three options- low, middle and high

- ③ Set the schedule of audio alarm. The setup steps of the schedule are the same as the schedule recording setup. (See [Schedule Recording](#)).

3.3.6 PIR Alarm

PIR (Passive Infrared) alarm: Alarms will be triggered when the camera detects human bodies or animals. Go to **Config→Alarm→PIR Alarm**.

Detection Config
Schedule

Enable

Alarm Holding Time

Trigger Audio Alarm

Trigger Light Alarm

Trigger SD Card Snapshot

Trigger SD Card Recording

Trigger Email

Trigger FTP

Save

1. Enable PIR alarm and then set the alarm holding time.

2. Set alarm trigger options.

Trigger light alarm: If selected, the light of the camera will flash when a PIR alarm is triggered. (Please set the light flashing time and frequency first. See [Light Alarm](#) for details). The other setup steps are the same as motion detection. Please refer to motion detection section for details.

3. Set the schedule for PIR alarm. The schedule setup steps of the PIR alarm are the same as the schedule recording setup (See [Schedule Recording](#)).

3.4 Event Configuration

For more accuracy, here are some recommendations for installation.

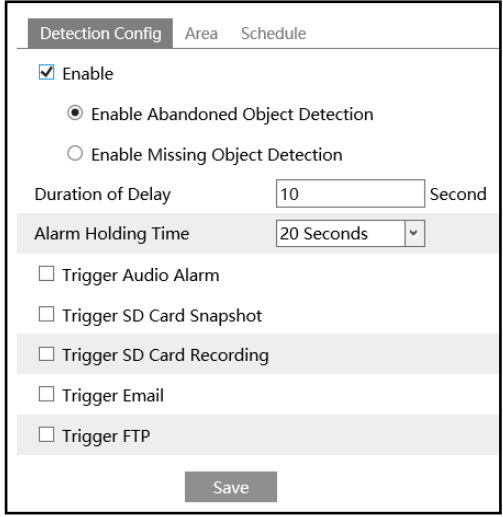
- Cameras should be installed on stable surfaces, as vibrations can affect the accuracy of detection.
- Avoid pointing the camera at the reflective surfaces (like shiny floors, mirrors, glass, lake surfaces and so on).
- Avoid places that are narrow or have too much shadowing.
- Avoid scenario where the object's color is similar to the background color.
- At any time of day or night, please make sure the image of the camera is clear and with adequate and even light, avoiding overexposure or too much darkness on both sides.

3.4.1 Object Abandoned/Missing

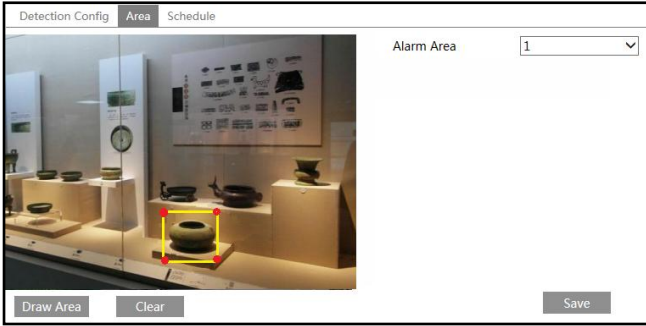
Alarms will be triggered when the objects are removed from or left at the pre-defined area.

To set abandoned/missing object detection:

Go to Config→Event→Object Abandoned/Missing interface as shown below.



1. Enable abandoned/missing object detection and then select the detection type.
Enable Abandoned Object Detection: Alarms will be triggered if there are items left in the pre-defined area.
Enable Missing Object Detection: Alarms will be triggered if there are items missing in the pre-defined area.
Duration of Delay: it is the alarm delay time of the object left in the region (ranging from 10~3600s) or the alarm delay time of the object removed from the region (ranging from 3~3600s). For example, if “Enable Abandoned Object Detection” is selected and the duration of delay is set as 10, alarms will be triggered after the object is left and stay in the region for 10s, but when someone takes away the object within 10s, alarms will not be triggered.
2. Set the alarm holding time and alarm trigger options. The setup steps are the same as motion detection. Please refer to [motion detection](#) chapter for details.
3. Click “Save” button to save the settings.
4. Set the alarm area of the abandoned/missing object detection. Click the “Area” tab to go to the interface as shown below.



Set the alarm area number and then enter the desired alarm area name. Only one alarm area can be added. Click the “Draw Area” button and then click around the area where you want to set as the alarm area in the image (the alarm area should be a closed area). Click the “Stop Draw” button to stop drawing. Click the “Clear” button to delete the alarm area. Click the “Save” button to save the settings.

5. Set the schedule of the abandoned/missing object detection. The setup steps of schedule are the same as the schedule recording (See [Schedule Recording](#)).

※ The configuration requirements of camera and surrounding areas

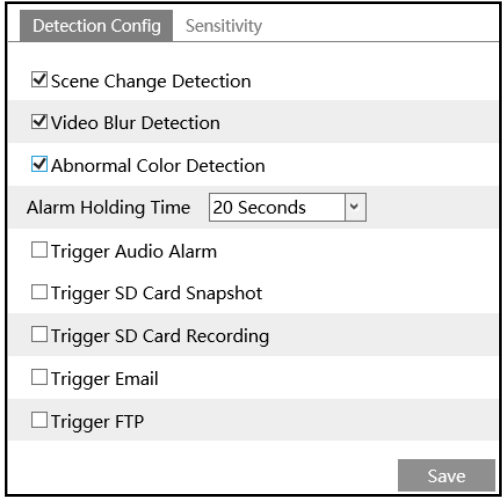
1. The range of the detection object should occupy from 1/50 to 1/3 of the entire image.
2. The detection time of objects in the camera shall be from 3 to 5 seconds.
3. The defined area cannot be covered frequently and continuously (like people and traffic flow).
4. It is necessary for missing object detection that the drawn frame must be very close to the margin of the object in enhancing the sensitivity and accuracy of the detection.
5. Abandoned/missing object detection cannot determine the objects’ ownership. For instance, there is an unattended package in the station. Abandoned object detection can detect the package itself but it cannot determine to whom it belongs to.
6. Try not to enable abandoned/missing object detection when light changes greatly in the scene.
7. Try not to enable abandoned/missing object if there are complex and dynamic environments in the scene.
8. Adequate light and clear scenery are very important to abandoned/missing object detection.

3.4.2 Video Exception

This function can detect changes in the surveillance environment affected by the external factors.

To set exception detection:

Go to Config→Event→Video Exception interface as shown below.



1. Enable the applicable detection that's desired.

Scene Change Detection: Alarms will be triggered if the scene of the monitor video has changed.

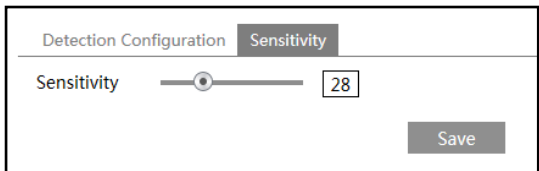
Video Blur Detection: Alarms will be triggered if the video becomes blurry.

Abnormal Color Detection: Alarms will be triggered if the image is abnormal caused by color deviation.

2. Set the alarm holding time and alarm trigger options. The setup steps are the same as motion detection. Please refer to motion detection section for details.

3. Click "Save" button to save the settings.

4. Set the sensitivity of the exception detection. Click "Sensitivity" tab to go to the interface as shown below.



Drag the slider to set the sensitivity value or directly enter the sensitivity value in the textbox. Click "Save" button to save the settings.

The sensitivity value of Scene Change Detection: The higher the value is, the more sensitive the system responds to the amplitude of the scene change.

The sensitivity value of Video Blur Detection: The higher the value is, the more sensitive the system responds to the blurriness of the image.

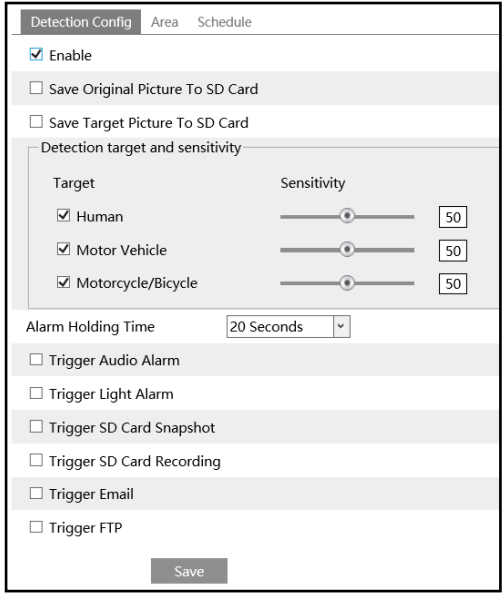
The sensitivity value of Abnormal Color Detection: The higher the value is, the more sensitive the system responds to the color shift of the image.

※ **The requirements of camera and surrounding area**

1. Auto-focusing function should not be enabled for exception detection.
2. Try not to enable exception detection when light changes greatly in the scene.
3. Please contact us for more detailed application scenarios.

3.4.3 Line Crossing

Line Crossing: Alarms will be triggered if the target crosses the pre-defined alarm lines. Go to Config→Event→Line Crossing interface as shown below.



1. Enable line crossing alarm and select the snapshot type and the detection target.

Save Original Picture to SD Card: If it is enabled, the detected original pictures will be captured and saved to the SD card when the targets cross the alarm line.

Save Target Picture to SD Card: If it is enabled, the detected target cutout pictures will be captured and saved to the SD card when the targets cross the alarm line.

Note: To save snapshots to the local PC, please enable “Local Smart Snapshot Storage” in the local config interface first. To save snapshots to the SD card, please install an SD card first.

Detection Target:

Human: Select it and then alarms will be triggered if someone crosses the pre-defined alarm lines.

Motor Vehicle: Select it and then alarms will be triggered if a vehicle with four or more wheels (eg. a car, bus or truck) crosses the pre-defined alarm lines.

Motorcycle/Bicycle: Select it and then alarms will be triggered if a vehicle with two wheels (eg. a motorcycle or bicycle) crosses the pre-defined alarm lines.

All of the three types of objects can be selected simultaneously. Please select the detection

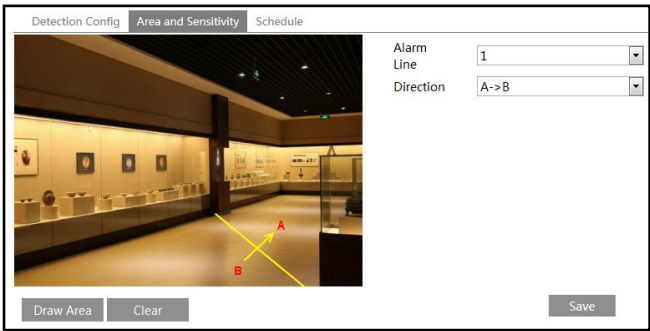
objects as needed. If no object/target is selected, alarms will not be triggered even if line crossing detection is enabled.

2. Set the alarm holding time.
3. Set alarm trigger options.

Trigger light alarm: If selected, the light of the camera will flash when a target crosses the pre-defined alarm lines. (Please set the light flashing time and frequency first. See [Light Alarm](#) for details).

The other setup steps are the same as motion detection. Please refer to motion detection section for details.

4. Click “Save” button to save the settings.
5. Set area and sensitivity of the line crossing alarm. Click the “Area and Sensitivity” tab to go to the interface as shown below.



Set the alarm line number and direction. Up to 4 lines can be added. Multiple lines cannot be added simultaneously.

Direction: A<->B, A->B and A<-B optional. This indicates the direction of the intruder/vehicle crosses over the alarm line.

A<->B: The alarm will be triggered when the intruder/vehicle crosses over the alarm line from B to A or from A to B.

A->B: The alarm will be triggered when the intruder/vehicle crosses over the alarm line from A to B.

A<-B: The alarm will be triggered when the intruder/vehicle crosses over the alarm line from B to A.

Click the “Draw Area” button and then drag the mouse to draw a line in the image. Click the “Stop Draw” button to stop drawing. Click the “Clear” button to delete the lines. Click the “Save” button to save the settings.

6. Set the schedule of the line crossing alarm. The setup steps of the schedule are the same as the schedule recording setup (See [Schedule Recording](#)).

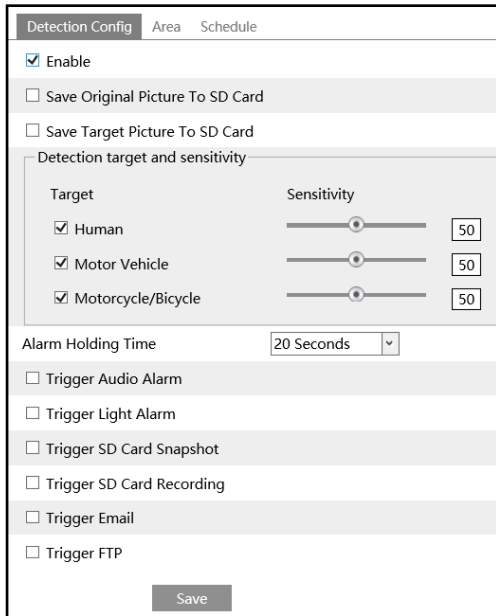
Configuration of camera and surrounding area

1. Auto-focusing function should not be enabled for line crossing detection.
2. Avoid the scenes with many trees or the scenes with various light changes (like many flashing headlights). The ambient brightness of the scenes shouldn't be too low.

3. Cameras should be mounted at a height of 2.8 meters or above.
4. Keep the mounting angle of the camera at about 45 °.
5. The detected objects should not be less than 1% of the entire image and the largest sizes of the detected objects should not be more than 1/8 of the entire image.
6. Make sure cameras can view objects for at least 2 seconds in the detected area for accurate detection.
7. Adequate light and clear scenery are crucial for line crossing detection.

3.4.4 Region Intrusion

Region Intrusion: Alarms will be triggered if the target intrudes into the pre-defined areas. This function can be applicable to important supervision places, danger areas and prohibited areas, like military administrative zones, high danger areas, no man’s areas, etc. Go to Config→Event→Region Intrusion interface as shown below.



1. Enable intrusion detection and select the snapshot type and the detection target.

Save Original Picture to SD Card: If it is enabled, the detected original pictures will be captured and saved to the SD card when the targets intrude into the pre-defined areas.

Save Target Picture to SD Card: If it is enabled, the detected target cutout pictures will be captured and saved to the SD card when the targets intrude into the pre-defined areas.

Note: To save snapshots to the local PC, please enable “Local Smart Snapshot Storage” in the local config interface first. To save snapshots to the SD card, please install an SD card first.

Detection Target:

Human: Select it and then alarms will be triggered if someone intrudes into the pre-defined

area.

Motor Vehicle: Select it and then alarms will be triggered if a vehicle with four or more wheels (eg. a car, bus or truck) intrudes into the pre-defined area.

Non-motor Vehicle: Select it and then alarms will be triggered if a vehicle with two wheels (eg. a motorcycle or bicycle) intrudes into the pre-defined area.

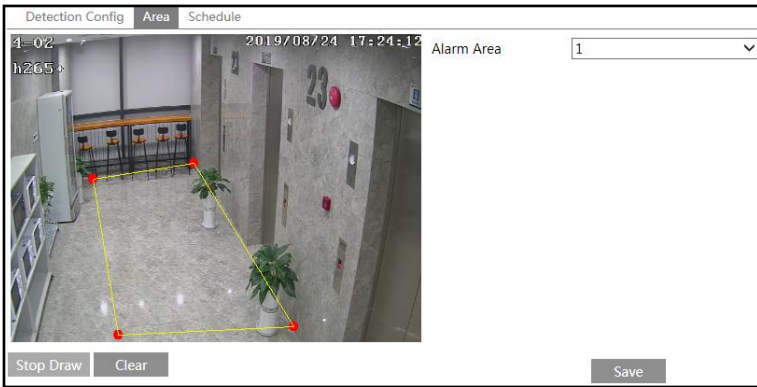
All of the three types of objects can be selected simultaneously. Please select the detection objects as needed. If no object/target is selected, alarms will not be triggered even if intrusion detection is enabled.

2. Set the alarm holding time.
3. Set alarm trigger options.

Trigger light alarm: If selected, the light of the camera will flash when a target intrudes into the pre-defined areas (Please set the light flashing time and frequency first. See [Light Alarm](#) for details).

The other setup steps are the same as motion detection. Please refer to motion detection section for details.

4. Click the “Save” button to save the settings.
5. Set the alarm area of the region intrusion detection. Click the “Area” tab to go to the interface as shown below.



Set the alarm area number on the right side. Up to 4 alarm areas can be added.

Click the “Draw Area” button and then click around the area where you want to set as the alarm area in the image on the left side (the alarm area should be a closed area). Click the “Stop Draw” button to stop drawing. Click the “Clear” button to delete the alarm area. Click the “Save” button to save the settings.

6. Set the schedule of the region intrusion detection. The setup steps of the schedule are the same as schedule recording setup (See [Schedule Recording](#)).

✖ **Configuration requirements of camera and surrounding area**

1. Auto-focusing function should not be enabled for region intrusion detection.
2. Avoid the scenes with many trees or the scenes with various light changes (like many flashing headlights). The ambient brightness of the scenes shouldn't be too low.

- 3. Cameras should be mounted at a height of 2.8 meters or above.
- 4. Keep the mounting angle of the camera at about 45 °.
- 5. The detected objects should not be less than 1% of the entire image and the largest sizes of the detected objects should not be more than 1/8 of the entire image.
- 6. Make sure cameras can view objects for at least 2 seconds in the detected area for accurate detection.
- 7. Adequate light and clear scenery are crucial to region intrusion detection.

3.5 Network Configuration

3.5.1 TCP/IP

Go to Config→Network→TCP/IP interface as shown below. There are two ways for network connection.

The screenshot shows the 'IPv4' configuration tab. It has two radio buttons: 'Obtain an IP address automatically' (unselected) and 'Use the following IP address' (selected). Below are input fields for 'IP Address' (192.168.226.201), 'Subnet Mask' (255.255.255.0), 'Gateway' (192.168.226.1), 'Preferred DNS Server' (210.21.196.6), and 'Alternate DNS Server' (8.8.8.8). A 'Test' button is next to the IP address field.

Use IP address (take IPv4 for example)-There are two options for IP setup: obtain an IP address automatically by DHCP and use the following IP address. Please choose one of the options as needed.

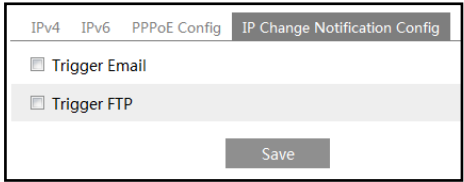
Test: Test the effectiveness of the IP address by clicking this button.

Use PPPoE-Click the “PPPoE Config” tab to go to the interface as shown below. Enable PPPoE and then enter the user name and password from your ISP.

The screenshot shows the 'PPPoE Config' tab. It has a checked 'Enable' checkbox. Below are input fields for 'User Name' (xxxxxxx) and 'Password' (masked with dots). A 'Save' button is at the bottom right.

Either method of network connection can be used. If PPPoE is used to connect internet, the camera will get a dynamic WAN IP address. This IP address will change frequently. To be

notified, the IP change notification function can be used.
Click “IP Change Notification Config” to go to the interface as shown below.

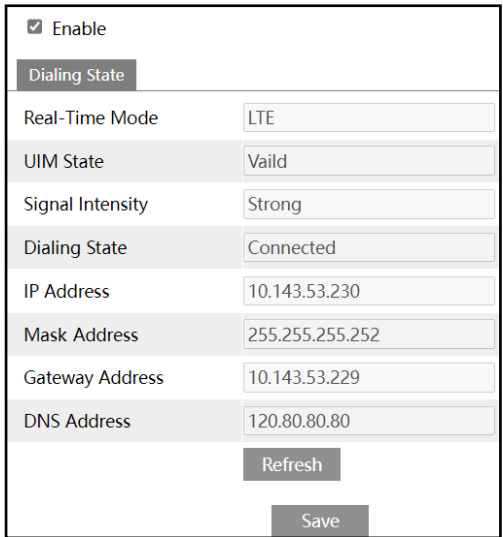


Trigger Email: when the IP address of the device is changed, the new IP address will be sent to the email address that has been set up.

Trigger FTP: when the IP address of the device is changed, the new IP address will be sent to FTP server that has been set up.

3.5.2 Wireless Dial

After you insert a SIM card and activate 3G/4G services, you can click Config→Network→Wireless Dial to view whether your wireless network is connected.



Enable this function. Click “Refresh” to refresh the dialing state.
When the dialing state is “Connected”, it means a successful dial.

3.5.3 Port

Go to Config→Network→Port interface as shown below. HTTP port, Data port and RTSP port can be set.

HTTP Port	<input type="text" value="80"/>	
HTTPS Port	<input type="text" value="443"/>	
Data Port	<input type="text" value="9008"/>	
RTSP Port	<input type="text" value="554"/>	
Persistent connection Port	<input type="text" value="8080"/>	<input checked="" type="checkbox"/> Enable
WebSocket Port	<input type="text" value="7681"/>	
<input type="button" value="Save"/>		

HTTP Port: The default HTTP port is 80. It can be changed to any port which is not occupied.

HTTPS Port: The default HTTPS port is 443. It can be changed to any port which is not occupied.

Data Port: The default data port is 9008. Please change it as necessary.

RTSP Port: The default port is 554. Please change it as necessary.

Persistent Connection Port: The port is used for a persistent connection of the third-party platform to push smart data, like face pictures.

WebSocket Port: Communication protocol port for plug-in free preview.

3.5.4 Server Configuration

This function is mainly used for connecting network video management system.

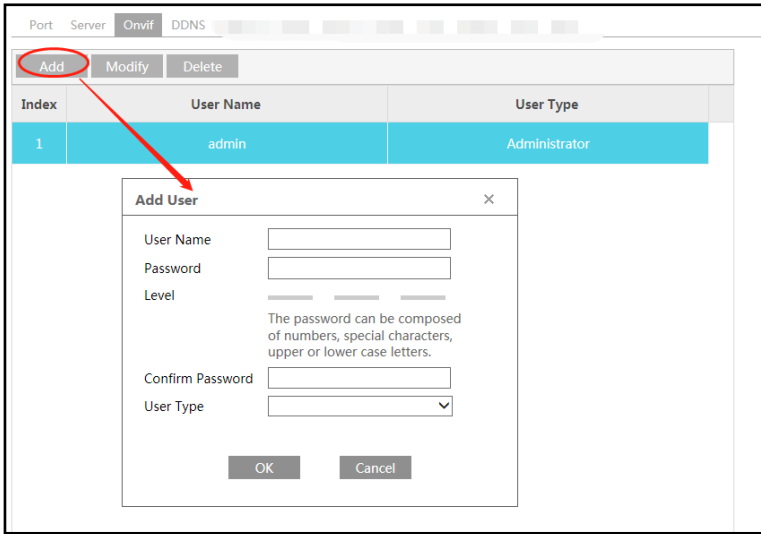
<input checked="" type="checkbox"/> Enable	
Server Port	<input type="text" value="2009"/>
Server Address	<input type="text"/>
Device ID	<input type="text" value="1"/>
<input type="button" value="Save"/>	

1. Check "Enable".
2. Check the IP address and port of the transfer media server in the NVMS. Then enable the auto report in the NVMS when adding a new device. Next, enter the remaining information of the device in the NVMS. After that, the system will automatically allot a device ID. Please check it in the NVMS.
3. Enter the above-mentioned server address, server port and device ID in the corresponding boxes. Click the "Save" button to save the settings.

3.5.5 Onvif

The camera can be searched and connected to the third-party platform via ONVIF/RTSP protocol.

If “Activate Onvif User” is enabled in the device activation interface, the ONVIF user can be activated simultaneously. When you connect the camera through the ONVIF protocol in the third-party platform, you can use this onvif user to connect. You can also add new users in the Onvif interface.

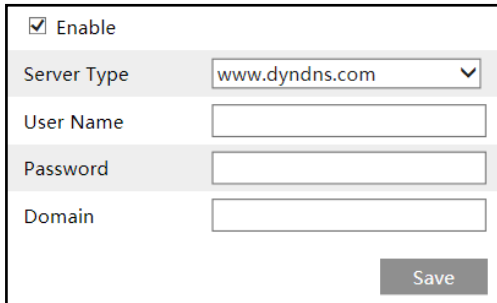


Note: when adding the device to the third-party platform with ONVIF/RTSP protocol, please use the onvif user in the above interface.

3.5.6 DDNS

If the camera is set up with a DHCP connection, DDNS should be set for the internet.

1. Go to Config→Network→ DDNS.



2. Apply for a domain name. Take www.dvr dyndns.com for example. Enter www.dvr dyndns.com in the IE address bar to visit its website. Then Click the “Registration” button.

NEW USER REGISTRATION

USER NAME	XXXX
PASSWORD	•••••• ?
PASSWORD CONFIRM	••••••
FIRST NAME	xxx
LAST NAME	xxx
SECURITY QUESTION	My first phone number. ▾
ANSWER	xxxxxxx
CONFIRM YOU'RE HUMAN	 New Captcha Enter the text you see above

Submit Reset

Create domain name.

You must create a domain name to continue.

Domain name must start with (a-z, 0-9). Cannot end or start, but may contain a hyphen and is not case-sensitive.

Request Domain

After the domain name is successfully applied for, the domain name will be listed as below.

Search by Domain Search

Click a name to edit your domain settings.

NAME	STATUS	DOMAIN
654321ABC	✓	654321abc.dvrddns.com

Last Update: *Not yet updated* IP Address: 210.21.229.138

Create additional domain names

3. Enter the username, password, domain you apply for in the DDNS configuration interface.
4. Click the “Save” button to save the settings.

3.5.7 SNMP

To get camera status, parameters and alarm information and remotely manage the camera, the SNMP function can be used. Before using SNMP, please install an SNMP management tool and set the parameters of the SNMP, such as SNMP port, trap address.

1. Go to Config→Network→SNMP.

SNMP v1/v2	
<input type="checkbox"/> Enable SNMPv1	
<input type="checkbox"/> Enable SNMPv2	
Read SNMP Community	<input type="text"/>
Write SNMP Community	<input type="text"/>
Trap Address	<input type="text" value="..."/>
Trap Port	<input type="text" value="0"/>
Trap community	<input type="text"/>
SNMP v3	
<input type="checkbox"/> Enable SNMPv3	
Read User Name	<input type="text"/>
Security Level	<input type="text" value="auth, priv"/>
Authentication Algorithm	<input checked="" type="radio"/> MD5 <input type="radio"/> SHA
Authentication Password	<input type="text"/>
Private-key Algorithm	<input checked="" type="radio"/> DES <input type="radio"/> AES
Private-key Algorithm	<input type="text"/>
Write User Name	<input type="text"/>
Security Level	<input type="text" value="auth, priv"/>
Authentication Algorithm	<input checked="" type="radio"/> MD5 <input type="radio"/> SHA
Authentication Password	<input type="text"/>
Private-key Algorithm	<input checked="" type="radio"/> DES <input type="radio"/> AES
Private-key Algorithm	<input type="text"/>
Other Settings	
SNMP Port	<input type="text" value="0"/>

2. Check the corresponding version checkbox (Enable SNMPv1, Enable SNMPv2, Enable SNMPv3) according to the version of the SNMP software that will be used.
3. Set the values for “Read SNMP Community”, “Write SNMP Community”, “Trap Address”, “Trap Port” and so on. Please make sure the settings are the same as that of the SNMP software.

Note: Please use the different version in accordance with the security level you required. The higher the version is, the higher the level of the security is.

3.5.8 802.1x

If it is enabled, the camera’s data can be protected. When the camera is connected to the network protected by the IEEE802.1x, user authentication is needed.

<input checked="" type="checkbox"/> Enable	
Protocol Type	EAP_MD5
EAPOL Version	1
User Name	test
Password	•••••
Confirm Password	•••••

To use this function, the camera shall be connected to a switch supporting 802.1x protocol. The switch can be reckoned as an authentication system to identify the device in a local network. If the camera connected to the network interface of the switch has passed the authentication of the switch, it can be accessed via the local network.

Protocol type and EAPOL version: Please use the default settings.

User name and password: The user name and password must be the same with the user name and password applied for and registered in the authentication server.

3.5.9 RTSP

Go to Config→Network→RTSP.

<input checked="" type="checkbox"/> Enable	
Port	554
Address	rtsp://IP or domain name:port/profile1
	rtsp://IP or domain name:port/profile2
	rtsp://IP or domain name:port/profile3
Multicast address	
Main stream	239.0.0.0 50554 <input type="checkbox"/> Automatic start
Sub stream	239.0.0.1 51554 <input type="checkbox"/> Automatic start
Third stream	239.0.0.2 52554 <input type="checkbox"/> Automatic start
Audio	239.0.0.3 53554 <input type="checkbox"/> Automatic start
<input type="checkbox"/> Allow anonymous login (No username or password required)	
Save	

Select “Enable” to enable the RTSP function.

Port: Access port of the streaming media. The default number is 554.

RTSP Address: The RTSP address (unicast) format that can be used to play the stream in a media player.

Multicast Address

Main stream: The address format is

“rtsp://IP address: rtsp port/profile1?transportmode=mcst”.

Sub stream: The address format is

“rtsp://IP address: rtsp port/profile2?transportmode=mcst”.

Third stream: The address format is

“rtsp://IP address: rtsp port/profile3?transportmode=mcst”.

Audio: Having entered the main/sub stream in a VLC player, the video and audio will play automatically.

If “Allow anonymous login...” is checked, there is no need to enter the username and password to view the video.

If “auto start” is enabled, the multicast received data should be added into a VLC player to play the video.

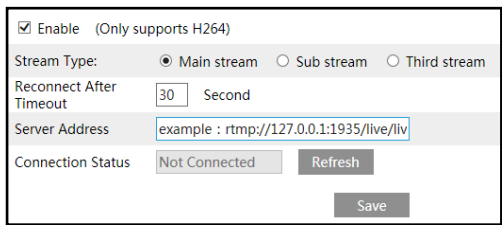
Note:1. This camera supports local video preview through a VLC player. Enter the RTSP address (unicast or multicast, eg. rtsp://192.168.226.201:554/profile1?transportmode=mcst) in a VLC player to realize the simultaneous video preview with the web client.

- 2. The IP address mentioned above cannot be the address of IPv6.
- 3. Avoid the use of the same multicast address in the same local network.
- 4. When playing the video through the multicast streams in a VLC player, please pay attention to the mode of the VLC player. If it is set to TCP mode, the video cannot be played.
- 5. If the coding format of the video of the main stream is MJPEG, the video may be disordered at some resolutions.

3.5.10 RTMP

You can access the third-party (like YouTube) to realize video live view through RTMP protocol.

Go to Config→Network→RTMP.



Check “Enable”, select stream type, set the reconnection time after timeout and server address as needed.

Server address: Enter the server address allocated by the third party server.

After that, click “Save” to save the settings. Then click “Refresh” to view the connection status.

3.5.11 UPNP

If this function is enabled, the camera can be quickly accessed through the LAN.

Go to Config→Network→UPnP. Enable UPnP and then enter UPnP name.

3.5.12 Email

If you need to trigger Email when an alarm happens or IP address is changed, please set the Email here first.

Go to Config→Network →Email.

Sender Address: sender’s e-mail address.

User name and password: sender’s user name and password (you don’t have to enter the username and password if “Anonymous Login” is enabled).

Server Address: The SMTP IP address or host name.

Select the secure connection type at the “Secure Connection” pull-down list according to what’s required.

SMTP Port: The SMTP port.

Send Interval(S): The time interval of sending email. For example, if it is set to 60 seconds and multiple motion detection alarms are triggered within 60 seconds, they will be considered as only one alarm event and only one email will be sent. If one motion alarm event is triggered and then another motion detection alarm event is triggered after 60 seconds, two emails will be sent. When different alarms are triggered at the same time, multiple emails will be sent separately.

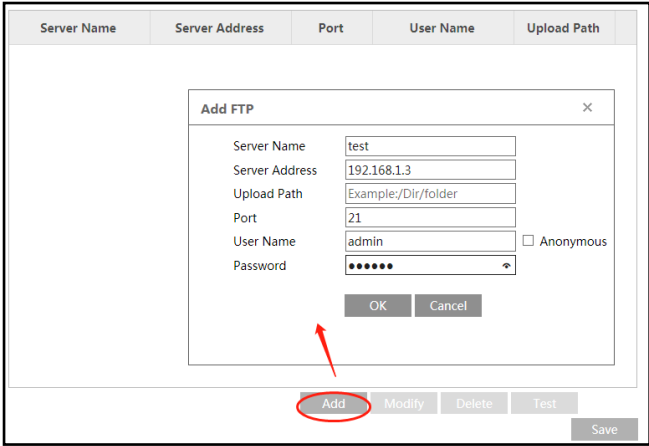
Click the “Test” button to test the connection of the account.

Recipient Address: receiver’s e-mail address.

3.5.13 FTP

After an FTP server is set up, captured pictures from events will be uploaded to the FTP server.

1. Go to Config→Network →FTP.



2. Click “Add” to add the information of the FTP. After that, click “Save” to save the settings.

Server Name: The name of the FTP server.

Server Address: The IP address or domain name of the FTP.

Upload Path: The directory where files will be uploaded to.

Port: The port of the FTP server.

User Name and Password: The username and password that are used to login to the FTP server.

3. In the event setting interface (like intrusion, line crossing, etc.), trigger FTP as shown below.

Trigger FTP

Server Address

192.168.1.3 Attach Picture

Save

Rule of FTP storage path: /device MAC address/event type/date/time/

For example: a face detection alarm occurs

FTP file path: \00-18-ae-a8-da-2a\VFD\2021-01-09\14\

Event name table:

File Name	Event Type
IP	IP address change
MOTION	Motion Detection
TRIPWIRE	Line Crossing Detection
PERIMETER	Region Intrusion Detection
OSC	Object Left/Missing
AVD	Video Exception
SDFULL	SD Full
SDERROR	SD Error

TXT file content:

device name: xxx mac: device MAC address Event Type time:

For example:

device name: IPC mac: 00-18-ae-a8-da-2a MOTION time: 2021-03-16 12:20:07

3.5.14 HTTP POST

Go to Config→Network →HTTP POST interface.

Check “Enable”, select protocol type and then set the server address (IP address/domain name), server port and heartbeat interval.

<input checked="" type="checkbox"/> Enable	
Protocol Type	API
Server Address	. . .
Server Port	8082
Heartbeat interval	90 Second
Online State	Offline Refresh
Save	

Server address: the IP address/domain name of the third-party platform.

Server port: the server port of the third-party platform.

After the above parameters are set, click “Save” to save the settings. Then the camera will automatically connect the third-party platform. The online state can be viewed in the above interface. After the camera is successfully connected, it will send the alarm information (HTTP format) to the third-party platform once the smart alarm is triggered. The alarm information includes target tracing coordinates, target features, the captured original/target image (like the captured face picture, motor vehicle picture) and so on.

3.5.15 HTTPS

HTTPS provides authentication of the web site and protects user privacy.

Go to Config → Network → HTTPS as shown below.

<input type="checkbox"/> Enable	
Certificate installed	C=CN, ST=GD, L=SZ, O=IPC, OU=embeddec Delete
Attribute	Issued to: C=CN, ST=GD, L=SZ, O=IPC, OU=embeddecsoftware, H=localhost, Issuer: C=CN, ST=GD, L=SZ, O=IPC, OU=embeddecsoftware, H=localhost, Validity date: 2020-03-14 08:12:45 - 2033-11-21 08:12:45
Save	

There is a certificate installed by default as shown above. Enable this function and save it. Then the camera can be accessed by entering https://IP: https port via the web browser (eg. https://192.168.226.201:443).

A private certificate can be created if users don't want to use the default one. Click “Delete” to cancel the default certificate. Then the following interface will be displayed.

<input type="checkbox"/> Enable	
Installation type	<input checked="" type="radio"/> Have signed certificate, install directly <input type="radio"/> Create a private certificate <input type="radio"/> Create a certificate request
Install certificate	Browse Install
Save	

- * If there is a signed certificate, click “Browse” to select it and then click “Install” to install it.
- * Click “Create a private certificate” to enter the following creation interface.

Enable

Installation type Have signed certificate, install directly
 Create a private certificate
 Create a certificate request

Create a private certificate

Click the “Create” button to create a private certificate. Enter the country (only two letters available), domain (camera’s IP address/domain), validity date, password, province/state, region and so on. Then click “OK” to save the settings.

- * Click “Create a certificate request” to enter the following interface.

Enable

Installation type Have signed certificate, install directly
 Create a private certificate
 Create a certificate request

Create a certificate request

Install Created Certificate

Click “Create” to create the certificate request. Then download the certificate request and submit it to the trusted certificate authority for signature. After receiving the signed certificate, import the certificate to the device.

3.5.16 P2P

If this function is enabled, the network camera can be quickly accessed by scanning the QR Code in mobile surveillance client via WAN. Enable this function by going to Config→Network→P2P interface.

3.5.17 QoS

QoS (Quality of Service) function is used to provide different quality of services for different network applications. With the deficient bandwidth, the router or switch will sort the data streams and transfer them according to their priority to solve the network delay and network congestion by using this function.

Go to Config→Network→QoS.

Video/Audio DSCP	13
Alarm DSCP	35
Manager DSCP	53

Video/Audio DSCP: The range is from 0 to 63.

Alarm DSCP: The range is from 0 to 63.

Manager DSCP: The range is from 0 to 63.

Generally speaking, the larger the number is, the higher the priority is.

3.5.18 TS Multicast

By using transport stream multicast (TS Multicast), multiple users can view the video image simultaneously even if there is not enough bandwidth.

⚠ Video stream in MJPEG format cannot be transmitted via TS multicast!

⚠ The transmission content will not be encrypted.

Main stream	Multicast address	239.1.0.0	2000	<input type="checkbox"/> Audio	<input type="checkbox"/> Enable
Sub stream	Multicast address	239.1.0.1	2001	<input type="checkbox"/> Audio	<input type="checkbox"/> Enable
Third stream	Multicast address	239.1.0.2	2002	<input type="checkbox"/> Audio	<input type="checkbox"/> Enable

Multicast address: the multicast IP address of Main Stream/Sub Stream/Third Stream ranges from 224.0.0.0 to 239.255.255.255.

Port: Main stream:2000; sub stream:2001; third stream:2002

Main stream: The address format is “udp://@IP address: main stream port.”

Sub stream: The address format is “udp://@IP address: sub stream port.”

Third stream: The address format is “udp://@IP address: third stream port.”

Audio: if enabled, the video and audio will play automatically.

For example: you can test the TS multicast by using a VLC player. Enter the TS multicast address (eg. udp://@239.1.0.1:2001) in a VLC player.

Note: The TS multicast user also will be counted as an online user. You can go to Config→Security→Online User to view.

3.6 Security Configuration

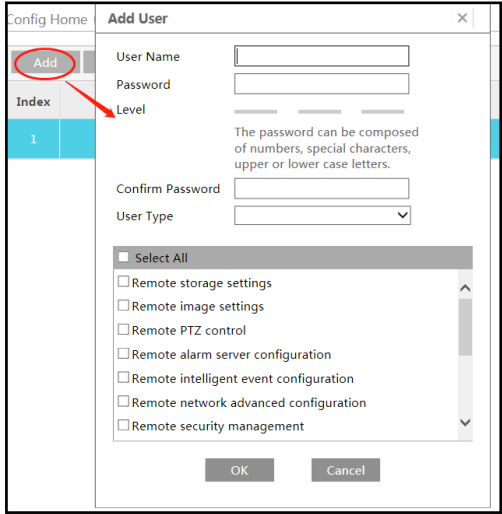
3.6.1 User Configuration

Go to Config→Security→User interface as shown below.

Add Modify Delete			
Index	User Name	User Type	Binding MAC
1	admin	Administrator	

Add user:

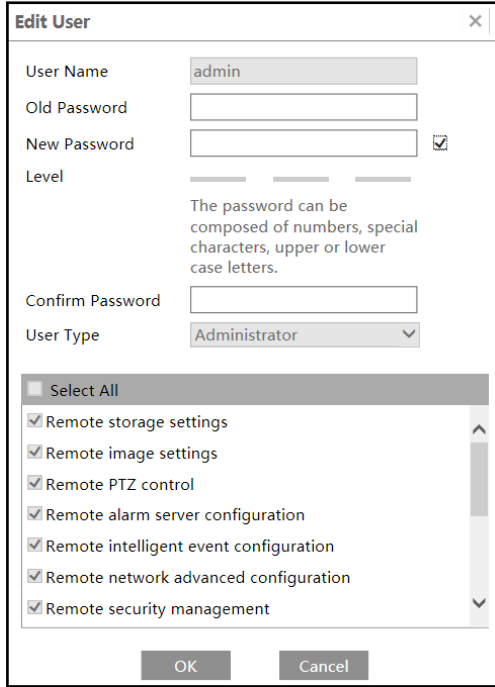
1. Click the “Add” button to pop up the following textbox.



2. Enter user name in the “User Name” textbox.
3. Enter the password in the “Password” and “Confirm Password” textbox. Please set the password according to the requirement of the password security level (Go to Config→Security→Security Management→Password Security interface to set the security level).
4. Choose the user type and select the desired user permissions.
5. Click the “OK” button and then the newly added user will be displayed in the user list.

Modify user:

1. Select a user to modify password if necessary in the user configuration list box.
2. The “Edit user” dialog box pops up by clicking the “Modify” button.



3. Enter the old password of the user in the “Old Password” text box.
4. Enter the new password in the “New password” and “Confirm Password” text box.
5. Select the user permissions for advanced or normal user.
6. Click the “OK” button to save the settings.

Note: When the password level is set to “Strong”, the password cannot be modified the same as the previous five.

Delete user:

1. Select the user to be deleted in the user configuration list box.
2. Click the “Delete” button to delete the user.

Note: The default administrator account cannot be deleted.

Safety Question Settings: set the questions and answers for admin so as to reset the password after you forget the password.

3.6.2 Online User

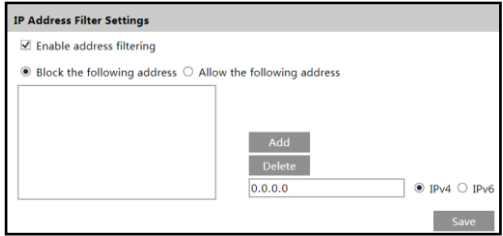
Go to Config→Security→Online User to view the user who is viewing the live video.

Index	Client Address	Port	User Name	User Type	
1	192.168.17.232	55760	admin	Administrator	Kick Out

An administrator user can kick out all the other users (including other administrators).

3.6.3 Block and Allow Lists

Go to Config→Security→Block and Allow Lists as shown below.



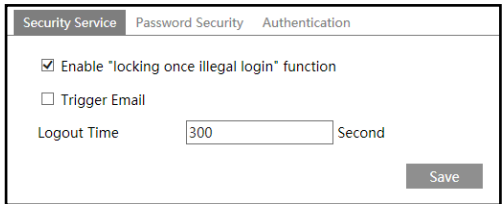
The setup steps are as follows:

Check the “Enable address filtering” check box.

Select “Block/Allow the following address”, IPv4/IPv6 and then enter IP address in the address box and click the “Add” button.

3.6.4 Security Management

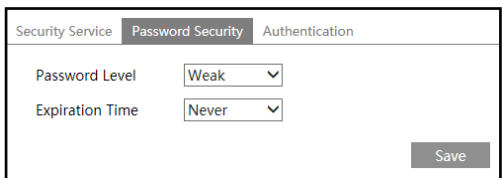
Go to Config→Security→Security Management as shown below.



In order to prevent against malicious password unlocking, “locking once illegal login” function can be enabled here. If this function is enabled, login failure after trying five times will make the login interface locked. The camera can be logged in again after a half hour or after the camera reboots.

Trigger Email: if enabled, e-mail will be sent when logging in/out or illegal login lock occurs.

- Password Security



Please set the password level and expiration time as needed.

Password Level: Weak, Medium or Strong.

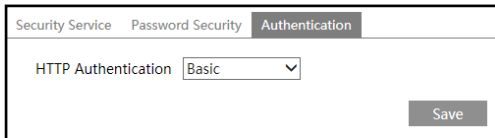
Weak level: Numbers, special characters, upper or lower case letters can be used. You can choose one of them or any combination of them when setting the password.

Medium Level: 8~16 characters, including at least two of the following categories: numbers, special characters, upper case letters and lower case letters.

Strong Level: 8~16 characters. Numbers, special characters, upper case letters and lower case letters must be included.

For your account security, it is recommended to set a strong password and change your password regularly.

HTTP Authentication: Basic or Token is selectable.

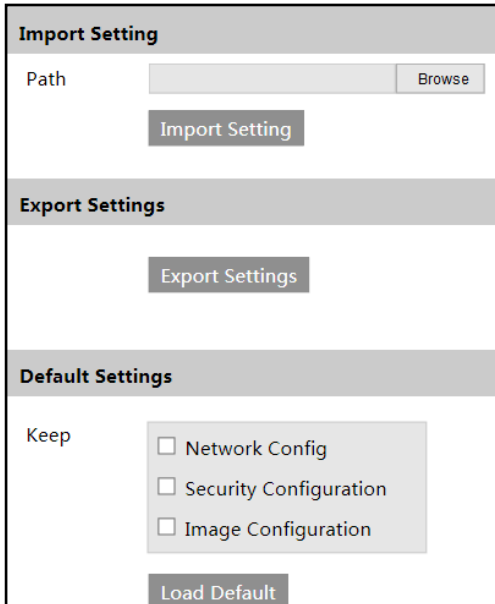


The screenshot shows a configuration interface with three tabs: "Security Service", "Password Security", and "Authentication". The "Authentication" tab is active. Below the tabs, there is a label "HTTP Authentication" followed by a dropdown menu currently set to "Basic". A "Save" button is located at the bottom right of the configuration area.

3.7 Maintenance Configuration

3.7.1 Backup and Restore

Go to Config→Maintenance→Backup & Restore.



The screenshot displays the "Backup and Restore" configuration page, organized into three main sections:

- Import Setting:** Includes a "Path" input field with a "Browse" button and an "Import Setting" button.
- Export Settings:** Includes an "Export Settings" button.
- Default Settings:** Includes a "Keep" section with three checkboxes: "Network Config", "Security Configuration", and "Image Configuration". Below this is a "Load Default" button.

● Import & Export Settings

Configuration settings of the camera can be exported from a camera into another camera.

1. Click “Browse” to select the save path for import or export information on the PC.
2. Click the “Import Setting” or “Export Setting” button.

Note: The login password needs to be entered after clicking the “Import Setting” button.

● Default Settings

Click the “Load Default” button and then verify the password to restore all system settings to the default factory settings except those you want to keep.

3.7.2 Reboot

Go to Config→Maintenance→Reboot.

Click the “Reboot” button and then enter the password to reboot the device.

Timed Reboot Setting:

If necessary, the camera can be set up to reboot on a time interval. Enable “Time Settings”, set the date and time, click the “Save” button and then enter the password to save the settings.

3.7.3 Upgrade

Go to Config→Maintenance→Upgrade. In this interface, the camera firmware can be updated.

1. Click the “Browse” button to select the save path of the upgrade file
2. Click the “Upgrade” button to start upgrading the firmware.
3. Enter the correct password and then the device will restart automatically

Caution:

1. Do not allow downgrading from the current version to the lower version.
2. Do not close the browser or disconnect the camera from the network during the upgrade, or it will cause system failure. After the device is successfully upgraded, there are ten minutes of observation. During this observation period, do not upgrade the device again.

Note: To decrease the upgrade risk, this series of cameras adopts two systems. After one system is successfully upgraded, the other system will be synchronized. If one system fails caused by power failure or other reasons during the upgrade, the other system will not be affected and the camera still can work normally. You can also upgrade your camera through the normal system.

3.7.4 Operation Log

To query and export log:

1. Go to Config→Maintenance→Operation Log.

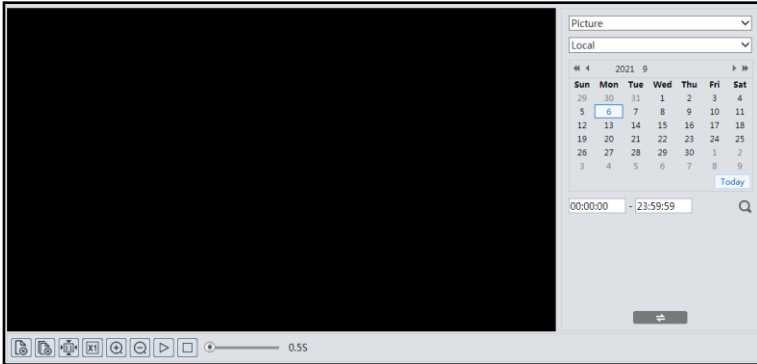
Main Type	Operation	Sub Type	Log in			
Start Time	2021-09-06 00:00:00	End Time	2021-09-06 23:59:59	Search	Export	
Index	Time	Main Type	Sub Type	User Name	Login IP	Hostname
1	2021-09-06 03:1...	Operation	Log in	admin	10.20.52.7	
2	2021-09-06 03:1...	Operation	Log in	admin	10.20.52.7	

2. Select the main type, sub type, start and end time.
3. Click “Search” to view the operation log.
4. Click “Export” to export the operation log.


4.1 Image Search

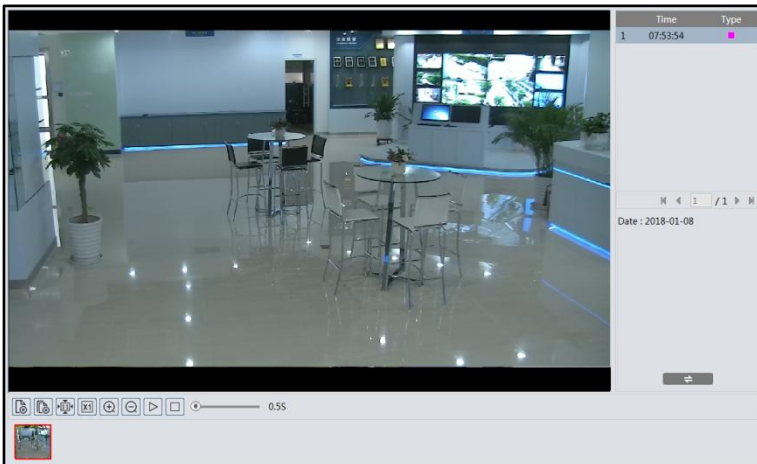
Click Search to go to the interface as shown below. Images that are saved on the SD card can be found here.


Note: When using the plug-in free browser, the local images cannot be searched.



● Local Image Search

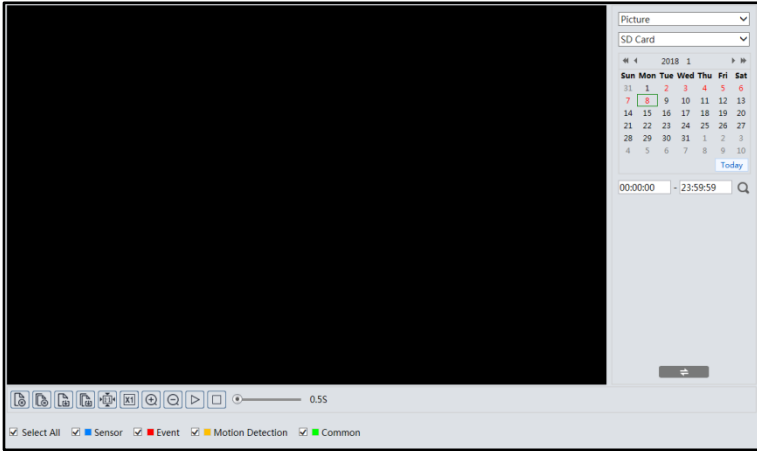
1. Choose “Picture”—“Local”.
2. Set time: Select date and choose the start and end time.
3. Click  to search the images.
4. Double click a file name in the list to view the captured photos as shown above.





Click  to return to the previous interface.

● **SD Card Image Search**











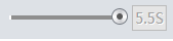
1. Choose “Picture”—“SD Card”.



2. Set time: Select date and choose the start and end time.
3. Choose the alarm events at the bottom of the interface.
4. Click  to search the images.
5. Double click a file name in the list to view the captured photos.

Click  to return to the previous interface.

The descriptions of the buttons are shown as follows.

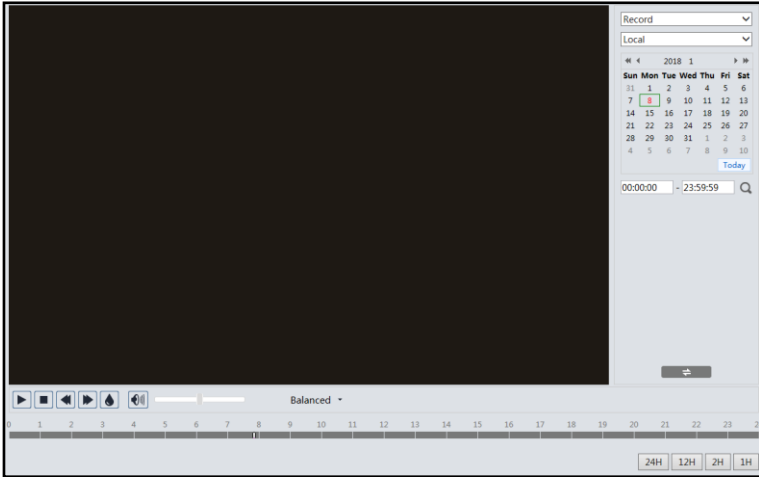
Icon	Description	Icon	Description
	Close: Select an image and click this button to close the image.		Close all: Click this button to close all images.
	Save: Click this button to select the path for saving the image on the PC.		Save all: Click this button to select the path for saving all pictures on the PC.
	Fit size: Click to fit the image on the screen.		Actual size: Click this button to display the actual size of the image.
	Zoom in: Click this button to digitally zoom in.		Zoom out: Click this button to digitally zoom out.
	Slide show play: Click this button to start the slide show mode.		Stop: Click this button to stop the slide show.
	Play speed: Play speed of the slide show.		


4.2 Video Search

4.2.1 Local Video Search








Click Search to go to the interface as shown below. Videos were recorded locally to the PC can be played in this interface.

Note: When using the plug-in free browser, the local videos cannot be searched.




1. Choose “Record”—“Local”.
2. Set search time: Select the date and choose the start and end time.
3. Click  to search the images.
4. Double click on a file name in the list to start playback.

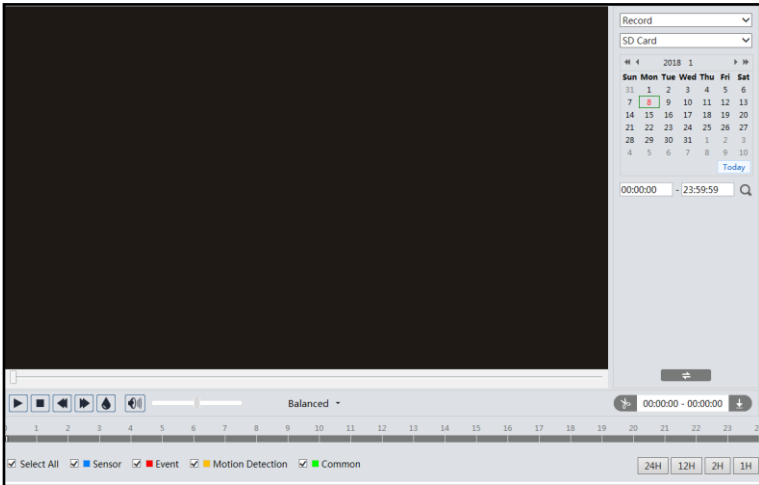


Icon	Description	Icon	Description
	Play button. After pausing the video, click this button to continue playing.		Pause button
	Stop button		Speed down
	Speed up		Watermark display
	Enable / disable audio; drag the slider to adjust the volume after enabling audio.		

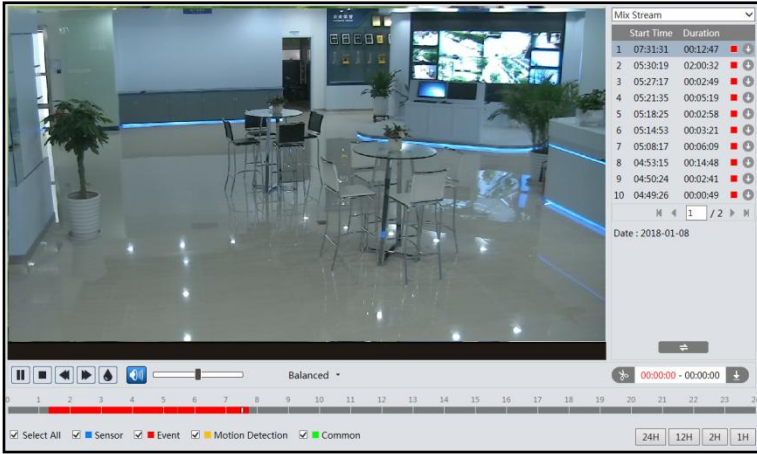
4.2.2 SD Card Video Search

Click Search to go to the interface as shown below. Videos that were recorded on the SD card can be played in this interface.

1. Choose “Record”—“SD Card”.
2. Set search time: Select the date and choose the start and end time.
3. Click  to search the images.



4. Select the alarm events at the bottom of the interface.
5. Select mix stream (video and audio stream) or video stream as needed.
6. Double click on a file name in the list to start playback.



Note: *1. and cannot be displayed in the above interface via the plug-in free browser.

*2. For plug-in free playback, playback mode switch (balanced/real-time/fluent mode) and downloading functions are not supported too.

*3. For the fluent playback, it is recommended to use the plug-in required browser to play the recorded file whose resolution exceeds 2MP.

The time table can be shown in 24H/12H/2H/1H format by clicking the corresponding buttons.

Video clip and downloading

1. Search the video files according to the above mentioned steps.
2. Select the start time by clicking on the time table.
3. Click to set the start time and then this button turns blue ().
4. Select the end time by clicking on the time table. Then click to set the end time.
5. Click to download the video file in the PC.

Index	Process	Record	Start Time	End Time	Path	Operate
1	100%	Cut	2018-01-16 01:1...	2018-01-16 01:1...	Favorites	Open

Set up D:\Favorites Clear List Close

- Click “Set up” to set the storage directory of the video files.
- Click “Open” to play the video.
- Click “Clear List” to clear the downloading list.
- Click “Close” to close the downloading window.

Appendix 1 Troubleshooting

How to find the password?

A: The password for *admin* can be reset through “Edit Safety Question” function.

Click “Forget Password” in the login window and then enter the corresponding answer of the selected question in the popup window. After you correctly answer all questions, you can reset the password for *admin*. If you forget the answer of the question, this way will be invalid, please contact your dealer for help.

B: The passwords of other users can be reset by *admin*.

Fail to connect devices through IE browser.

A: Network is not well connected. Check the connection and make sure it is connected well.

B: IP address is not available. Reset the IP address.

C: Web port number has been changed: contact administrator to get the correct port number.

D: Exclude the above reasons. Restore to default setting by IP-Tool.

E. When the battery capacity is 0%, the device cannot be started. So you cannot connect the device. It is suggested to check whether the battery is wearing out or the power cable is loose.

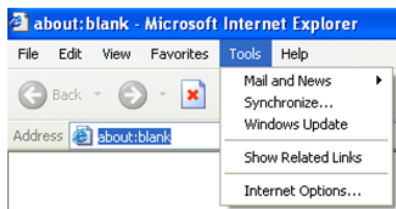
IP tool cannot search devices.

It may be caused by the anti-virus software in your computer. Please exit it and try to search device again.

IE cannot download ActiveX control.

A. IE browser may be set up to block ActiveX. Follow the steps below.

① Open IE browser and then click Tools-----Internet Options.

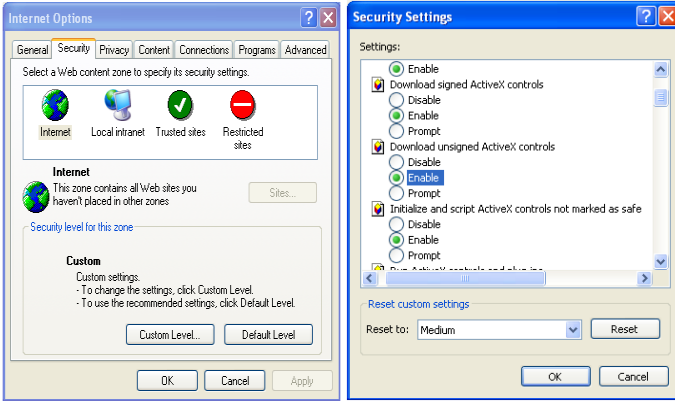


② Select Security-----Custom Level....

③ Enable all the options under “ActiveX controls and plug-ins”.

④ Click OK to finish setup.

B. Other plug-ins or anti-virus blocks ActiveX. Please uninstall or close them.



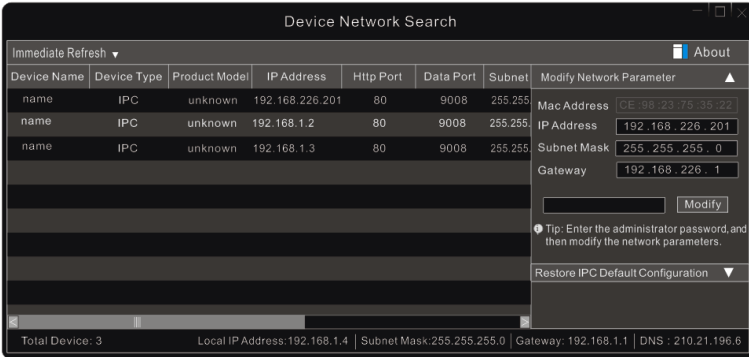
No sound can be heard.

A: Audio input device is not connected. Please connect and try again.

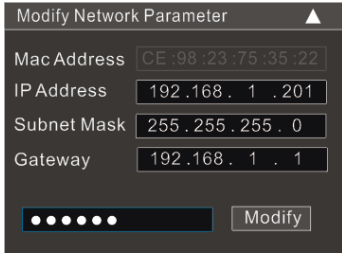
B: Audio function is not enabled at the corresponding channel. Please enable this function.

How to modify IP address through IP-Tool?

A: After you install the IP-Tool, run it as shown below.



The default IP address of this camera is 192.168.226.201. Click the information of the camera listed in the above table to show the network information on the right hand. Modify the IP address and gateway of the camera and make sure its network address is in the same local network segment as the computer's. Please modify the IP address of your device according to the practical situation.



For example, the IP address of your computer is 192.168.1.4. So the IP address of the camera shall be changed to 192.168.1.X. After modification, please enter the password of “admin” which is set in the device activation interface in advance and then click the “Modify” button to change the network parameters.

How to restore to factory default setting through IP-Tool?

A: Drag the slider at the bottom of the device list to the right and then the MAC address of the searched devices will be viewed. Find the MAC address of the IPC you want to restore to the factory default setting, click next to “Restore IPC Default Configuration” to expand the menu, then enter the MAC address and click “OK”. After that, manually reboot your camera within 30s. Then the camera will successfully restore to the factory default setting

