IP Cameras,

Smart series

User Manual

Please read this manual thoroughly before use and keep it for future reference

www.comelitgroup.com

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Passion. Technology. Design.

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Safety Instruction

This manual is intended to ensure that user can use the product properly without danger or any property loss. Please read it carefully and take care of it for further reference. Precaution measures are divided into “warnings” and “cautions” as below:

Warnings: Neglecting any of the warnings may cause death or serious injury.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

Warning Follow these safeguards to avoid death or serious injury	Caution Follow these precautions to Prevent potential injury or Property loss

Warning

- Electrical safety regulations of the nation and the region must be strictly followed during installation or use.
- Please use the matched power adapter.
- Do not connect multiple IPCs with one single power adapter (overload for adapter may lead to over-heat or fire hazard.
- Shutdown the power while connecting or dismounting the device. Do not operate with power ON.
- The device should be firmly fixed when installed onto the wall or the ceiling.
- Shutdown the power and unplug the power cable immediately when there is smoke, odor or noise rising from the IPC. Then contact the dealer or service center.
- Please contact the local dealer or latest service center when IPC works abnormally. Do not attempt to disassemble or modify the device yourself (we shall shoulder no responsibility for problems caused by unauthorized repair or maintenance).

Cautions

- Make sure the power supply voltage is correct before using the camera.
- Do not drop objects onto the device or vibrate the device vigorously and keep the device away from locations where magnetic interference is present. Avoid installing the device where the surface is vibrating or subject to shock (ignoring this may damage the device).
- Do not aim the camera lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the camera.
- Do not expose the IPC used indoors to places that may be exposed to rain or very humid.
- Store in a dry, non-corrosive atmosphere, away from direct sunlight, from poorly ventilated locations, from heat sources such as heaters (ignoring this may result in a fire hazard).
- To avoid IPC damage, do not place the IPC in a location where there is soot or water vapor, too high temperatures, or lots of dust.

- Do not touch the heat sink of the product directly to avoid burns.
- When cleaning, wipe off the dirt on the casing with a soft cloth. When cleaning the dirt, it should be cleaned with a dry cloth. When the dirt is not easy to remove, it can be wiped clean with a neutral detergent. Do not use alkaline cleaner to wash. If there is dust on the lens, use a special lens paper to wipe it.
- Products connected to the Internet may face network security problems. Please strengthen the protection of personal information and data security. When you find that the product may have a network security risk, please solve it in time.
- **Please understand that it is your responsibility to properly configure all passwords and other related product security settings, and keep your username and password in a safe place**.
- Please keep all the original packaging materials of the product properly, so that when there is a problem, use the packaging materials to package the product and send it to the dealer.

(Note: Full-text network camera is referred to as IPC for short)

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Chapter 1 - Product Introduction

1.1 Product Features

This section introduces the IPC features, allowing you to become more familiar with IPC.

- Video and snapshot functions

The network camera supports video recording and snapshot function.

- Mirror function

The network camera supports video horizontal, vertical and horizontal-vertical flip function.

- Day and night mode adjustment

The network camera supports Automatic, Day, and Night modes. In Auto mode, the camera automatically switches mode according to ambient light changes. In Day mode the picture is always in colour. In Night mode the picture is always in black and white.

- Electronic shutter function

Low-light electronic shutter. When you are in a low-light environment, you can set the low-light electronic shutter function, then the network camera shutter automatically slows down, by extending the exposure time, to get brighter, less noise images.

- Backlight compensation or Wide Dynamic Range function

When the backlight compensation function is turned ON, the network camera will automatically adjust the brightness of the target area to ensure that the image is clearly visible.
With Wide Dynamic Range ON, the network camera automatically balances the brightest and darkest scenes in the picture to see more details.

- Event functions

The network camera event includes motion detection, tampering, video loss, alarm input / output, etc.

- User management

You can manage multiple different users and configure different permissions for each user.

- Video playback

Support the micro-SD card for recording.

- Cloud storage function

The network camera supports the cloud storage function, to store the device's recording on the cloud.

Note

- **Network camera above product features depending on the specific model**, please check the technical parameters of your device!

Chapter 2 - Operating instructions

2.1 Network Connection

To view and configure the network camera over the network, you need to connect the IP camera to your computer and install Smart Search tool or Smart CMS software to search and change the IP of your network camera. You can download the tool and the software from our website https://www.comelitgroup.com

2.1.1 Wired network connection

Before configuring the network camera, make sure that the IP camera is connected to the computer and that you can access the network camera you want to set up. There are two types of wired connections; you can directly connect the network camera to the computer with a network cable as shown in figure 2-1:

Figure 2-1

You can connect the network camera over the LAN via a switch or a router as shown in figure 2-2:

Figure 2-2

2.2 Detecting and changing the IP address

To access the IP address of a network camera, proceed as follows:

Step 1: Search IPC IP address.

- Using the Smart Search tool, you can search all the online cameras in the LAN and display the IP, MAC address, version, port and other information, as shown in figure 2-3:

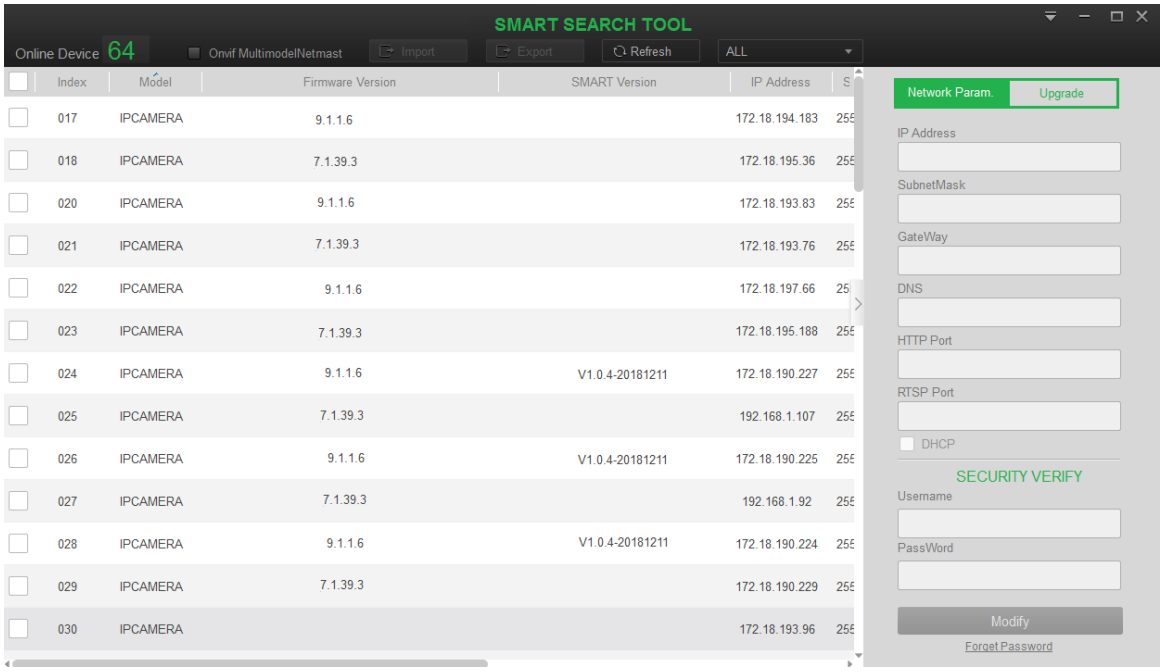


Figure 2-3

- Use the Smart CMS software to search for online devices.

Step 2： Change the IP address and subnet mask to the same subnet of your computer.

- In the Smart Search tool, select the device to modify the IP. In the right side of the interface You can modify the IP and gateway, enter the password. To save click "Modify".

Step 3： Open the browser, enter the IP address of the camera to enter into the web login screen.

Note:

- The **default IP** address is **192.168.1.150**, the port number is 80. The **default** administrator **username** is **admin**, the **default password** is **admin**. **You are highly recommended to "Modify" the initial password after the first login**.
- To access the IPC of different subnets, set the gateway of the network camera after login. For details, see 7.3.1.

2.3 Setting the Network Camera over the WAN

This section explains how to connect the network camera to the WAN with a static IP or a dynamic IP.

2.3.1 Static IP Connection

Before you start:

Please apply a static IP from an ISP (Internet Service Provider). With the static IP address, you can connect the network camera via a router or connect it to the WAN directly.

➢ **The router is connected to the network camera as shown in figure 2-4:**

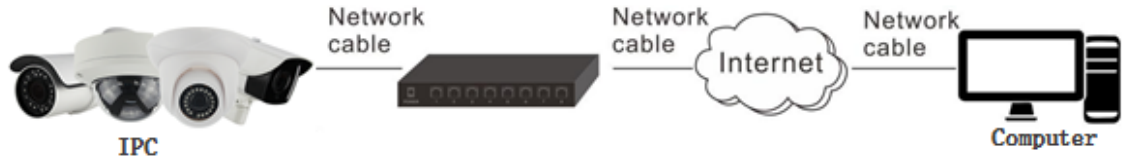


Figure 2-4

The steps are the follows:

Step 1: Connect the network camera to the router.

Step 2: Assign the IP address, the subnet mask and the gateway. For details, please refer to 7.3.1.

Step 3: Save the static IP in the router.

Step 4: Set port mapping, e.g., 80, 8000, and 554 ports. The steps for port mapping vary according to the different routers.

Step 5: Visit the network camera through a web browser or the software over the internet.

- **Directly through the static IP connection IPC, as shown in figure 2-5:**

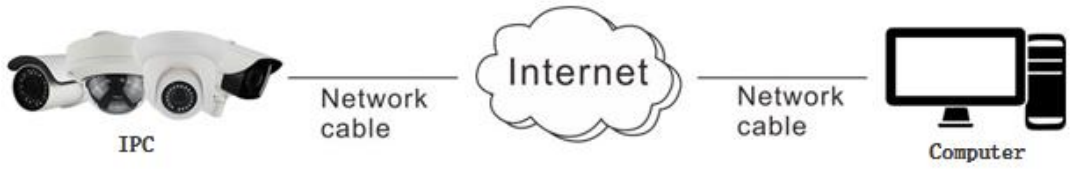


Figure 2-5

You can also save the static IP in the camera and directly connect it to the internet without using a router. For details, please refer to 7.3.1.

2.3.2 Dynamic IP Connection

Before you start:

Please apply a dynamic IP from an ISP. With the dynamic IP address, you can connect the network camera to a modem or a router.

- **The router is connected to the network camera**

The steps are the follows:

Step 1: Connect the network camera to the router.

Step 2: Assign the IP address, the subnet mask and the gateway. For details, please refer to 7.3.1.

Step 3: In the router, set the PPPoE username, password and confirm the password.

Step 4: Set port mapping, e.g., 80, 8000, and 554 ports. The steps for port mapping vary according to the different routers.

Step 5: Apply a domain name from a domain name provider.

Step 6: Configure the DDNS settings in the setting interface of the router.

Step 7: Visit the camera via the applied domain name.

Note:

- The obtained IP address is dynamically assigned via PPPoE, so the IP address always changes after rebooting the camera. To solve the inconvenience of the dynamic IP, you

need to get a domain name from the DDNS provider (e.g. comelitdns). Please follow the steps below for normal domain name resolution and private domain name resolution to solve the problem.

- **Normal Domain Name Resolution as shown in figure 2-6:**

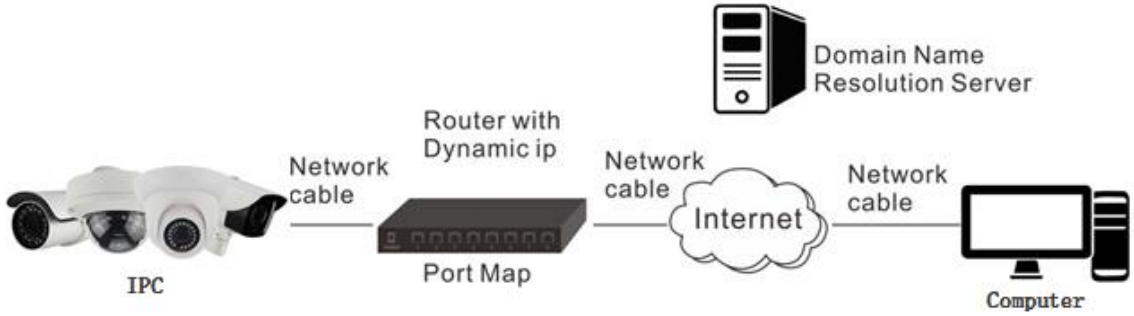


Figure 2-6

The steps are the follows:

Step 1: Apply a domain name from a domain name provider.

Step 2: Configure the DDNS settings in the DDNS Settings interface of the network camera. For details, please refer to 7.3.2.

Step 3: Visit the camera via the applied domain name.

Chapter 3 - Access to the IPC by Web Client

3.1 Install the HsWebplugin.exe controls

Note:

- If you have already modified the IP address of your network camera, please login with the new IP address.

Open the browser and input the IP address of IPC in the address bar (the **default address** is **192.168.1.150**). You will be prompted to download the plugin.

Click "Download". You can choose to "Run" or "Save" the file. Click” Next” to complete the installation as shown in figure 3-1 (1, 2, 3, 4, 5, and 6).

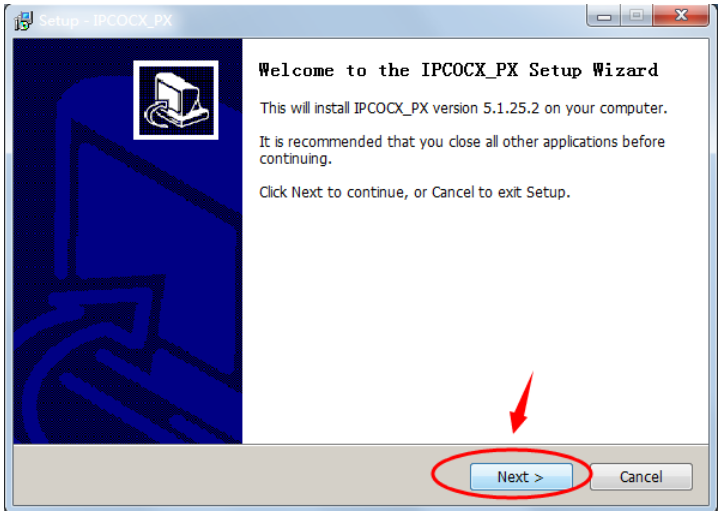


Figure 3-1 (1)

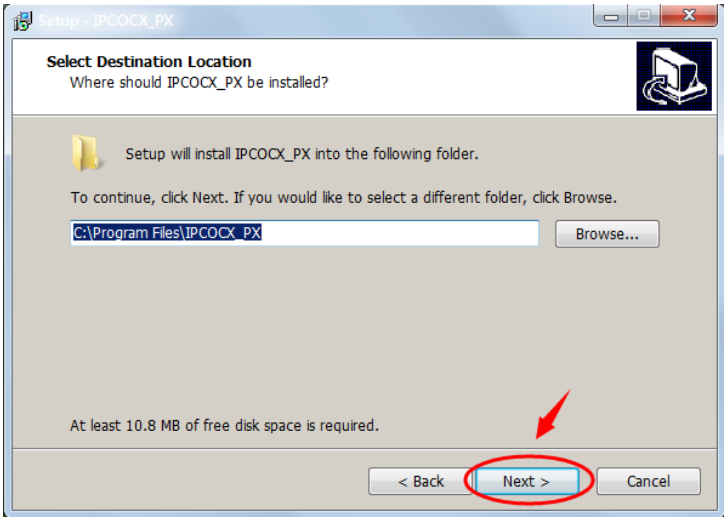


Figure 3-1 (2)

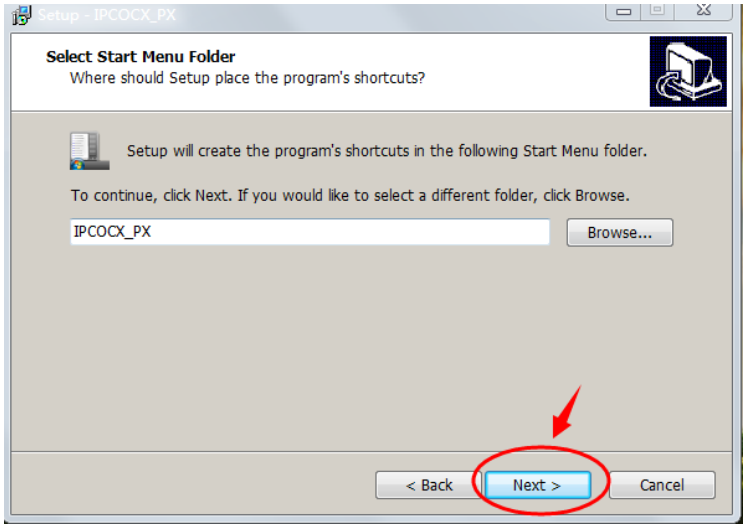


Figure 3-1 (3)

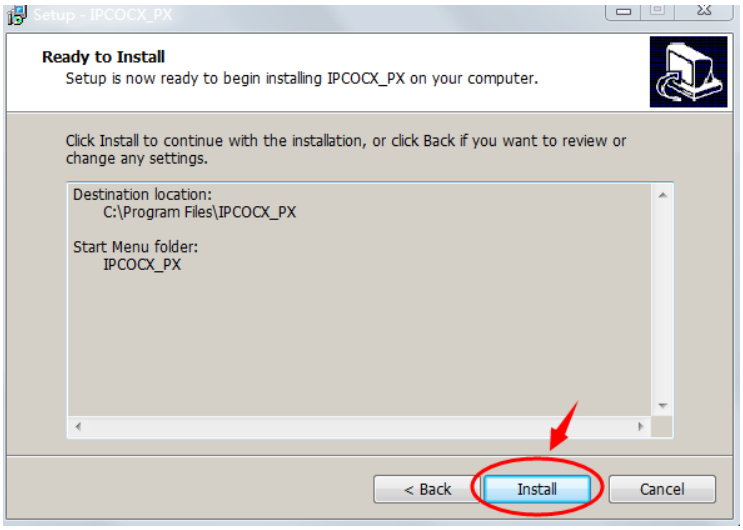


Figure 3-1 (4)

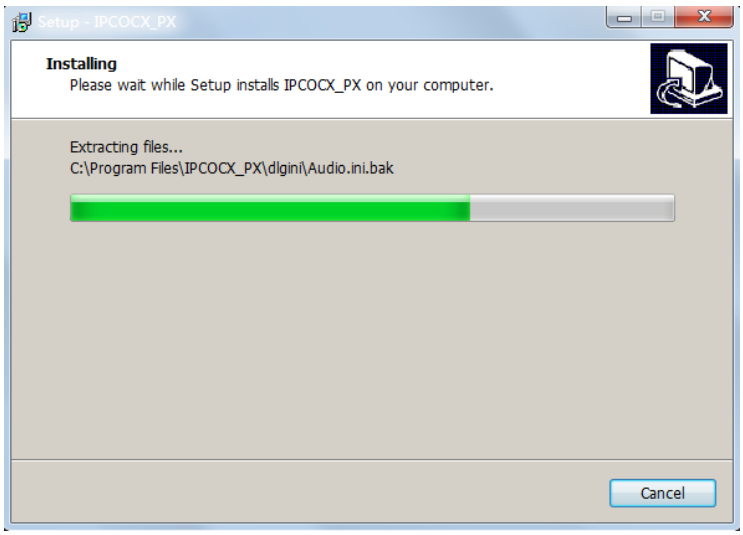


Figure 3-1 (5)

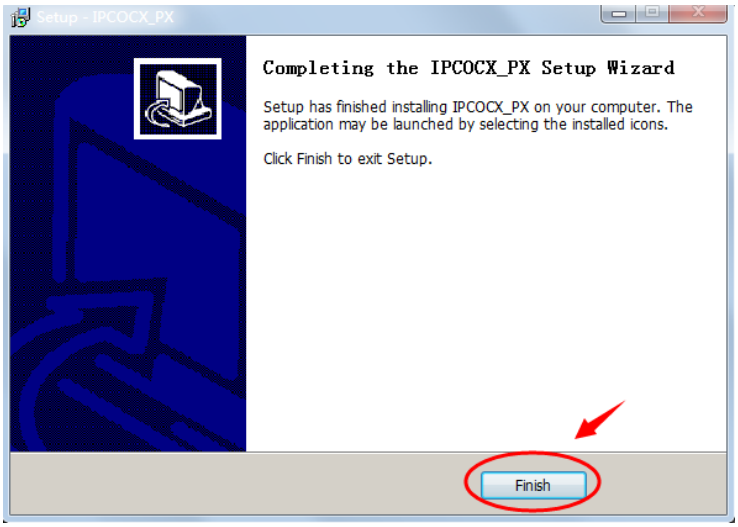


Figure 3-1 (6)

Click "Finish".

Notice

If the system prompt "installation failure", please uncheck "Enable Protected Mode" in the "Security" settings tab of "Internet options" and set the "Custom level" ActiveX control settings as show in Figure 3-2. Re-install HsWebplugin.exe and save settings.

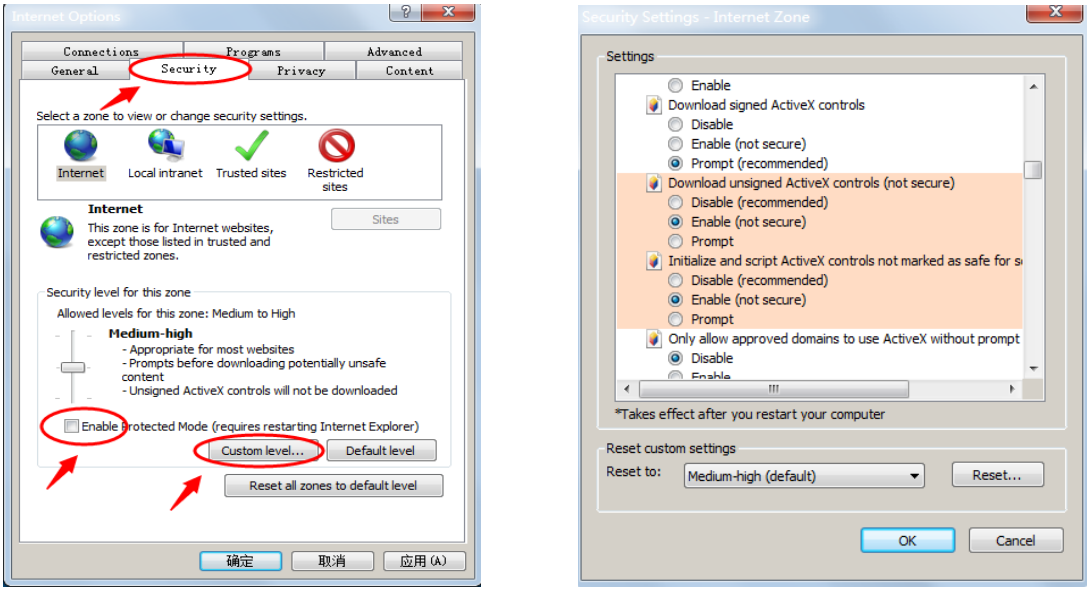


Figure 3-2

3.2. Interface operations and Usage:

3.2.1 Login

After installing the plug-in, refresh the browser interface; enter the login screen as shown in figure 3-3:

Figure 3-3

When you log in for the first time, enter the **default username**: **admin**, **default password**: **admin** and select the system language.

3.2.2 Change password

After successful login, the interface prompts to change the password, as shown in figure 3-4:

Figure 3-4

To increase the account security click "Modify ", enter the user interface to modify the password, as shown in figure 3-5:

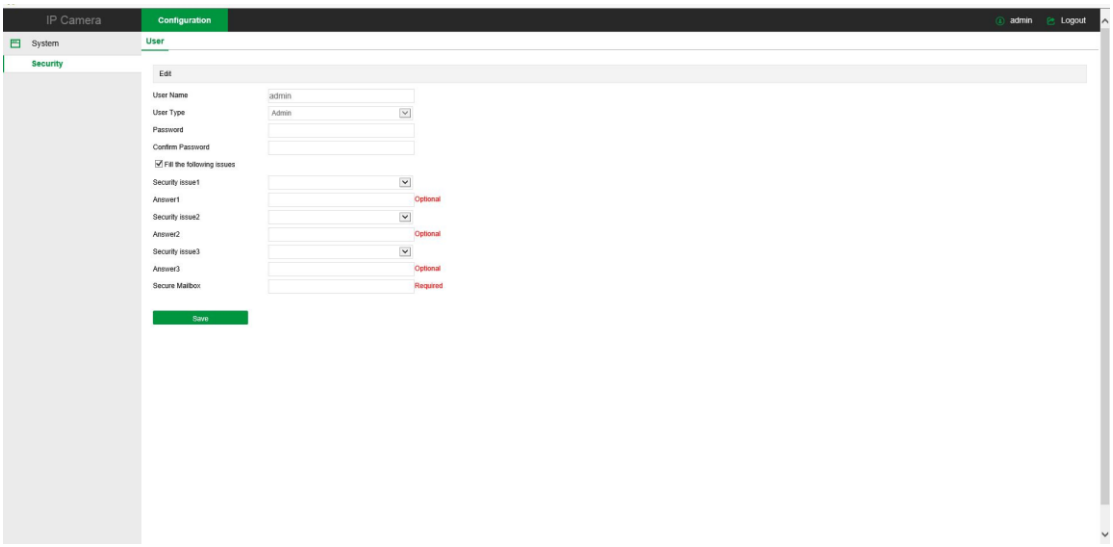


Figure 3-5

To change the password:

1: Enter the old password and enter the new password in the Password and Confirm Password fields;

2: Fill in the security issue1, 2，3 as needed, this item is optional, may not fill;

3: Click "Save" to complete the password modification.

Note:

- If the IPC password is the initial password “admin”, each time you login, you will be prompted to change the password. You can select “After 60 mins”. After 60 minutes, the interface will automatically pop up the password modification interface.
- When modifying the administrator password, after setting the security question, you can also click "Browse" to export the key file, so that you can reset the password when you forget it.
- After modifying the administrator password, when the PC and the device are on the same LAN segment, click Forgot Password to reset the password by answering the security question or importing the key.

3.2.3 Exit System

When you enter into the network camera main interface, you can click on the upper right corner Logout to exit.

3.3 Main interface description

In the IPC main interface, you can preview real-time video, playback, and configuration. functions, the interface shown in figure 3-6:

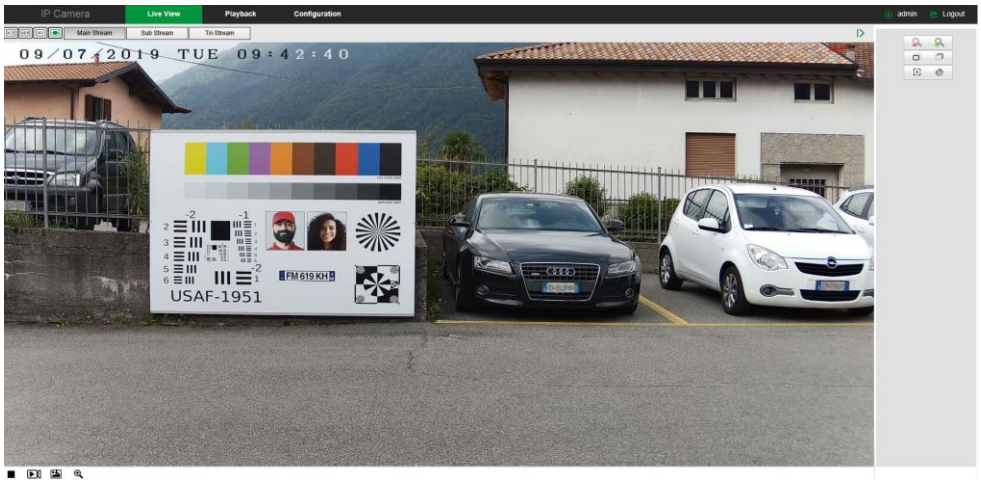


Figure 3-6

Live View. Screen preview. You can switch the video code stream and can also manage video, snapshot, electronic zoom and other functions.

Playback. Select the time and video type to find the record file.

Configuration. Click configuration to setup the parameters.

Chapter 4 - Live preview

4.1 Live preview

Click Live View to enter into the interface shown in figure 4-1:

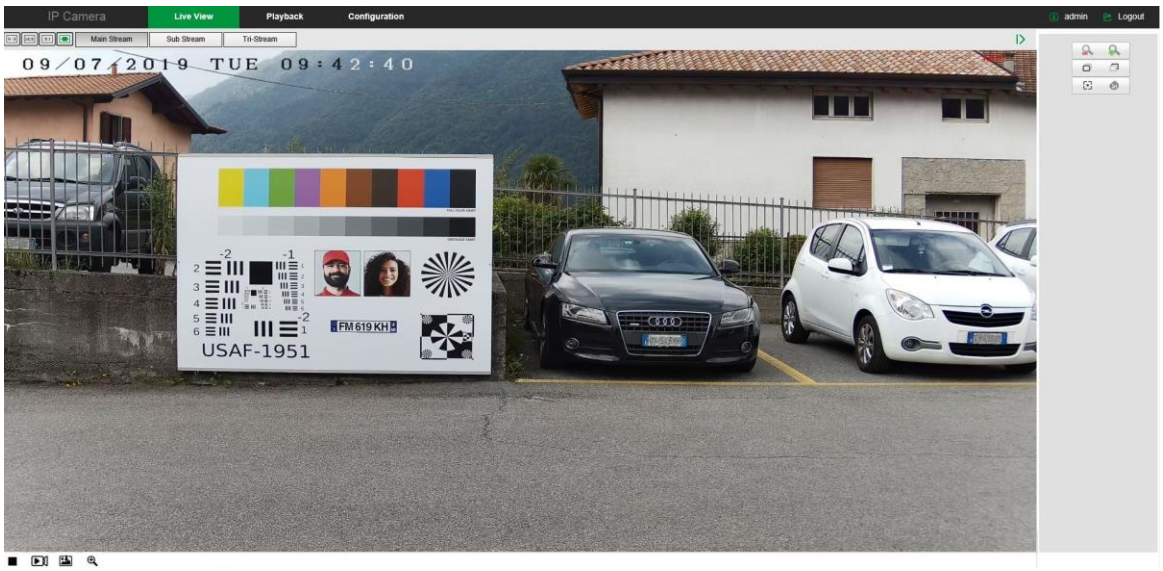


Figure 4-1

Switching window size. Click on the top left to change the ratio options (4:3, 16:9, X1, full screen).

Switching stream. In the upper left there is the stream switching option. Click "Main Stream", "Sub Stream" and "Tri-Stream" to change the preview video stream.

The preview interface operation buttons are shown in table 4-1.

Icon	Description
	The image is displayed in 4:3
	The image is displayed in its original size
	The image is displayed in 16:9.
	Self-adaptive window size
Main Stream/Sub Stream/Tri-stream	Real-time preview stream
	Start/Stop live view.
	Manual start/stop recording
	Manual screenshot

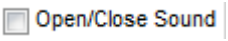
	Turn on / off the electronic zoom function. Click on the electronic zoom function and hold the left mouse button to select the electronic zoom area. The interface show the area selected
	Turn on/off audio
	Open / Close talk back

Table 4-1

Chapter 5 - Playback

In the main interface, click Playback to find the video recorded in the micro-SD card.

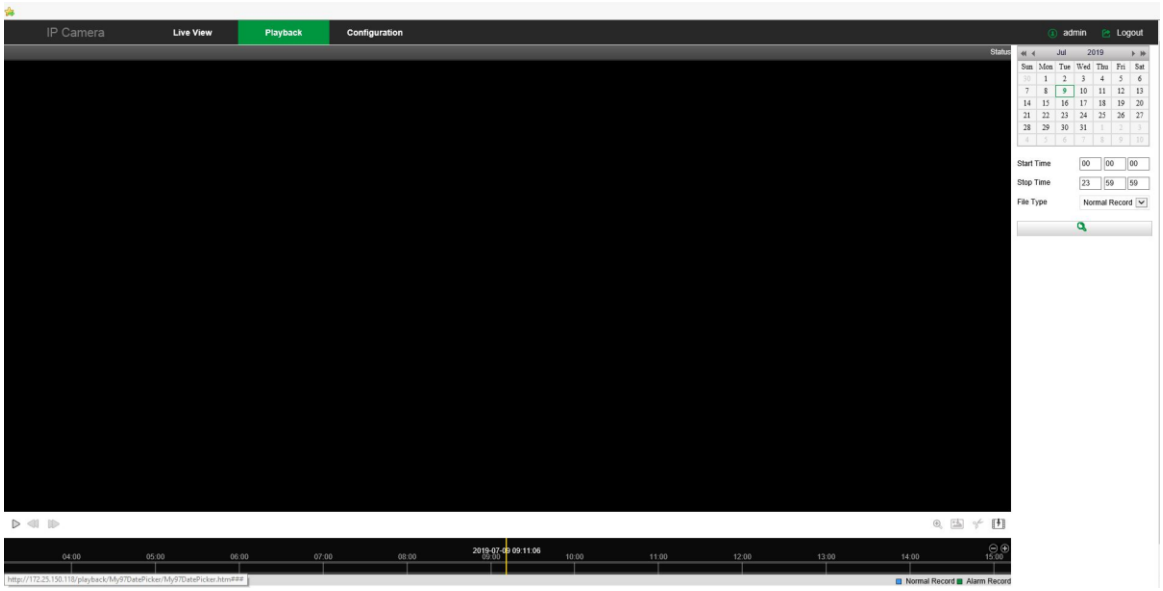


Figure 5-1

Here you can select the video type (normal, alarm) and the video time.

Video search. Select the day on the calendar, the start time, the end time, the file type (normal or alarm), and click .

Play/Stop. After searching for a video, click to start playing the video and click to stop playing the video.

Drag and drop. Hold the left mouse button on the time bar and drag it left and right to select the start playback point.

Fast Forward. Click to increase 2 times the speed of playback.

Slow Forward. In fast forward mode, click to speed back to normal.

Electronic zoom. Click , hold the left mouse button to select the electronic zoom area click to turn off the electronic zoom.

Screenshot. Click to capture the current playback screen image. An interface pops up the destination screenshot folder.

Video clip. Click to select the video clip starting point. Click to stop the video clip. An interface pops up the clip destination folder.

Audio. If the video file has audio, click during playback to turn on and off the feature. You can also adjust the volume.

Time bar zoom in. Click the button on the right side of the time bar to enlarge it.

Time bar zoom out. When the time bar is zoomed in, click the button to return to the standard time bar.

Video File Query and Download. Select the date in the calendar, the time period and the video type. Click on the right side of the window to pop up the video download interface. The interface will automatically search all the video files of the corresponding time range and video type, As shown in figure 5-2:

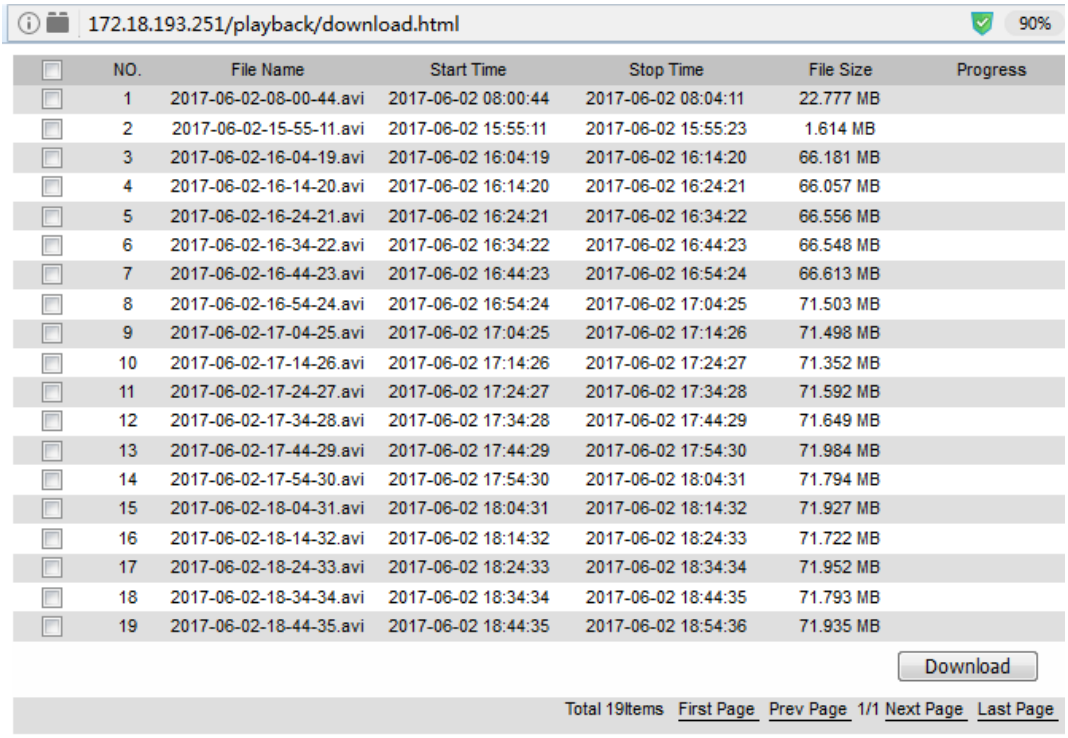


Figure 5-2

First Page. Click to return to the first page of the video file list.

Prev Page. Click to switch to the previous page.

Next Page. Click to switch the next page.

Last Page. Click to jump to the last page of the video file list.

Download. Select the file to download with and click the "Download" button.

Chapter 6 - Configuration

Click

in the main interface to enter into the local configuration interface. Here you can set the device system, network, video, images, events and other parameters.

6.1 Local Configuration

In the main interface, click "Configuration → Local Configuration" to enter into the interface, as shown in figure 6-1 below:

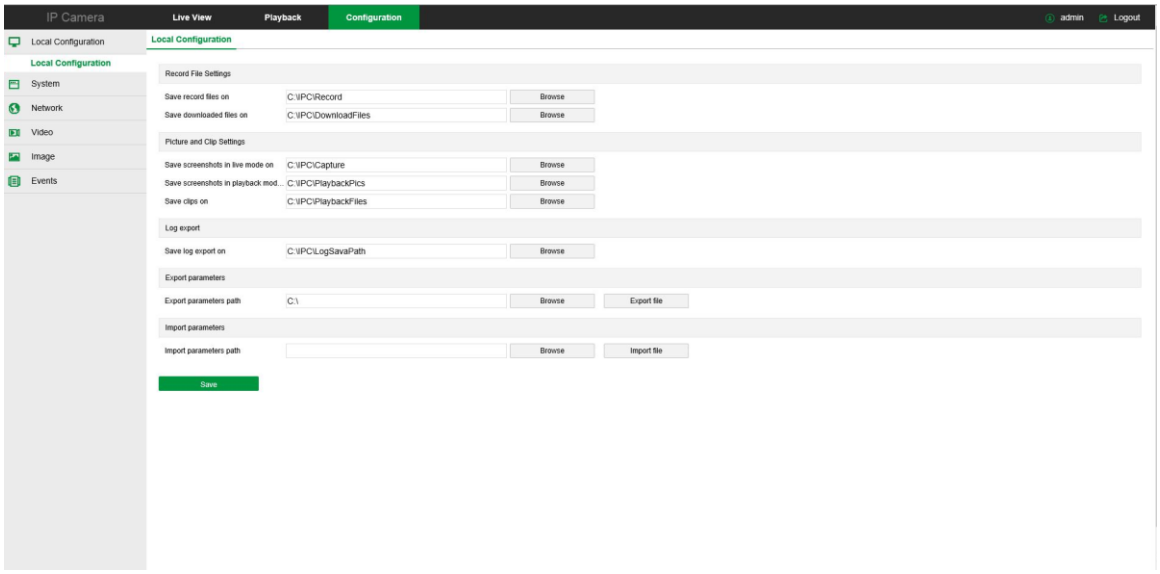


Figure 6-1

Record File Settings. Set the saving path of the recorded video files. Valid for the record files you recorded with the web browser.

Save record files on. Set the saving path for the manually recorded video files.

Save downloaded files on. Set the saving path for the downloaded video files in playback mode.

Picture and Clip Settings. Set the saving paths of the screenshots and clipped video files. Valid for the screenshots made on the web browser.

Save screenshots in live mode on. Set the saving path of the screenshots in live view mode.

Save screenshots in playback mode on. Set the saving path of the screenshots in playback mode.

Save clips on. Set the saving path of the clipped video files in playback mode.

Log export. Set the saving paths of the exported log.

Save log export on. Set the saving path of the exported log.

Export parameters.

Export parameters path. Set the storage path for IPC export parameters.

Import parameters.

Import parameters path. Set the storage path for the IPC import parameters.

6.2 System

In the main interface, click "Configuration → System" to enter into the interface.

6.2.1 System Configuration

In the main interface, click "Configuration → System → System Configuration" to enter into the interface.

Device Information

In the main interface, click "Configuration → System → System Configuration → Device Information" to enter into the interface, where you can view the basic information of the device, as shown in figure 6-2:

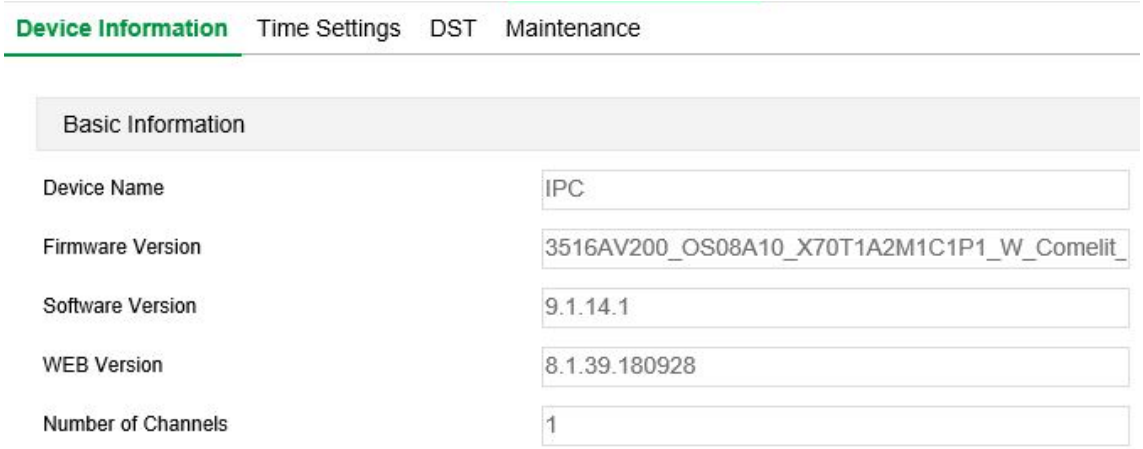


Figure 6-2

Device Name. Name of the IPC.

Firmware Version. Firmware version of the IPC.

Software Version. HsWebplugin.exe control version of the IPC.

WEB Version. Web page version of the IPC.

Number of Channels. The channels of the IPC, is 1.

Time Setting

In the main interface, click "Configuration → System → System Configuration → Time Settings" to enter into the interface, as shown in Figure 6-3 below:

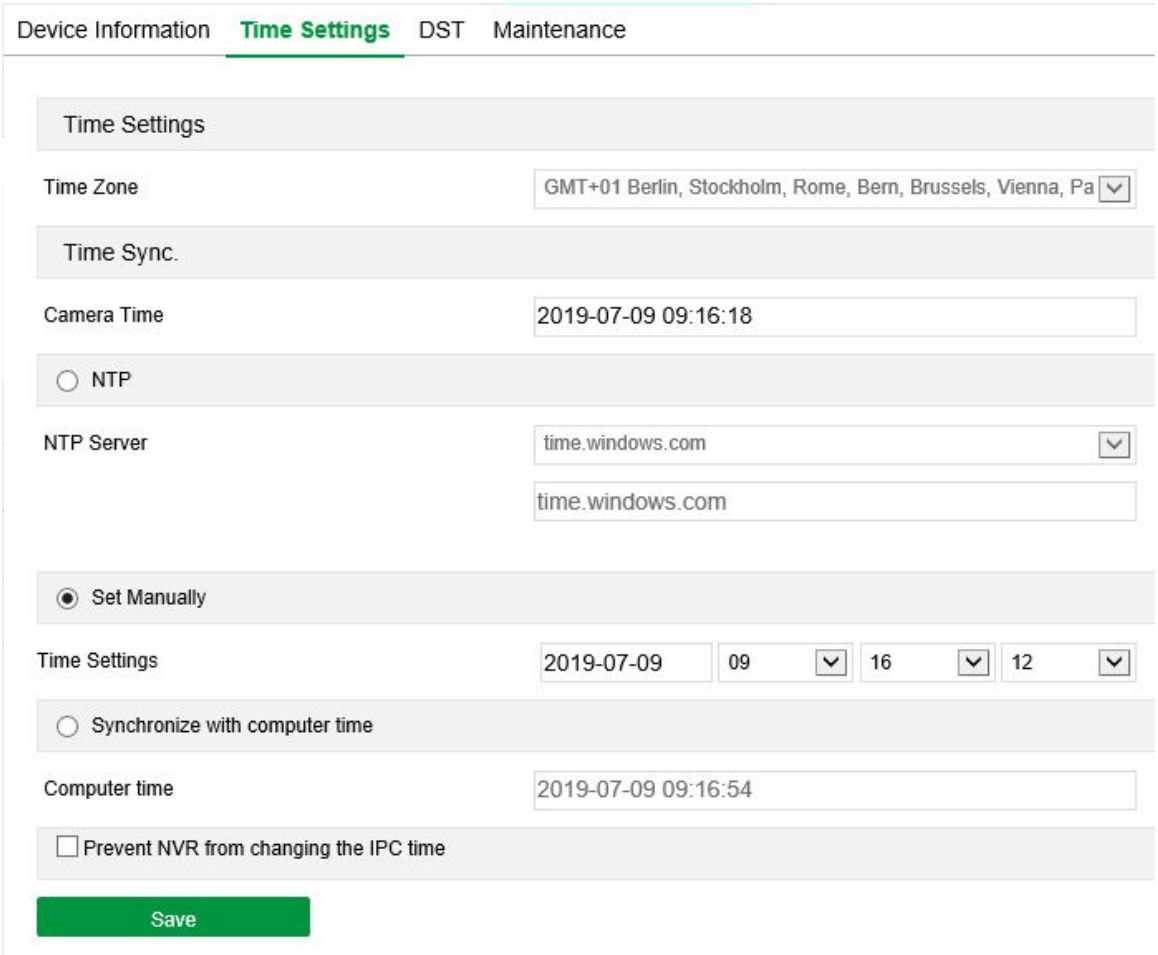


Figure 6-3

Time Zone. Displays the current device time zone.

Camera time. Displays the current time of the device.

NTP. The IPC time will synchronized with the network, you can select different time zones. Click the "Save" button after completing the settings.

Set Manually. Set the IPC's date and time manually. Click the "Save" button after completing the settings.

Synchronize with computer time. The IPC will synchronize with the computer time and date. Click the "Save" button after completing the settings.
Prevent NVR from changing IPC time. If you check this option the IPC time cannot changed by the storage devices (NVR and XVR).

DST

In the main interface, click "Configuration → System → System Configuration → DST" to enter into the interface, as shown in figure 6-4:

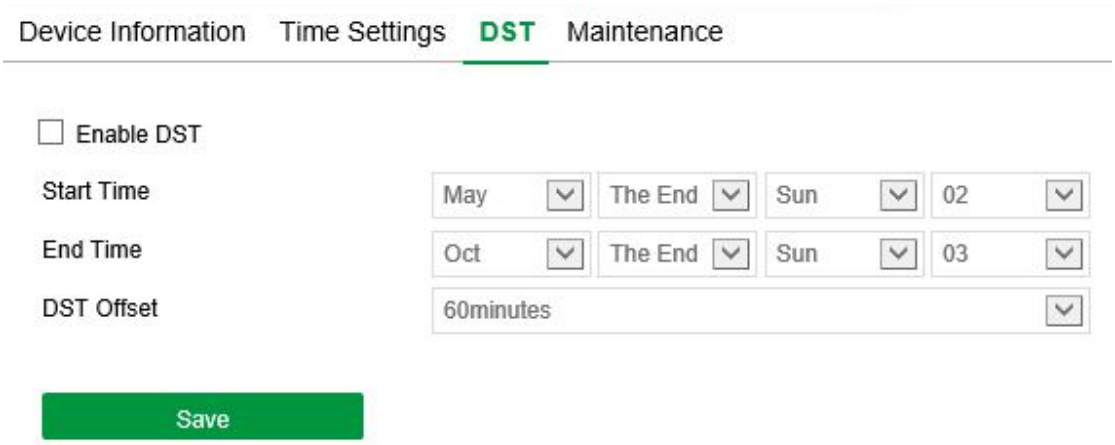


Figure 6-4

Maintenance

In the main interface, click "Configuration → System → System Configuration → Maintenance" to enter into the interface, as shown in figure 6-5:

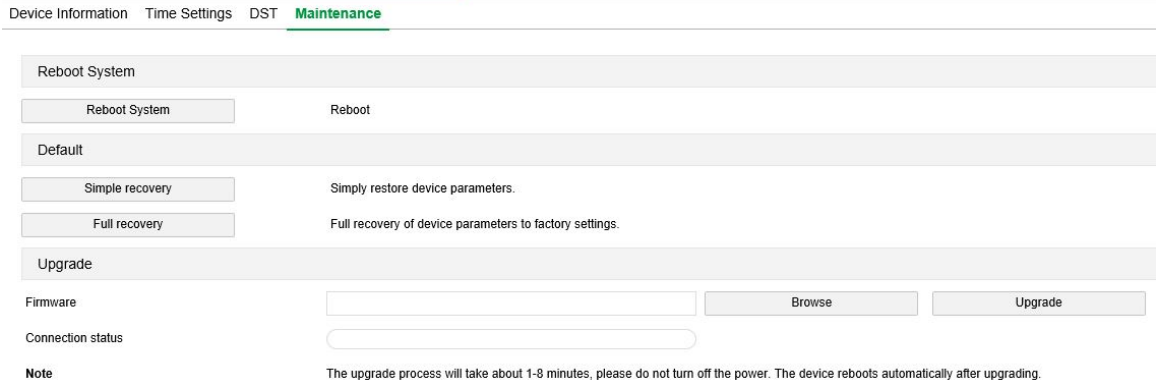


Figure 6-5

Reboot System. The IPC will restart after clicking the "Reboot System" button.

Default. Divided into Simple recovery and Full recovery.

After clicking “Simple recovery”, IPC will automatically restore the parameters to the default except the network parameters.

After clicking “Full recovery”, all parameter settings of IPC will be automatically restored to the default settings (please use this function carefully).

Upgrade-Firmware. Click “Browse” and select the upgrade file package.

6.2.2 Scheduled Reboot

In the main interface, click "Configuration → System → Auto Reboot" to enter into the interface, where you can set the time for the automatic restart of the device. Set the restart "cycle" in the drop-down menu, as shown in figure 6-6 below:

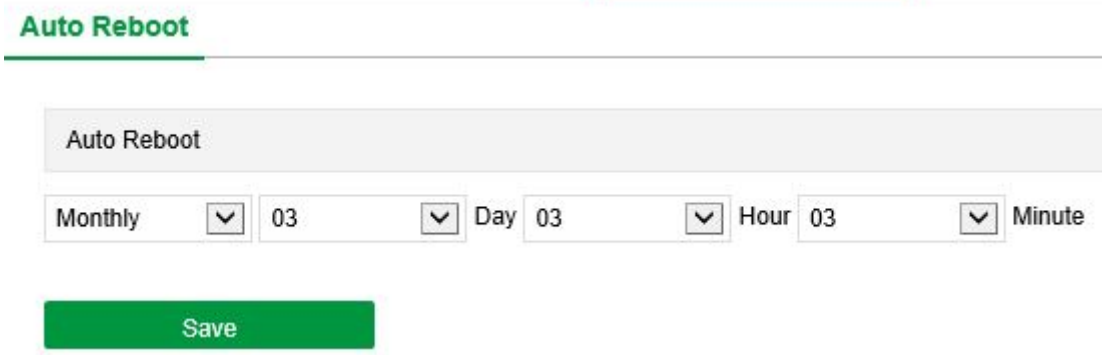


Figure 6-6

6.2.3 Log Search

In the main interface click on the "Configuration → System → Log search" to enter into the interface, where you can search the device login, account number, alarm and all other relevant information, as shown in figure 6-7 below:

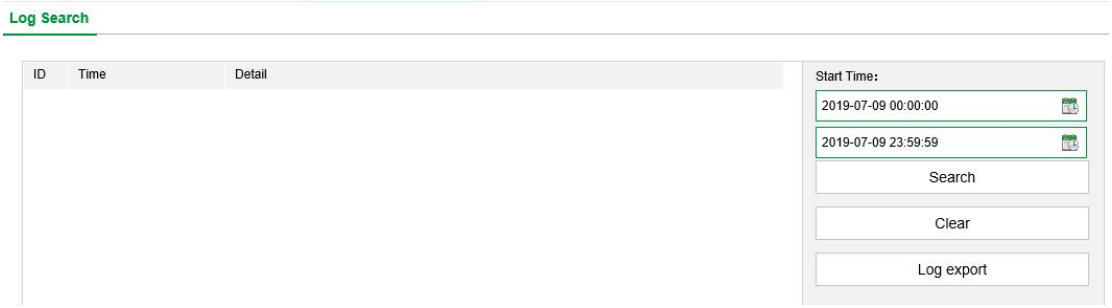


Figure 6-7

Search. Set the start time, the end time and click the "Search" button to find the files.

Clear. Click the "Clear" button to empty all logs.

Log Export. Save the contents of the selected log in txt format.

6.2.4 Security

In the main interface, click "Configuration → System → Security" to enter into the interface, where you can add, edit and delete the users. The administrator user is "admin", you can add other users (up to 10), as shown in Figure 6-8 below:

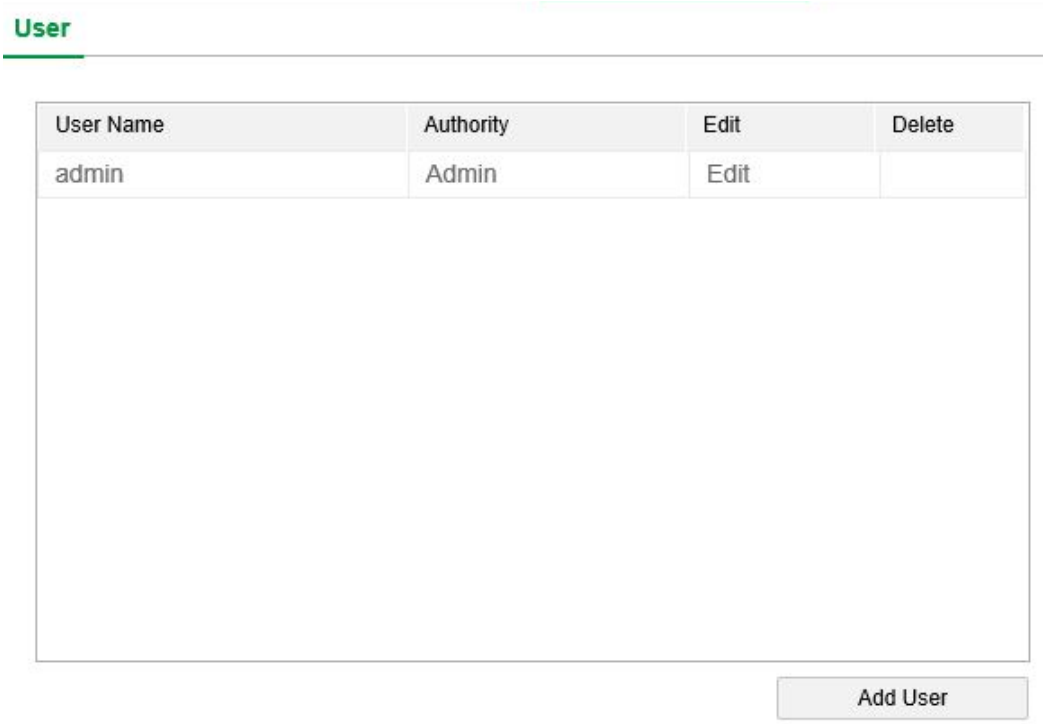


Figure 6-8

Add User

1: Click “Add User”

2: Input the Username, select the user type and input the Password

3: Click “OK” to complete the operation

as shown in figure 6-9:

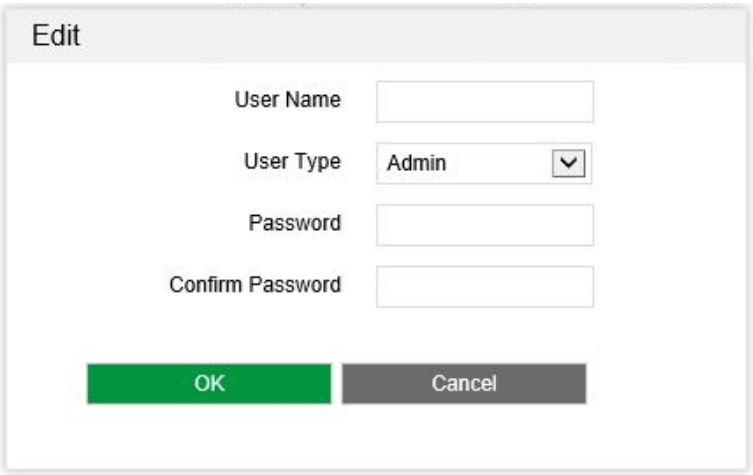


Figure 6-9

Cautions

- In order to improve the security of the product, please change the password regularly. It is recommended to update the password every 3 months. If the network camera is used in a high security risk environment, it is recommended to update once a month or every week.

Note:

- The admin user cannot be deleted, you can only change the password.
- User permission description:
  Administrator -- all permissions.
  Operator -- all permissions (cannot make system security parameter settings).
  Guest -- only preview permission.
- When setting the network camera password, the password length must be 8-31 characters and must contain numbers and letters.

Edit the User (new user)

1: In the user list, select the user to be modified, and click "Edit" to enter into the interface.

2: Edit the username, level or password;

3: Click "OK" to finish editing the user.

Note:

- The password setting rule is the same as the password rule when adding a user.

Delete Users

1: Click to select the user you want to delete and click "Delete".

2: Click "OK" on the pop-up dialogue box to delete the user.

6.2.5 SD Card

SD Card

In the main interface, click "Configuration → System → SD Card" to enter into the interface. Here you can view the micro-SD card information and format the card, as shown in figure 6-10:

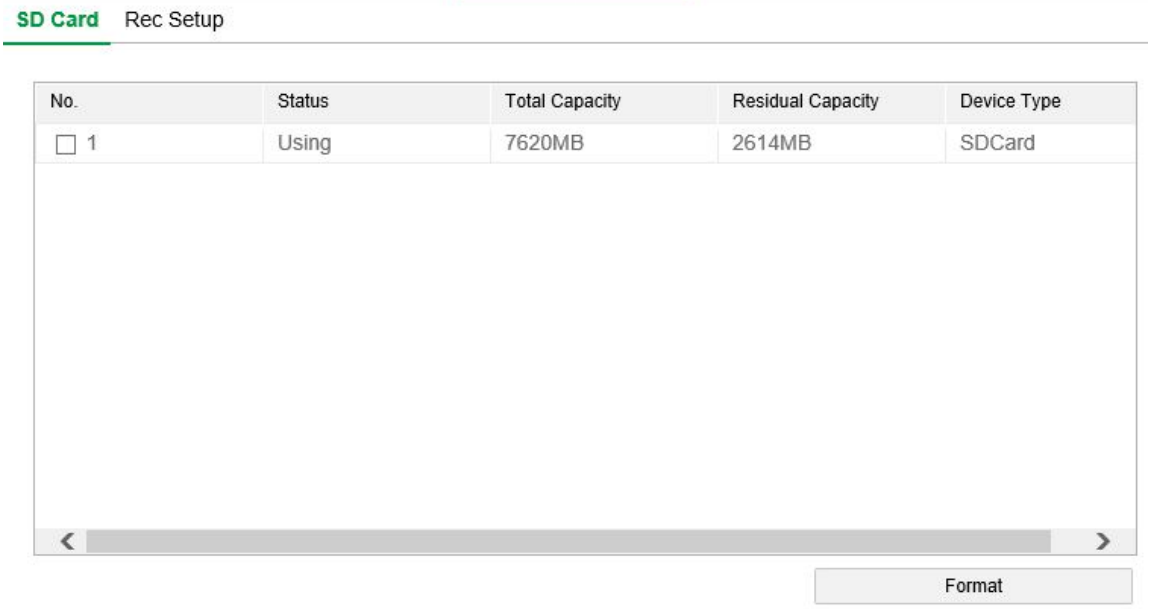


Figure 6-10

Micro-SD card format

1: Select the checkbox near the number and click "Format"

2: Click "OK" in the pop-up prompt box and wait the end of the process

3: Check the card information, Total Capacity and Residual Capacity

Rec Setup

In the main interface, click "Configuration → System → SD Card → Rec Setup" to enter into the interface. Here you can enable the recording, select the record mode, the stream type and the record schedule, as shown in figure 6-11:

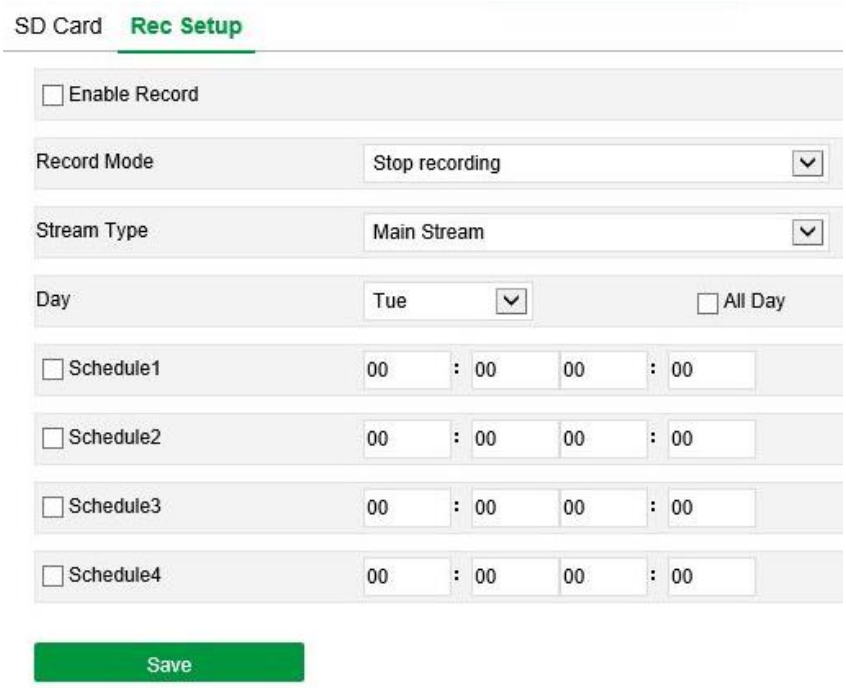


Figure 6-11

6.3 Network

In the main interface, click "Configuration →Network" to enter into the interface. The network is divided into basic setup and advanced setup configuration.

6.3.1 Basic Setup

TCP/IP

In the main interface, click "Configuration → Network → Basic Setup → TCP / IP" to enter into the interface. Here you can set the IP address, subnet mask, gateway and DNS, as shown in figure 6-12 below:

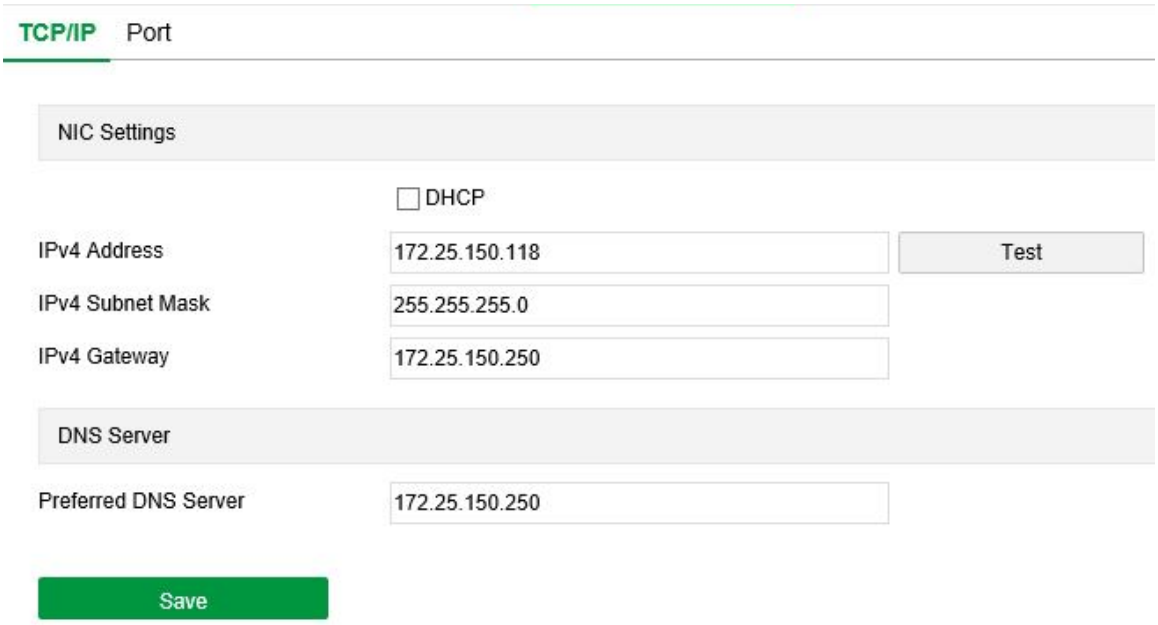


Figure 6-12

DNS

If DHCP is disabled, you can manually modify the IPC's IP address, subnet mask, default gateway and preferred DNS server information. When finished, click the "Test" button to check if the IP address is available in the LAN. Click the "Save" button to complete the settings.

Port

In the main interface, click "Configuration →Network → Basic Setup→ Port" to enter into the interface, where you can set the IPC network ports and protocols. The **default HTTP** port is **80**, the **default RTSP** port is **554**, the **default HTTPS** port is **443**, the **default ONVIF** protocol port is **8999**, as shown in figure 6-13 below:

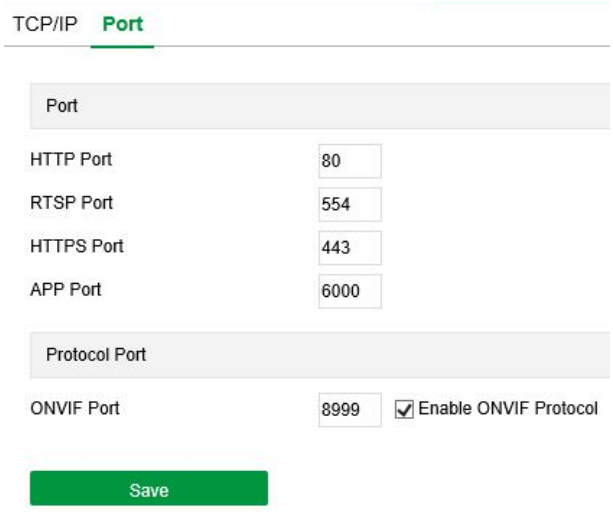


Figure 6-13

ONVIF. When the IPC need to be connected with NVR/XVR with ONVIF protocol you must enable this function.

Note:

Please do not arbitrarily modify the port parameters, when there is a port conflict you need to modify the port number.

6.3.2 Advance Setup

In the main interface click on the "Configuration →Network → Advanced Setup" to enter into the interface, where you can set the device DDNS, FTP, SMTP, P2P, cloud and other functions.

DDNS

In the main interface, click "Configuration →Network → Advanced Setup → DDNS" to enter into the interface, where you can enable the DDNS function, select the type, enter the server name, username and password, as shown in figure 6-14:

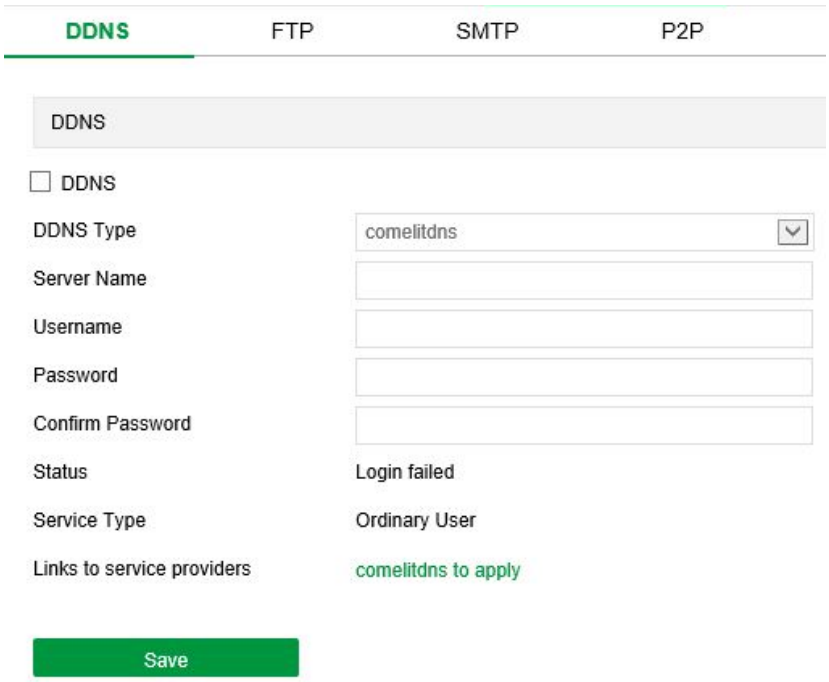


Figure 6-14

DDNS. Enable / disable the function.

DDNS Type. Choose the service type (e.g. Comelit DNS).

Server Name. Enter the domain name.

Username. Enter the username.

Password. Enter the password.

Confirm Password. Re-enter the password.

Status. Shows the device status.

Service Type. Displays the type of user.

Links to service providers. Show service provider information.

FTP

In the main interface, click "Configuration → Network → Advanced Setup → FTP" to enter into the interface, where you can set the FTP server address, port, username, password, set the storage path and select the file format. At the end of setup click the "Test" button to check the connection. The FTP setup interface is shown in figure 6-15:

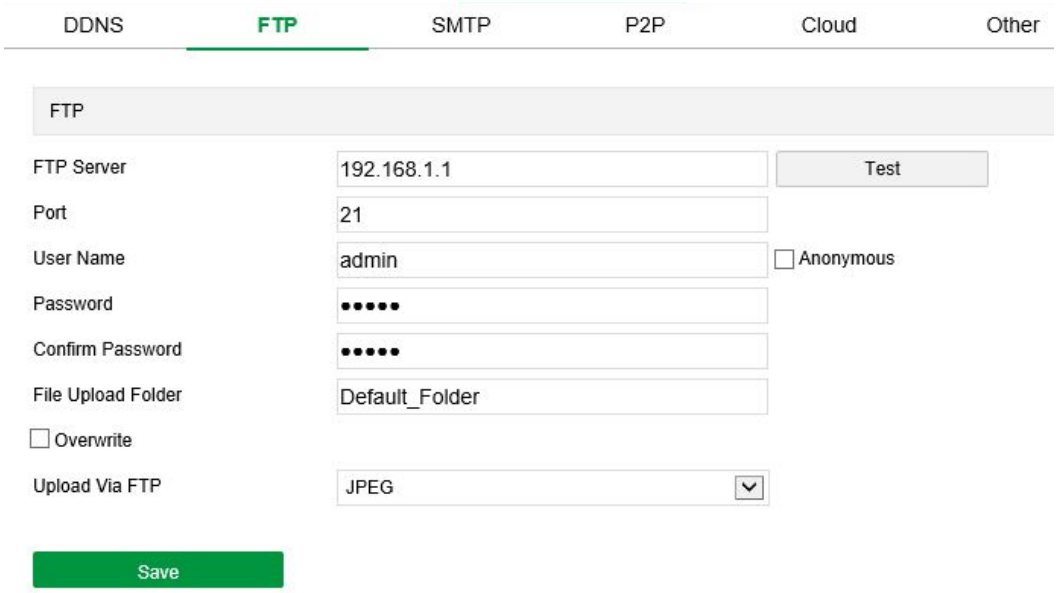


Figure 6-15

FTP Server. Enter the server address.

Port. Enter the server port number.

Username. Enter the server username.

Password. Enter the server password.

Confirm Password. Re-enter the server password.

File Upload. Automatically creates a folder that you can rename in the FTP storage path.

Overwrite. When enabled, the oldest files will be overwritten automatically when the FTP server is full.

Upload Via FTP. In the drop-down menu, select FTP file format (JPEG for image and AVI for video). Click on the "Save" button after completing the settings.

SMTP

In the main interface, click "Configuration →Network → Advanced Setup→ SMTP" to enter into the interface, where you can set the SMTP server information, the sender mailbox, SMTP server address, port, select the upload SMTP file format, username and password. The SMTP setup interface is shown in figure 6-16.

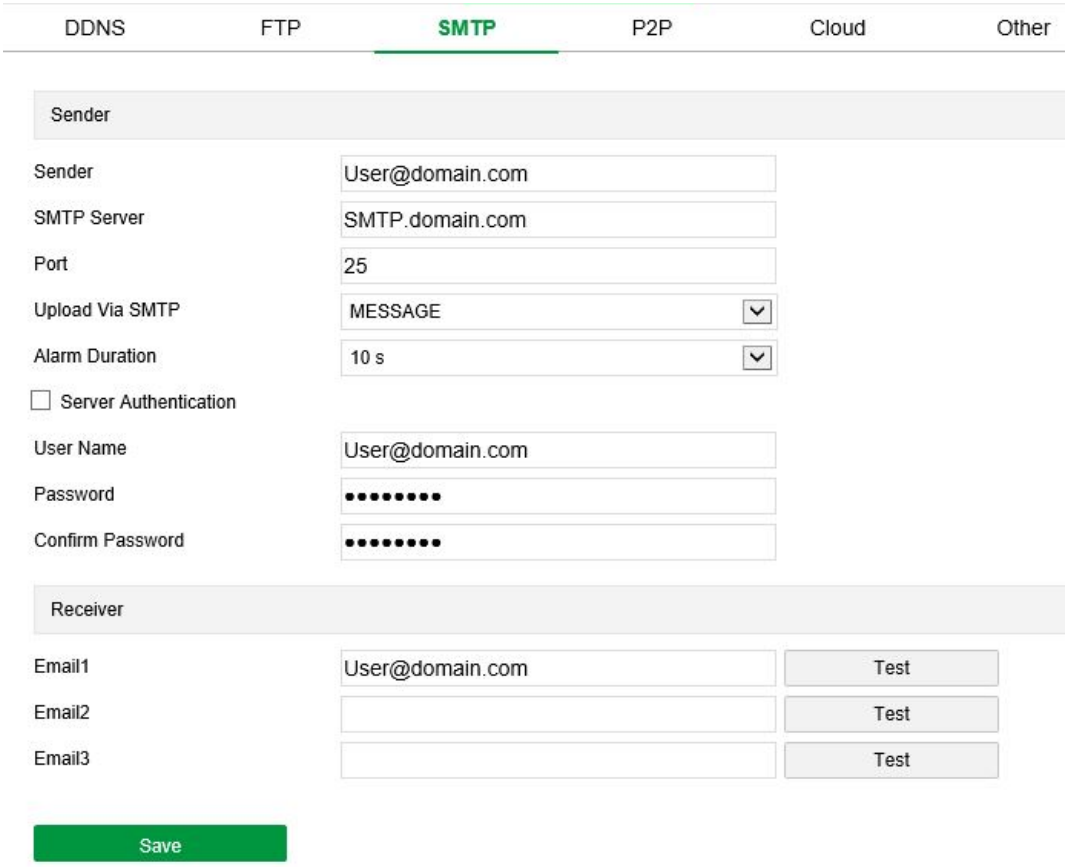


Figure 6-16

Sender

Sender. Enter the address of the sender mailbox.

SMTP Server. Enter the email server address.

Port. Enter the email server port.

Upload Via SMTP. In the drop-down menu, select SMTP file format (JPEG for image and AVI for video). Click on the "Save" button after completing the settings.

Alarm Duration. Set the sending interval.

Server Authentication. When enabled, the server and user are authenticated to ensure that the data is sent to the correct client and server.

Username. Enter the sender mailbox username.

Password. Enter the sender mailbox password.

Confirm Password. Re-enter the sender mailbox password.

Receiver

Email 1, 2, 3. Enter the address of the receiver mailbox (up to 3 inboxes), click the "Test" button to ensure that all work correctly.

P2P

P2P is a private network penetration technology.

You can add devices in the following two ways to manage the devices.

1) Download the Comelit View Smart app and register an account.

2) Login to the P2P platform and add the device by scanning the QR code.

Note

- The P2P is enabled by default.

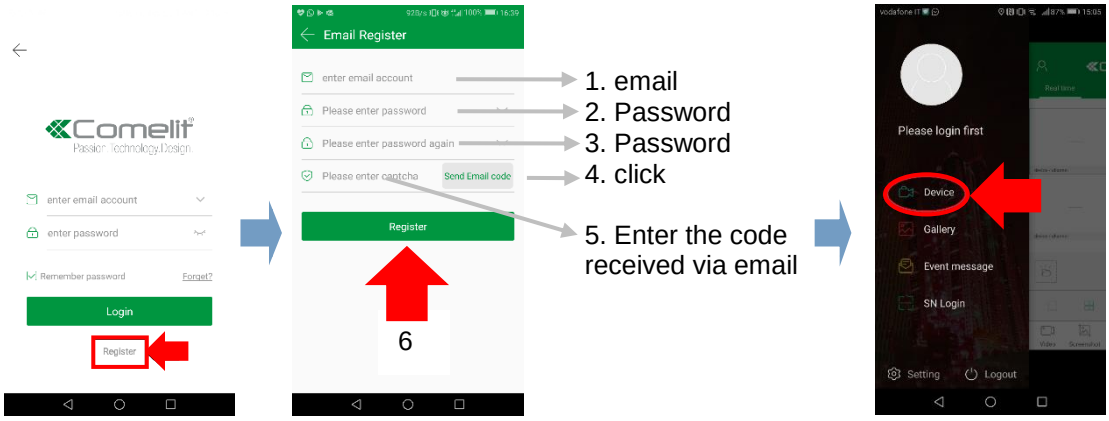
1: In the main interface, click "Configuration →Network → Advanced Setup → P2P" to enter into the interface, as shown in figure 6-17 below.

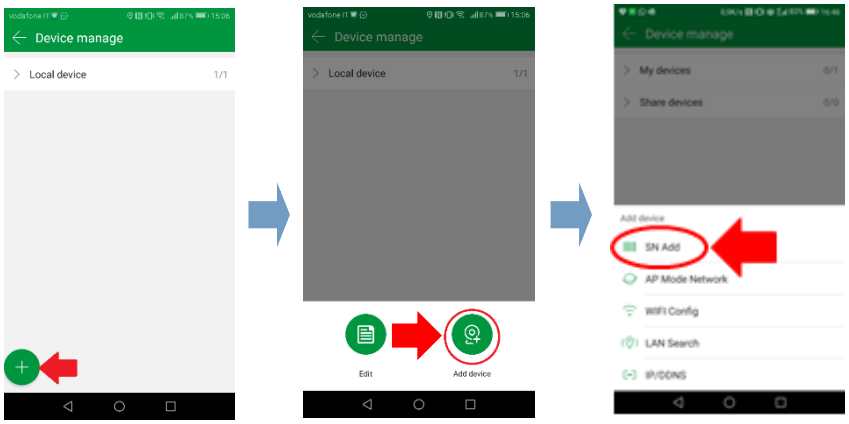
2: Select to enable P2P.

3: Click "Save" to save the configuration.

4: Click "Refresh". If the status shows "P2P connection successful", the P2P is enabled and can be used normally.

Comelit View Smart app configuration





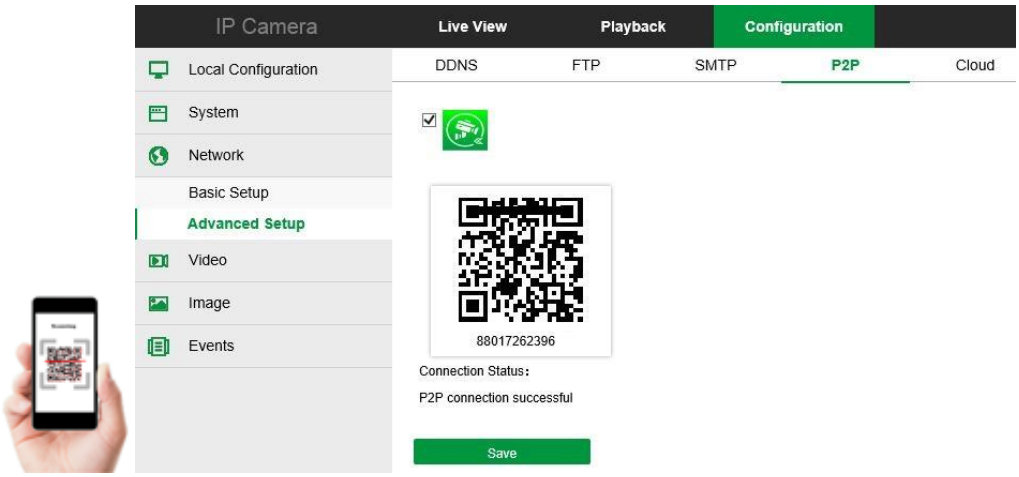


Figure 6-17

Cloud

In the main interface, click "Configuration →Network → Advanced Setup → Cloud" to enter into the interface, as shown in figure 6-18 below:

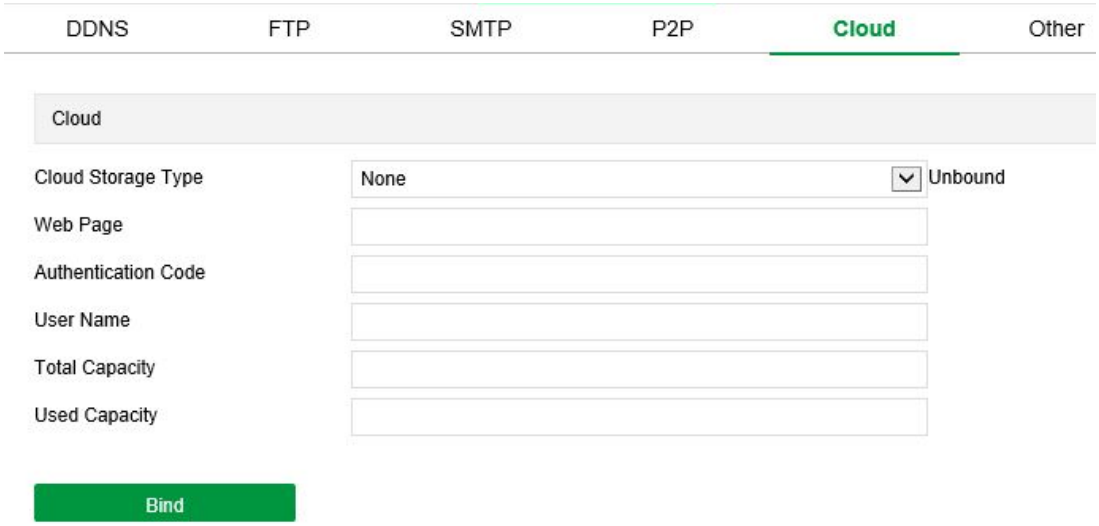


Figure 6-18

Cloud Storage Type. You can display the cloud storage type (Google only).

Web page. Display the URL to copy in the Internet Explorer address bar to register the device.

Authentication Code. Display the code to enter in the Google device registration page. Click on the "Bind" button. "Username", "Total Capacity" and "Used Capacity" information will be automatically displayed.

Other

In the main interface, click "Configuration →Network → Advanced Setup → Other" to enter into the interface, as shown in figure 6-19 below:

Figure 6-19

Video Password Authentication. When enabled, to watch the video with VLC Player via RTSP, you need to enter the correct username and password.
Strings to watch the video with VLC Player via RTSP:

- rtsp://IPaddress:port/0 (main stream)
- rtsp://IPaddress:port/1 (sub stream)

RTSP Encryption Enabled. When enabled, the RTSP stream of the camera is encrypted and is not possible to watch the video with VLC Player via RTSP.

App Encryption Enabled. When enabled, the connection with the Comelit View Smart app is encrypted.

IPEYE (for russian market only)

6.4 Video

In the main interface, click "Configuration → Video" to enter into the interface, where you can set the video, audio and other functions.

6.4.1 Video

In the main interface click "Configuration → Video → Video" to enter into the interface, where you can set the IPC device name, stream type, encoding and other video parameters, as shown in Figure 6-20:

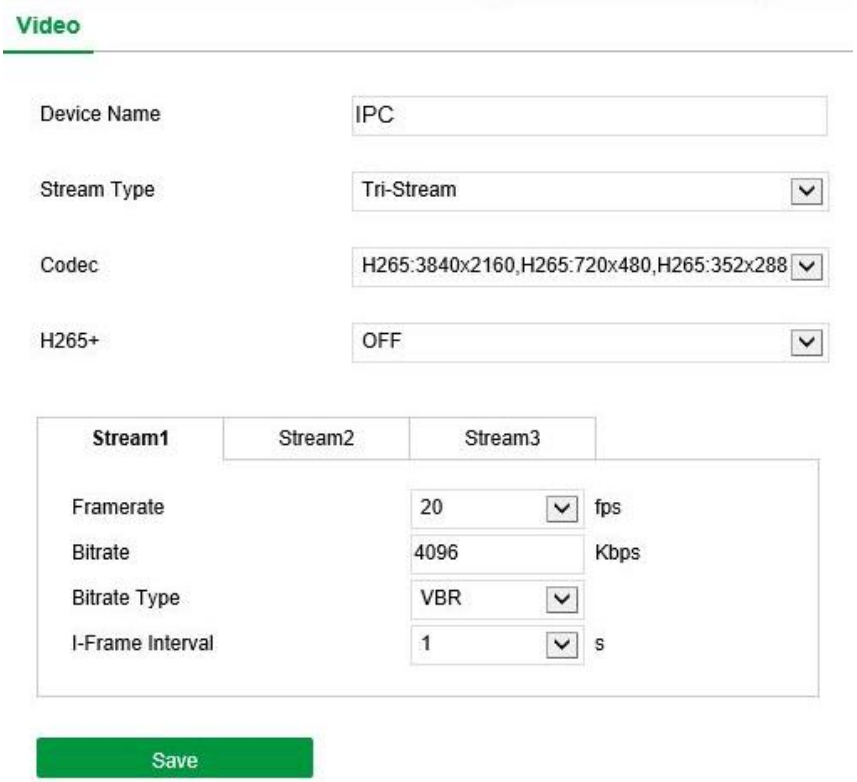


Figure 6-20

Device Name. Enter the camera name.

Stream Type. Single/Tri-stream available.

Codec. Choose encoding type and resolutions.

H265+/H264+. Enable/Disable H.265+/H.264+ codec.

Framerate. Set the video output framerate of the device.

Bitrate. Support 64-12000kbps. The higher is the bitrate, the better is the video quality, but it occupy the greater network bandwidth.

Bitrate Type. Select the code rate output mode in the drop-down menu (CBR: constant bitrate, VBR: variable bitrate.

I-Frame Interval. IPC acquisition key frame interval can be set 1-5s.

Profile. You can select Main Profile (default), Baseline Profile or High Profile.

7.4.2 Audio

In the main interface, click "Configuration → Video → Audio" to enter into the interface, where you can set the device audio input mode, the audio encode, the volume, as shown in figure 6-21:

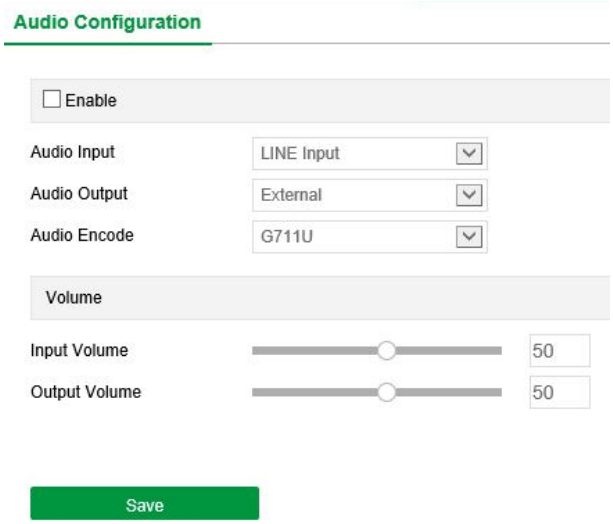


Figure 6-21

Enable. Enable the audio.

Audio Input. Select the audio input method.

Audio Output. Select the audio output method

Audio Encode. Select the audio encoding (G711U or G711A).

Input Volume. Set the device input volume.

Output Volume. Set the device output volume.

6.5 Image

In the main interface, click "Configuration → Image" to enter into the interface, where you can set the device image and OSD text and other information.

7.5.1 Image

In the main interface, click "Configuration → Image → Image" to enter into the interface, where you can adjust the image parameters, as shown in figure 6-22:

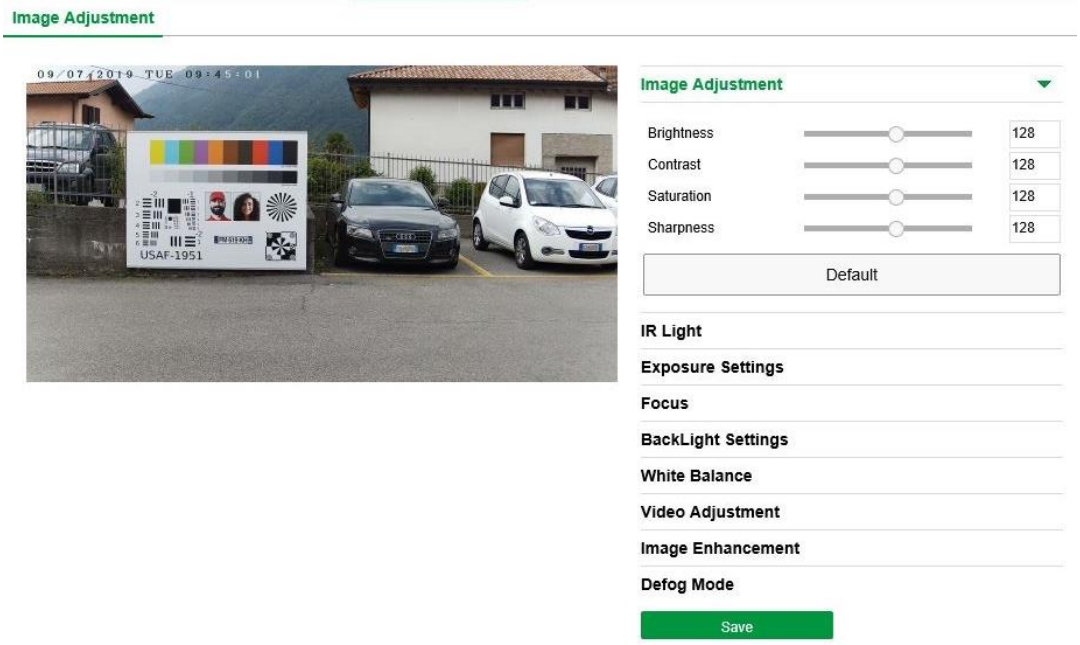


Figure 6-22

Brightness/Contrast/Saturation/Sharpness. You can set the value. The valid values are from 0 to 255, you can drag the slider to set (default value is 128), as shown in Figure 6-23:

Figure 6-23

IR light. The default for the IR Light Mode is "Auto", the sensitivity is 3, the filtering time is 3 seconds and the light brightness is 100, as shown in figure 6-24 (1). When the mode is "Auto", the device will turn on the IR light according to the environment. The user can switch the IR Light mode to "Day", "Night" or "Scheduled switch" and set the sensitivity and filtering time.

Figure 6-24 (1)

- When the IR Light mode is "Scheduled switch", you can set the Dawn time and the Dark time (start and end time) and the brightness, as shown in Figure 6-24 (2):

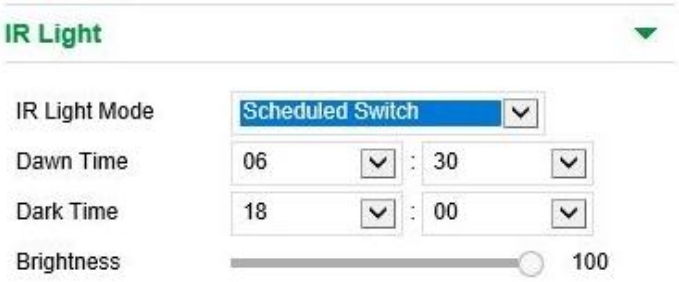


Figure 6-24 (2)

- When the IR Light mode is “Day”, the device video is always in colour.
- When the IR Light mode is “Night”, the device video is always in black & white.

Filtering time: When the IR Light mode is "Auto", is the delay time to switch the device video from colour to black & white and vice versa.

Brightness: It is used to adjust the brightness, the adjustable range is 0-100.

Exposure Settings. The default is "Auto". Selecting "Manual", the exposure time and the gain control are activated, as shown in figure 6-25:

Figure 6-25

Focus mode. The default is "Semi-auto focus". You can also select "Auto" and "Manual"

BackLight Settings. It is used to set backlight compensation and strong light suppression. The default is "OFF". When turned "ON", the "BLC level" and the "Strong light intensity" and the "Dark area boost" can be set, as shown in figure 6-27 below.

Figure 6-26

White Balance. The default is "Auto". If you select "Manual", you can set the red, green and blue gains (range 0-255), as shown in figure 6-28:

Figure 6-27

Video Adjustment. Here you can turn ON and set 2D or 3D digital noise reduction, as shown in figure 6-29:

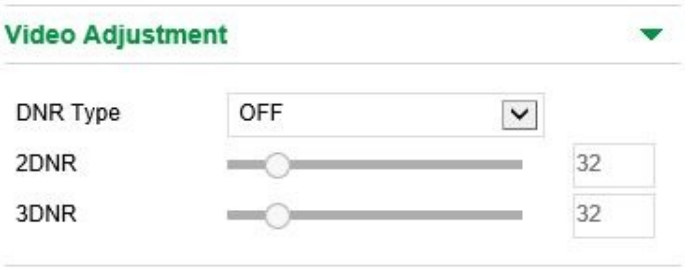


Figure 6-28

Image Enhancement. Include "Flicker control" and "WDR level", as shown in figure 6-30.

Figure 6-29

Flicker Control: The flicker mode is selected according to the camera installation standard (normally 50 Hz for PAL and 60 Hz for NTSC) or you can choose outdoor.

WDR level: The default is "OFF", you can select from the drop-down menu "Automatic", "Weak", "Moderate", "Strong" or "Super".

Defog Mode. Used to set the defog mode and level, as shown in figure 6-31.

Figure 6-30

Defog Mode: The default is "OFF", you can choose from the drop-down menu "ON" or "Auto".
Defog level: The default is 0, when the defog mode is "ON", you can set the strength (value range 0-255).

7.5.2 OSD

In the main interface, click "Configuration → Image → OSD" to enter into the interface, where you can set the preview interface, as shown in figure 6-31:

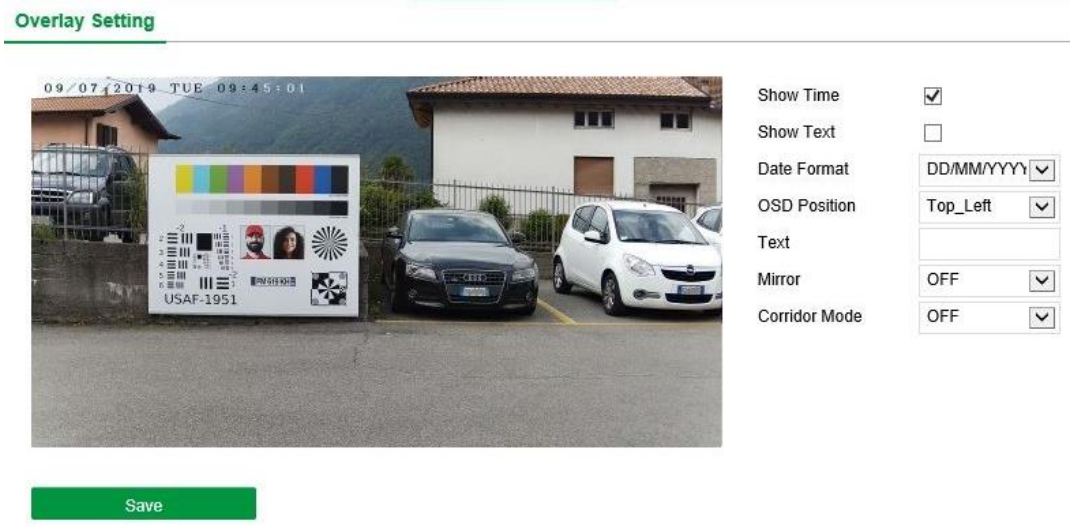


Figure 6-31

Show Time. Enable/Disable the time on display.

Show Text. Enable/Disable the OSD text on display.

Date Format. Set the date format (default is day / month / year.

OSD Position. Set the text position (default is the Top_Left).

Text. Enter the camera name.

Mirror. The default is OFF. You can select the image orientation (Vertical, Horizontal, Both).

Corridor mode. The default is "OFF". You can select 90 degrees or 270 degrees rotation in case of corridor installation.

6.6 Events

In the main interface, click "Configuration → Events" to enter into the interface, where you can set the device's motion detection alarm, privacy mask, notifications and other events.

Motion Detection

In the main interface click on the "Configuration → Events → Motion Detection" to enter into the interface, as shown in figure 6-32:

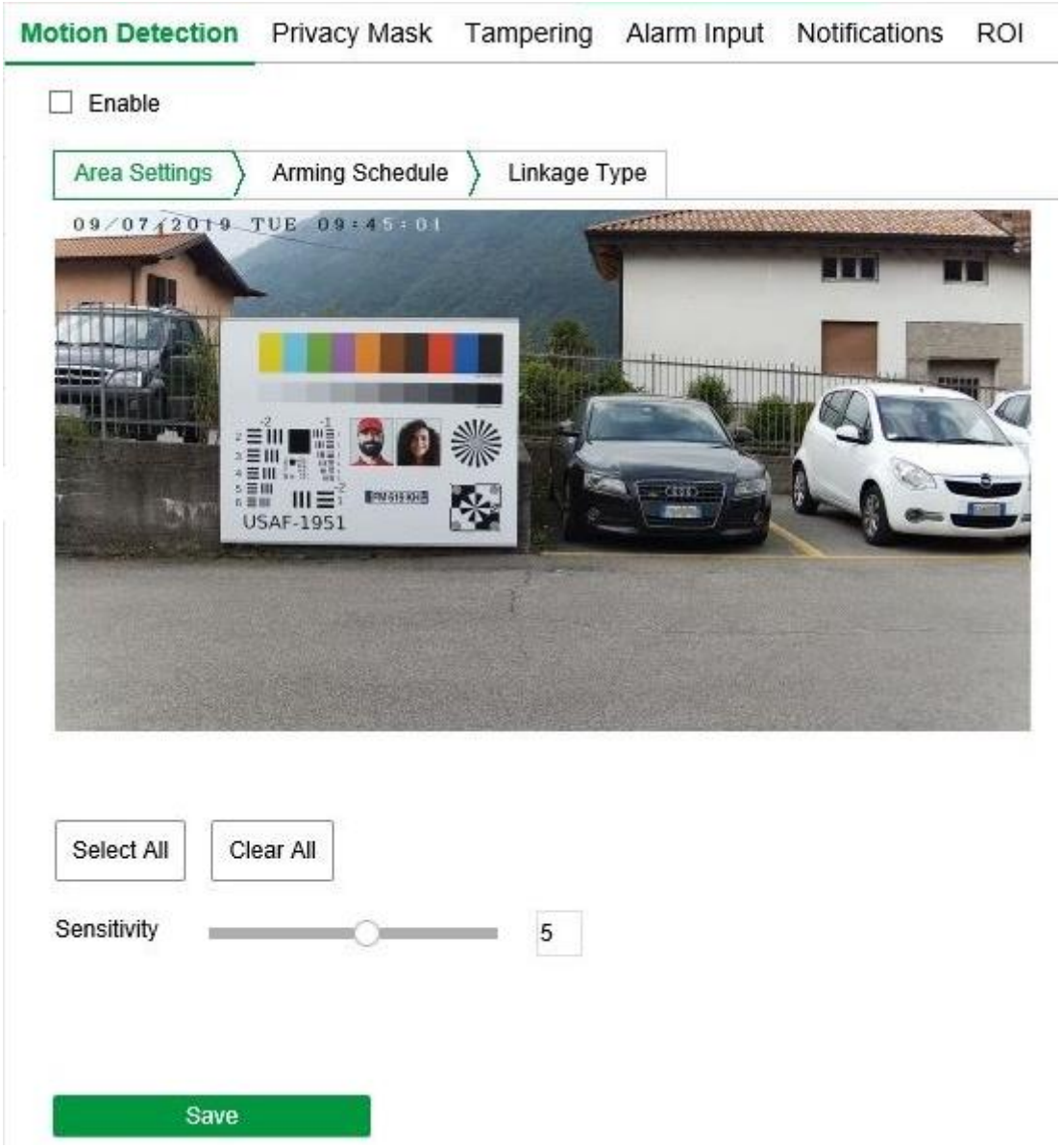


Figure 6-32

Enable. Enable/Disable the motion detection alarm.

Area Settings: Select the area to set the motion detection.

Select All. Select all the area (396 (22x18) small squares).

Manually draw the alarm area. Click and hold the left mouse button to select the area, release the left mouse button to complete the alarm area selection. You can select multiple motion detection zones at the same time.

Clear All. Clear all the motion detection area.

Sensitivity. The default is 5 (range 0-10).

Arming Schedule. As shown in figure 6-33, you can view, edit, delete the motion detection scheduled time (default is all-day). To adjust the scheduled detection time:

- Method 1: Click the time bar and manually set the start time and the end time. Click the "Save" button. If you need to delete the time period, click the "Delete" button.
- Method 2: Click the time bar that will display two circles at both the ends. Move the mouse to the circle and move arrows to set the arming time.
- You can set up more than one time period (up to 8).
- If other days need to set the same arming time, click the button in the right side of the time bar, check "Select All" or one day and then click the "OK" button.
- Click the "Save" button to complete the configuration.

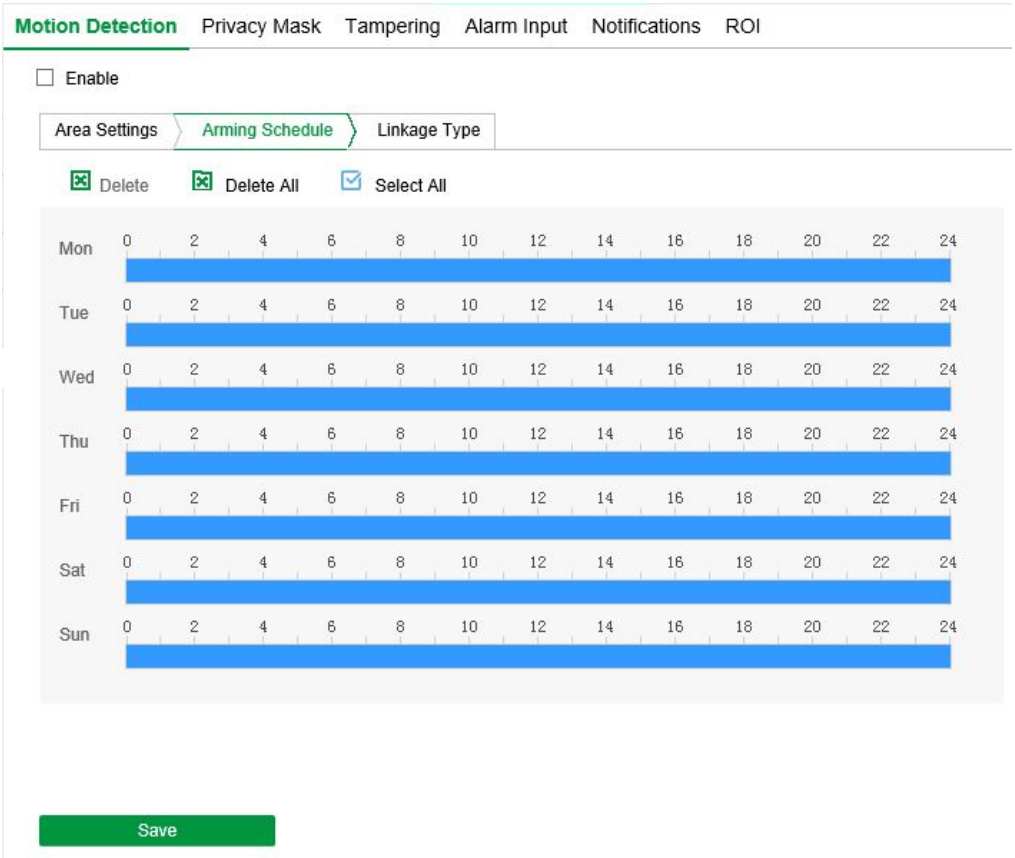


Figure 6-33

Linkage type. There are a variety of alarm linkage, as shown in figure 6-34.

Select all. Select all the linkage type.

Upload Via SMTP. Select to send the alarm information to the recipient mailbox.

Upload Via FTP. Select to send the alarm information to the FTP server.

Upload Via Cloud. Select to send the alarm information to the alarm information to the cloud.

Record Via SDcard. Select to record the alarm video to the micro-SD card.

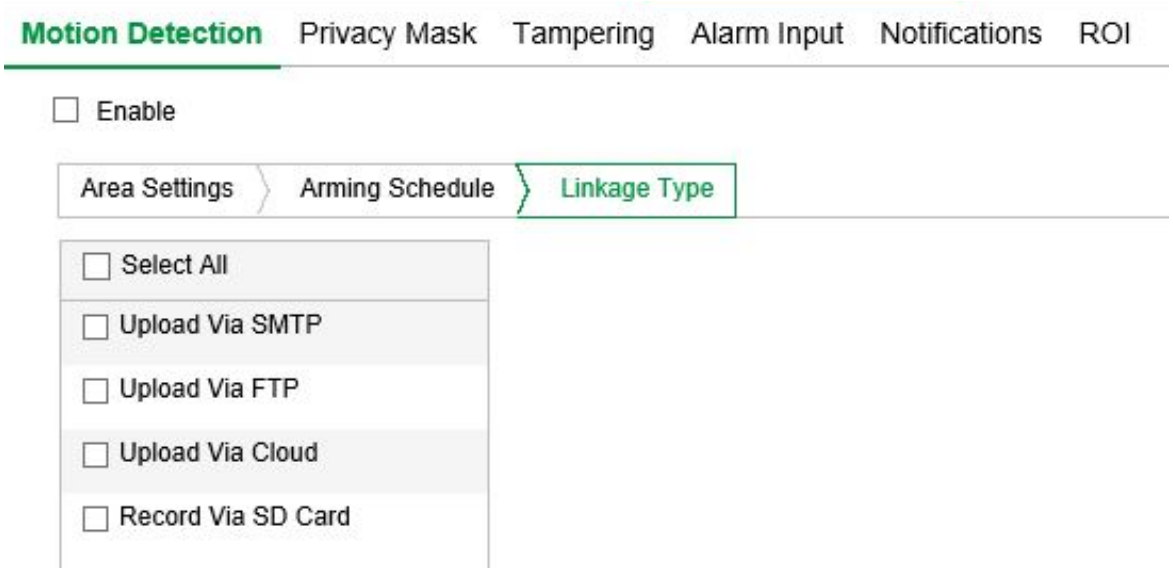


Figure 6-34

Privacy Mask

In the main interface, click "Configuration → Event → Privacy Mask" to enter into the interface, as shown in figure 6-35.

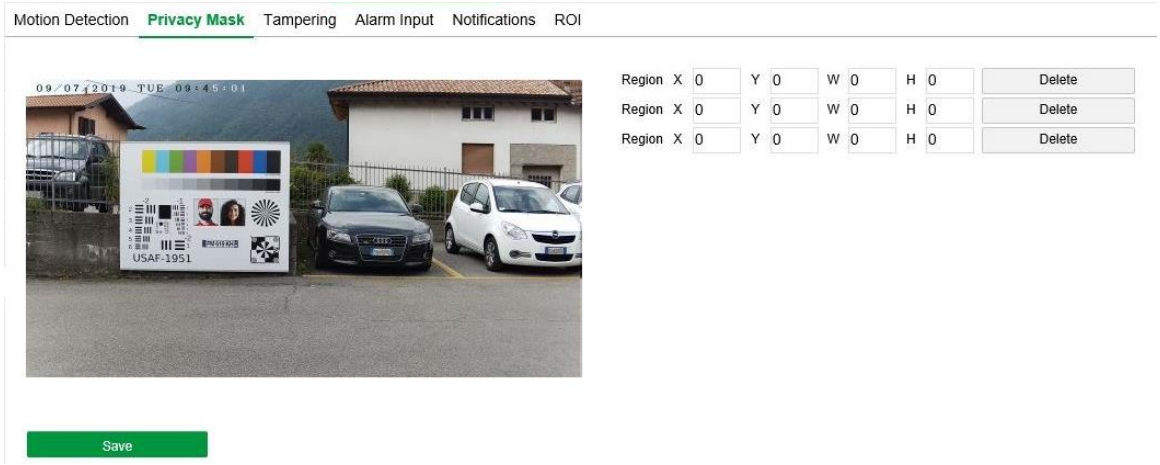


Figure 6-35

Here you can choose up to 3 Privacy Mask. Hold down the left mouse button and drag to select the area. If you want to delete a Region, click on the corresponding “Delete” button. Click on the “Save” after completing the setting.

Tampering

In the main interface click on the "Configuration → Events → Tampering" to enter into the interface, as shown in figure 6-36:

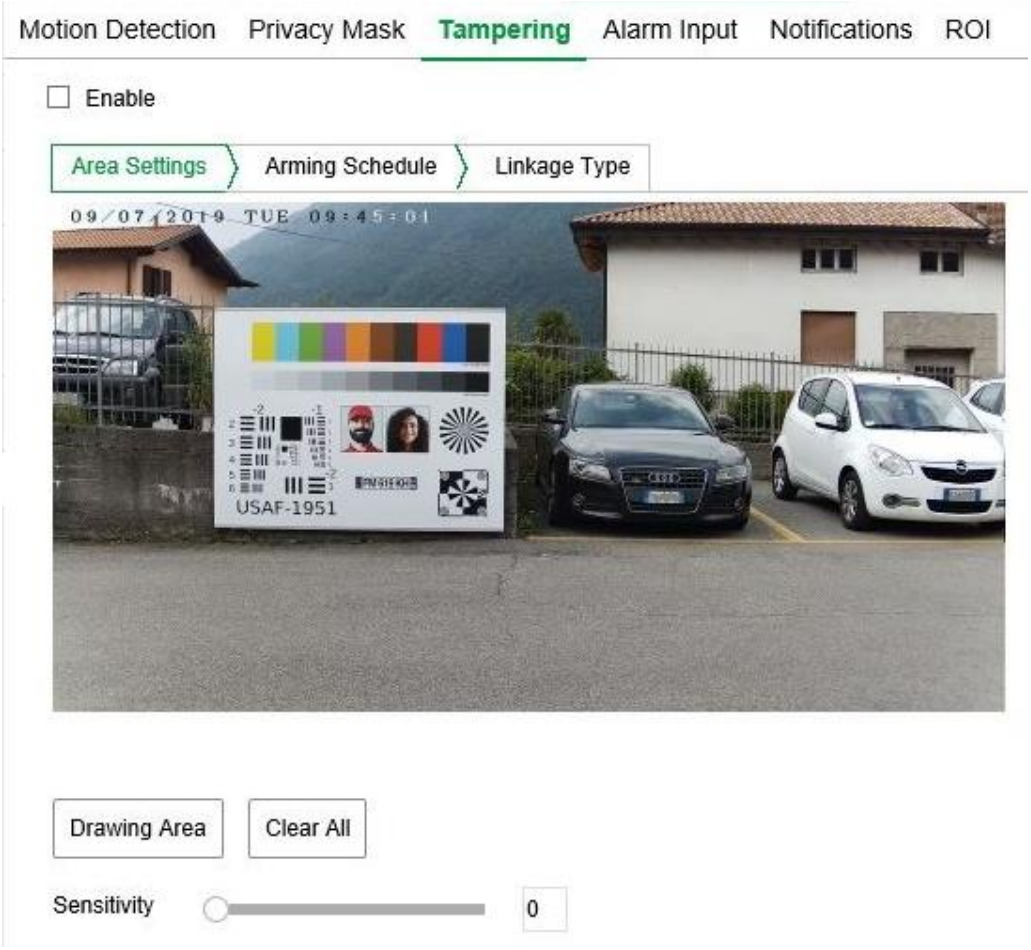


Figure 6-36

Enable. Enable/Disable the video tampering alarm.

Area Settings. Select the area to set the video tampering.

Drawing Area. Click on "Drawing area" button, click and hold the left mouse button to select the area. Release the left mouse button and click the “Stop Drawing” button to complete the selection.

Clear All. Clear all the video tampering area.

Sensitivity. The default is 0 (range 0-2).

Arming Schedule. As shown in figure 6-37, you can view, edit, delete the video tampering scheduled time (default is all-day). To adjust the scheduled detection time:

- Method 1: Click the time bar and manually set the start time and the end time. Click the "Save" button. If you need to delete the time period, click the "Delete" button.
- Method 2: Click the time bar that will display two circles at both the ends. Move the mouse to the circle and move arrows to set the arming time.
- You can set up more than one time period (up to 8).
- If other days need to set the same arming time, click the button in the right side of the time bar, check "Select All" or one day and then click the "OK" button.

- Click the "Save" button to complete the configuration.

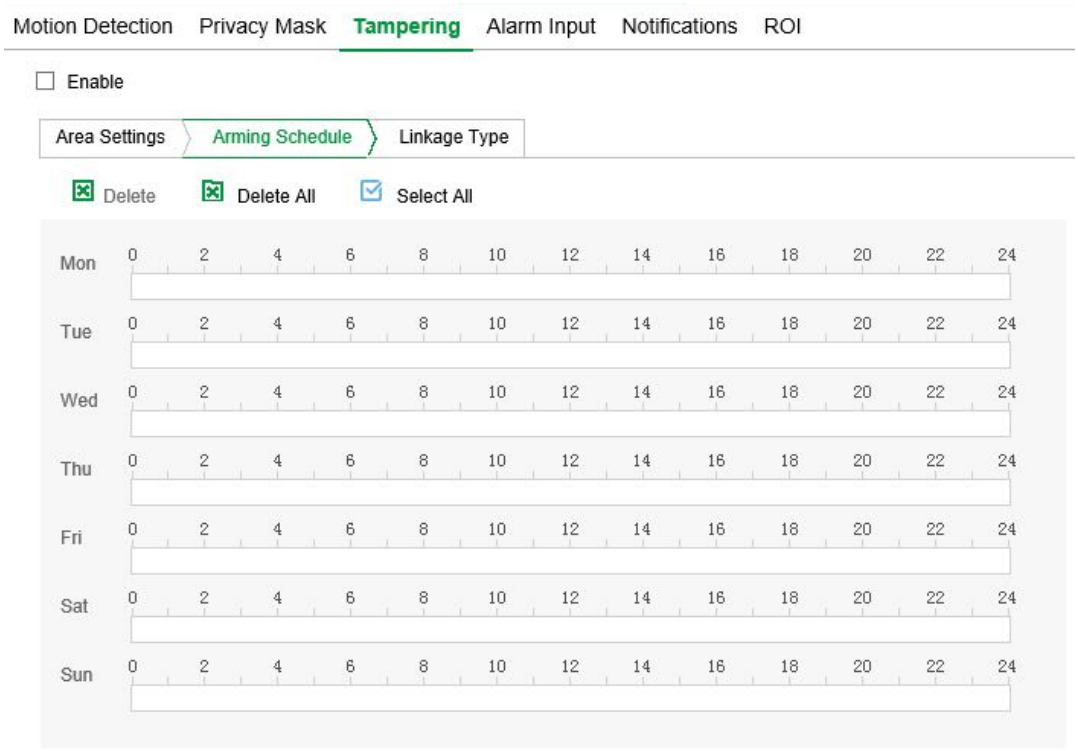


Figure 6-37

Linkage type. There are a variety of alarm linkage, as shown in figure 6-38.

Select all. Select all the linkage type.

Upload Via SMTP. Select to send the alarm information to the recipient mailbox.

Upload Via FTP. Select to send the alarm information to the FTP server.

Upload Via Cloud. Select to send the alarm information to the alarm information to the cloud.

Record Via SDcard. Select to record the alarm video to the micro-SD card.

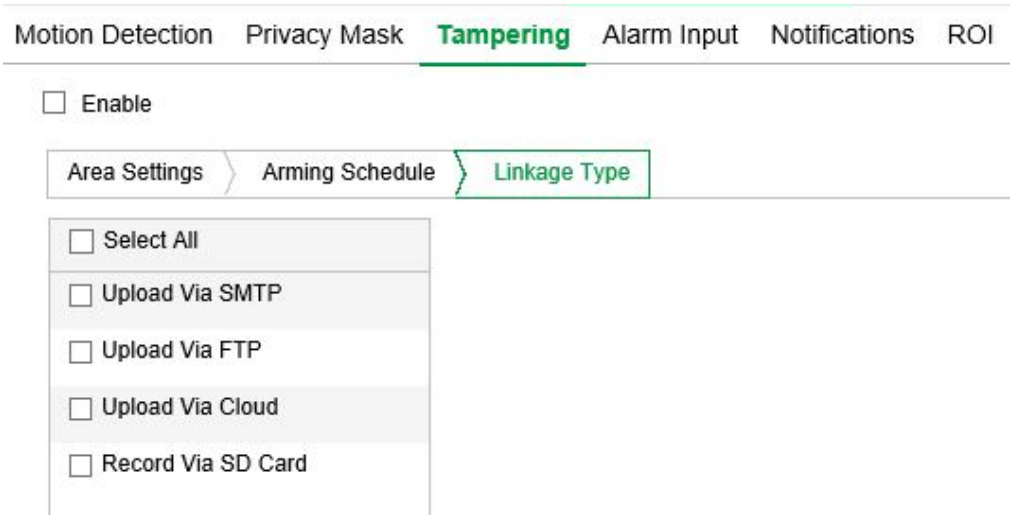


Figure 6-38

Alarm Input

In the main interface click on the "Configuration → Events → Alarm Input" to enter into the interface.

Arming Schedule. As shown in figure 6-39, you can view, edit, delete the video tampering scheduled time (default is all-day). To adjust the scheduled detection time:

- Method 1: Click the time bar and manually set the start time and the end time. Click the "Save" button. If you need to delete the time period, click the "Delete" button.
- Method 2: Click the time bar that will display two circles at both the ends. Move the mouse to the circle and move arrows to set the arming time.
- You can set up more than one time period (up to 8).
- If other days need to set the same arming time, click the button in the right side of the time bar, check "Select All" or one day and then click the "OK" button.

Click the "Save" button to complete the configuration.

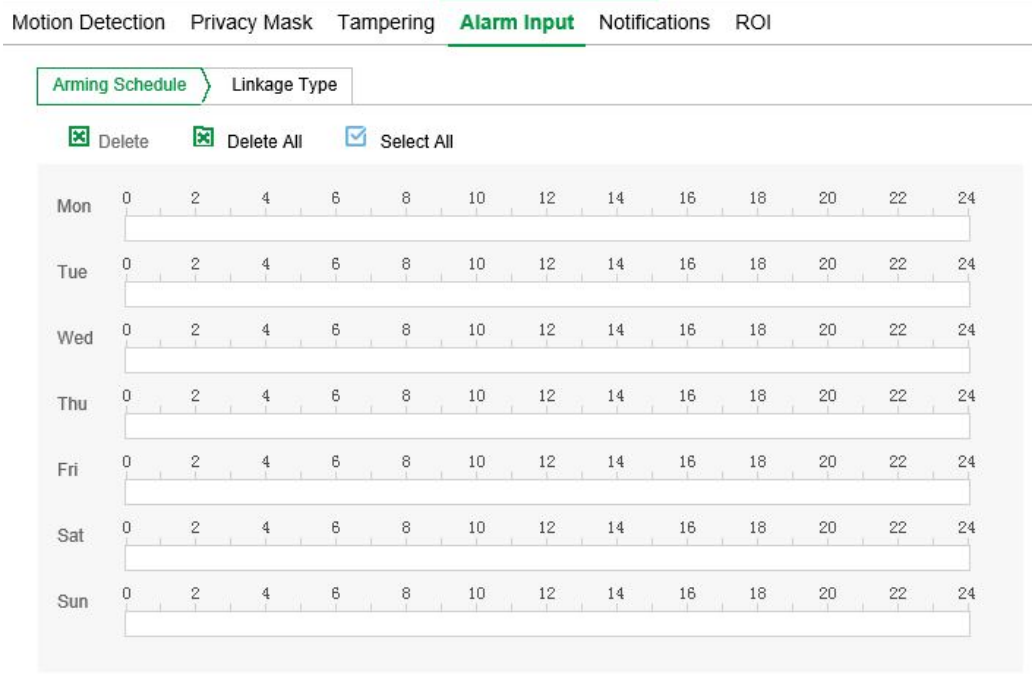


Figure 6-39

Linkage type. There are a variety of alarm linkage, as shown in figure 6-40.

Select all. Select all the linkage type.

Upload Via SMTP. Select to send the alarm information to the recipient mailbox.

Upload Via FTP. Select to send the alarm information to the FTP server.

Linkage Alarm Output. Include IO output.

IO Output. If enabled and there is a device connected to the IO port, when there is alarm input, the alarm device connected with IO port will make the corresponding alarm action.

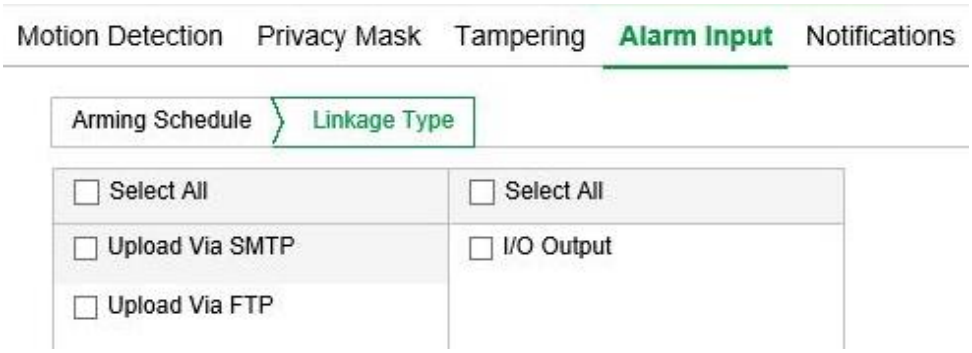


Figure 6-40

Notifications

In the main interface, click "Configuration → Events → Notifications" to enter into the interface, as shown in figure 6-41:

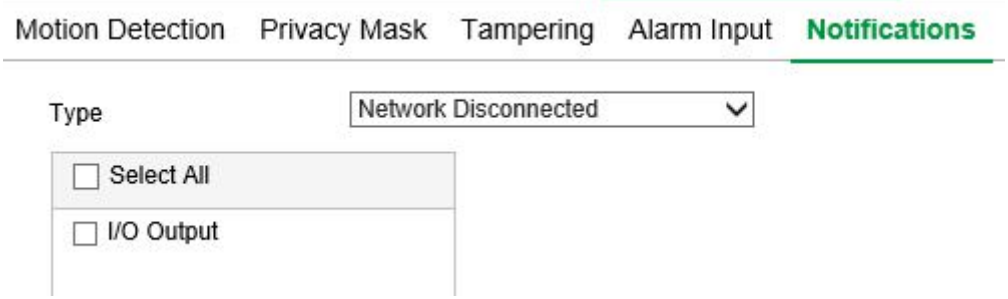


Figure 6-41

Set the "Cable Disconnected" and "IP Address Conflict" alarms here and set the alarm output mode. Click on the “Save” button.

ROI

Set the "Relative QP value" or "QP absolute value" for the region of interest (ROI). Up to three "fixed areas" can be set. On the main interface, click "Configuration → Events → ROI" to enter into the interface, as shown in figure 6-42.

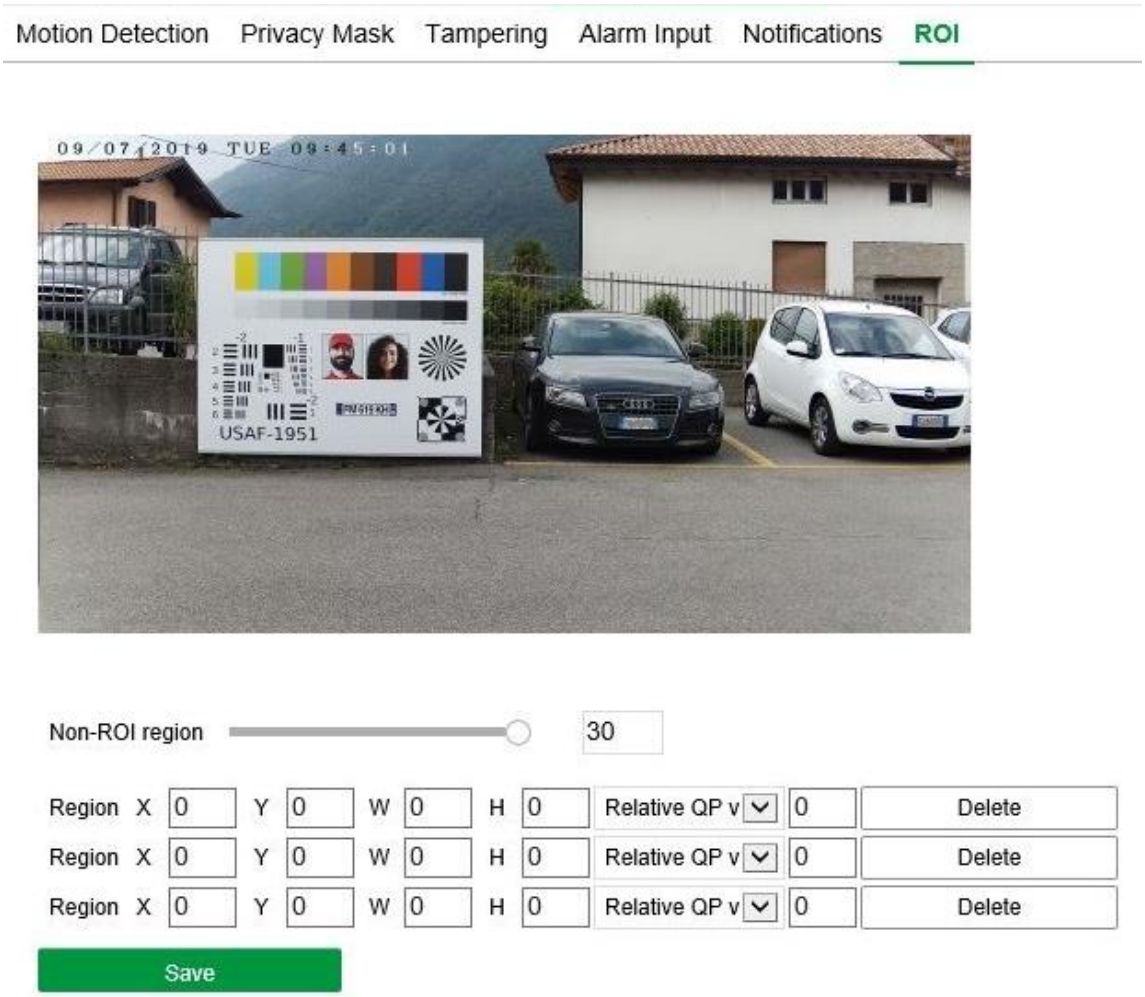


Figure 6-42

To set the ROI:

1: [Area set]. Click and hold the left mouse button and drag to select the area.

2: [Set "Relative QP value" or "Absolute QP value"]. Select "Relative QP value" or "Absolute QP value" in the corresponding area position and enter the corresponding value.

3: Slide the scroll bar to set the frame rate of the non-ROI area, and click

If you want to delete a Region, click on the corresponding "Delete" button.

Click the “Save” button to complete the setting.

Chapter 7 - Frequently Asked Questions

1.Why cannot access the camera by Internet Explorer?

Answer. There maybe 3 reasons:

a. The network is unreachable?
   Connect the network cable at a PC and check the if the network cable is good. Check if the network between the camera and the PC is good.
b. The IP address of the camera is occupied by other device or PC?
   You can connect the camera with your PC directly and modify the IP address or you can use the Smart Search tool.
c. The camera maybe in other network segment?
   Check the camera IP address and subnet mask.

2. Why cannot access the camera after update?

Answer: Clean the browser cache.

Open Internet Explorer, click “Tools” and select “Internet Options”. Then you can see “Temporary Internet files”, click “Delete Files”. It will prompt a dialog, check “Delete all offline content” and click “OK”.

You can also click “Start”, select “Run” then enter “cmd”. Enter “arp -d” in “Command Prompt” interface. Re-access the camera.

3. Why cannot show the whole interface?

Answer: Close some options of Internet Explorer.

Open Internet Explorer, click “View” and select “Toolbar”. Close “Favorites bar”, “Status bar” and “Command bar”.

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