IP Cameras,

Smart series 2.0

User manual

Before using this device, please read this manual carefully and keep it safe for future reference

www.comelitgroup.com

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Safety instructions

This manual is designed to ensure correct use of the product by the user, without risks or material damage. Please read it carefully and keep it safe for future reference. Precautionary measures are divided into “warnings” and “precautions”, as described below:

Warnings: obscuring the warnings may lead to death or serious injury.

Precautions: obscuring the precautions may lead to 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

- National and local electrical safety standards must be strictly observed during installation and use.
- Use the corresponding power adapter.
- Do not connect several IPCs with a single power supply unit (overloading the adapter may cause overheating or present a fire hazard).
- Switch off the power supply while connecting or disassembling the device. Do not carry out any work while the power supply is active.
- The device must be securely fastened when wall or ceiling mounted.
- Switch off the power supply and disconnect the power supply cable immediately if you notice any smoke, odours or noise coming from the IPC. The contact your equipment dealer or the service centre.
- If the IPC is not working properly, contact your local equipment dealer or your nearest service centre. Do not attempt to disassemble or modify the device yourself (we shall not be held liable for any problems caused by unauthorised repairs or servicing).

Warning

- Make sure the power supply voltage is correct before using the camera.
- Do not let objects fall on the device, do not subject the device to strong vibrations and keep the device well away from sites in which magnetic interference is present. Avoid installing the device in sites where the surface is subject to knocks or vibrations (failure to observe this guidance may damage the device).
- Do not point the camera lens towards high-intensity light sources, such as the sun or incandescent lamps. High-intensity light may damage the camera beyond repair.
- Do not expose the IPC for indoor use to sites which may be subject to rain or very humid conditions.

- Keep the product in a dry environment with a non-corrosive atmosphere, away from direct sunlight, places with poor ventilation and sources of heat such as radiators and heating systems (non-observance of this warning may present a fire hazard).
- To avoid damaging the IPC, do not place it in areas subject to soot or steam, excessively high temperatures or large amounts of dust.
- Do not touch the product cooler directly, as doing so may result in burns.
- When cleaning, remove dirt from the casing with a soft cloth. Use a dry cloth to remove dirt. When the dirt is difficult to remove, use a mild detergent. Do not use alkaline detergents when cleaning. If there is dust on the lens, wipe it clean with a special lens cleaning cloth.
- Products connected to the Internet may experience network security problems. Increase data security and personal information protection. When it appears that the product may present a network security risk, act quickly.
- **Remember that it is the user's responsibility to configure all passwords and other product security settings correctly, and to keep their username and password in a safe place.**
- Store all the original product packaging materials carefully so that, in the event of problems, these packaging materials can be used to package the product and send it to the dealer.

(Note: to keep things brief, in this manual the network camera is referred to with the acronym IPC)

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Chapter 1 - Introduction

1.1 Product specifications

This section introduces the IPC specifications, allowing the user to familiarise themselves with the device.

- Video functions and instant acquisitions

The network camera supports video recording and the instant acquisition function.

- Mirror image function

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

- Day/night mode adjustment

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

- Electronic shutter function

Electronic shutter for low light conditions. In a dimly lit room, the low lighting electronic shutter function can be set so the network camera shutter slows down automatically, prolonging the exposure time to obtain brighter images with less “noise”.

- Background light balancing or WDR (Wide Dynamic Range) function

When the background light balancing function is enabled, the network camera automatically adjusts the brightness of the target area to ensure that the image can be seen clearly.
When the WDR (Wide Dynamic Range) function is enabled, the network camera automatically balances the brightest and darkest areas in the image to show greater detail.

- Event-related functions

Events managed by the network camera include motion detection, tampering, video loss, alarm input/output, etc.

- User management

You can manage several different users and configure different authorisations for each user.

- Video playback

Micro-SD card recording support.

- Cloud archive function

The network camera supports the cloud archive function, to save device recordings to the cloud.

Note

- **The above network camera specifications depend on the specific model**; check the technical parameters for your device!

Chapter 2 - Operating instructions

2.1 Network connection

To view and configure the network camera on the network, the IP camera must be connected to the computer in use and the Smart Search tool or the Smart CMS software installed to find and edit the IP address of your network camera. The tool and the software is available to download from our website https://www.comelitgroup.com

2.1.1 Wired network connection

Before configuring the network camera, make sure the IP camera is connected to the computer and that you can access the network camera you want to configure. Two types of wired connection are available; first, you can connect the network camera directly to the computer using a network cable, as shown in figure 2-1:

Figure 2-1

The network camera can be connected via the LAN using a network switch or router, as shown in figure 2-2:

Figure 2-2

2.2 Finding and editing the IP address

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

Step 1: Ricerca dell'indirizzo IP dell'IPC.

- The Smart Search tool can be used to search for all online cameras in the LAN and to view their IP address, MAC address, version, port and other information, as shown in figure 2-3:

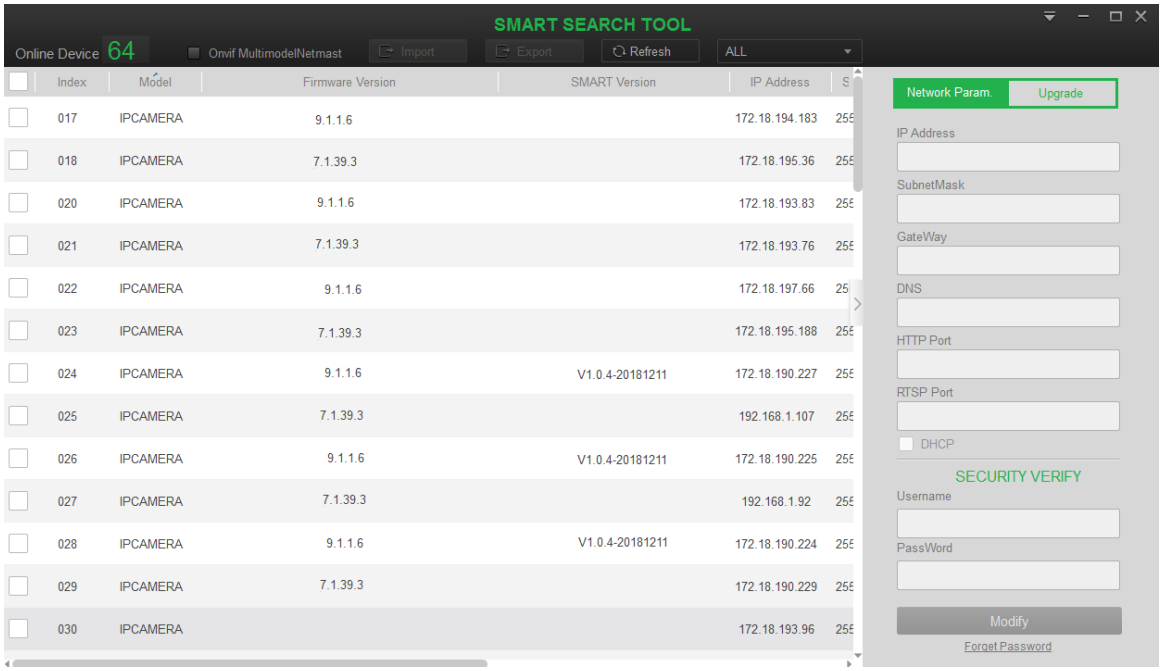


Figure 2-3

- Using Smart CMS software to search for online devices.

Step 2 : Modificare l'indirizzo IP e la maschera di sottorete impostandola sulla stessa sottorete del computer.

- In the Smart Search tool, select the IP editing device. The IP and gateway can be edited and the password entered on the right-hand side of the interface. To save, click “Modify”.

Step 3 : Aprire il browser, inserire l'indirizzo IP della telecamera per accedere alla schermata di accesso web.

Note:

- The **default IP address** is **192.168.1.150**, the port number is 80. The **default** administrator has **username admin**, the **default password** is **admin**. **We strongly recommend changing the initial password after you have logged in for the first time**.
- To access the IPC for various sub-networks, set the network camera gateway after logging in. For more details, please refer to paragraph 7.3.1.

2.3 Setting the network camera on the WAN

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

2.3.1 Static IP connection

Before you begin:

Apply a static IP address from an ISP (Internet Service Provider). The static IP address can be used to connect the network camera via router or directly via WAN.

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

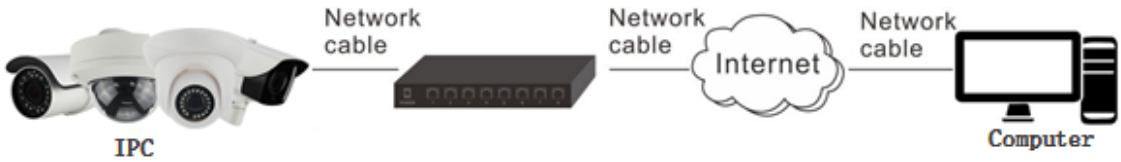


Figure 2-4

The steps are as follows:

Step 1: Connect the network camera to the router.

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

Step 3: Save the static IP address on the router.

Step 4: Set the port mapping, for example ports 80, 8000 and 554. The port mapping steps vary depending on the different routers.

Step 5: Access the network camera via a web browser or software on the Internet.

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

Figure 2-5

The static IP address can also be saved on the camera, which is then connected directly to the Internet without having to use a router. For more details, please refer to paragraph 7.3.1.

2.3.2 Dynamic IP connection

Before you begin:

Apply a dynamic IP from an ISP. The dynamic IP address can be used to connect the network camera to a modem or router.

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

The steps are as follows:

Step 1: Connect the network camera to the router.

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

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

Step 4: Set the port mapping, for example ports 80, 8000 and 554. The port mapping steps vary depending on the different routers.

Step 5: Apply a domain name supplied by a domain name provider.

Step 6: Configure the DDNS settings in the router setup interface.

Step 7: Log in to the camera using the applied domain name.

Note:

- The IP address obtained is assigned dynamically via PPPoE, therefore the IP address always changes after the camera has been restarted. To overcome the inconvenience of the dynamic IP address, you need to obtain a domain name from the DDNS provider (e.g. comelitdns). Proceed as follows for normal domain name and private domain name resolution in order to resolve the issue.
- **Normal domain name resolution as shown in figure 2-6:**

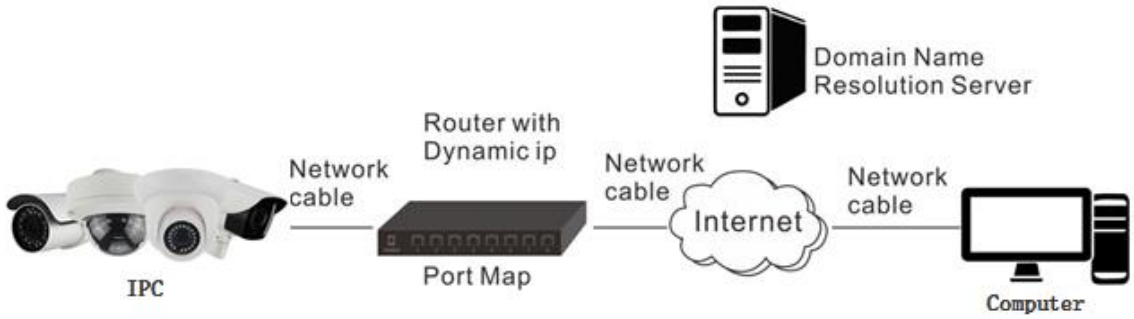


Figure 2-6

The steps are as follows:

Step 1: Applicare un nome di dominio fornito da un fornitore di nomi di dominio.
Stage 2: Configure the DDNS settings in the network camera setup interface. For more details, please refer to paragraph 7.3.2.
Stage 3: Log in to the camera using the applied domain name.

Chapter 3 - Accessing the IPC via web client

3.1 Installing HsWebplugin.exe controls

Note:

- If the IP address for your network camera has already been changed, log in with the new IP address.

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

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

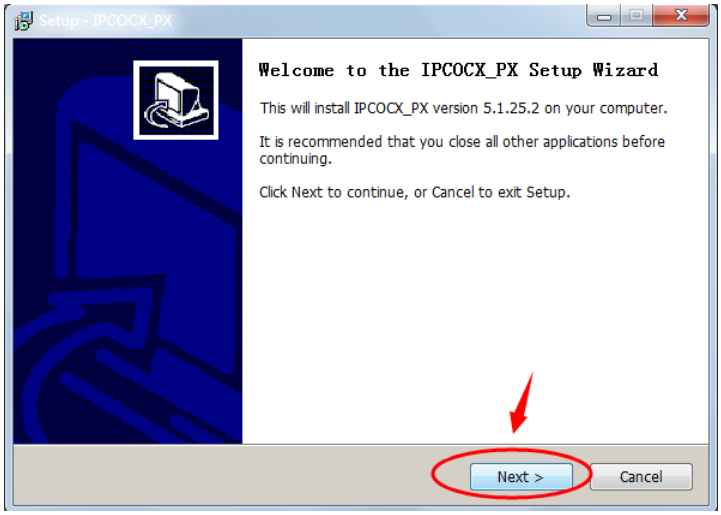


Figure 3-1 (1)

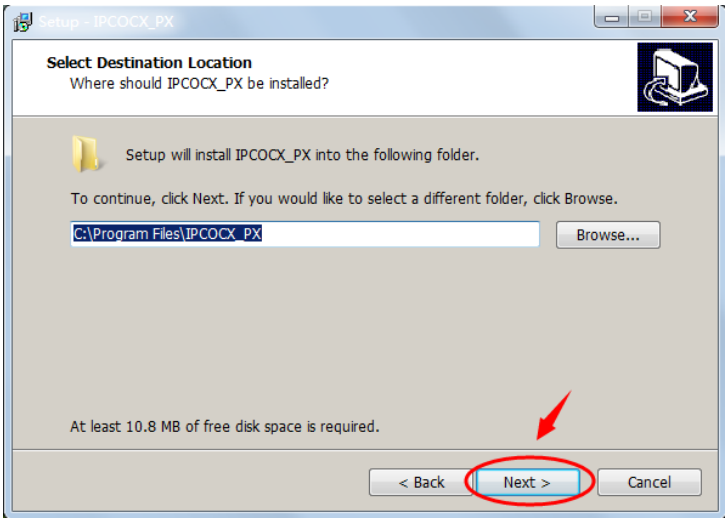


Figure 3-1 (2)

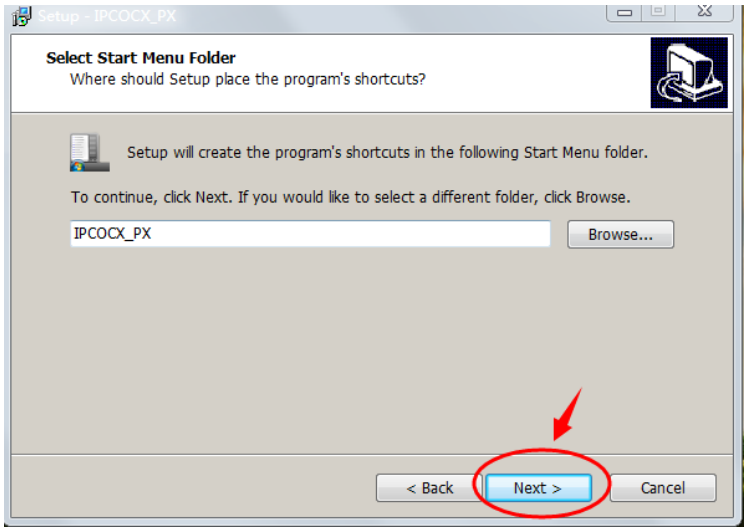


Figure 3-1 (3)

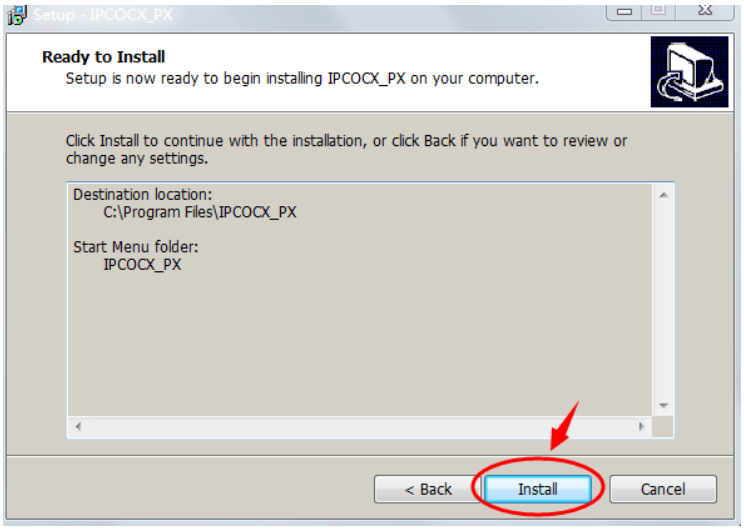


Figure 3-1 (4)

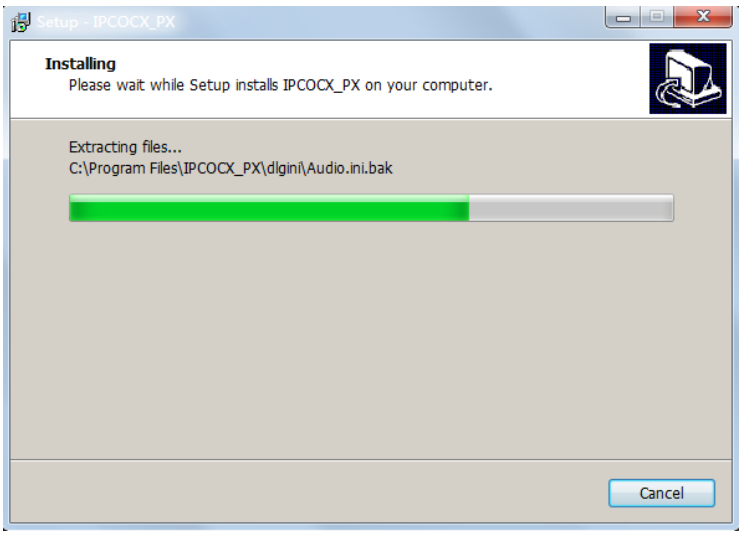


Figure 3-1 (5)

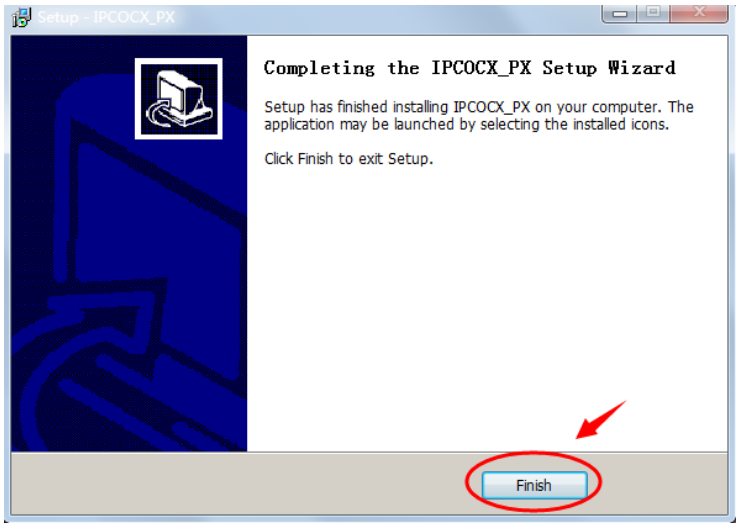


Figure 3-1 (6)

Click “Finish”.

Note

If the system indicates an “installation error”, deselect “Enable Protected Mode” in the “Internet Options” “Security” tab and enter a “Custom level” for settings relating to ActiveX control, as shown in Figure 3-2. Reinstall HsWebplugin.exe and save the settings.

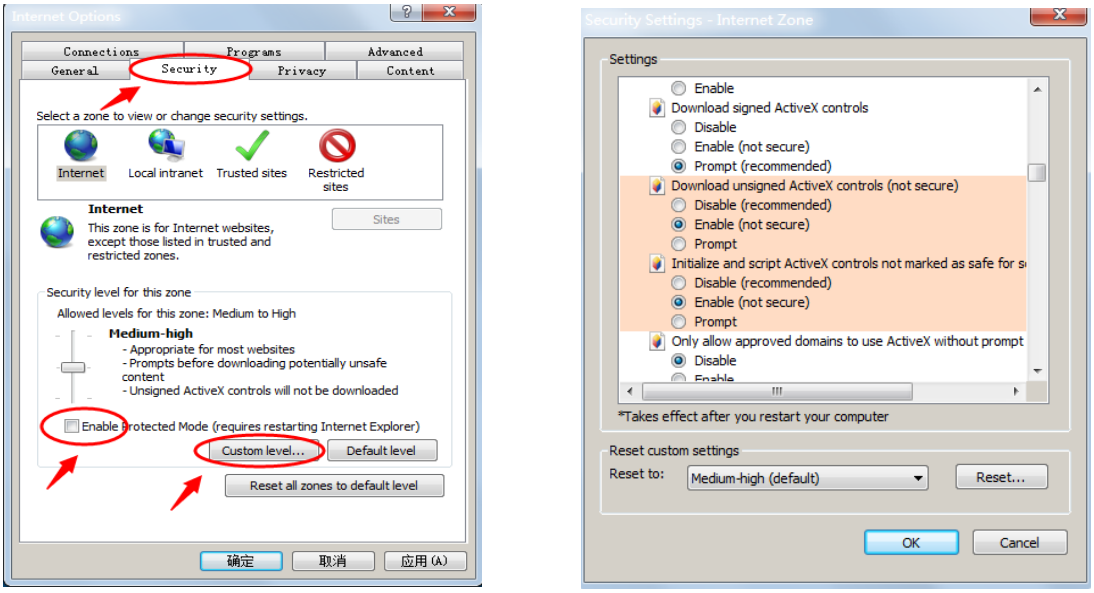


Figure 3-2

3.2. Login/logout options and changing the password

3.2.1 Login

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

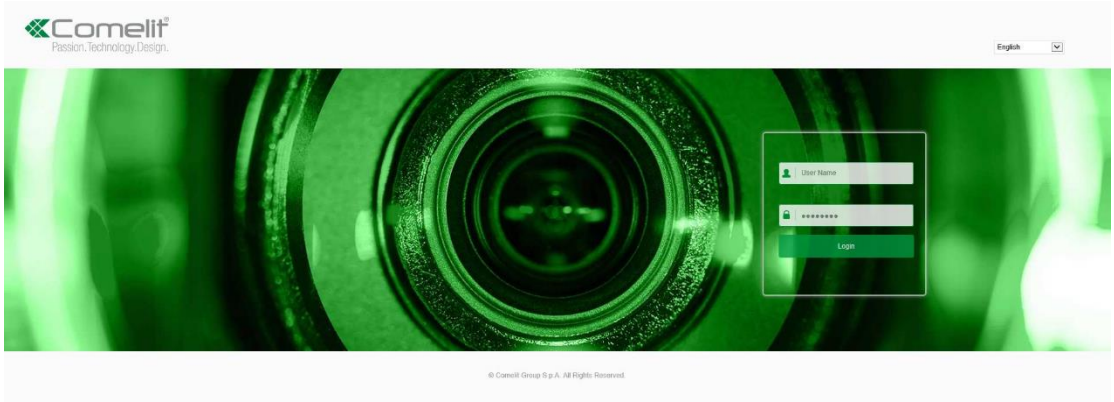


Figure 3-3

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

3.2.2 Changing the password

After successfully logging in, the interface will prompt you to change the password, as shown in figure 3-4:

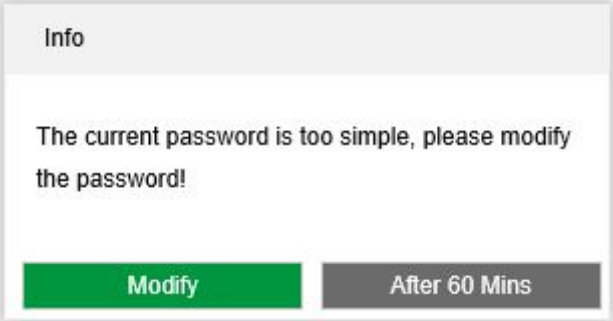


Figure 3-4

To increase account security, click “Modify”, entering the user interface to change the password as shown in figure 3-5:

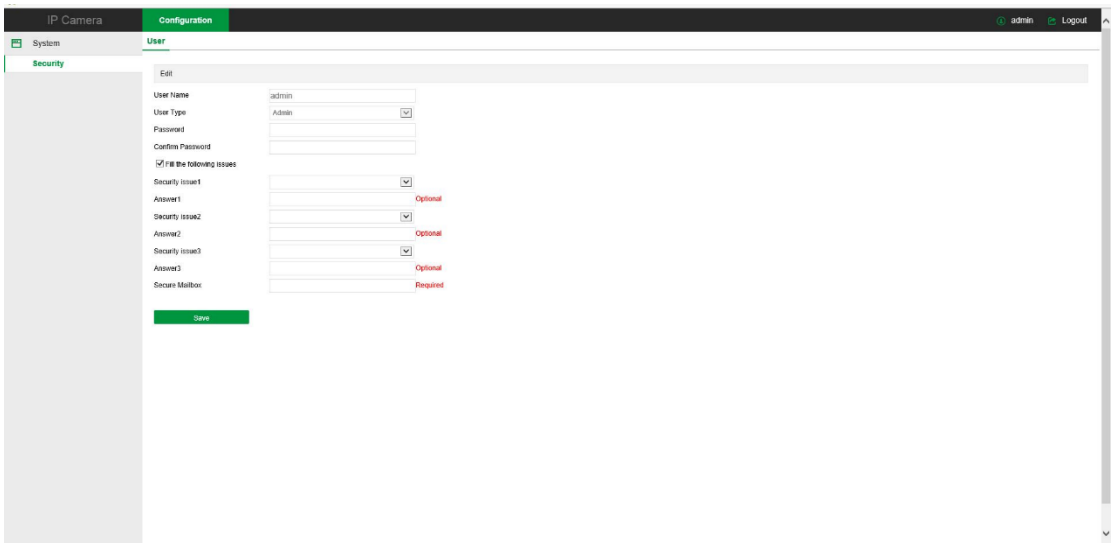


Figure 3-5

To change the password:

1: Enter the old password and the new password in the Password and Confirm Password fields;
2: Enter security questions 1, 2, 3 in accordance with your own requirements. This is optional and you do not have to complete these sections;
3: Click “Save” to complete the password change procedure.

Note:

- If the IPC password is not changed from the initial “admin”, every time you log in you will be prompted to change the password. You can select “After 60 Mins”. After 60 minutes, the password change screen will appear automatically.
- When you change 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 if you forget it.
- After changing the administrator password, when the PC and the device are located in the same LAN segment, click Forgot Password to reset the password by answering the security question or importing the key.

3.2.3 Logging out of the system

When entering the main interface for the network camera, you can click the top right-hand corner

to log out.

3.3 Description of the main interface

The main IPC interface can be used to view a video preview in real time, start playback or set the configuration. The interface is pictured in figure 3-6:

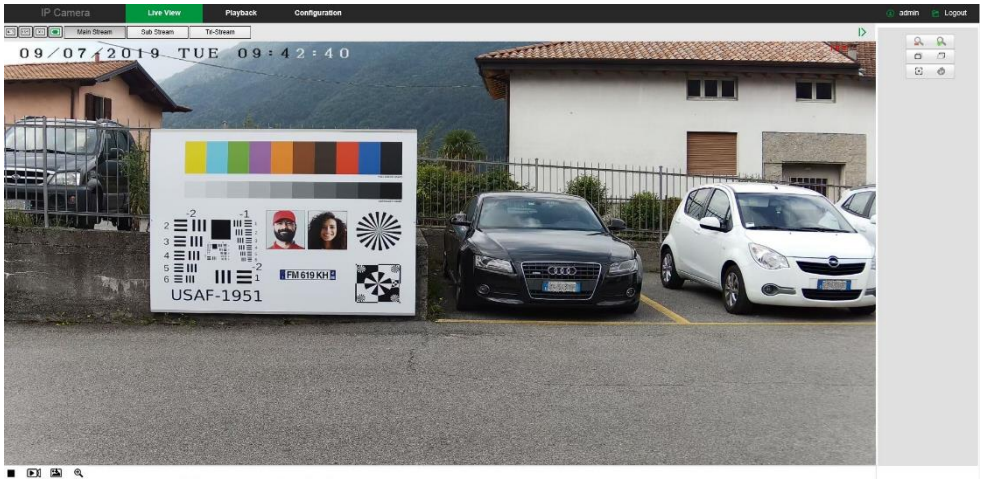


Figure 3-6

Live View. Video preview. The video encoding stream can be switched and videos, snaphots, electronic zoom and other functions managed.

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

Configuration. Click Configuration to set the parameters.

Chapter 4 - Live preview

4.1 Live preview

Click

to access the screen shown in figure 4-1:

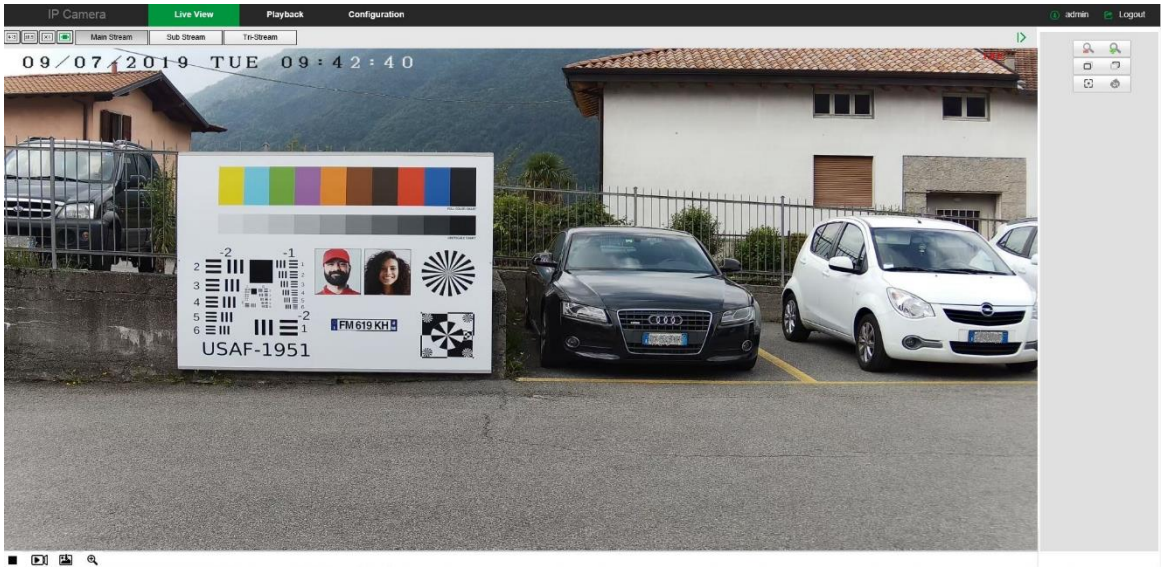


Figure 4-1

Change window size. Click the buttons in the top left-hand corner to change the screen size, choosing from the available options (4:3, 16:9, X1, whole screen).

Change stream. There are also buttons in the top left-hand corner for switching the stream. Click “Main Stream”, “Sub Stream” or “Tri-Stream” to change the video preview stream.

The buttons available on the preview screen are listed in table 4-1.

Icon	Description
	The image is shown in 4:3
	The image is shown in its original format
	The image is shown in 16:9
	Auto-adapting window dimensions
Main stream/Sub stream/Tri-Stream	Preview stream in real time
	Start/Stop live streaming
	Start/Stop manual recording
	Manual snapshot

	Enable/Disable electronic zoom function. Click the electronic zoom function and press and hold the left mouse button to select the electronic zoom area. The selected area is shown on the screen
Open/Close Sound	Enable/Disable audio
	Open/Close intercom

Table 4-1

Chapter 5 - Playback

On the main screen, click Playback to retrieve the videos recorded on the micro-SD card.

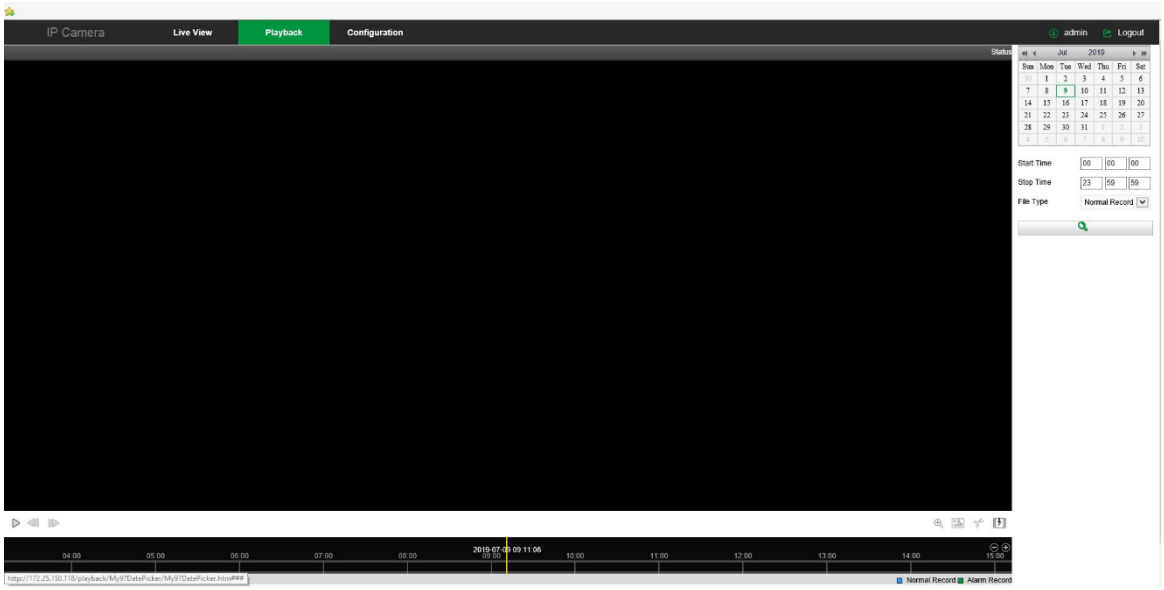


Figure 5-1

You can select the video type (normal, alarm) and video time here.

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

Playback/Stop. After searching for a video, click to start video playback and click to stop video playback.

Drag and drop. Click and hold the time bar with the left mouse button and drag it left and right to select the point at which you want playback to start.

Fast forward. Click to double playback speed.

Slow motion. In fast forward mode, click to return to normal speed.

Electronic zoom. Click , press and hold the left mouse button to select the electronic zoom area; click to disable electronic zoom.

Snapshot. Click to capture the current image from the playback screen. A window appears in which you can select the destination folder for the captured image.

Video clip. Click to select the starting point of the video clip; click to stop the video clip. A window appears in which you can select the destination folder for the video clip.

Audio. If the video file contains audio, click during playback to enable and disable the function. The volume can also be adjusted.

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

Zoom out from the time bar. When the time bar is enlarged, click the button to return to the standard time bar.

Search and download video file. Select the date on the calendar, the time period and the video type. Click on the right-hand side of the window to display the video download interface. All videos of the relevant type and in the corresponding time period will be searched, as shown in figure 5-2:

172.18.193.251/playback/download.html 90%

NO.	File Name	Start Time	Stop Time	File Size	Progress
1	2017-06-02-08-00-44.avi	2017-06-02 08:00:44	2017-06-02 08:04:11	22.777 MB	
2	2017-06-02-15-55-11.avi	2017-06-02 15:55:11	2017-06-02 15:55:23	1.614 MB	
3	2017-06-02-16-04-19.avi	2017-06-02 16:04:19	2017-06-02 16:14:20	66.181 MB	
4	2017-06-02-16-14-20.avi	2017-06-02 16:14:20	2017-06-02 16:24:21	66.057 MB	
5	2017-06-02-16-24-21.avi	2017-06-02 16:24:21	2017-06-02 16:34:22	66.556 MB	
6	2017-06-02-16-34-22.avi	2017-06-02 16:34:22	2017-06-02 16:44:23	66.548 MB	
7	2017-06-02-16-44-23.avi	2017-06-02 16:44:23	2017-06-02 16:54:24	66.613 MB	
8	2017-06-02-16-54-24.avi	2017-06-02 16:54:24	2017-06-02 17:04:25	71.503 MB	
9	2017-06-02-17-04-25.avi	2017-06-02 17:04:25	2017-06-02 17:14:26	71.498 MB	
10	2017-06-02-17-14-26.avi	2017-06-02 17:14:26	2017-06-02 17:24:27	71.352 MB	
11	2017-06-02-17-24-27.avi	2017-06-02 17:24:27	2017-06-02 17:34:28	71.592 MB	
12	2017-06-02-17-34-28.avi	2017-06-02 17:34:28	2017-06-02 17:44:29	71.649 MB	
13	2017-06-02-17-44-29.avi	2017-06-02 17:44:29	2017-06-02 17:54:30	71.984 MB	
14	2017-06-02-17-54-30.avi	2017-06-02 17:54:30	2017-06-02 18:04:31	71.794 MB	
15	2017-06-02-18-04-31.avi	2017-06-02 18:04:31	2017-06-02 18:14:32	71.927 MB	
16	2017-06-02-18-14-32.avi	2017-06-02 18:14:32	2017-06-02 18:24:33	71.722 MB	
17	2017-06-02-18-24-33.avi	2017-06-02 18:24:33	2017-06-02 18:34:34	71.952 MB	
18	2017-06-02-18-34-34.avi	2017-06-02 18:34:34	2017-06-02 18:44:35	71.793 MB	
19	2017-06-02-18-44-35.avi	2017-06-02 18:44:35	2017-06-02 18:54:36	71.935 MB	

Download

Total 19Items First Page Prev Page 1/1 Next Page Last Page

Figure 5-2

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

Prev Page. Click to move to the previous page.

Next Page. Click to move on to the next page.

Last Page. Click to skip to the last page of the list of video files.

Download. Select the file to download using the checkbox and click “Download”.

Chapter 6 - Configuration

Click

in the main window to access the local configuration page. This section can be used to set the system parameters, as well as parameters relating to the network, video, images, events and other parameters.

6.1 Local Configuration

On the main screen, click “Configuration → Local Configuration” to access the relevant page, as shown below in figure 6-1:

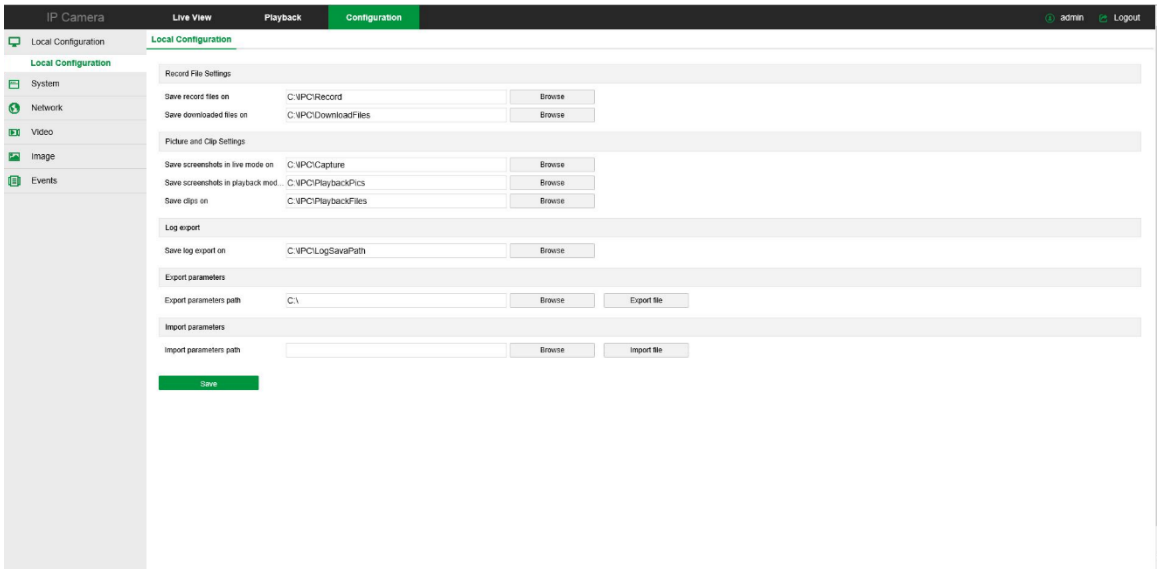


Figure 6-1

Record File Settings. Set the save location for recorded videos. Applies to record files recorded using the web browser.

Save record files on. Set the save location for manually recorded videos.

Save downloaded files on. Set the save location for video files downloaded in playback mode.

Picture and Clip Settings. Set the save location for snapshot and video clip files. Applies to all snapshots captured on the web browser.

Save screenshots in live mode on. Set the save location for snapshot files captured in live streaming mode.

Save screenshots in playback mode on. Set the save location for snapshot files captured in playback mode.

Save clips on. Set the save location for video clip files captured in playback mode.

Log export. Set the save location for the exported log.

Save log export on. Set the save location for the exported log.

Export parameters.

Export parameters path. Set the store location for IP export parameters.

Import parameters.

Import parameters path. Set the store location for IP import parameters.

6.2 System

On the main screen, click “Configuration → System” to access the relevant page.

6.2.1 System Configuration

On the main screen, click “Configuration → System → System Configuration” to access the relevant page.

Device Information

On the main screen, click “Configuration → System → System Configuration → Device Information” to access the relevant page, where you can view basic device information as shown in figure 6-2:

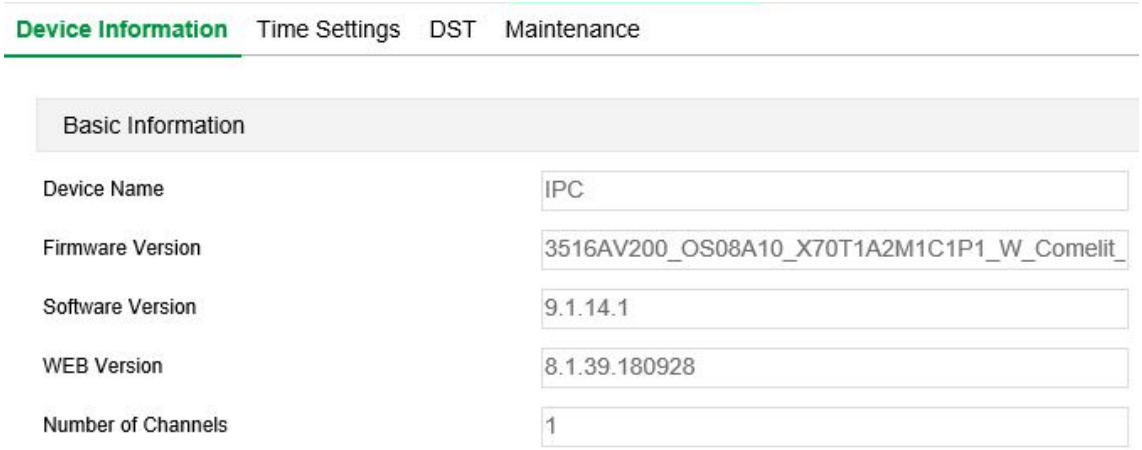


Figure 6-2

Device Name. IPC name.

Firmware Version. IPC firmware version.

Software Version. IPC HsWebplugin.exe control version.

WEB Version. IPC web page version.

Number of Channels. The number of IPC channels is 1.

Time Setting

On the main screen, click “Configuration → System → System Configuration → Time Settings” to access the relevant page, as shown below in figure 6-3:

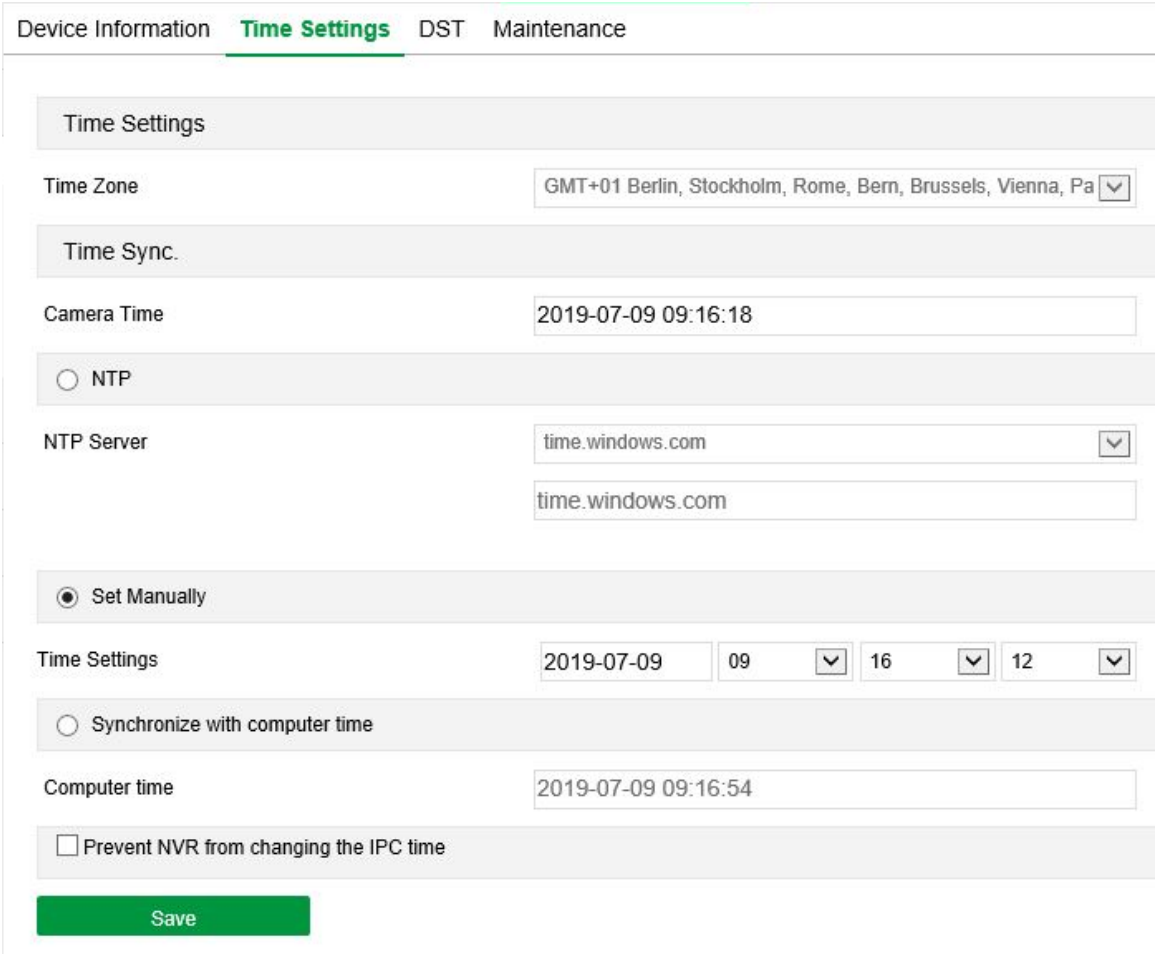


Figure 6-3

Time Zone. View the current device time zone.

Camera time. View the current device time.

NTP. The IPC time will be synchronised with the network; different time zones can be selected. Click “Save” after completing the settings.

Set Manually. Used to manually set the IPC date and time. Click “Save” after completing the settings.

Synchronize with computer time. The IPC synchronises with the date and time on the computer. Click “Save” after completing the settings.
Prevent NVR from changing the IPC time. If you select this option, the IPC time cannot be changed from storage devices (NVRs and XVRs).

DST
On the main screen, click “Configuration → System → System Configuration → DST” to access the relevant page, as shown below in figure 6-4:

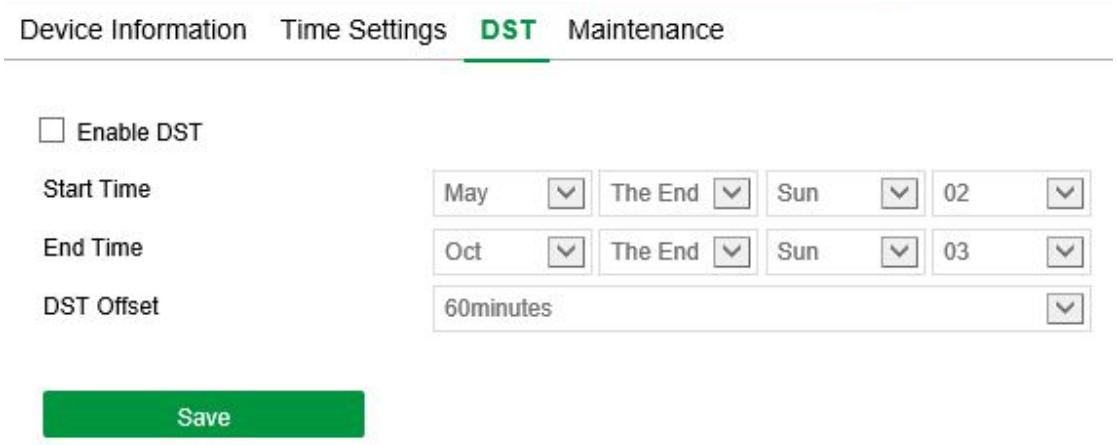


Figure 6-4

Maintenance

On the main screen, click “Configuration → System → System Configuration → Maintenance” to access the relevant page, as shown below in figure 6-5:

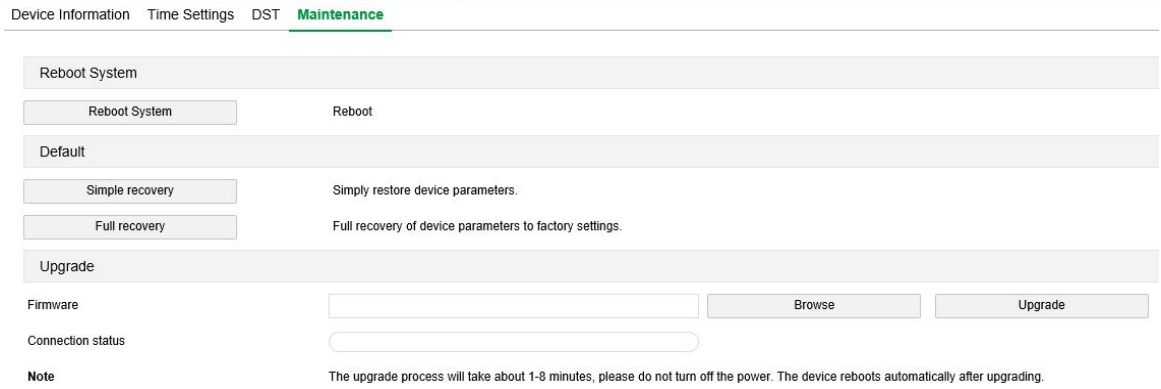


Figure 6-5

Reboot System. The IPC will restart after you click “Reboot System”.

Default. This section is divided into Simple recovery and Full recovery.

After you click “Simple recovery”, the IPC automatically restores the default parameters, with the exception of the network parameters.

After you click “Full recovery”, all IP parameter settings are automatically restored to the default values (use this function carefully).

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

6.2.3 Log Search

On the main screen, click “Configuration → System → Log search” to access the relevant page, which can be used to search for device logins, the account number, alarms and all other pertinent information, as shown in figure 6-7 below:

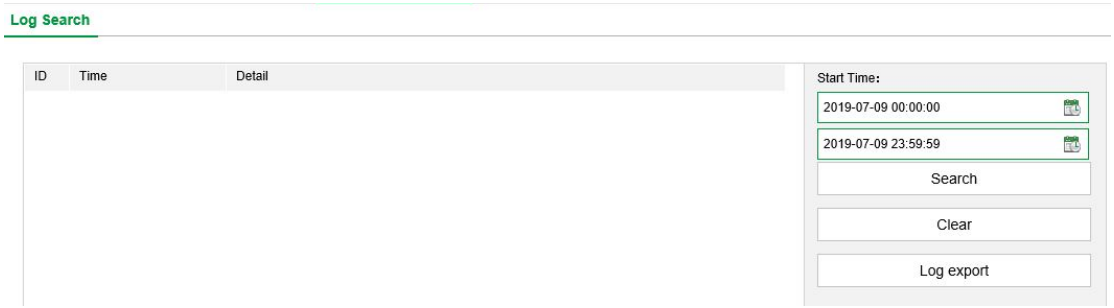


Figure 6-7

Search. Set the start and end time and click “Search” to find the desired files.

Clear. Click “Clear” to clear all logs.

Log export. Used to save the content of the selected log in txt format.

6.2.4 Security

On the main screen, click “Configuration → System → Security” to access the relevant page, which can be used to add, edit and delete users. The administrator user is “admin”; other users (up to 10) can be added as shown in figure 6-8 below:

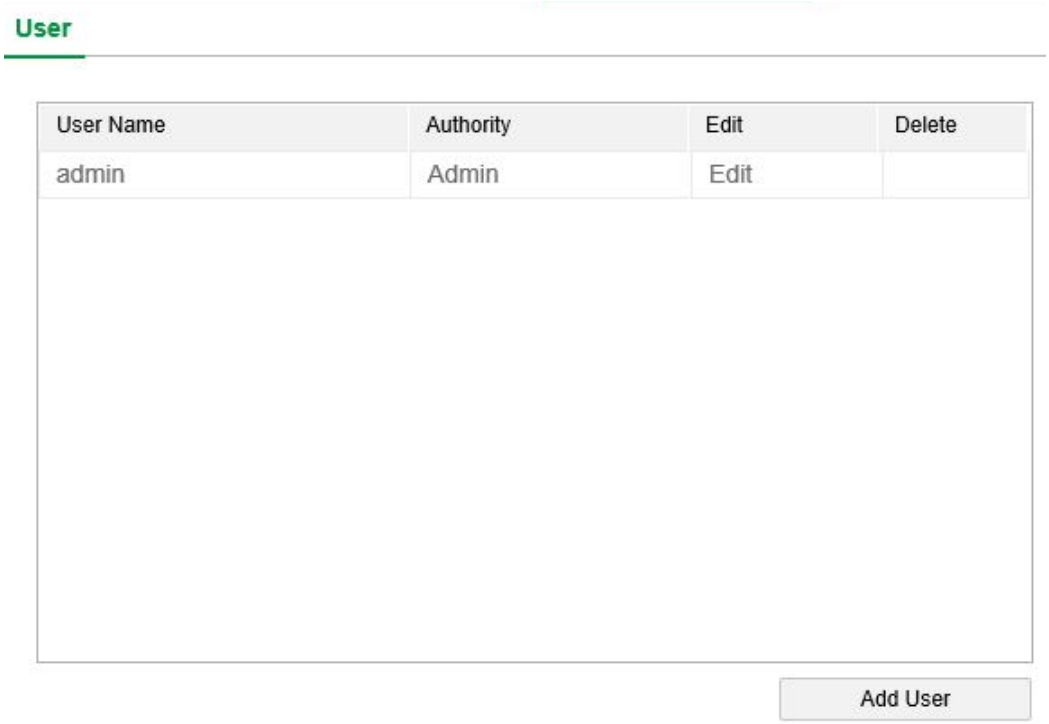


Figure 6-8

Add User

1: Click “Add User”

2: Enter the User Name, select the User Type and enter the Password

3: Click “OK” to complete the procedure

as illustrated in figure 6-9:

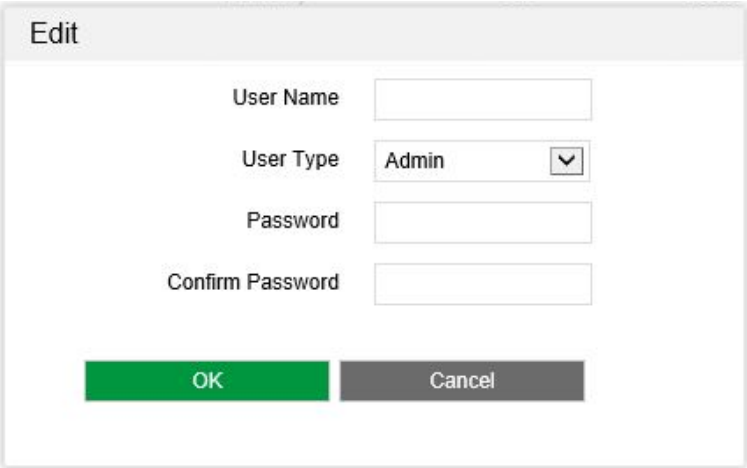


Figure 6-9

Warning

- In order to improve product security, change the password regularly. We recommend changing the password every 3 months. If the network camera is used in an environment with a high security risk, we recommend changing it once a month, or every week.

Note:

- The administrator user cannot be deleted; it is only possible to change their password.
- Description of user authorisations:

  Administrator -- has all authorisations.

  Operator -- has all authorisations (cannot implement settings relating to system security parameters).

  Guest -- only has authorisation relating to video preview.
- When setting the network camera password, the password length must be between 8-31 characters and must include numbers and letters.

Edit User (new user)

1: In the list of users, select a user to edit and click “Edit” (Edit user) to access the relevant page.

2: Edit the user name, level and password.

3: Click “OK” to end the edit user process.

Note:

- The password set criteria is the same as for adding a user.

Delete Users

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

2: Click “OK” in the dialogue window that appears to delete the user.

6.2.5 SD Card (SD/EMMC)

On the main screen, click “Configuration” → Storage → Storage management and choose “SD Card” or “EMMC” (internal memory) to access the relevant page. Here you can view information relating to the micro-SD card / internal memory and format them, as shown in figure 6-10:

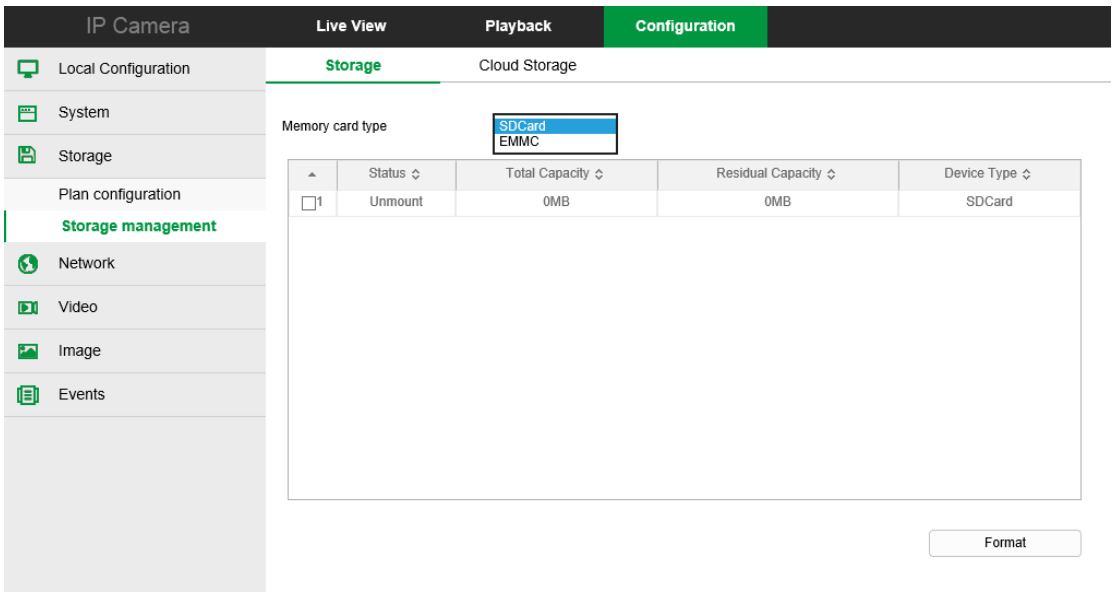


Figure 6-10

Formatting

1: Select the checkbox next to the number and click “Format”.

2: Click “OK” in the message window that appears and wait for the process to end.

3: Check the information relating to the memory, the total capacity and the remaining capacity.

Rec Setup

On the main screen, click “Configuration → Storage (Storage) → Plan configuration → Rec Setup” to access the relevant page. Here you can enable recording, select the recording mode and stream type and program recording, as shown in figure 6-11:

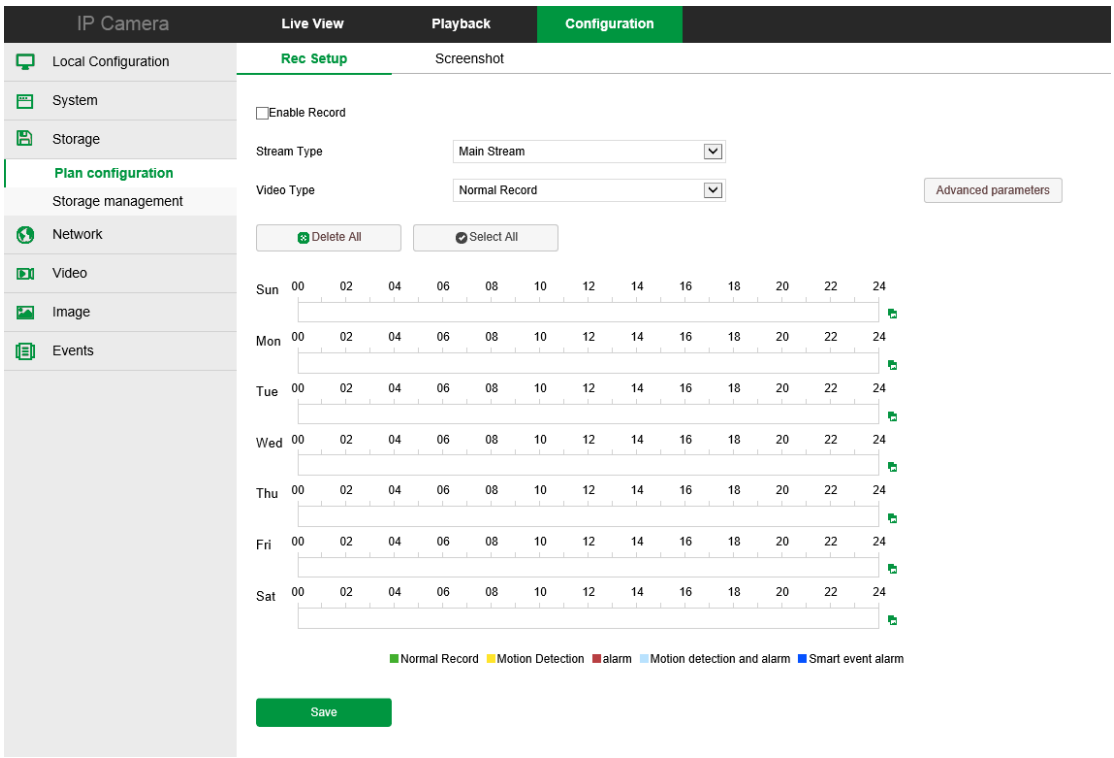


Figure 6-11

6.3 Network

On the main screen, click “Configuration → Network” to access the relevant page. The network settings are divided into a basic setup configuration and an advanced setup configuration.

6.3.1 Basic Setup

TCP/IP

On the main screen, click “Configuration → Network → Basic Setup → TCP/IP” to access the relevant page. Here you can set the IP address, the subnet mask, the gateway and the DNS, as shown in figure 6-12 below:

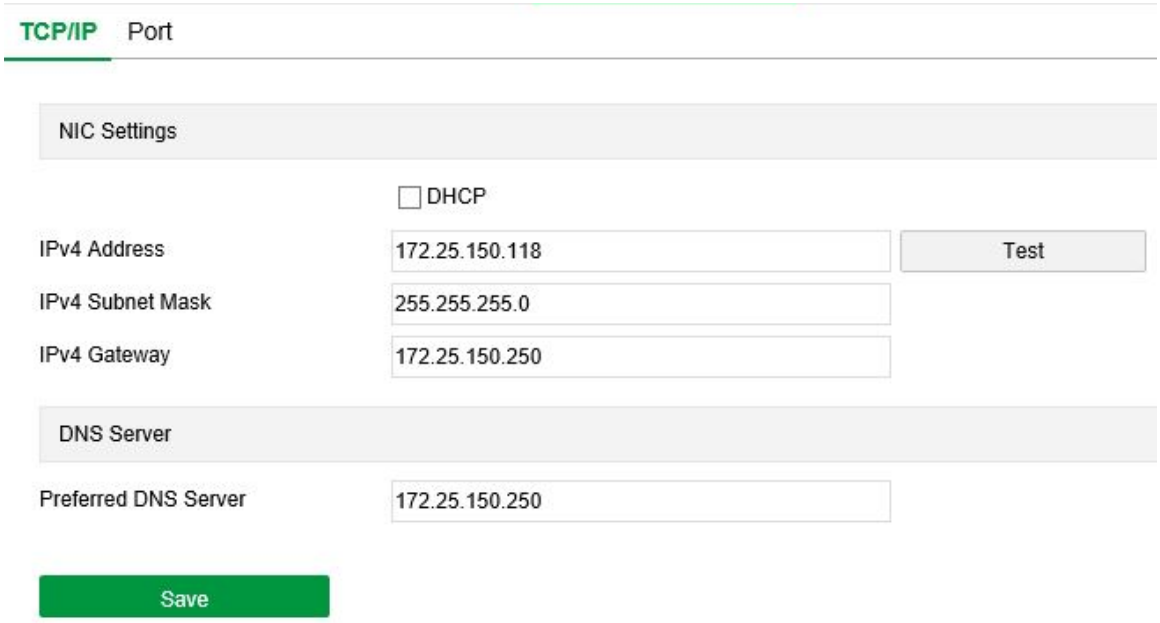


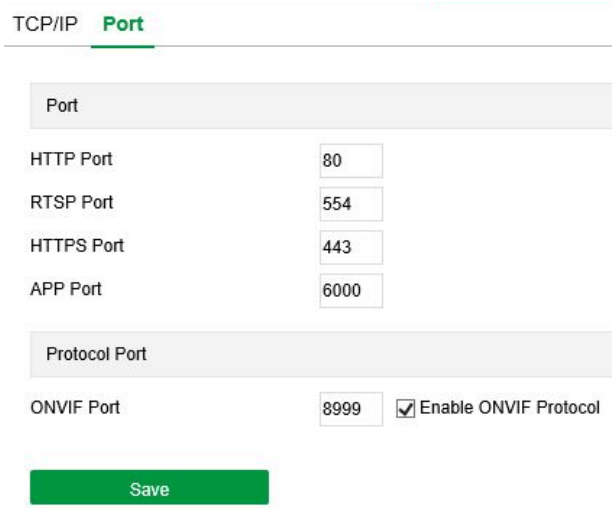
Figure 6-12

DNS

If the DHCP is disabled, the IP address of the IPC can be edited manually, along with the subnet mask, the default gateway and information on the preferred DNS server. When you have finished, click “Test” to check whether the IP address is available on the LAN. Click “Save” to complete the settings.

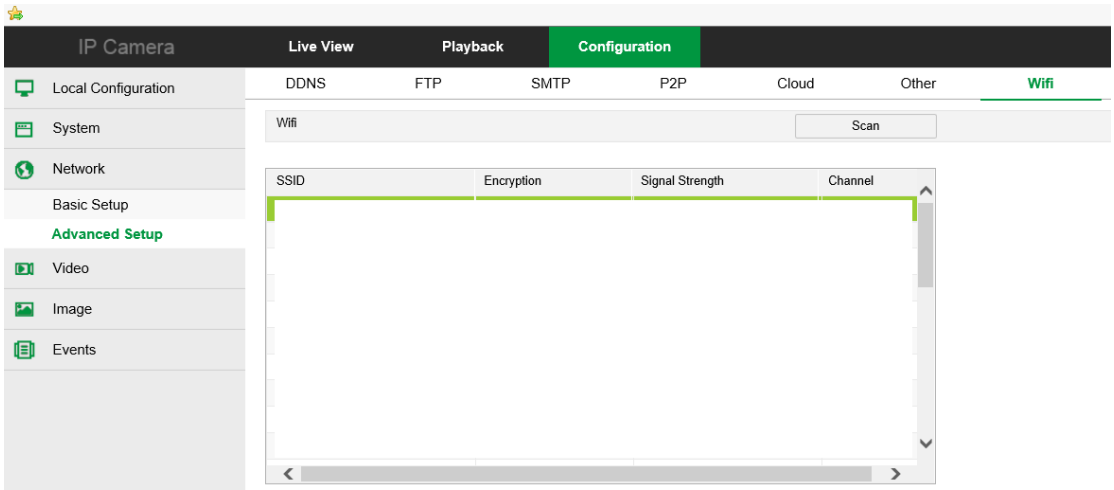
Port

On the main screen, click “Configuration → Network → Basic Setup → Port” to access the relevant page, which can be used to set the ports and network protocols for the IPC. The **default HTTP** port is **80**, the **default RTSP** port is **554**, the **default HTTPS** port is **443** and the **default port for ONVIF protocol** is **8999**, as shown in figure 6-13:

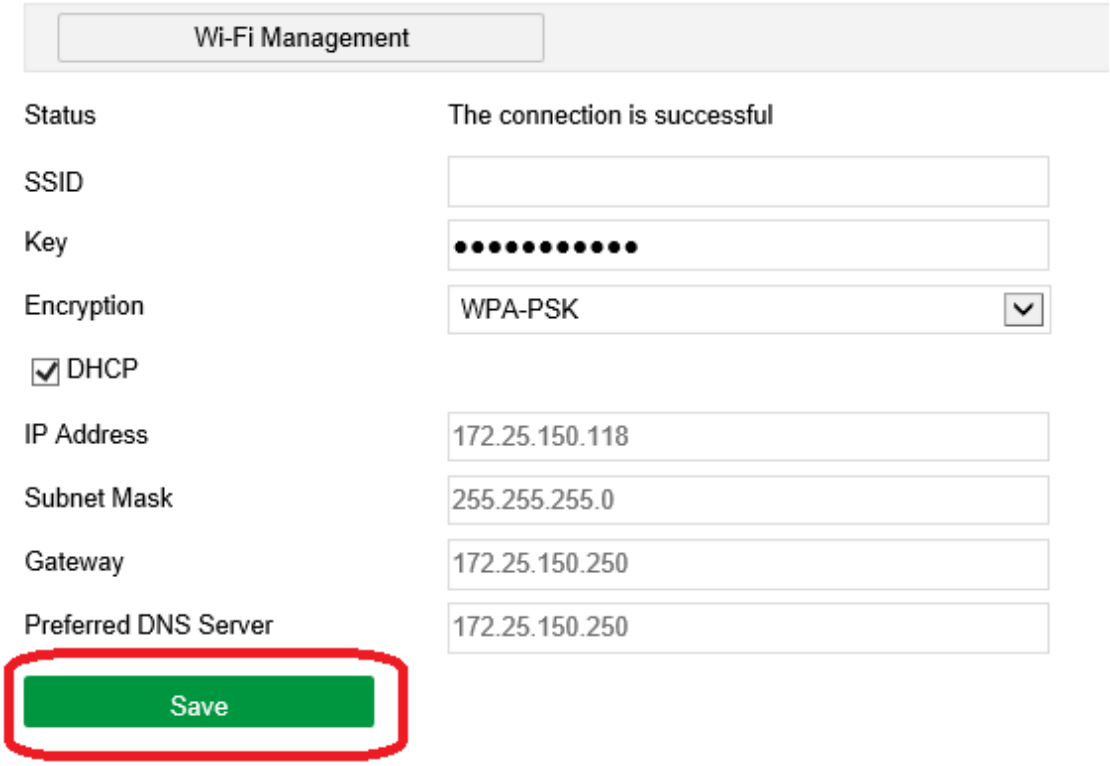


Wifi connection

In the Wifi interface, choose the Wifi router connection write the Wifi password



Press SAVE button and disconnect the LAN cable



Using “search tool” check the Wifi IP address in order to connect to the new one

Figure 6-13

ONVIF. When the IPC needs to be connected with an NVR/XVR/XVR using ONVIF protocol, this function must be enabled.

Note:

Do not arbitrarily edit the port parameters; when a port conflict arises you need to change the port number.

6.3.2 Advanced Setup

On the main screen, click “Configuration → Network → Advanced Setup” to access the relevant page, which can be used to set the DDNS, FTP, SMTP, P2P, cloud and other functions for the device.

DDNS

On the main screen, click “Configuration → Network → Advanced Setup → DDNS” to access the relevant page, which can be used to enable the DDNS function, select the type and enter the server name, username and password, as shown in figure 6-14:

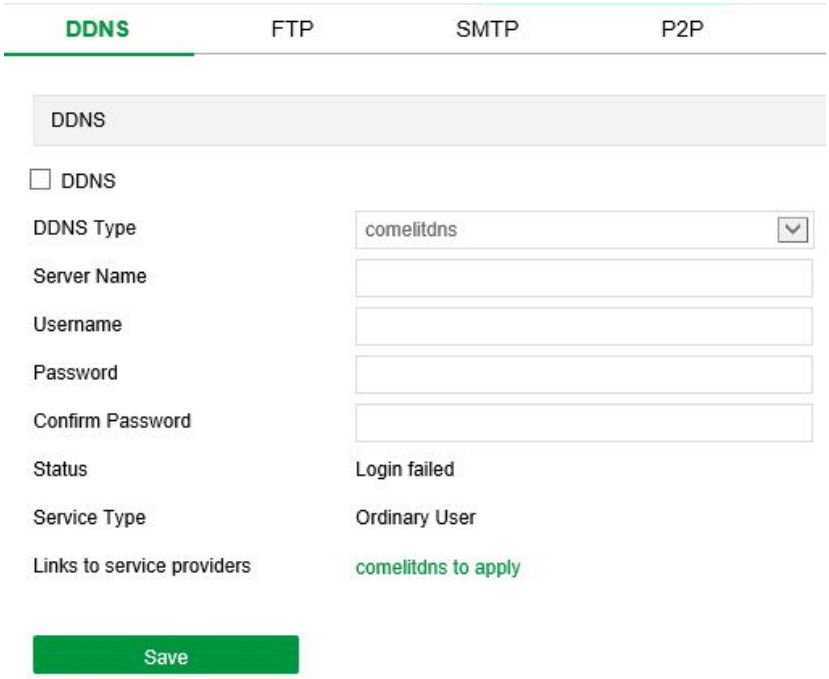


Figure 6-14

DDNS. Used to enable/disable the function.

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

Server Name. Enter the domain name.

Username. Enter the username.

Password. Enter the password.

Confirm Password. Enter the password again.

Status. Show the device status.

Service Type. Show the user type.

Links to service providers. Show service provider information.

FTP

On the main screen, click “Configuration → Network → Advanced Setup → FTP” to access the relevant page, which can be used to set the FTP server address, the port, the user name and the password, as well as to set the archive location and to select the file format. When installation is complete, click “Test” to check the connection. The FTP settings page is shown in figure 6-15.

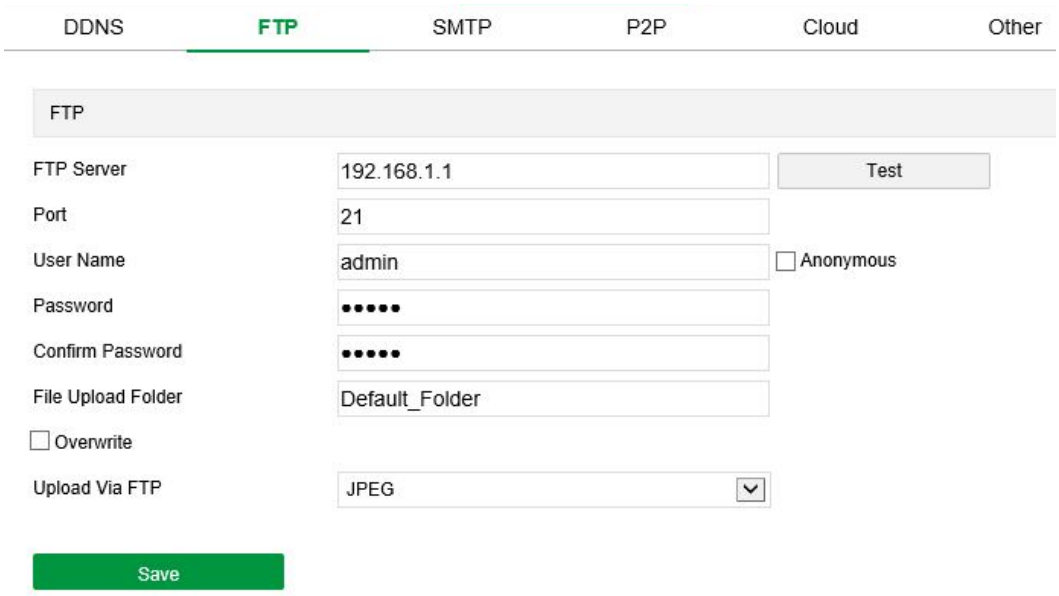


Figure 6-15

FTP Server. Enter the server address.

Port. Enter the port number for the server.

User Name. Enter the user name used on the server.

Password. Enter the server password.

Confirm Password. Enter the server password again.

File Upload. Automatically creates a folder which can be renamed in the FTP archive location.

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

Upload Via FTP. In the drop-down menu, select the FTP file format (JPEG for images and AVI for videos). Click “Save” after completing the settings.

SMTP

On the main screen, click “Configuration → Network → Advanced Setup → SMTP” to access the relevant page, which can be used to set SMTP server information, the sender’s email, the SMTP server address and the port, as well as to select the uploaded SMTP file format, the user name and the password. The SMTP settings page is shown in figure 6-16.

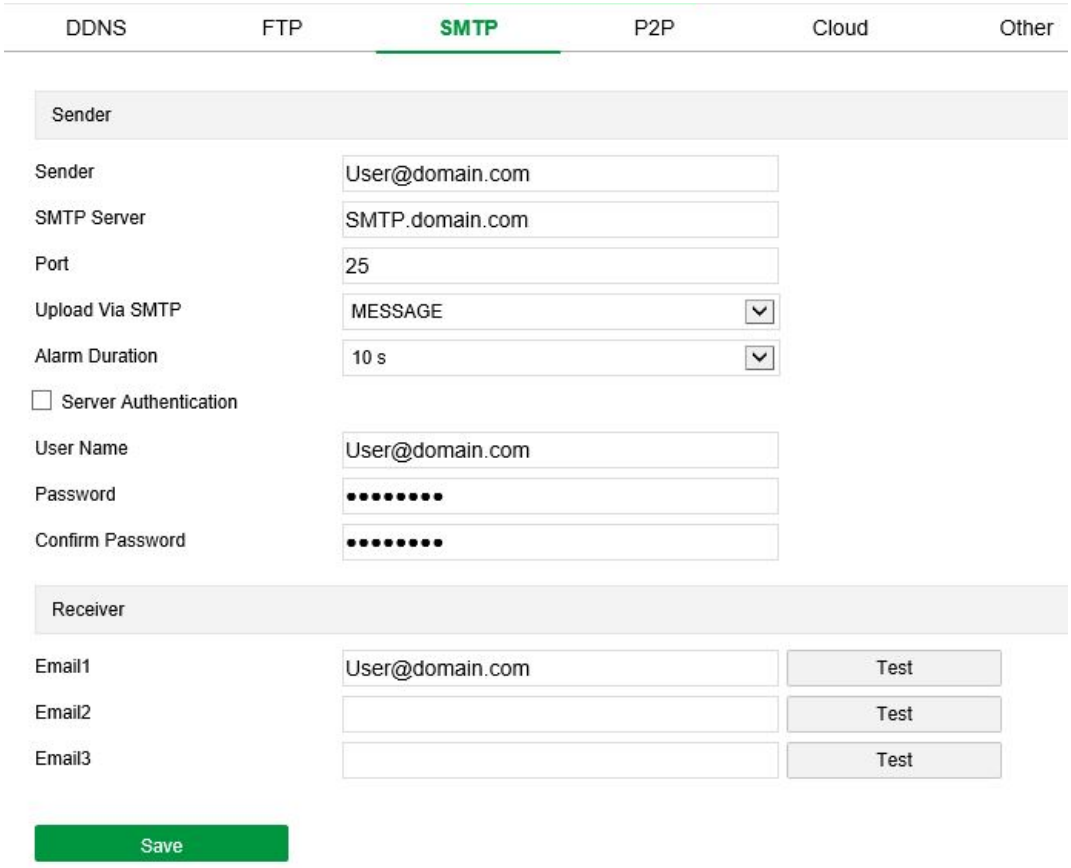


Figure 6-16

Sender

Sender. Enter the sender’s email address.

SMTP Server. Enter the email server address.

Port. Enter the email server port.

Upload Via SMTP. In the drop-down menu, select the SMTP file format (JPEG for images and AVI for videos). Click “Save” after completing the settings.

Alarm Duration. Set the sending interval.

Server Authentication. If enabled, the server and user are authenticated to ensure the data is sent to the correct client and server.
User Name. Enter the user name for the sender's mailbox.

Password. Enter the password for the sender's mailbox.

Confirm Password. Enter the password for the sender's mailbox again.

Receiver
Email 1, 2, 3. Enter the recipient's email address (up to 3 inbound mailboxes); click "Test" to make sure everything is working properly.

P2P
P2P is a private network penetration technology.
Devices can be added using the two methods below.
1) Download the Comelit View Smart app and register an account.
2) Access the P2P platform and add the device by scanning the QR code.

Note

- P2P is enabled by default.

1: On the main screen, click "Configuration → Network → Advanced Setup → P2P" to access the relevant page, as shown below in figure 6-17.

2: Select to enable P2P.
3: Click "Save" to save the configuration.
4: Click "Refresh". If the status shows "P2P connection successful", P2P is enabled and can be used as normal.

Cloud
On the main screen, click "Configuration → Network → Advanced Setup → Cloud" to access the relevant page, as shown below in figure 6-18:

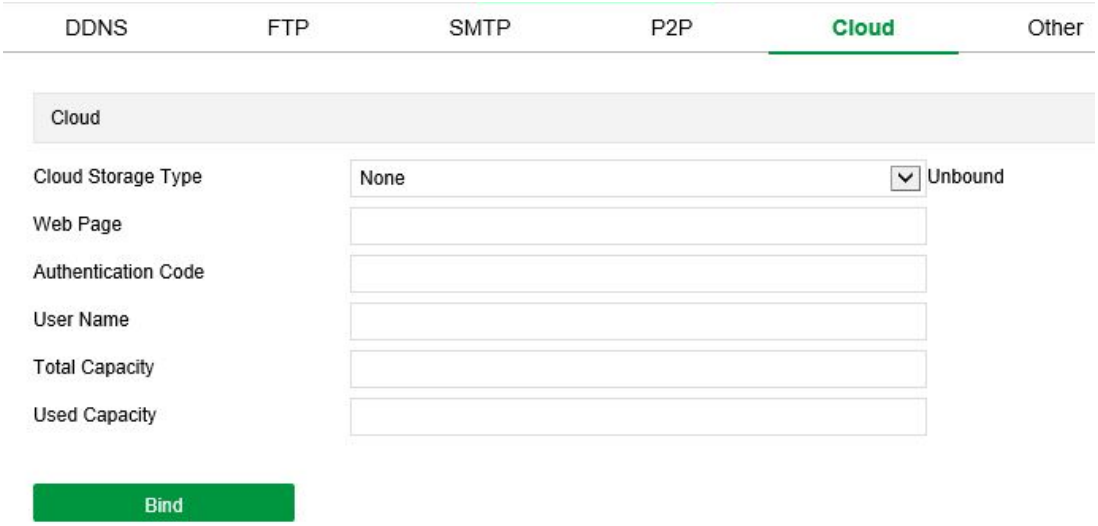


Figure 6-18

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

Web Page. Show the URL to copy in the Internet Explorer address bar to register the device.

Authentication Code. View the code used to access the registration page for the Google device.

Click “Bind”. The information “User Name”, “Total Capacity” and “Used Capacity” will be shown automatically.

Other

On the main screen, click “Configuration → Network → Advanced Setup → Other” to access the relevant page, as shown below in figure 6-19:

Figure 6-19

Video Password Authentication (if enabled, to watch videos with VLC Player via RTSP, you will need to enter the correct user name and password).

Strings for watching video with VLC Player via RTSP:

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

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

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

6.4 Video

On the main screen, click “Configuration → Video” to access the relevant page, which can be used to set video, audio and other functions.

6.4.1 Video

On the main screen, click “Configuration → Video → Video” to access the relevant page, which can be used to set the name of the IPC device, the stream type, the encoding and other video parameters, as shown in figure 6-20:

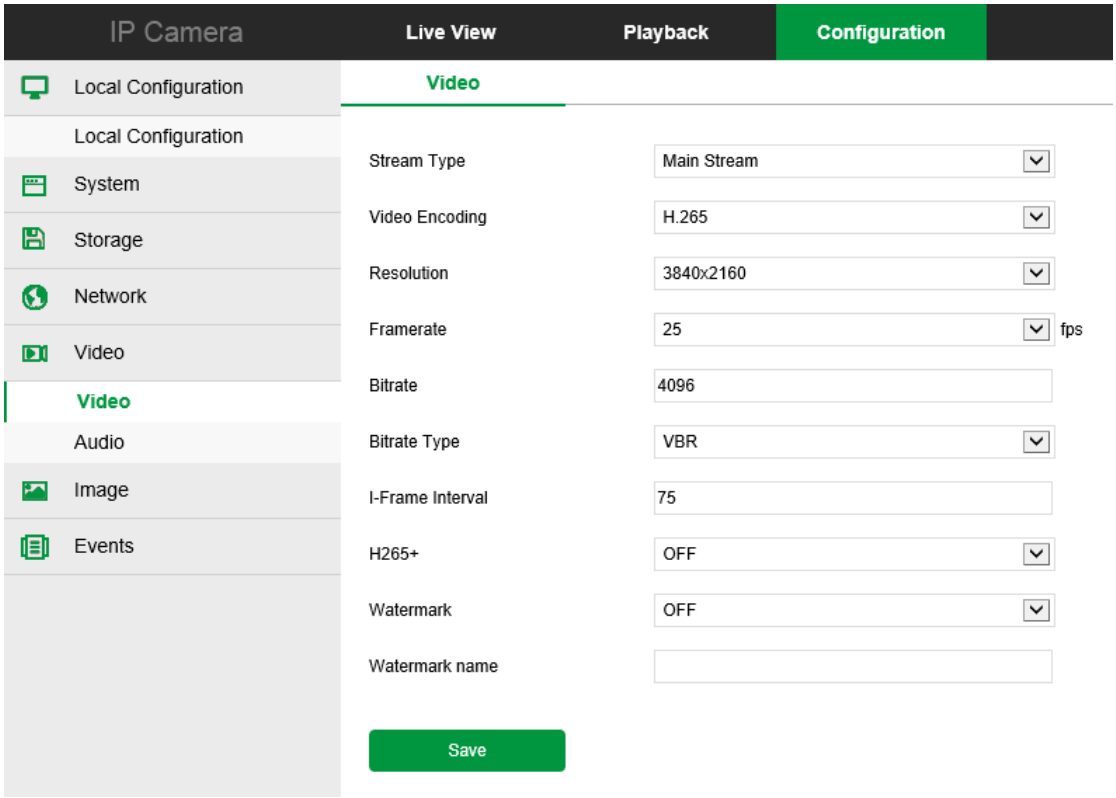


Figure 6-20

Device Name. Enter the name of the camera.

Stream Type. This may be Single / Tri-Stream.

Codec. Select the encoding type and resolution.

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

Framerate. Set the frame rate for the device video output.

Bitrate. Supports 64-12000 kbps. The higher the bitrate, the better the video quality will be, but the greater the network bandwidth occupied will be.

Bitrate Type. Select the output mode from the drop-down menu (CBR: constant bitrate, VBR: variable bitrate).

I-Frame Interval. The IPC keyframe interval can be set to 1-5 s.

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

7.4.2 Audio

On the main screen, click “Configuration → Video → Audio” to access the relevant page, which can be used to set the device audio input mode, audio encoding and volume, as shown in figure 6-21:

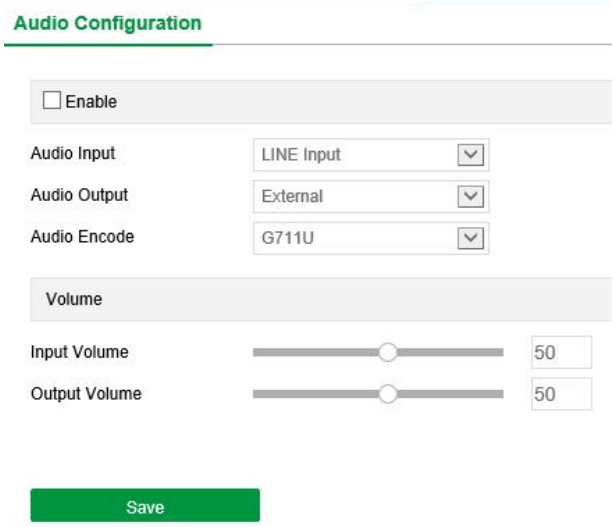


Figure 6-21

Enable. Enable audio.

Audio Input. Select the audio input type.

Audio Output. Select the audio output type.

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

Input Volume. Set the device input volume.

Output Volume. Set the device output volume.

6.5 Image

On the main screen, click “Configuration → Image” to access the relevant page, which can be used to set parameters relating to the image, the OSD menu text and other information.

7.5.1 Image

On the main screen, click “Configuration → Image → Image” to access the relevant page, which can be used to adjust parameters relating to the image, as shown in figure 6-22:

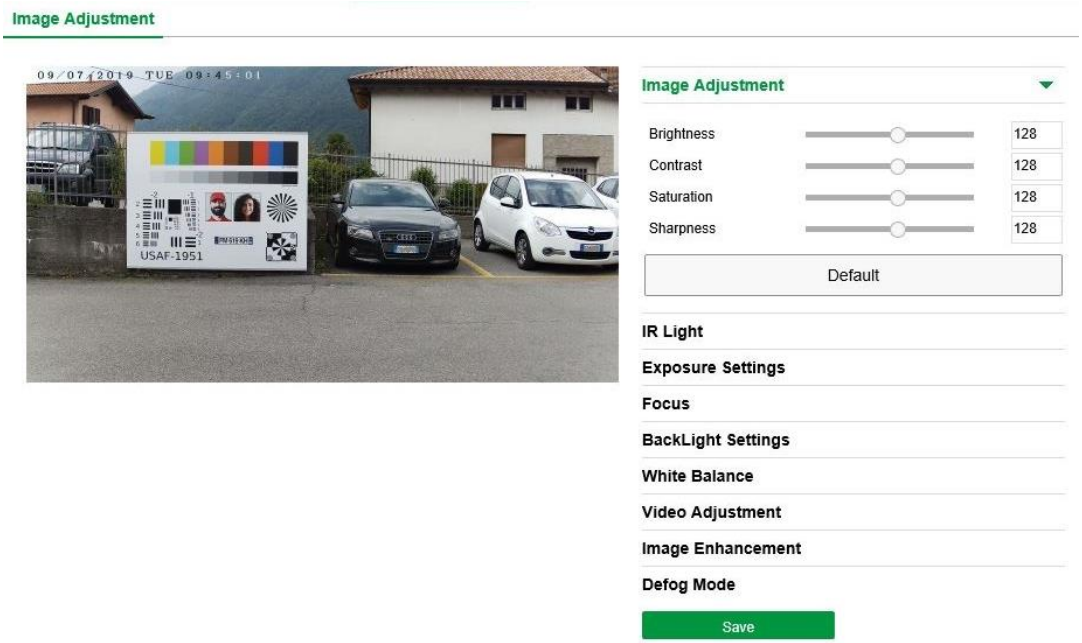


Figure 6-22

Brightness/Contrast/Saturation/Sharpness. You can set the value of these parameters. Valid values fall between 0 and 255; drag the cursor to make the setting (the default value is 128), as shown in figure 6-23:

Figure 6-23

IR Light. The default value for infrared lighting mode is “Auto”; the sensitivity level is 3, the filtering time is 3 seconds and the brightness is 100, as shown in figure 6-24 (1). When in “Auto” mode, the device activates the infrared lighting based on the surrounding environment. The user can set the infrared lighting mode to ”Day”, “Night” or “Scheduled Switch”, as well as

setting the sensitivity and the filtering time.

Figure 6-24 (1)

- When the infrared lighting mode is set to “Scheduled Switch”, you can set the Dawn Time and Dark Time (start and end time) parameters and the brightness level, as shown in figure 6-24 (2):

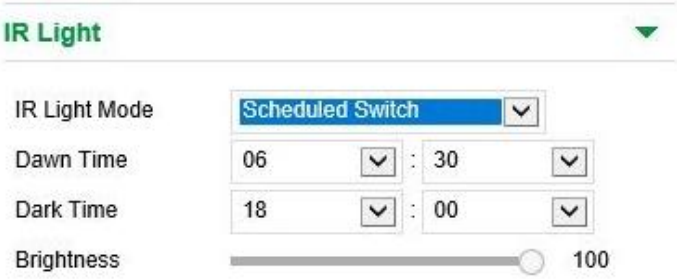


Figure 6-24 (2)

- When the infrared lighting mode is “Day”, the device video is always in colour.
- When the infrared lighting mode is “Night”, the device video is always in black and white.

Filtering Time. When the infrared lighting mode is “Auto”, the filtering time is the delay time required to switch the device video from colour to black and white and vice-versa.

Brightness. Parameter used to adjust the brightness; the adjustment interval is 0-100.

Exposure Settings. The default setting is “Auto”. If you select “Manual”, the exposure time and gain control are enabled, as shown in figure 6-25:

Figure 6-25

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

BackLight Settings. Used to set backlight balancing and strong light suppression. The

default setting is “OFF”. When set to “ON”, you can set the “BLC level”, “Strong light intensity” and “Dark area boost”, as shown in figure 6-26 below.

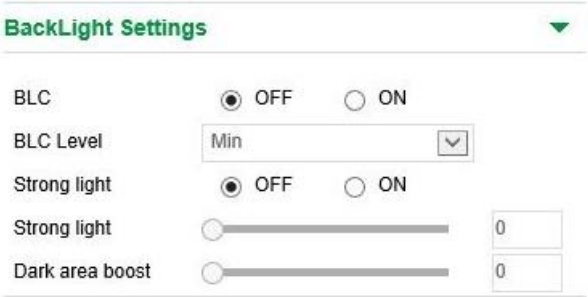


Figure 6-26

White Balance. The default setting is “Auto”. If you select “Manual”, you can set the gain for red, green and blue (interval 0-255), as shown in figure 6-27:

Figure 6-27

Video Adjustment. Here you can set and enable 2D or 3D digital noise reduction, as shown in figure 6-28:

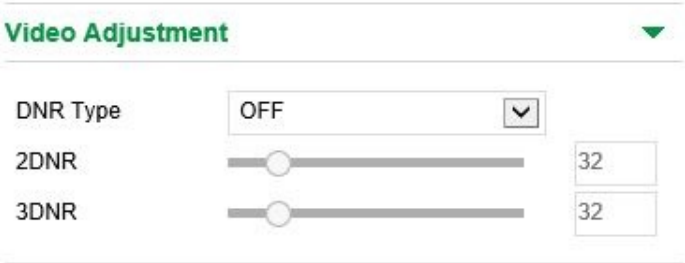


Figure 6-28

Image Enhancement. Includes “Flicker Control” and “WDR Level”, as shown in figure 6-29.

Figure 6-29

Flicker Control. Anti-flicker mode should be selected based on the video camera installation standard (normally 50 Hz for the PAL system and 60 Hz for the NTSC system), or you can choose Outdoor.

WDR level. The default setting is “OFF”; you can select “Automatic”, “Weak”, “Moderate”, “Strong” or “Super” from the drop-down menu.

Defog Mode. Used to set the defog mode and level, as shown in figure 6-30.

Figure 6-30

Defog Mode. The default setting is “OFF”; you can select “ON” or “Automatic” from the drop-down menu.

Defog level. The default value is 0; when defog mode is “ON”, you can set the level (interval of values 0-255).

7.5.2 OSD

On the main screen, click “Configuration → Image → OSD” to access the relevant preview page, as shown in figure 6-31:

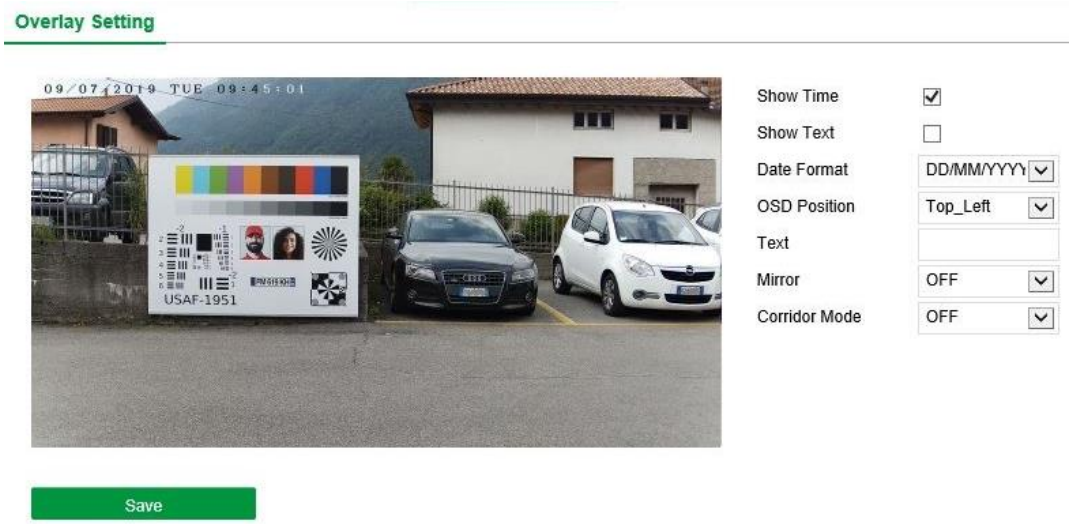


Figure 6-31

Show Time. Enable/disable the time display on the screen.

Show Text. Enable/disable the OSD text display on the screen.

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

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

Text. Enter the name of the camera.

Mirror. The default setting is “OFF”. You can select the image orientation (vertical, horizontal,

both).

Corridor mode. The default setting is “OFF”. You can select a rotation of 90 degrees or 270 degrees for corridor installation.

6.6 Events

On the main screen, click “Configuration → Events” to access the relevant page, which can be used to set parameters relating to motion detection, privacy mask, notifications and other events.

Normal events:

Motion Detection

On the main screen, click “Configuration → Events → Motion detection” to access the relevant page, as shown in figure 6-32:

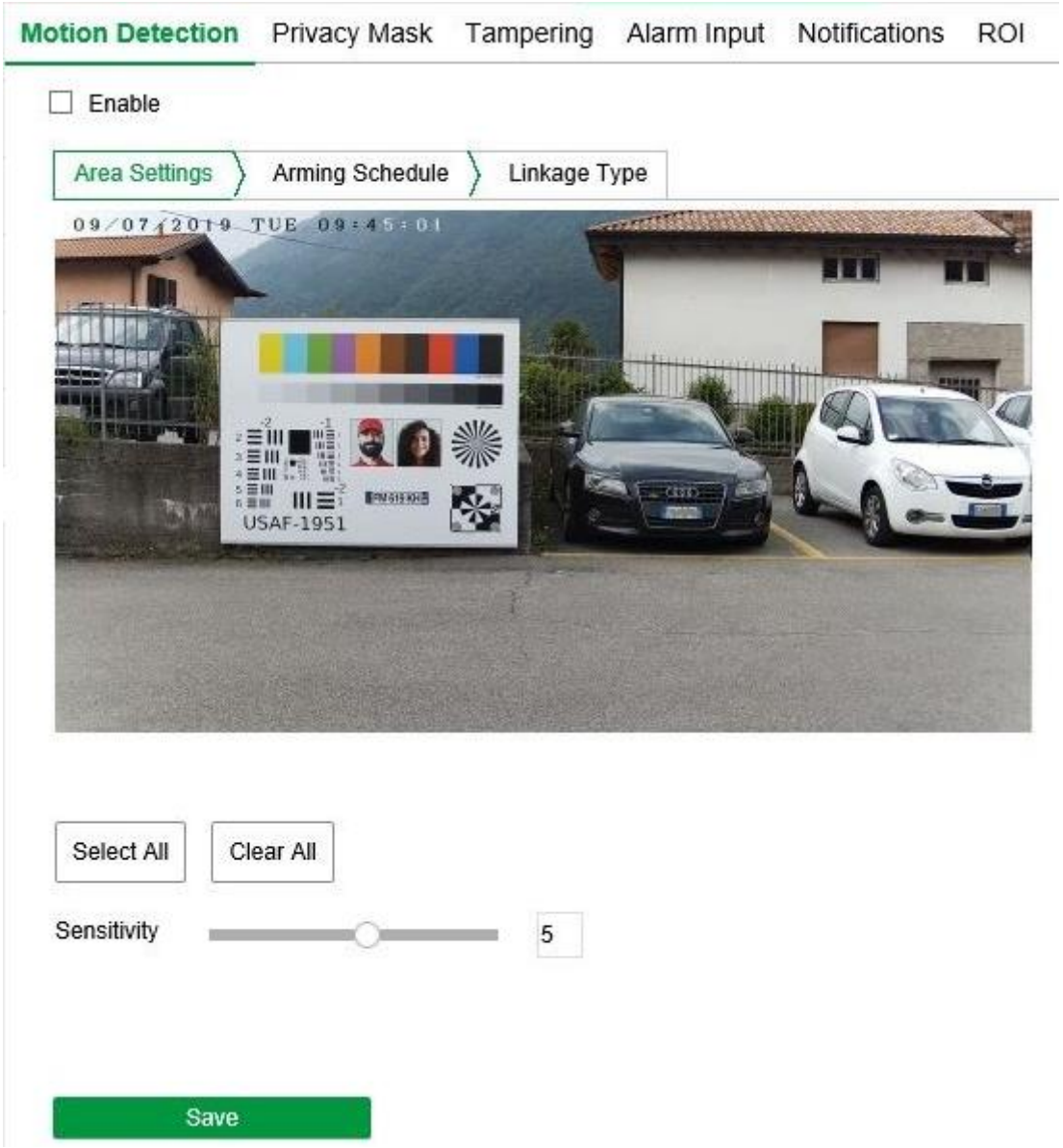


Figure 6-32

Enable. Used to enable/disable the motion detection alarm.

Area Settings. Select the area in which to set motion detection.

Select All. Select the whole area (396 (22 x 18) squares).

Manually draw the alarm area. Click and hold the left mouse button to select the area; release the left mouse button to complete alarm area selection. Several motion detection zones can be selected at once.

Clear All. Clear the entire area set for motion detection.

Sensitivity. The default value is 5 (interval 0-10).

Arming Schedule. As shown in figure 6-33, you can view, edit and delete programmed

motion detection schedules (the default setting is all day). To program the motion detection schedule:

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

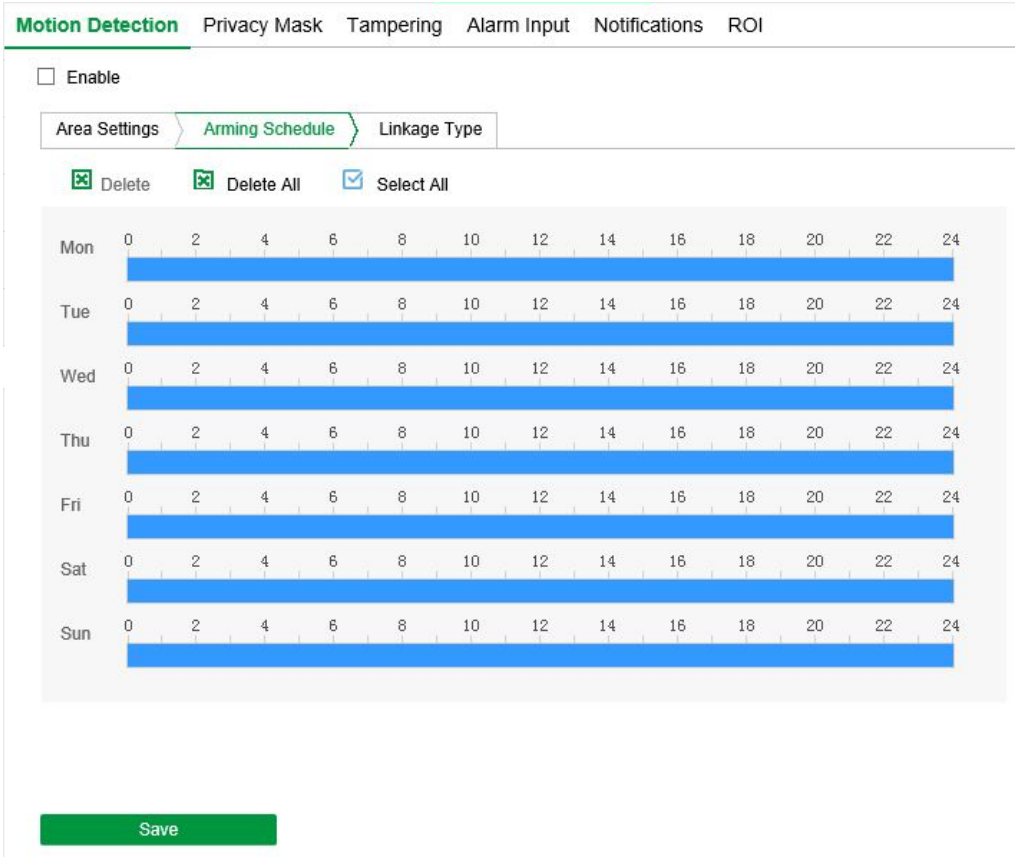


Figure 6-33

Linkage Type. Various alarm connections are available, as shown in figure 6-34.

Select All. Select all connection types.

Upload Via SMTP. Select to send alarm information to the recipient’s email address.

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

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

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

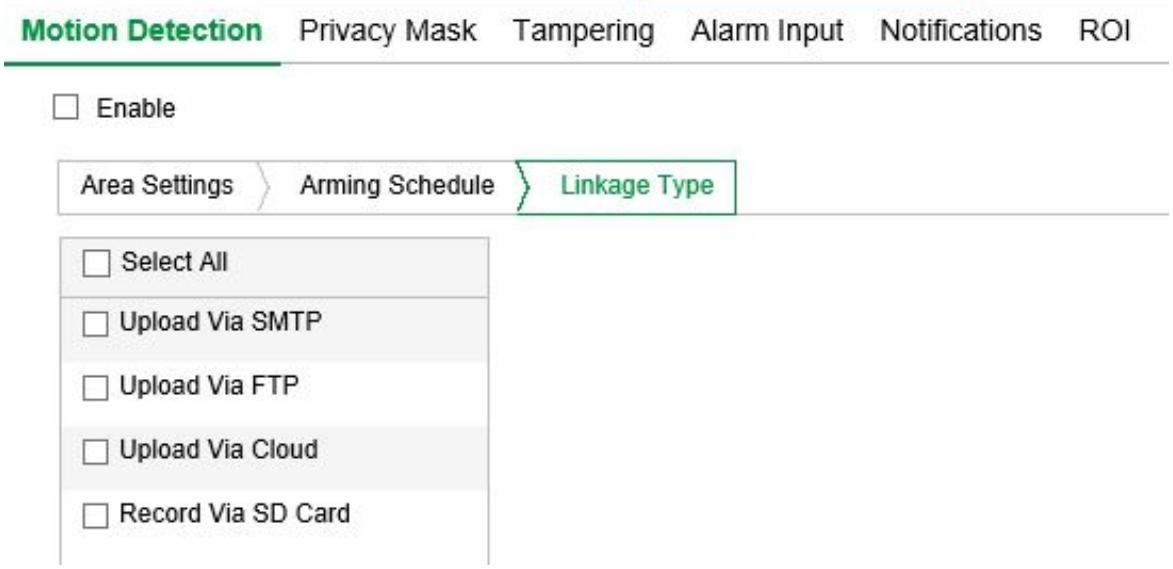


Figure 6-34

Privacy Mask

On the main screen, click “Configuration → Events → Privacy Mask” to access the relevant page, as shown in figure 6-35:

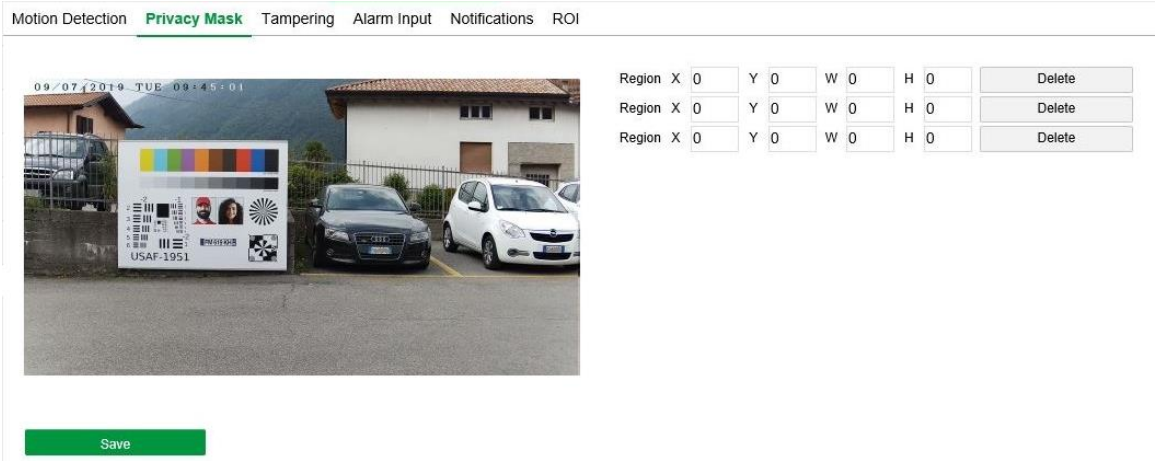


Figure 6-35

Here you can select up to 3 privacy masks. Press and hold the left mouse button and drag the cursor to set the area. If you want to delete a zone, click the corresponding “Delete” button. Click “Save” after completing the settings.

Tampering

On the main screen, click “Configuration → Events → Tampering” to access the relevant page, as shown in figure 6-36:

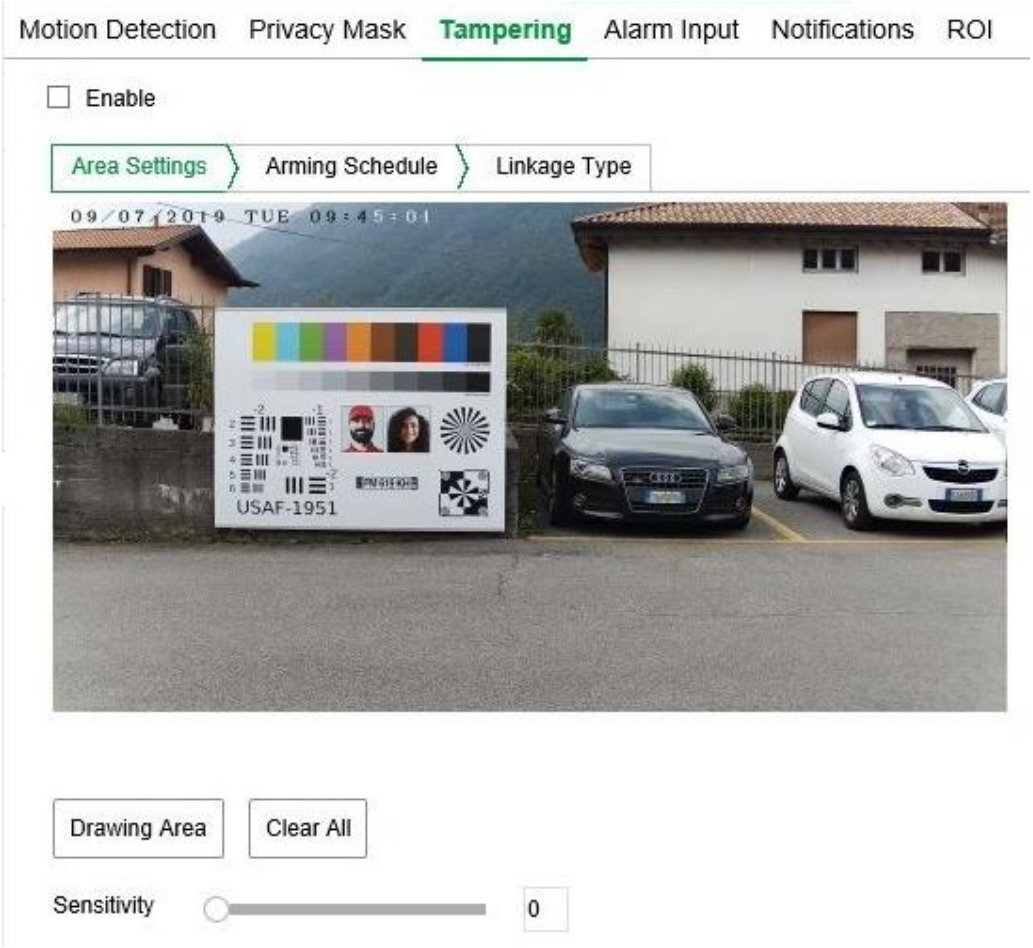


Figure 6-36

Enable. Used to enable/disable the video tampering alarm.

Area Settings. Select the area to set video tampering.

Drawing Area. Click “Drawing Area”, then click on the screen and press and hold the left mouse button to select the desired area. Release the left mouse button and click “Stop Drawing” to complete your selection.

Clear All. Clear the entire area set for video tampering.

Sensitivity. The default value is 0 (interval 0-2).

Arming Schedule. As shown in figure 6-37, you can view, edit and delete programmed video tampering detection schedules (the default setting is all day). To program the motion detection schedule:

- Method 1: Click the time bar and manually set the start and end times. Click “Save”. If you need to delete the time period, click “Delete”.
- Method 2: Click the time bar, which will show two circles at both ends. Move the mouse to the circle and move the arrows to set the arming time.
- You can set more than one time period (up to 8).

- If you need to set the same arming time for other days, click the button on the right of the time bar, select “Select All” or a day, then click “OK”.
- Click “Save” to complete configuration.

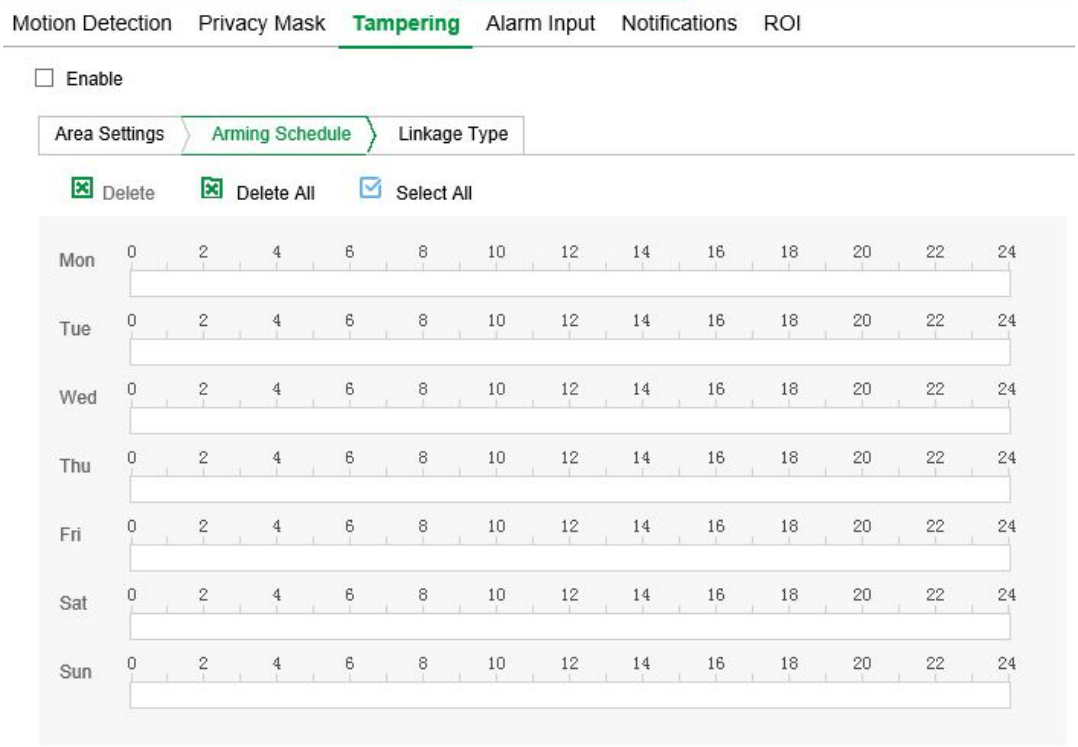


Figure 6-37

Linkage Type. Various alarm connections are available, as shown in figure 6-38.

Select All. Select all connection types.

Upload Via SMTP. Select to send alarm information to the recipient’s email address.

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

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

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

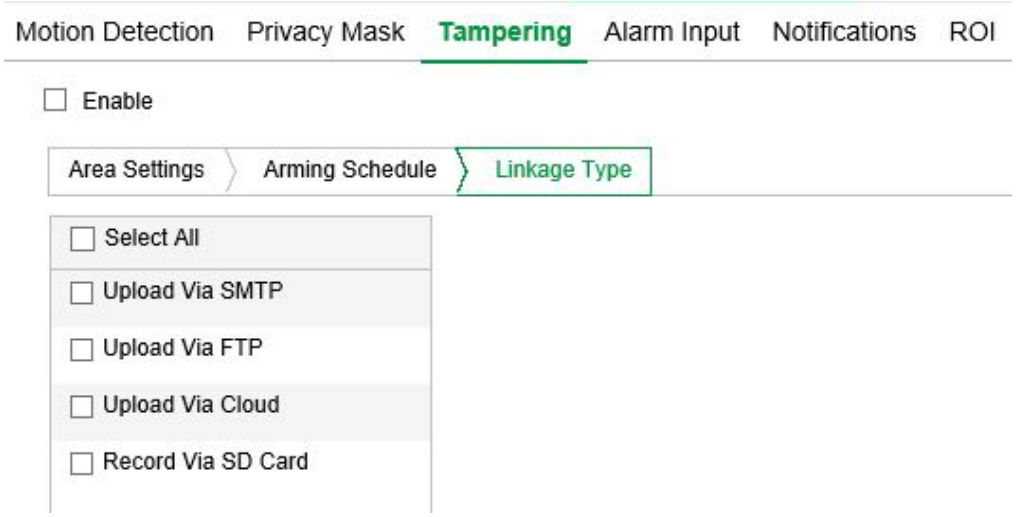


Figure 6-38

Alarm Input

On the main screen, click “Configuration → Events → Alarm Input” to access the relevant page.

Alarm Output

On the main screen, click “Configuration → Events → Alarm Output” to access the relevant page.

Arming Schedule. As shown in figure 6-39, you can view, edit and delete programmed video tampering detection schedules (the default setting is all day). To program the motion detection schedule:

- Method 1: Click the time bar and manually set the start and end times. Click “Save”. If you need to delete the time period, click “Delete”.
- Method 2: Click the time bar, which will show two circles at both ends. Move the mouse to the circle and move the arrows to set the arming time.
- You can set more than one time period (up to 8).
- If you need to set the same arming time for other days, click the button on the right of the time bar, select “Select All” or a day, then click “OK”.

Click “Save” to complete configuration.

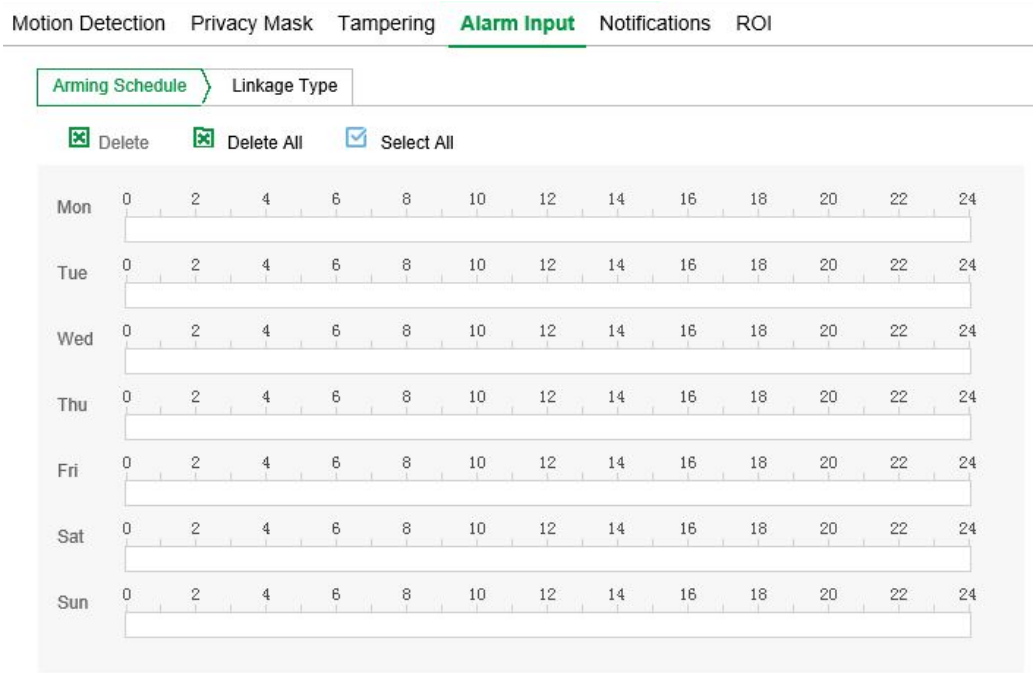


Figure 6-39

Linkage Type. Various alarm connections are available, as shown in figure 6-40.

Select All. Select all connection types.

Upload Via SMTP. Select to send alarm information to the recipient's email address.

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

Linkage Alarm Output. Includes the I/O output.

I/O Output. If enabled and a device is connected to the I/O port, when an alarm input is present the alarm device connected to the I/O port will execute the corresponding alarm action.

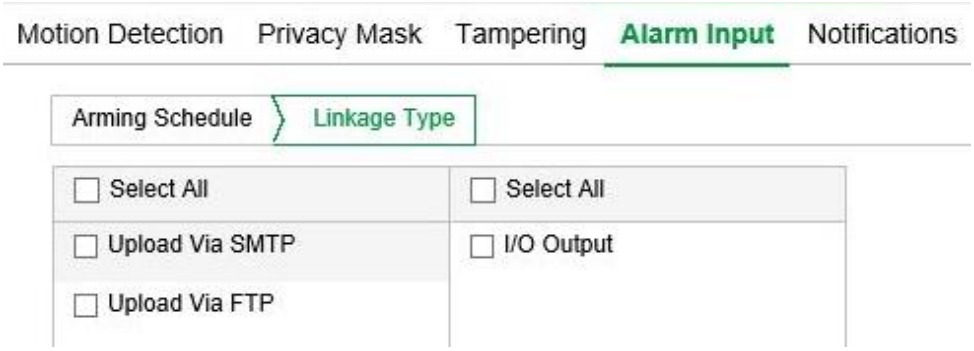


Figure 6-40

Alerts

On the main screen, click "Configuration → Events → Notifications" to access the relevant page, as shown in figure 6-41:

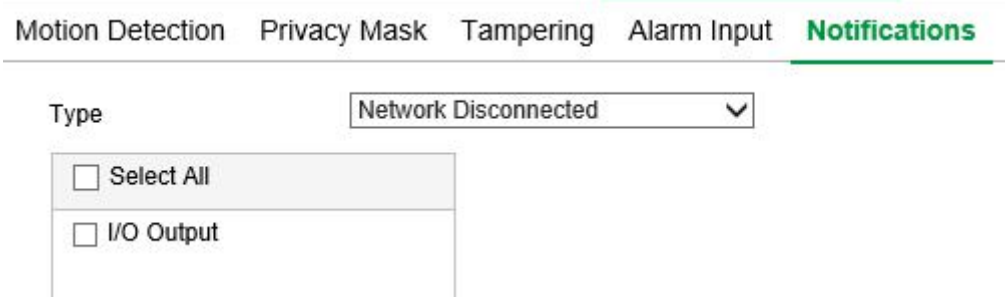


Figure 6-41

Use this page to set the “Cable Disconnected” and “IP Address Conflict” alarms, as well as the alarm output mode. Click “Save”.

ROI

Set the value of the quantising parameter “Relative QP” or “QP absolute” for the relevant zone (ROI). Up to 3 “fixed areas” can be set. On the main screen, click “Configuration → Events → ROI” to access the relevant page, as shown in figure 6-42:

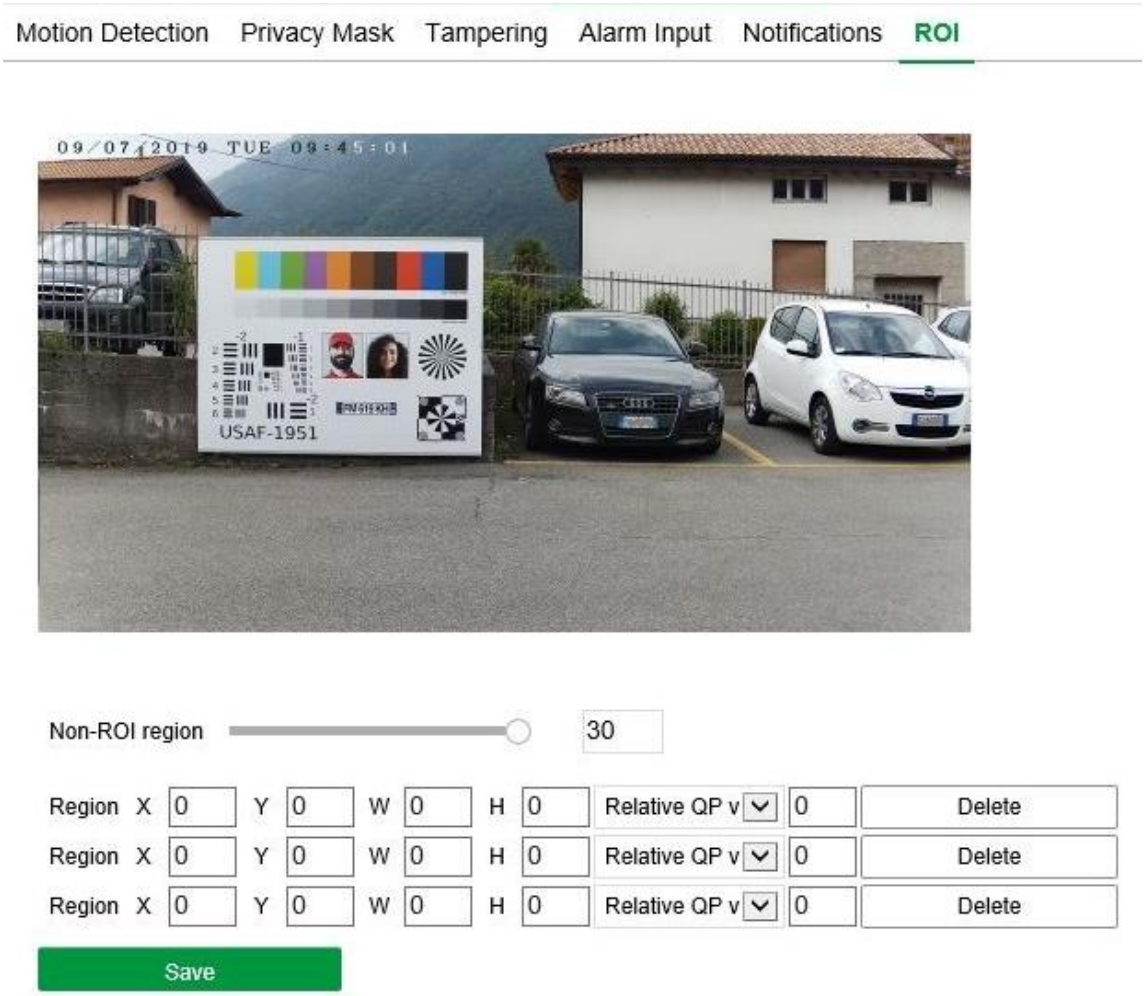


Figure 6-42

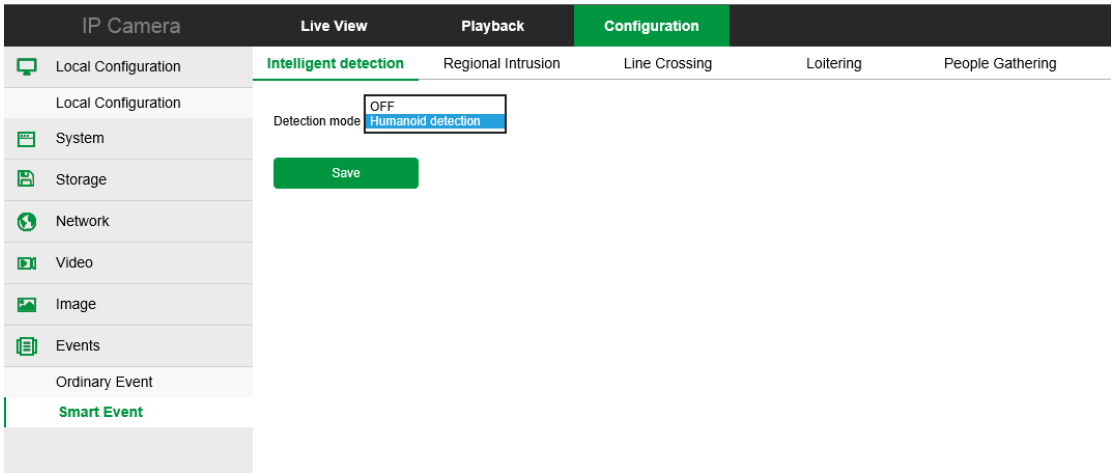
To set the ROI:

1: [Set area]. Click and hold the left mouse button and drag the cursor to set the area.
2: [Set the “Relative QP” or “QP absolute” value]. Select “Relative QP” or “QP absolute” in the corresponding position for the area and enter the relevant value.
3: Move the scroll bar to set the framerate for the non-ROI area and click.
If you want to delete a zone, click the corresponding “Delete” button.
Click “Save” to complete the settings.

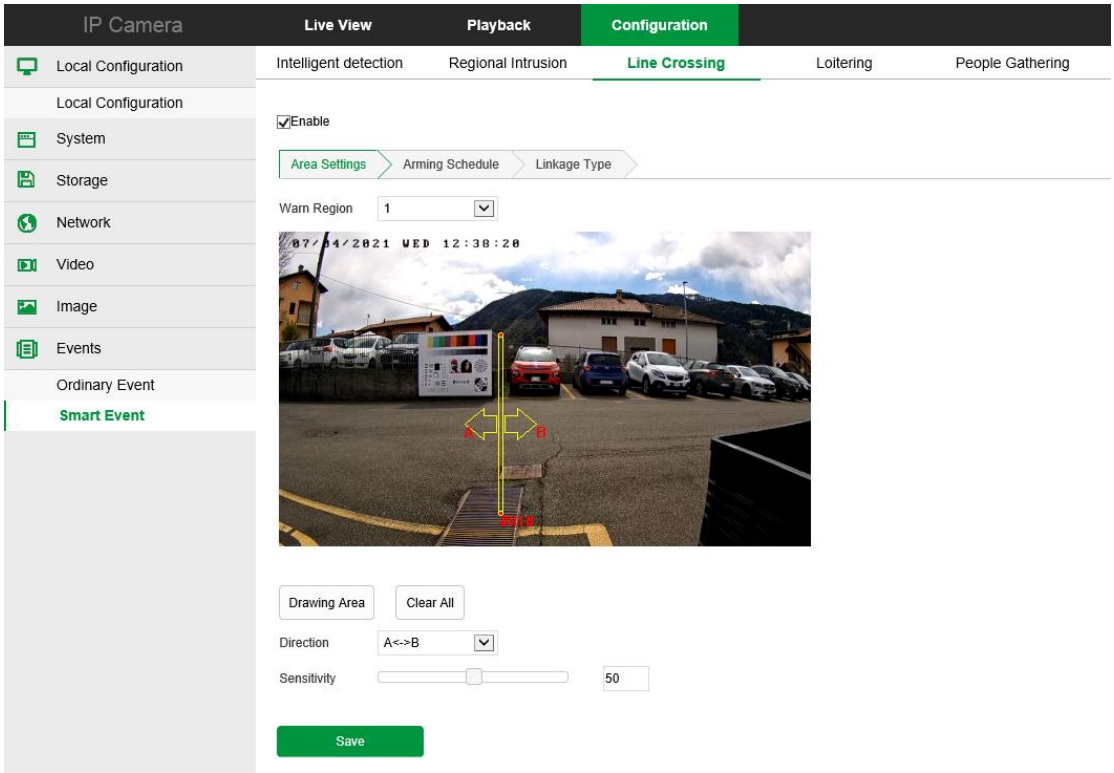
Smart Event:

Smart events allow use of video analysis based on the recognition of individuals.

Select the smart event from the Smart Event menu and in detection mode select Humanoid detection, then save.



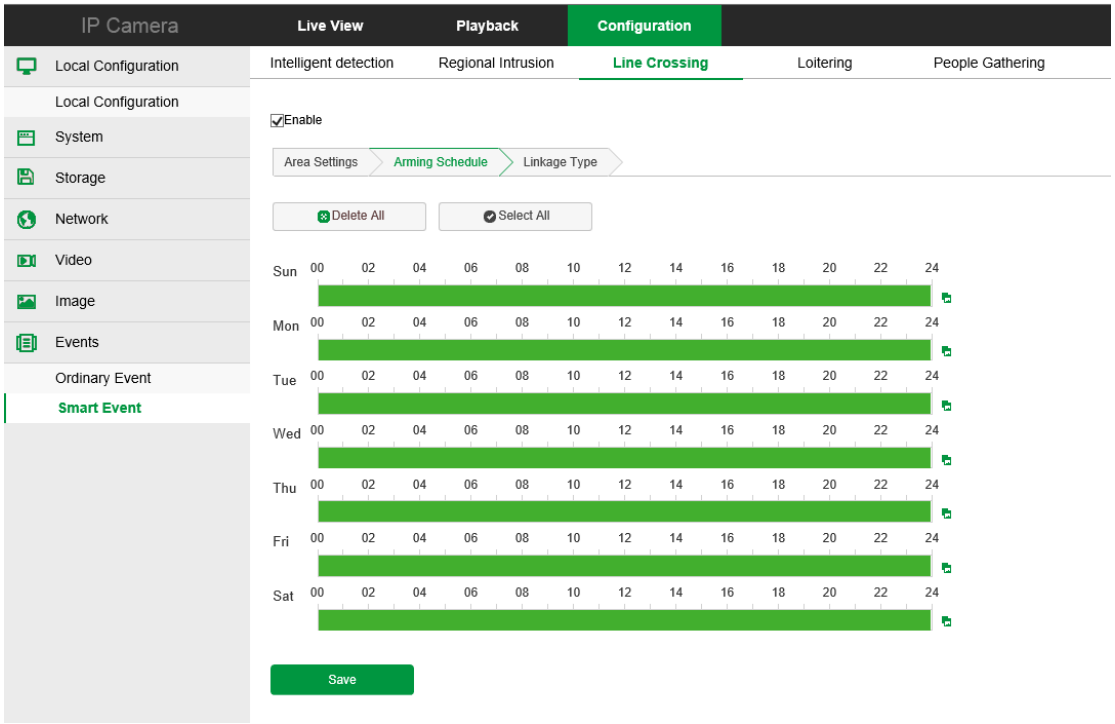
The various video analysis modes will now be available: regional intrusion, line crossing, loitering and people gathering.



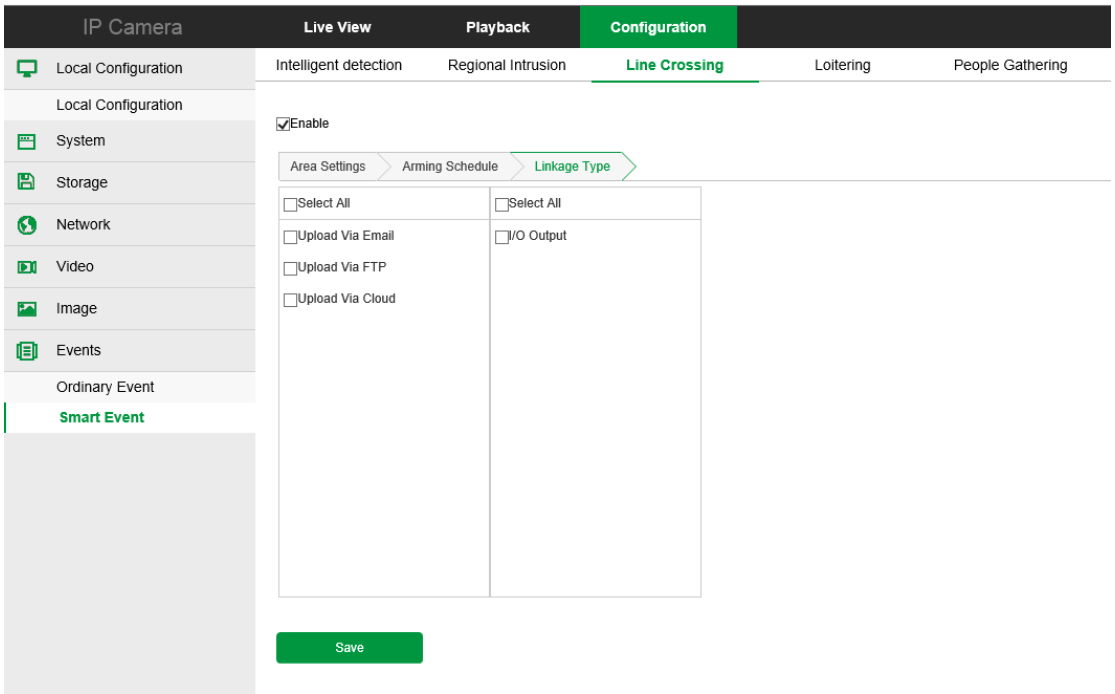
In the Area Settings screen, you can enable the selected function using enable and set the corresponding parameters:

- draw the shape within an image (a line for line crossing and an area for functions requiring a zone within which to perform the analysis) using the drawing area menu
- select the warn region
- set detection sensitivity
- select the line crossing direction
- select the time limit permitted within the area via time threshold, for regional intrusion and loitering
- select the proportion for the people gathering function

The Arming Schedule menu can be used to schedule the time bands in which the functions will be enabled.



The linkage type menu can be used to select which actions we want to link with the occurrence of the set event.



Chapter 7 - Frequently Asked Questions

1. Why can't the camera be accessed via Internet Explorer?

Answer: there may be 3 possible reasons.

a. Is there a network access issue?
   Connect the network cable to a PC and make sure the network cable is intact and working properly. Make sure the network connecting the camera and the PC is working properly.

b. Is the camera IP address occupied by another device or a PC?
   The camera can be connected directly to the PC and the IP address edited, or you can use the Smart Search tool.

c. Maybe the camera is in another network segment?
   Check the IP address of the camera and the corresponding subnet mask.

2. Why can't the camera be accessed after updating?

Answer: Empty the browser cache.

Open Internet Explorer, click "Tools" and select "Internet Options". At this point you will be able to identify "Temporary Internet Files"; click "Delete Files". A message window will appear; select "Delete all offline content" and click "OK".

You can also click the "Start" menu, select "Run", then enter "cmd". Enter "arp -d" in the "Command Prompt" interface. Access the camera again.

3. Why can't I see the whole camera interface page?

Answer: Shut down some Internet Explorer options.

Open Internet Explorer, click "View" and select "Toolbars". Close "Favorites bar", "Status bar" and "Command bar".

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