
Viewtron IP-C4 Wireless IP Camera






User Manual

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

Safety Instruction

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/2 A or POE 48V/ 350mA, no more than 2000m altitude of operation and Tma=60 Deg.C.
- As for the modes with PoE function, the function of the ITE being investigated to IEC 60950-1 standard is considered not likely to require connection to an Ethernet network with outside plant routing, including campus environment and the ITE is to be connected only to PoE networks without routing to the outside plant.
- 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 optic 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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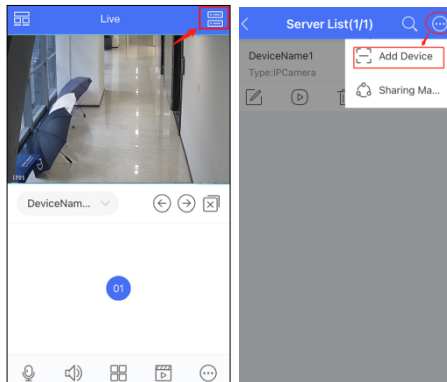
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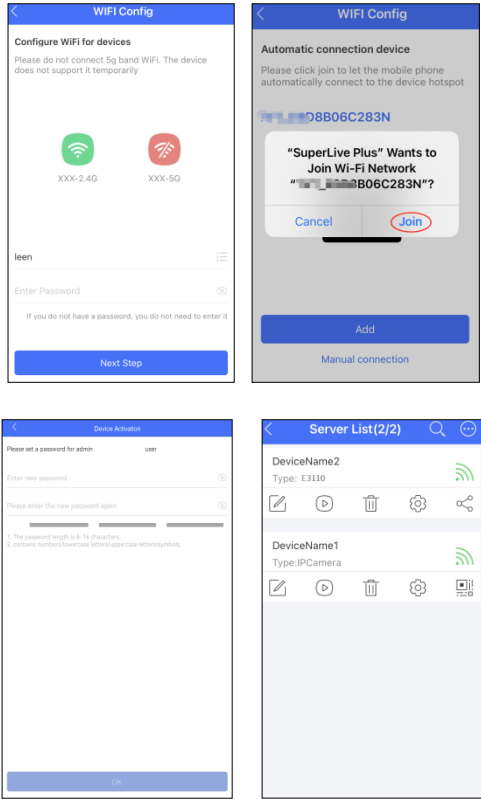
1 Network Connection

1.1 APP Connection

- ① Enable Wi-Fi network of your phone. Then scan the QR Code of the APP in the QSG (Quick Start Guide) or open your phone's APP store and search "Superlive Plus". Then install the mobile APP (Superlive Plus) in your phone.
- ② Run the mobile APP and then log in your account of the APP (if you don't register, please register and log in first). Then enter the server list interface of the APP.
- ③ Power on your device. Then tap "Add Device" in the server list interface of the APP. Scan the QR Code attached on the back of the device or the QR Code of the device in the QSG. After that, go to the Wi-Fi configuration interface by tapping "Add". When the indicator of the device is blue, check "Confirmed that..." and tap "Next Step".



- ④ Enter the key (or password) of the Wi-Fi network. Tap "Next Step". Then join the Wi-Fi network by tapping "Join" as shown below. After you activate the device, it will be automatically added to the server list.



Note: 1. When configuring the Wi-Fi network via the APP, (a). your mobile phone must be connected to the Wi-Fi network; (b). the device must be within the mobile phone signal covering area. **DO NOT** move your phone too far away with the device.

2. After the Wi-Fi of the device is successfully connected, you can use Wi-Fi or mobile web in your mobile phone as needed. However, if you want to remotely view the device video via mobile web, please make sure the wireless router/AP connected the device has been connected to the Ethernet.

1.2 Wired Network Connection

Here we take device access via Web browser for example.

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

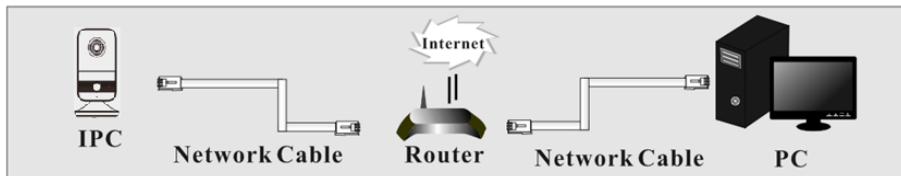
It is recommended to use the latest version of these web browsers.

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.

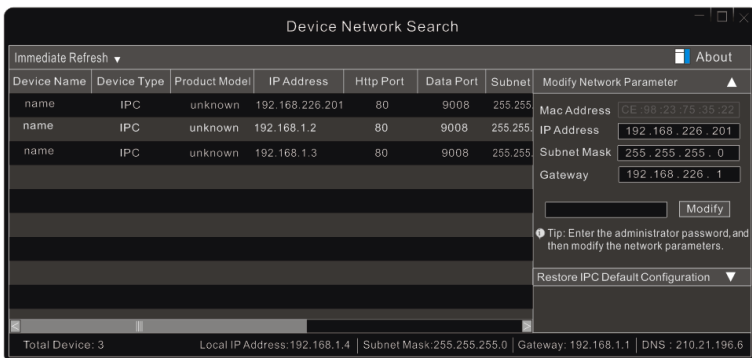
Connect IP-Cam via LAN or WAN. Here only take IE browser for example. The details are as follows:

1.2.1 Access through IP-Tool

Network connection:



- ① Make sure the PC and device are connected to the same local network and the IP-Tool is installed in the PC from the supplier.
- 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 open the IE browser to connect IP-CAM. After you read the privacy statement, check and click “Already Read”. This will bring you to a configuration wizard interface.
 - a. Select the location (eg. Britain). Then click [Next].
 - b. Set the zone, video format (frequency), date and time format.

Config	
Frequency	60HZ
Zone	GMT-05 (New York, Torc
Date Format	MM-DD-YYYY
Time Format	12-Hour
<input type="button" value="Back"/> <input type="button" value="Next"/>	

c. Activate the device.

Device Activation	
User Name	admin
	<input checked="" type="checkbox"/> Match Onvif Password
New Password	
	8~16 characters; Numbers, special characters, upper case letters and lower case letters must be included.
Confirm Password	
<input type="button" value="Back"/> <input type="button" value="Next"/>	

The default username is “admin” . Please self-define the password of admin according to the tip.

Note: It is highly recommended to use the strong password for your account security. If you want to change your password level, you can go to **Config** → **Security Management** → **Password Security** interface to change the level and then modify the admin password (Go to **Config** → **User**).

To change ONVIF password, you either have to check the “Match Onvif Password” box or go to the the ONVIF section to change the password (**Config** → **Network** → **Onvif**)
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.

4. Set security questions and answers.

After setting the questions and answers, click [Save] to save the settings. It is very important for you to reset your password. Please remember these answers.

Having set all above-mentioned items, the system will reboot. Read the privacy statement, check and click “Already Read”. Then the login interface will appear as shown below.

If it is the first time for you to log in, follow directions to download, install and run the Active X control if prompted.

Name:	<input type="text" value="admin"/>
Password:	<input type="password" value="....."/>
Stream Type:	<input type="text" value="1280x720 25fps"/> ▾
Language:	<input type="text" value="English"/> ▾
Forgot Password?	
<input type="button" value="Login"/>	

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

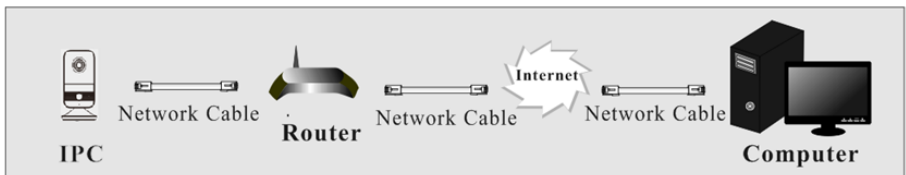
Stream Type: The plug-in free live view only supports 1080P or lower resolution.

If you forget the admin password, you can reset the password by clicking **Forgot 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.

After that, you can add your device to the APP. The steps are as follows:

- 1) Scan the QR Code of the APP in the QSG (Quick Start Guide) or open your phone's APP store and search "Superlive Plus". Then install the mobile APP (Superlive Plus) in your phone.
- 2) Run the mobile APP and then log in your account of the APP (if you don't register, please register and log in first). Then enter the server list interface of the APP.
- 3) Tap "Add Device" in the server list interface of the APP. Scan the QR Code (log in via web and then go to **Config** → Basic Information interface) to directly add the device to the server list of the APP.

1.2.2 WAN



To remotely access the device via Web, the setting steps are as follows:

- ① Make sure the camera is well connected via LAN and then log in the camera via LAN and go to Config→Network→Port menu to set the port number.

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"/>

Port Setup

- ② Go to Config →Network→TCP/IP menu to modify the IP address.

<input type="radio"/>	Obtain an IP address automatically
<input checked="" type="radio"/>	Use the following IP address
IP Address	<input type="text" value="192.168.226.201"/> <input type="button" value="Test"/>
Subnet Mask	<input type="text" value="255.255.0.0"/>
Gateway	<input type="text" value="192.168.1.1"/>
Preferred DNS Server	<input type="text" value="223.6.6.6"/>
Alternate DNS Server	<input type="text" value="192.168.0.5"/>

IP Setup

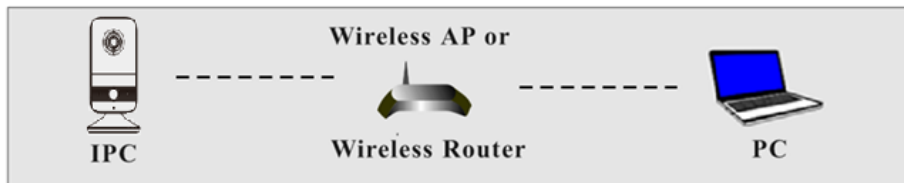
- ③ Go to the router's management interface through IE browser to forward the IP address and port of the camera in the "Virtual Server".

Port Range					
Application	Start	End	Protocol	IP Address	Enable
<input type="text" value="1"/>	<input type="text" value="9007"/>	to <input type="text" value="9008"/>	<input type="text" value="Both"/>	<input type="text" value="192.168.1.201"/>	<input checked="" type="checkbox"/>
<input type="text" value="2"/>	<input type="text" value="80"/>	to <input type="text" value="81"/>	<input type="text" value="Both"/>	<input type="text" value="192.168.1.201"/>	<input checked="" type="checkbox"/>
<input type="text" value="3"/>	<input type="text" value="10000"/>	to <input type="text" value="10001"/>	<input type="text" value="Both"/>	<input type="text" value="192.168.1.166"/>	<input type="checkbox"/>
<input type="text" value="4"/>	<input type="text" value="21000"/>	to <input type="text" value="21001"/>	<input type="text" value="Both"/>	<input type="text" value="192.168.1.166"/>	<input type="checkbox"/>

Router Setup

- ④ Open the IE browser and enter its WAN IP and http port to access. (for example, if the http port is changed to 81, please enter "192.198.1.201:81" in the address bar of web browser to access).

1.3 Wi-Fi Connection



- ① Use the network cable to connect the device and wireless router or AP.
- ② Connect to the above wireless network with your PC. Then run the IP-Tool on your PC and then find the device via its MAC address. Then double click it. This will bring you to the login interface of the camera. Enter the default username and password to log in. (See 1.2.1 for details)
- ③ Click Config→Network→WIFI to go to the following interface. Enable WI-FI, select the desired router, enter the key and select encryption type.

Enable

Wi-Fi Networks								Search
Index	SSID	Working Mode	Security Mode	Channel	Signal Intensity	Mbps	Connection Status	
1	HAMSA3	Manage	WPA2-personal	2	58	150	Unconnected	
2	APP-Test1	Manage	WPA2-personal	11	51	150	Unconnected	

Wi-Fi

SSID: Test

Security Mode:

Key 1

Encryption Type:

After that, select “Obtain an IP address automatically” or manually enter the IP address by clicking “Use the following IP address”. Then click “Save” to save the settings.

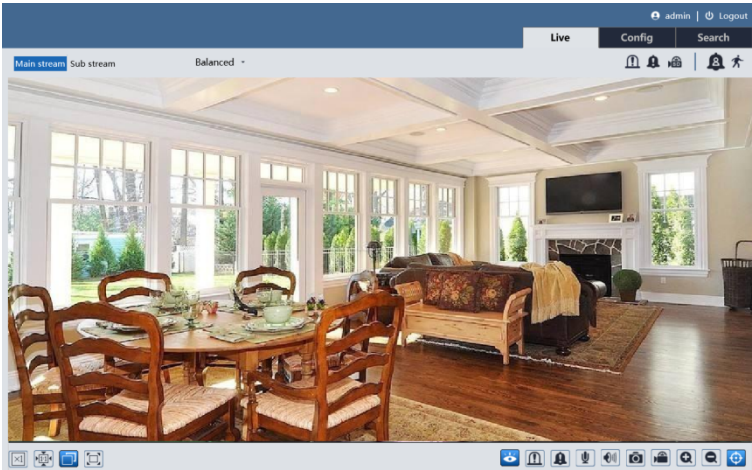
LAN	
<input checked="" type="radio"/>	Obtain an IP address automatically
<input type="radio"/>	Use the following IP address
IP Address	<input type="text" value="0.0.0.0"/>
Subnet Mask	<input type="text" value="0.0.0.0"/>
Gateway	<input type="text" value="0.0.0.0"/>
Preferred DNS Server	<input type="text" value="0.0.0.0"/>
Alternate DNS Server	<input type="text" value="0.0.0.0"/>

- ④ Pull the network cable out of the camera.
- ⑤ Run the IP-Tool and find the camera through IP address or MAC address. Then double click it listed in the IP-Tool or enter the IP address of the camera in the address bar of the web browser to access the camera.

After that, you can also use the downloaded APP to scan the QR code of the device to directly add it to the server list of the APP.

2 Live View via Web

After logging in, the following window will be shown.
The following pictures and descriptions are for reference only.



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

Icon	Description	Icon	Description
	Original size		Zoom out
	Fit correct scale		Rule information display
	Auto (fill the window)		SD card recording indicator
	Full screen		Sensor alarm indicator
	Start/stop live view		Motion alarm indicator
	Start/stop two-way audio		Color abnormal indicator
	Enable/disable audio		Abnormal clarity indicator
	Snapshot		Scene change indicator
	Enable or disable audio alarm		Alarm output indicator
	Enable/disable alarm output		Audio alarm indicator
	Start/stop local recording		PIR alarm indicator
	Zoom in		Person detection indicator

*Those smart alarm indicators will flash only when 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.

3 Configuration via Web


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	
Brand	Customer
Software Version	5.2.0.54571B240117.ID8.U1(05A07).beta
Software Build Date	2024-01-17
Onvif Version	23.06
OCX Version	5.2.0.202312211443
MAC	14:01:6f:c8:cb:f9
Device ID	ICBF906
Binding state	Unbound
S/N	020-0030
About this machine	View
Privacy Statement	View
	

After enabling the P2P function (*Config* → *Network* → *P2P*), you can use the mobile APP to scan this QRcode to quickly add this device.

3.1.2 Date and Time

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

Select the time zone and time mode as needed.

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.

Time Mode:

NTP: Specify an NTP server to synchronize the time.

Manual: Set the system time manually or you can synchronize the time with the time of the local computer.

Click the “Summer Time” tab to set DST (Daylight Saving Time) as needed.

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.

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
Total picture capacity	<input type="text" value="379 MB"/>	
Picture remaining space	<input type="text" value="379 MB"/>	
Total recording capacity	<input type="text" value="3329 MB"/>	
Record remaining space	<input type="text" value="2816 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="Eject"/> <input type="button" value="Format"/>		

● 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.

Management	Record	Snapshot	FTP Snapshot
Record Parameters			
Record Stream	<input type="text" value="Main stream"/>		
Pre Record Time	<input type="text" value="No Pre Record"/>		(H264,H265,MJPEG)
Cycle Write	<input type="text" value="Yes"/>		
Timing			
<input checked="" type="checkbox"/> Enable Schedule Record			

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.

Erase Add Manual Input Select All Invert Clear

Week Schedule

Sun. 00:00-24:00 Apply settings to Manual Input Select All Invert Clear

Mon. 00:00-24:00 Apply settings to Manual Input Select All Invert Clear

Tue. 00:00-24:00 Apply settings to Manual Input Select All Invert Clear

Wed. 00:00-24:00 Apply settings to Manual Input Select All Invert Clear

Thu. 00:00-24:00 Apply settings to Manual Input Select All Invert Clear

Fri. 00:00-24:00 Apply settings to Manual Input Select All Invert Clear

Sat. 00:00-24:00 Apply settings to Manual Input Select All Invert Clear

Holiday Schedule

Date(MM-DD) +

-

00:00-24:00 Apply settings to Manual Input Select All Invert Clear

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	FTP Snapshot
Snapshot Parameters			
Image Format	JPEG		
Resolution	704x480		
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](#)).

● FTP Snapshot

If enabled, the system will upload snapshots to the FTP server according to the time interval.

Management	Record	Snapshot	FTP Snapshot
<input checked="" type="checkbox"/> Enable Timing Snapshot			
Server Address	(No FTP)		
Snapshot Interval	60	Second	
<input type="button" value="Save"/>			

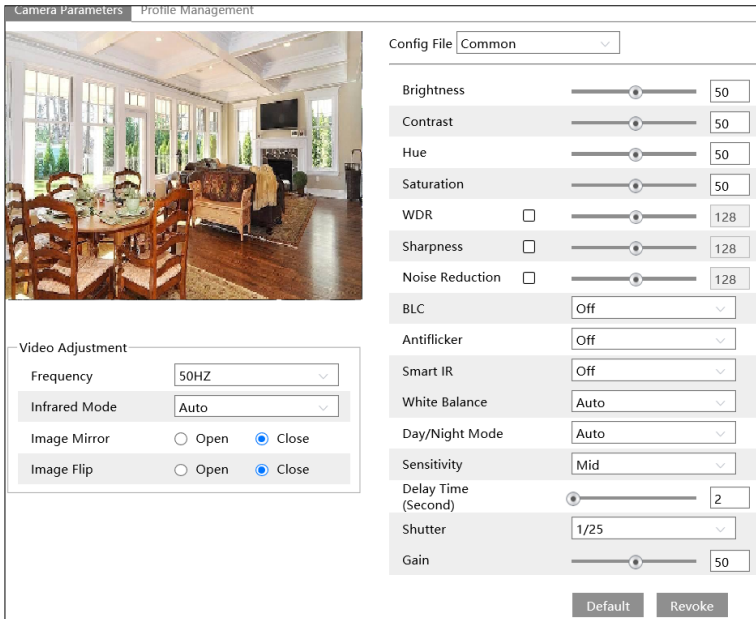
Server Address: select the set FTP server. See [FTP section](#) for the FTP server setting.

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.

WDR: 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.

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.
- 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.

Day/Night Mode: Choose “Auto”, “Day”, “Night” or “Timing”.

Shutter: Set the upper limit of the effective exposure time. The exposure time will be automatically adjusted (within the set shutter limit value) according to the actual situation.

Gain: Set the upper limit of the gain. The gain value will be automatically adjusted (within the set gain limit value) according to the actual situation.

Frequency: 50Hz and 60Hz can be optional.

Infra-red Mode: Choose “Auto”, “ON” or “OFF”.

Image Mirror: Turn the current video image horizontally.

Image Flip: Turn the current video image vertically.

Schedule Settings of Image Parameters:

Click the “Profile Management” tab as shown below.

The screenshot shows the 'Profile Management' tab selected. Under the 'Schedule' section, a dropdown menu is set to 'Full Time'. Below it, the 'Config File' dropdown is set to 'Common'. A 'Save' button is located at the bottom right of the form.

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

The screenshot shows the 'Schedule' dropdown set to 'Timing'. Below it is a 'Time Range' slider from 0:00 to 24:00. The slider shows a blue bar for 'Day' from 0:00 to 24:00 and a grey bar for 'Night' from 0:00 to 24:00. A 'Save' button is at the bottom right.

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.

Video		Audio							
Index	Stream Name	Resolution	Frame Rate	Bitrate Type	Bitrate(Kbps)	Video Quality	I Frame Interval	Video Compression	Profile
1	Main stream	2560x1440	25	CBR	4096	Medium	100	H264	High Profile
2	Sub stream	704x576	25	CBR	768	Medium	100	H264	High Profile

Send Snapshot Sub stream Size:(704x576)

Video encode slice split

Watermark(Only support H264, H265) Watermark content:

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.

Video		Audio
<input checked="" type="checkbox"/>	Enable	
Audio Encoding	G711A	
Audio Type	MIC	
Speaker	Auto	
MIC In Volume	75	
Audio Out Volume	75	

Audio Encoding: G711A and G711U are selectable.

Audio Type: MIC.


Speaker: Talkback, warning or auto can be optional. If “Talkback” is selected, the audio output will be used for two-way audio. If “Warning” is selected, the audio output will be used to play the pre-defined audio alarm. If “Auto” is selected, the system will output sound for two-way audio 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.

MIC In Volume: it ranges from 0~100. Please set as needed. (Only some models support MIC)

Audio Out Volume: This function is available for the model with audio out interface.

3.2.3 OSD Configuration

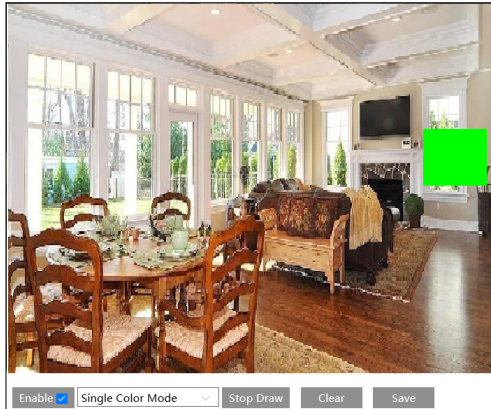
Go to **Image** → **OSD** interface as shown below.

	OSD Time Format	24-Hour
	OSD Date Format	YYYY-MM-DD
		<input checked="" type="checkbox"/> Show Timestamp
	Device Name	IPC
		<input checked="" type="checkbox"/> Show Device Name
	<input type="checkbox"/> OSD Content	
<input type="button" value="Save"/>		

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.

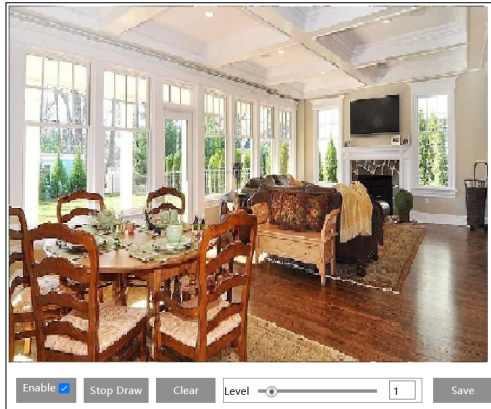


To clear the video mask:

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		3 Seconds
Trigger Alarm Out		
<input type="checkbox"/> Alarm Out		
<input type="checkbox"/> Trigger Audio Alarm		
<input checked="" type="checkbox"/> Trigger SD Card Snapshot		
<input checked="" type="checkbox"/> Trigger SD Card Recording		
<input type="checkbox"/> Trigger Email		
<input type="checkbox"/> Trigger FTP		
		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 interval time between the adjacent motion detections. 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.

Alarm Out: If selected, this would trigger an external relay output that is connected to the camera on detecting a motion based alarm.

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

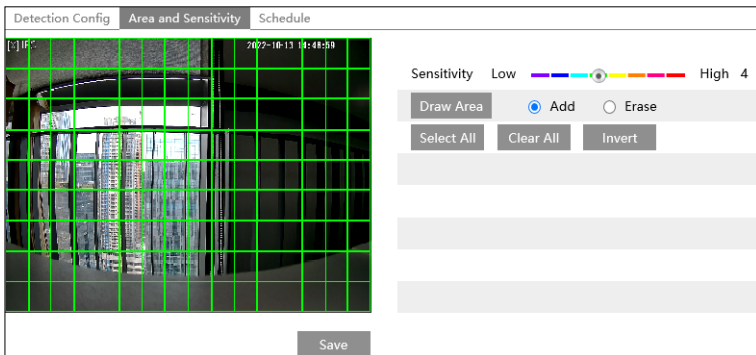
Trigger SD Card Snapshot: If selected, the system will capture images on motion detection and save the images on an SD card.

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](#) section 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.

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](#) section for

details.

● IP Address Conflict

1. Go to *Config* → *Alarm* → *Exception Alarm* → *IP Address Collision* as shown below.

2. Click “Enable” and set the alarm holding time.

3. Trigger alarm out. When the IP address of the camera is in conflict with the IP address of other devices, the system will trigger the alarm out.

● Cable Disconnection

1. Go to *Config* → *Alarm* → *Exception Alarm* → *Cable Disconnected* as shown below.

2. Click “Enable” and set the alarm holding time.

3. Trigger alarm out. When the camera is disconnected, the system will trigger the alarm out.

3.3.3 Alarm In

To set sensor alarm (alarm in):

Go to *Config* → *Alarm* → *Alarm In* interface as shown below.

Detection Config	Schedule
<input checked="" type="checkbox"/> Enable	
Alarm Type	NO
Sensor Name	<input type="text"/>
Alarm Holding Time	20 Seconds
Trigger Alarm Out	
<input type="checkbox"/> Alarm Out	
<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="checkbox"/> Day/night switch linkage	

1. Click “Enable” and set the alarm type, alarm holding time and sensor name.
2. Set alarm trigger options.

Day/night switch linkage: if enabled, the system will switch to day or night mode upon the occurrence of the sensor alarm.

Other 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 schedule of the sensor alarm. The setup steps of the schedule are the same as the schedule recording setup. (See [Schedule Recording](#)).

If there are two sensors, please select the sensor ID. Click “Apply settings to” to quickly apply the settings to the other alarm input.

3.3.4 Alarm Out

This function is only available for some models. Go to *Config* → *Alarm* → *Alarm Out*.

Alarm Out Mode	Alarm Linkage ▾
Alarm Out Name	alarmOut1
Alarm Holding Time	20 Seconds ▾
Alarm Type	NC ▾
<input type="button" value="Save"/>	

Alarm Out Mode: Alarm linkage, manual operation, day/night switch linkage and timing are optional.

Alarm Linkage: Having selected this mode, select alarm out name, alarm holding time at the “Alarm Holding Time” pull down list box and alarm type.

Manual Operation: Having selected this mode, select the alarm type and click “Open” to trigger the alarm out immediately; click “Close” to stop alarm.

Alarm Out Mode	Manual Operation ▾
Alarm Type	NC ▾
Manual Operation	<input type="button" value="Open"/> <input type="button" value="Close"/>
<input type="button" value="Save"/>	

Day/Night Switch Linkage: Having selected this mode, select the alarm type and then choose to open or close alarm out when the camera switches to day mode or night mode.

Alarm Out Mode	ight switch linkage ▾
Alarm Type	NC ▾
Day	Close ▾
Night	Close ▾
<input type="button" value="Save"/>	

Timing: Select the alarm type. Then click “Add” and drag the mouse on the timeline to set the schedule of alarm out; click “Erase” and drag the mouse on the timeline to erase the set time schedule. After this schedule is saved, the alarm out will be triggered in the specified time.

Alarm Out Mode	<input type="text" value="Timing"/>	
Alarm Type	<input type="text" value="NC"/>	
		<input type="radio"/> Erase <input checked="" type="radio"/> Add
Time Range	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 10:00-14:00	Manual Input
	<input type="button" value="Save"/>	



3.3.5 Alarm Server

Go to **Alarm** → **Alarm Server** interface as shown below.

Server Address	<input type="text" value="0.0.0.0"/>
Port	<input type="text" value="8010"/>
Heartbeat	<input type="text" value="Disable"/>
Heartbeat interval	<input type="text" value="30"/> Second
<input type="button" value="Edit"/>	

Click “Edit” to set the alarm server.

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.

Click  to view the entire server address; click  to hide a part of sensitive data.

3.3.6 Audio Alarm

Go to **Alarm** → **Audio Alarm** interface as shown below.

Enable audio alarm. If disabled, the camera will not play the desired warning voice even if an event triggers audio alarm. Additionally, you need to enable audio in the audio configuration interface and the speaker type should be “Warning” or “Auto”, or the warning voice cannot play too.

Sound configuration	Schedule
<input checked="" type="checkbox"/> Enable	
Voice Configuration	
Warning voice	<input type="text" value="English"/>
Voice	<input type="text" value="Squeaking voice"/> <input type="button" value="Listen"/>
Warning Times	<input type="text" value="5"/> times
Volume	<input type="range" value="100"/> <input type="button" value="100"/>
<input type="button" value="OK"/>	

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 and click “Listen” to listen to it. Click “Delete” to delete the audio.

The screenshot shows a web interface for sound configuration. At the top, there are two tabs: "Sound configuration" (selected) and "Schedule". Below the tabs, there is a checkbox labeled "Enable" which is checked. The "Voice Configuration" section includes a "Warning voice" dropdown menu set to "Customize", a "Voice" dropdown menu set to "Select" with "Listen" and "Delete" buttons, "Warning Times" set to "5" times, and a "Volume" slider set to "100". The "Upload Audio" section has an "Upload Path" field with a "Browse" button, an "Audio Name" field with an "Upload" button, and a tip: "Tips: audio format (WAV, 8000Hz, monophonic, 16bit, less than 200K)". The "Voice Record" section has a "Save Path" field with a "Browse" button, an "Audio Name" field, and a "Record Audio" slider set to "10" with "Start" and "Upload" buttons. An "OK" button is at the bottom.

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.

Note: The voice can be recorded only when you log in via IE browser.

② 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.

3.3.7 Person Detection

Alarms will be triggered when the camera detects a person. Go to Config→Alarm→Person Detection.

The screenshot shows a web interface for configuring detection settings. At the top, there are two tabs: "Detection Config" (selected) and "Schedule". Under "Detection Config", there is a checked checkbox for "Enable". Below it is a label "Alarm Holding Time" followed by a dropdown menu set to "5 Seconds". A section titled "Trigger Alarm Out" contains a list of checkboxes: "Alarm Out", "Trigger Audio Alarm", "Trigger SD Card Snapshot", "Trigger SD Card Recording", "Trigger Email", and "Trigger FTP". A "Save" button is located at the bottom right of the configuration area.

1. Enable person detection and then set the alarm holding time.
2. Set alarm trigger options. The setup steps are the same as motion detection. Please refer to motion detection section for details.
3. Set the schedule of person detection. The setup steps of schedule are the same as the schedule recording (See [Schedule Recording](#)).

3.3.8 PIR Alarm

PIR alarm: Alarms will be triggered when the camera detects human bodies or animals.

1. Enable PIR alarm and then set the alarm holding time.
2. Set alarm trigger options. The 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](#)).

Detection Config		Schedule
<input checked="" type="checkbox"/>	Enable	
Alarm Holding Time	20 Seconds	
Trigger Alarm Out		
<input type="checkbox"/>	Alarm Out	
<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	

3.4 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.

3.5 Network Configuration

3.5.1 TCP/IP

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

IPv4	IPv6	PPPoE Config	IP Change Notification Config
<input type="radio"/> Obtain an IP address automatically			
<input checked="" type="radio"/> Use the following IP address			
IP Address	<input type="text" value="192.168.226.201"/>	<input type="button" value="Test"/>	
Subnet Mask	<input type="text" value="255.255.255.0"/>		
Gateway	<input type="text" value="192.168.226.1"/>		
Preferred DNS Server	<input type="text" value="192.168.226.1"/>		
Alternate DNS Server	<input type="text" value="8.8.8.8"/>		
			<input type="button" value="Save"/>

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. Click “Edit”, enable PPPoE and then enter the user name and password from your ISP.

IPv4	IPv6	PPPoE Config	IP Change Notification Config
<input type="checkbox"/> Enable			
User Name	<input type="text"/>		
Password	<input type="text"/>		
			<input type="button" value="Edit"/>

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 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"/>

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.

3.5.3 Server Configuration

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

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

1. Click “Edit” and then check “Enable”.
2. Check the IP address and port of the transfer media server in the ECMS/NVMS. Then enable the auto report in the ECMS/NVMS when adding a new device. Next, enter the remaining information of the device in the ECMS/NVMS. After that, the system will automatically allot a device ID. Please check it in the ECMS/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. You can show or hide the sensitive data as needed.

3.5.4 Onvif

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

If “Match Onvif Password” is enabled in the device activation interface, the password of ONVIF admin user can be modified 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 modify the password of admin sperately in the following interface and add new users in the Onvif interface.

Index	User Name	User Type
1	admin	Administrator

Add User ×

User Name

Password

Level

The password can be composed of numbers, special characters, upper or lower case letters.

Confirm Password


User Type

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

3.5.5 DDNS

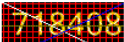
If the camera is set up with a DHCP connection, DDNS should be set for the internet.

1. Go to *Config* → *Network* → *DDNS*.

<input type="checkbox"/> Enable	
Server Type	www.dyndns.com
User Name	<input type="text"/>
Password	<input type="password"/>
Domain	<input type="text"/>
 <input type="button" value="Edit"/>	

2. Apply for a domain name. Take www.dvrddns.com for example.

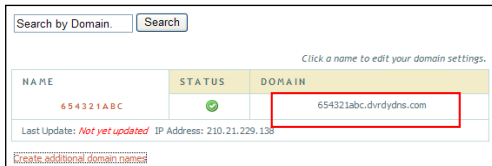
Enter www.dvrddns.com in the IE address bar to visit its website. Then Click the “Registration” button.

NEW USER REGISTRATION	
USER NAME	<input type="text" value="XXXX"/>
PASSWORD	<input type="password" value="•••••"/>
PASSWORD CONFIRM	<input type="password" value="•••••"/>
FIRST NAME	<input type="text" value="XXX"/>
LAST NAME	<input type="text" value="XXX"/>
SECURITY QUESTION.	My first phone number. ▾
ANSWER	<input type="text" value="XXXXXXXX"/>
CONFIRM YOU'RE HUMAN	 New Captcha <input type="text"/> Enter the text you see above
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Create domain name.

<i>You must create a domain name to continue.</i>	
<small>Domain name must start with (a-z, 0-9). Cannot end or start, but may contain a hyphen and is not case-sensitive.</small>	
<input type="text" value="www.dvrddns.com"/>	<input type="button" value="Request Domain"/>

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



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

3.5.6 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	public
Write SNMP Community	private
Trap Address	192. ***. ***. 201
Trap Port	162
Trap community	public
SNMP v3	
<input type="checkbox"/> Enable SNMPv3	
Read User Name	public
Security Level	auth, priv
Authentication Algorithm	<input checked="" type="radio"/> MD5 <input type="radio"/> SHA
Authentication Password	••••••••
Private-key Algorithm	<input checked="" type="radio"/> DES <input type="radio"/> AES
Private-key Algorithm	••••••••
Write User Name	private
Security Level	auth, priv
Authentication Algorithm	<input checked="" type="radio"/> MD5 <input type="radio"/> SHA
Authentication Password	••••••••
Private-key Algorithm	<input checked="" type="radio"/> DES <input type="radio"/> AES
Private-key Algorithm	••••••••
Other Settings	
SNMP Port	161
 <input type="button" value="Edit"/>	

- Click “Edit” and then check the corresponding version checkbox (Enable SNMPv1, Enable SNMPv2, Enable SNMPv3) according to the version of the SNMP software that will be used.
- 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.

3.5.7 802.1x

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

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.


Click “Edit” to start the setup.

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.

3.5.8 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		
Multicast address			
Main stream	239. ***. ***. 0	50554	<input type="checkbox"/> Automatic start
Sub stream	239. ***. ***. 1	51554	<input type="checkbox"/> Automatic start
Audio	239. ***. ***. 3	53554	<input type="checkbox"/> Automatic start
<input type="checkbox"/> Allow anonymous login (No username or password required)			
 <input type="button" value="Edit"/>			

Click “Edit” and then 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=mcast”.

Sub stream: The address format is

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

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=mcast) 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.

3.5.9 RTMP

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

Go to **Config** → **Network** → **RTMP**.

<input type="checkbox"/> Enable	
Stream Type:	<input checked="" type="radio"/> Main stream <input type="radio"/> Sub stream
Reconnect After Timeout	<input type="text" value="30"/> Second
Server Address	<input type="text" value="example: rtmp://127.***.***.1:1935/live"/>
Connection Status	<input type="button" value="Not Connected"/> <input type="button" value="Refresh"/>
	<input type="button" value="Edit"/>

Click “Edit” and then check “Enable”, select stream type and 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.

3.5.10 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.

3.5.11 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**.

Click “Edit and Test” to set the sender and the recipient.

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.

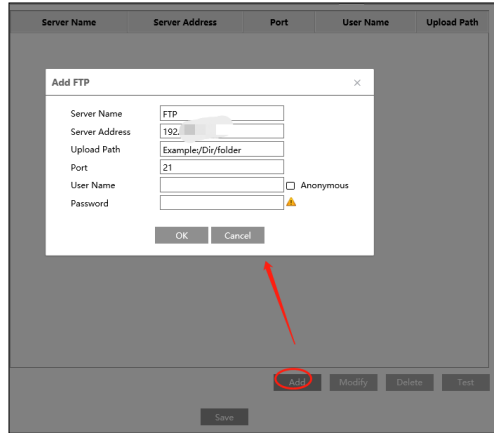
Click the “Test” button to test the connection of the account.

Recipient Address: receiver's e-mail address.

3.5.12 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 “Edit and Test” and then 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.

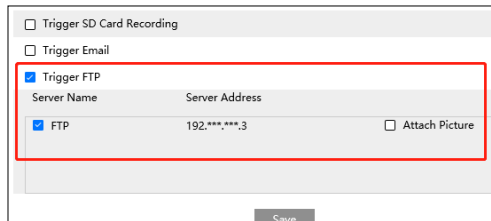
Server Address: The IP address or domain name of the FTP.

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.



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
SENSOR	Sensor Alarm
AVD	Video Exception
SDFULL	SD Full
SDERROR	SD Error
PERSON_DETECT	Person Detection
PIR	PIR Alarm

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

3.5.13 HTTP POST

Go to **Config** → **Network** → **HTTP POST** interface.

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

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 and so on.

3.5.14 HTTPS

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

Go to **Config** → **Network** → **HTTPS** as shown below.

The screenshot shows the HTTPS configuration page. The 'Enable' checkbox is checked. Below it, there is a 'Certificate installed' section with a text box containing 'C=US, ST=Some-State, O=embeddedssoftware' and a 'Delete' button. A 'Save' button is at the bottom.

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.

The screenshot shows the HTTPS configuration page with 'Enable' unchecked. The 'Installation type' section has three radio buttons: 'Have signed certificate, install directly' (selected), 'Create a private certificate', and 'Create a certificate request'. There is an 'Install certificate' field with a 'Browse' button and an 'Install' button. A 'Save' button is at the bottom.

* 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.

The screenshot shows the HTTPS configuration page with 'Enable' unchecked. The 'Installation type' section has three radio buttons: 'Have signed certificate, install directly', 'Create a private certificate' (selected), and 'Create a certificate request'. Below this is a 'Create a private certificate' section with a 'Create' button. A 'Save' button is at the bottom.

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.

<input type="checkbox"/> Enable		
Installation type	<input type="radio"/> Have signed certificate, install directly	
	<input type="radio"/> Create a private certificate	
	<input checked="" type="radio"/> Create a certificate request	
Create a certificate request	<input type="button" value="Create"/>	<input type="button" value="Download"/> <input type="button" value="Delete"/>
Install Created Certificate	<input type="text"/>	<input type="button" value="Browse"/> <input type="button" value="Install"/>
<input type="button" value="Save"/>		

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.

3.5.15 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	<input type="text" value="13"/>
Alarm DSCP	<input type="text" value="35"/>
Manager DSCP	<input type="text" value="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.

3.5.16 P2P

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

3.5.17 Wi-Fi Settings

Go to **Config** → **Network** → **WIFI** interface as shown below.

Enable

Wi-Fi Networks								Search
Index	SSID	Working Mode	Security Mode	Channel	Signal Intensity	Mbps	Connection Status	
1	HAMSA3	Manage	WPA2-personal	2	58	150	Unconnected	
2	APP-Test1	Manage	WPA2-personal	11	51	150	Unconnected	

Wi-Fi

SSID

Security Mode

Key 1

Encryption Type

1. Checkmark “Enable” to enable Wi-Fi. Click “Search” to refresh the online wireless devices.
2. Choose a wireless device on the list. The SSID and security mode of the wireless device will be shown automatically. Please don’t change it manually.
3. Enter the key to connect the wireless device. This key should be set on the wireless device in advance for wireless network connection.

After the above-mentioned wireless network is configured, you can choose “Obtain an IP address automatically” or “Use the following IP address”.

LAN

Obtain an IP address automatically

Use the following IP address

IP Address

Subnet Mask

Gateway

Preferred DNS Server

Alternate DNS Server

If you choose “Obtain an IP address automatically”, you shall get the IP address from the router. Or you can choose “Use the following IP address” to set the network parameters manually. Then you can use this IP address to log in mobile surveillance APP/ web client/CMS/NVR/...

3.6 Security Configuration

3.6.1 User Configuration

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

Add Modify Delete Security Question		
Index	User Name	User Type
1	admin	Administrator

Add user:

1. Click the “Add” button to display the following textbox.

Add User
×

User Name

Password

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

Confirm Password

User Type

Select All

- Remote storage settings
- Remote image settings
- Remote PTZ control
- Remote alarm server configuration
- Remote intelligent event configuration
- Remote network advanced configuration
- Remote security management
- Remote configuration backup and recovery

OK
Cancel

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. For admin, you can check “Match Onvif password” when modifying the password as needed.
6. Select the user permissions for advanced or normal user.
7. Click the “OK” button to save the settings.

Note: When the password level is set to “Strong”, the password cannot be set 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 screenshot shows the 'IP Address Filter Settings' configuration page. It includes a checkbox for 'Enable address filtering' which is checked. Below it, there are two radio buttons: 'Block the following address' (selected) and 'Allow the following address'. A large empty text area is provided for entering IP addresses. To the right of this area are 'Add' and 'Delete' buttons. Below the text area is an input field containing '0.0.0.0'. At the bottom right, there are radio buttons for 'IPv4' (selected) and 'IPv6', and a 'Save' button.

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.

The screenshot shows the 'Security Management' configuration page. It has three tabs: 'Security Service', 'Password Security', and 'Authentication'. Under the 'Security Service' tab, there is a checked checkbox for 'Enable 'Illegal Login Lockout' function'. Below it is an unchecked checkbox for 'Trigger Email'. There is a 'Logout Time' label followed by an input field containing '3600' and the word 'Second'. A 'Save' button is located at the bottom right.

In order to prevent against malicious password unlocking, “Illegal Login Lockout” 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

Security Service	Password Security	Authentication
Password Level	Weak	
Expiration Time	Never	
		Save

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.

Security Service	Password Security	Authentication
HTTP Authentication	Basic	
		Save

3.7 Maintenance Configuration

3.7.1 Backup and Restore

Go to *Config* → *Maintenance* → *Backup & Restore*.

The screenshot displays a web-based configuration interface for a camera. It is divided into four main sections, each with a corresponding button:

- Import Setting:** Contains a text input field labeled "Path" and a "Browse" button. Below the input field is an "Import Setting" button.
- Export Settings:** Contains an "Export Settings" button.
- Restore Default Parameters:** Contains a "Keep" label and a list of three checkboxes: "Network Config", "Security Configuration", and "Image Configuration". Below the list is a "Restore Default Parameters" button.
- Restore Factory Settings:** Contains a "Restore Factory Settings" 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.

● Restore Default Parameters

Click the "Restore Default Parameters" button and then verify the password to restore all parameters to the default parameters except those you want to keep.

● Restore Factory Settings

Click the "Restore Factory Settings" button and then verify the password to restore all system settings to the default factory settings.

3.7.2 Reboot

Go to *Config* → *Maintenance* → *Reboot*.

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

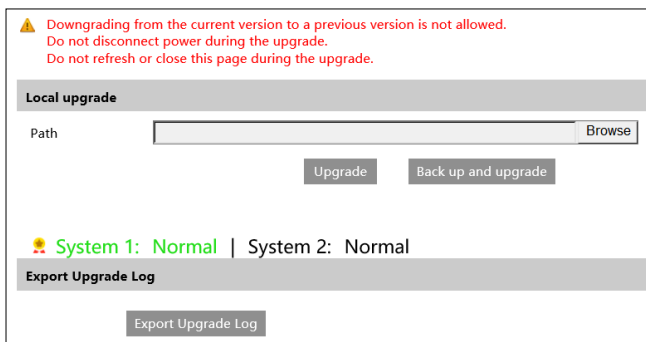
Timed Reboot Setting:

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” or “Back up and upgrade” button to start upgrading the firmware.
3. Enter the correct password and then the device will restart automatically.

Note: If “Back up and upgrade” is selected, the configuration file will be exported to your local PC before starting upgrading.

Caution:

1. Do not allow downgrading from the current version to the lower version.
2. Do not refresh/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.

Export Upgrade Log: If upgrade error occurs, the upgrade log can be exported to help the technician to analyze and solve the problem.

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.

3.7.5 Debug Mode

Debug Mode is used to record and collect the required system data, so that the technician can quickly find out and analyze the problem, and help us to improve service.

Before enabling the debug mode, you are advised to consult our technical support.

Open Debug Mode

Debug Level

If the SD card is used as a dump device, SD card related services cannot be used

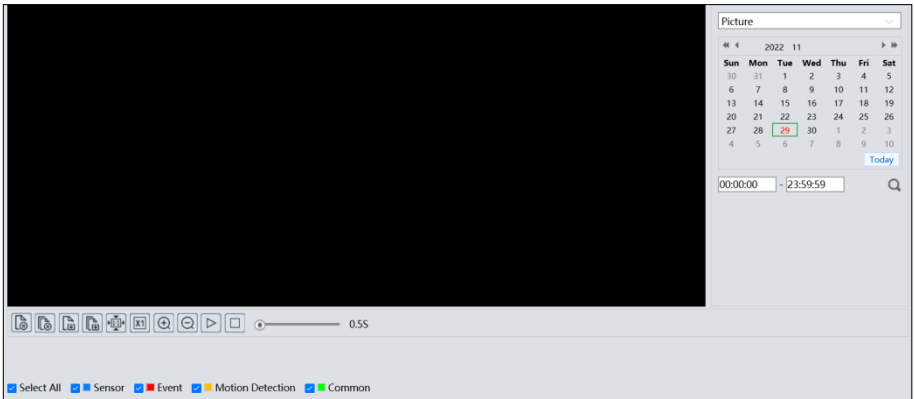
Note: Once the SD card is used to collect the system data, the SD card will not be used to store snapshots and recorded files. Only when you disable debug mode and format the SD card in the storage interface (*Config* → *System* → *Storage* → *Management*) after the device is rebooted, can the SD card be used to store snapshots and recorded files.


4.1 Image Search

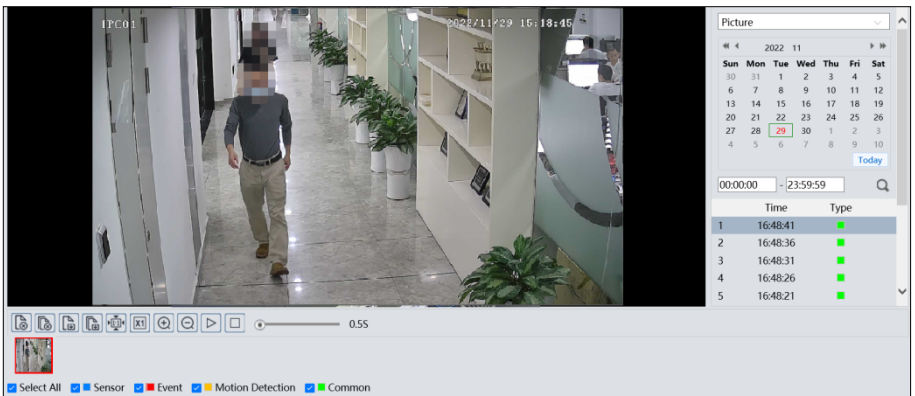
Click Search to go to the interface as shown below. Images that are saved on the SD card can be found here.

● SD Card Image Search

1. Choose “Picture”.



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.



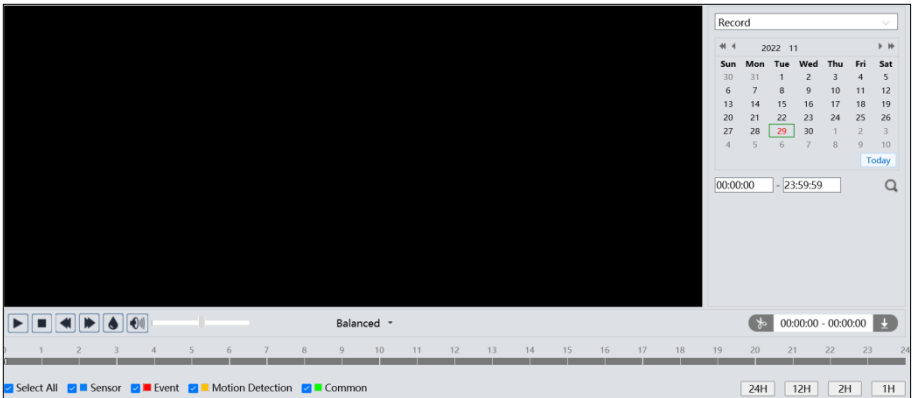
The descriptions of the buttons are shown as follows.

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.		

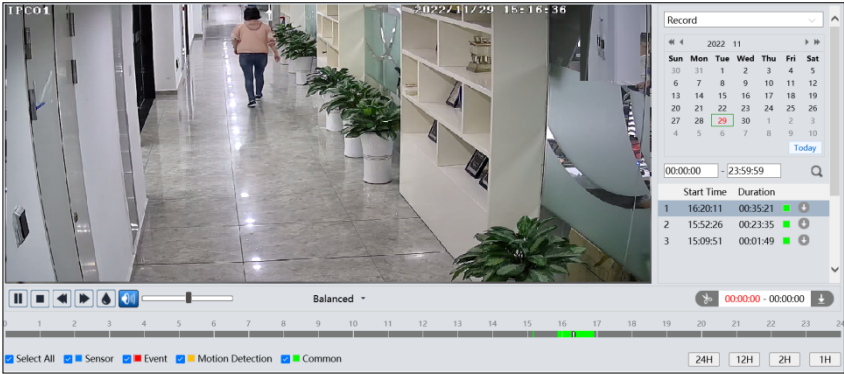
4.2 Video Search

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”.
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. 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.		

Note: and cannot be displayed in the above interface via the plug-in free browser. Additionally, for plug-in free playback, playback mode switch (balanced/real-time/fluent mode) and downloading functions are not supported too.

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 Type	Start Time	End Time	Path	Operate
1	Motion	Motion Detection	2022-10-13 11:00:31	2022-10-13 11:00:48	Record	<input type="button" value="Cancel"/>

Setting C:\Program Files\NetIPCamera\Record

Click “Setting” 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.

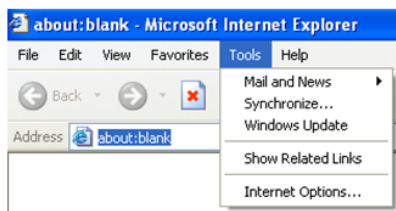
IP tool cannot search devices.

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.

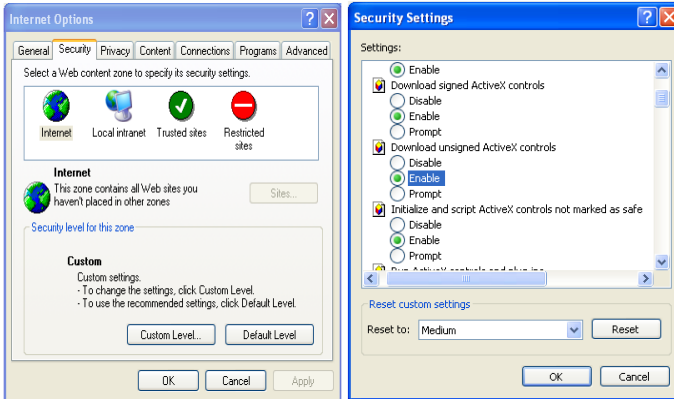


② Select Security-----Custom Level....

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.



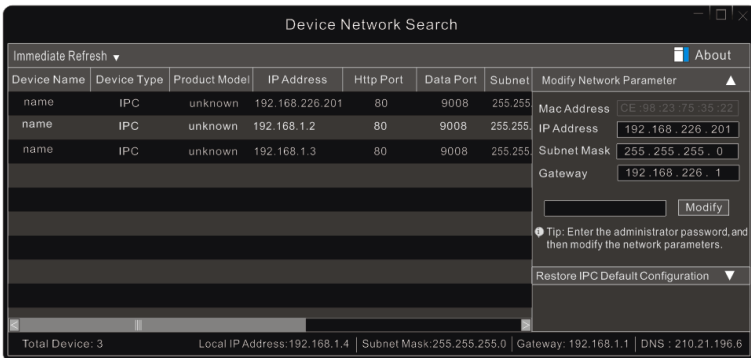
No sound can be heard.

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

Device Name	Device Type	Product Model	IP Address	Http Port	Data Port	Subnet
name	IPC	unknown	192.168.226.201	80	9008	255.255.255.0
name	IPC	unknown	192.168.1.2	80	9008	255.255.255.0
name	IPC	unknown	192.168.1.3	80	9008	255.255.255.0

When configuring the network through the APP for the first time, you cannot log in via web by manually entering the IP address.

A. If it happens, you can double click the device information listed in the IP Tool to open the web browser and then log in.