

User Manual

Network Camera, Day/Night

**IND- & INB-Series
INP-58M2812M0A**

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Introduction

Thank you for using our network camera products. Our network camera products are integrated and developed for network video monitoring, including Storage Network Bullet, Wireless Storage Network Bullet, IR Network Dome, IR Network Weather-Proof Cameras and High-Speed Network Ball. High-performance single SOC chips are used in media processor for audio/video acquisition, compression and transmission/transfer. Standard H.264/H.265 encoding algorithm is applied to ensure clear and smooth video representation and transfer performance. Embedded Web Server offers users access to real-time surveillance and remote control of front-end camera through IE browser.

The network cameras are easy to install and operate. The network cameras are applicable to large and medium-size enterprises, governmental projects, large mall, chain supermarkets, intelligent buildings, hotels, Hospitals and schools and other group customers, as well as to applications requiring remote network video transmission and monitoring.

Instructions:

- For purpose of this manual, IP camera means network camera.
- Single click means a single click on the left mouse button.
- Double click means a double-click on the left mouse button.
- The default factory IP address for IP camera is 192.168.1.168.
- The default factory administrator user name for IP camera is admin (in lowercase), The IP camera needs to set the password according to the prompt for the first use. Details please refer to section 4.2 – <Password>
- The default Web port number is 80 and the default media port number is 9000. The ONVIF port number is synchronized with the web port number.

Statement:

Some information contained in this manual may differ from the actual product. For any problems you cannot solve with the use of this manual, please contact our technical support or the authorized dealers. This manual may be subject to change without prior notice.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

1、 Overview

1.1、 Range of Application

The network cameras with powerful image processing capacity may be applied at various public places such as mall, supermarket, school, factory and workshop, as well as in environments requiring HD video image such as bank and traffic control system, as shown below:



1.2、 Product Description

An IP camera is a digital online surveillance camera embedded with Web server and capable of independent operation, giving user access to real-time monitoring through web browser or client software from any place across the world.

IP camera is based on the latest digital solution, an integrated media processing platform for audio/video acquisition, compression and network transmission on a single board. It is in compliance with H.264/ H265 High Profile encoding standards. Any remote user can have access to real-time monitoring by entering the IP address or domain name of the IP camera in web browser. This network camera solution is applicable to residential or business environments as well as a wide range of situations requiring remote network video monitoring and transmission. The IP camera products are easy to install and operate.

The IP cameras can be managed by several users with different authorization levels.

IP cameras allows mobile detection, and sends e-mail and snapshot taken in case of emergency and store the image or video snapshot in SD card for retrieval.

1.3、 Operation Environment

Operating system: Windows XP / Windows 7/ 8/10/11 / MacOS 10 or above

CPU: Intel I3 or above

Memory: 2G or higher

RAM: 1G or higher

Display: 1024 × 768 or higher resolution

Browser: IE10 or higher version; Chrome 57 or higher version, Firefox 52 or higher version, Edge 41 or higher version; Safari 12 or higher version

2、 Device Connection

IP camera can be connected in two ways:

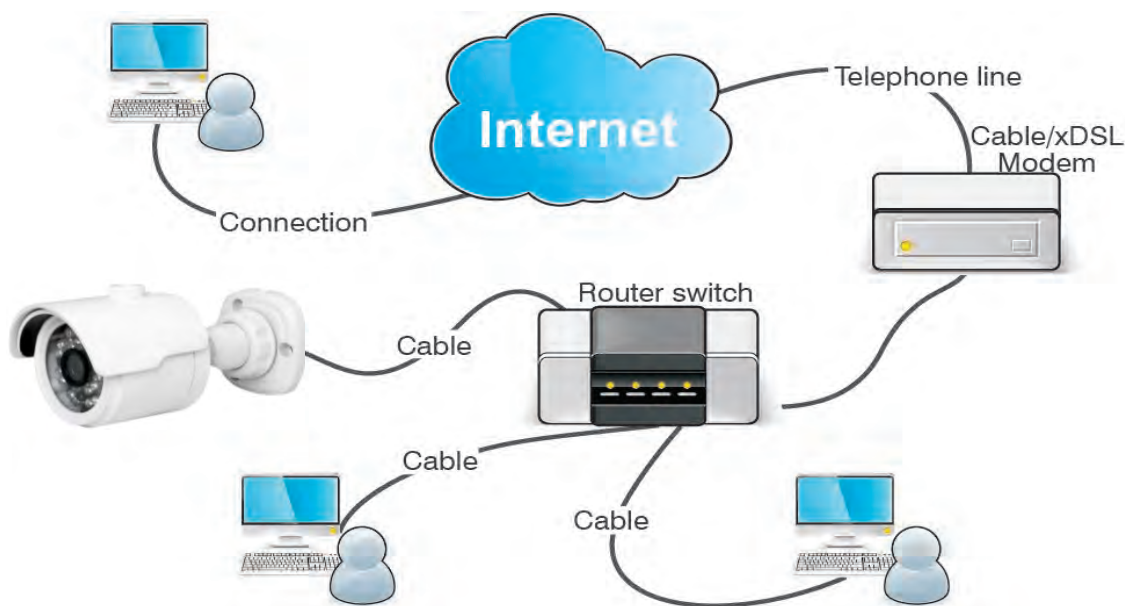
2.1、 Connection to PC

Connect IP camera to PC via straight-through network cable, with power input connected to a DC 12V adaptor, and set the IP addresses of the PC and IP camera in the same network segment. The IP camera will communicate with PC within one minute after being powered on if the network operates normally.



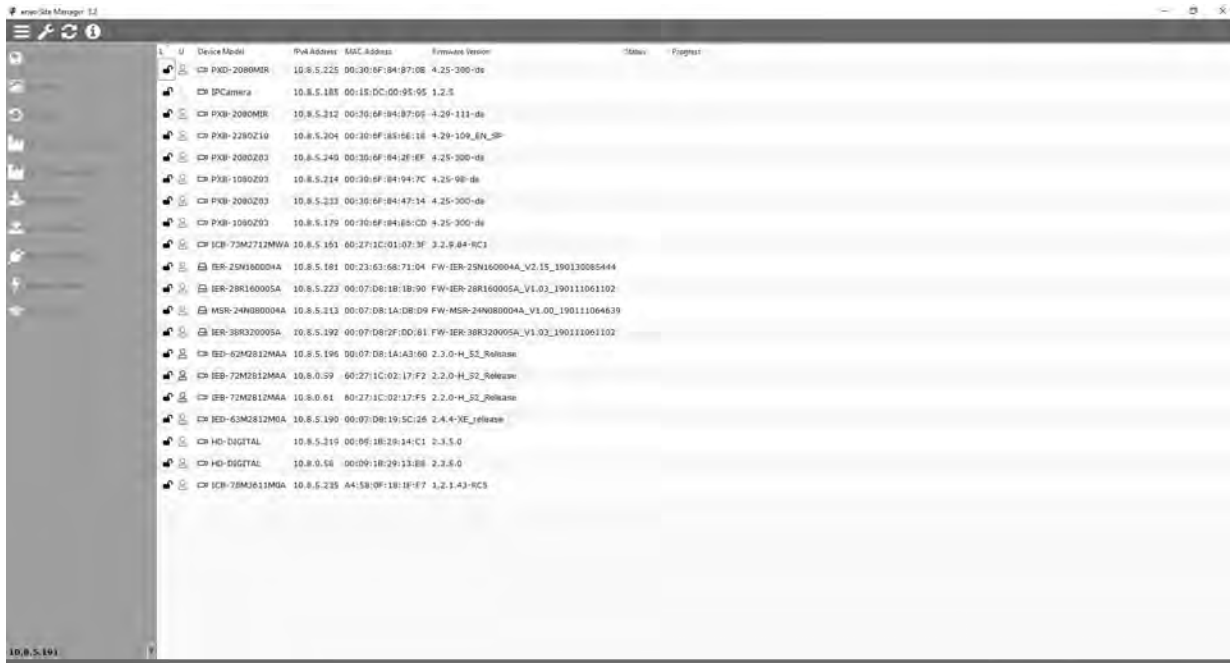
2.2、 Connection to router/switch

This is more commonly used in connecting the IP camera to Internet, where the camera and PC are connected to LAN ports of a router/switch, with gateway of the camera set to the IP address of the router.

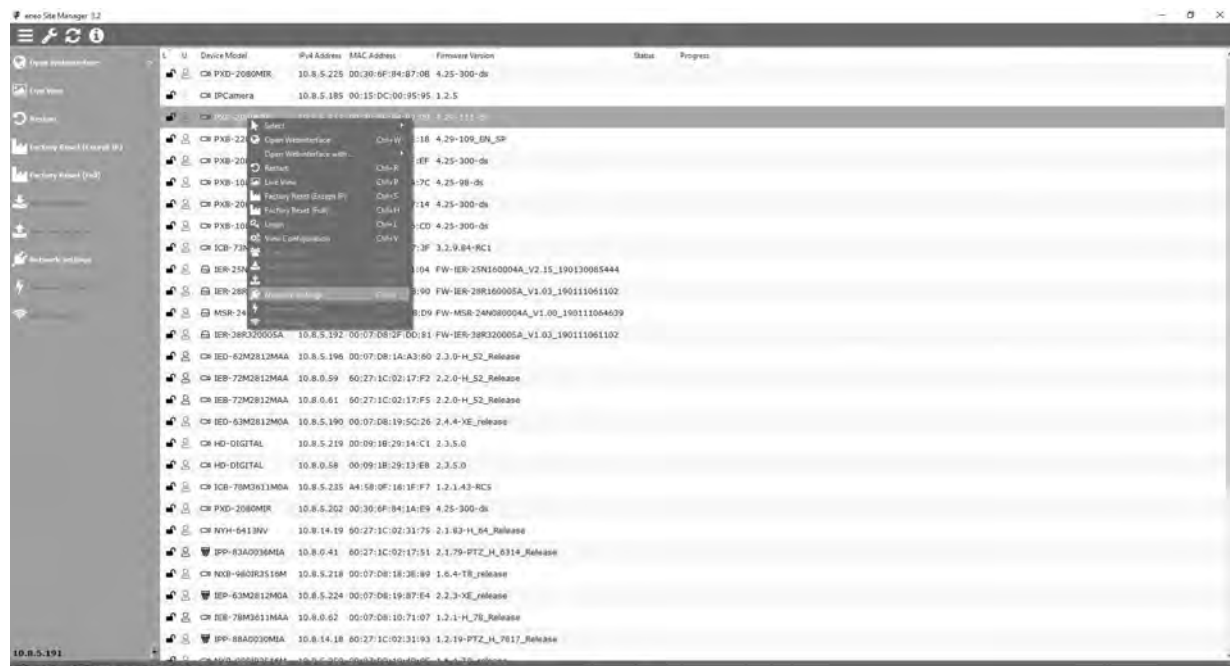


3、 Network Connection & IP Assignment

The eneo Site Manager (downloadable from www.eneo-security.com) is used to locate all eneo network cameras in a local network. Download and install the software from www.eneo-security.com. Start the program. You will receive a list of available cameras in the local network.



Highlight your camera in the list and open a context menu by clicking the right mouse button. Select the option “Network Settings” to get a window for the camera IP settings.




If necessary, uncheck “DHCP”. Make the necessary settings and confirm with “OK”. The camera settings are updated.

Now you can also perform a factory reset of the camera inside the eneo Site Manager. For further information, please refer to the eneo Site Manager Quick Start Guide.

4、 Web Log in

4.1、 Initial login

In the first time accessing the web of the camera, you have to set an admin password to activate your device. the interface as shown in Figure 4.1.1 will be popped up. Click  to check password requirements:

- 1、 The password should be 8-15 characters, including letters, numbers or special characters.
- 2、 8~9 characters: The combination should consist of at least 3 uppercase letters, lowercase letters, numbers or special characters.
- 3、 10~15 characters: The combination should consist of at least 2 uppercase letters, lowercase letters, numbers or special characters.
- 4、 It is forbidden to repeat and continuous characters exceeding 4 digits.
- 5、 It is forbidden for the continuous keys of the keyboard pattern to exceed 4 digits.

Note: We highly recommend you to create a strong password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: uppercase letters, lowercase letters, numbers and special characters) in order to increase the security of your products.

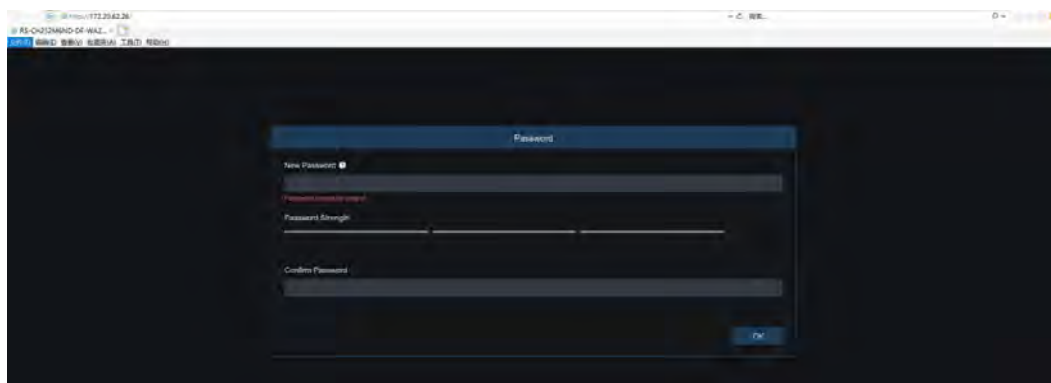


Figure4.1.1

Set a new password, click OK to save, the interface shown as Figure 4.1.2 will pop up. You can check to choose the corresponding password reset method, or cancel the setting directly without checking, and the password reset function will not be enabled.

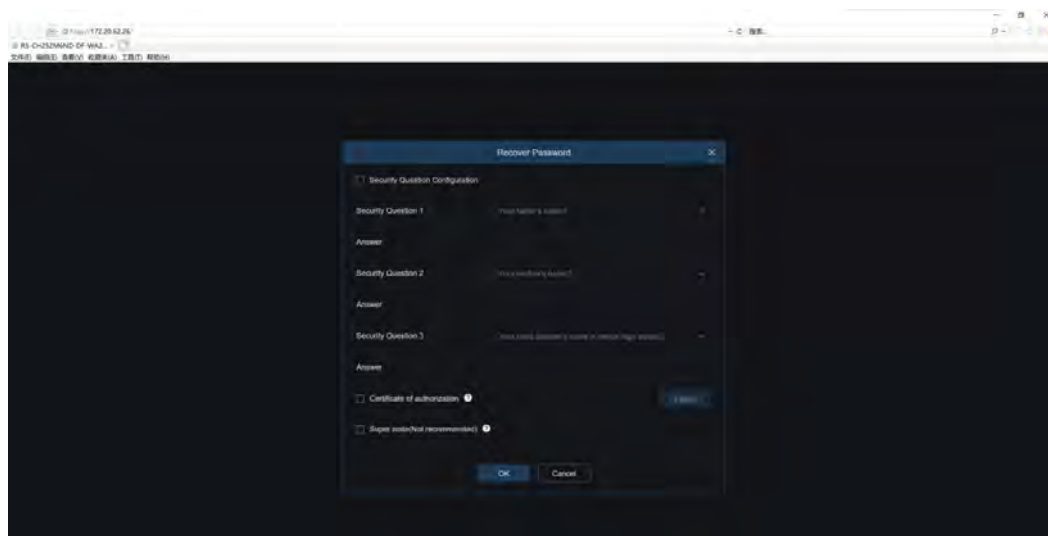


Figure 4.1.2

①、 Security Question Configuration:

Check the <Security Question Configuration> option, Set the three security questions and answers.
The maximum length of the answer is 64 characters

②、 Certificate of authorization:

Check the <Certificate of authorization> option,
Insert USB flash drive to your device
Click <Export> to export the secret key-certificate.txt
Save the file to a directory as you desire.

③、 Super code(Not recommended)

The super code is a very insecure way to reset the password. According to the Mac of the camera and the time prompted by the super verification code, the verification code can be calculated based on certain rules. By entering the verification code, the main user's password can be modified.

4.2、 Log-in

Log in the network camera via web browser shown as figure 4.2.1

Input the activated password

Choose the system language

Click <login> icon to enter into the device

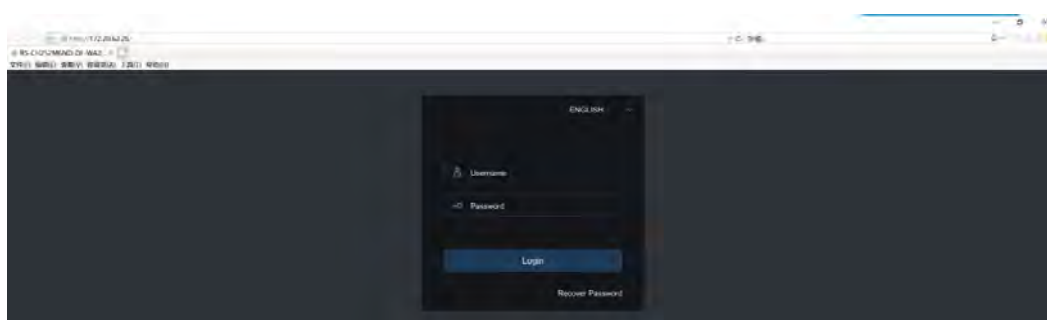


Figure4.2.1

4.3、Reset Password

After the device is activated, you should properly keep the password. When you forget the password, there are three methods to reset. At the first access, you have to configure at least one password resetting method. For details please refer to section 4.2- <Log in>

4.3.1、 Security Question Configuration

- Go to the <Recover password> menu
- On the user login interface, Click <Recover Password>
- Select the <Security Question Configuration>
- Select the three Security questions and input their correct answers
- Create a new admin password
- Click <OK>

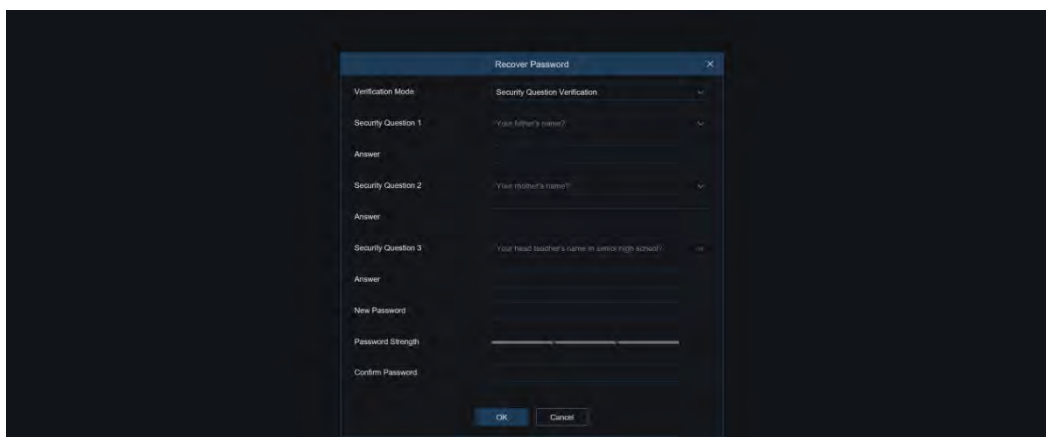


Figure 4.3.1

4.3.2、 Certificate of Authorization

- On the user login interface, Click <Recover Password>
- Select the <Certificate of Authorization>
- Click <Import> to upload the key file
- After successful import, create a new admin password
- Click <OK>

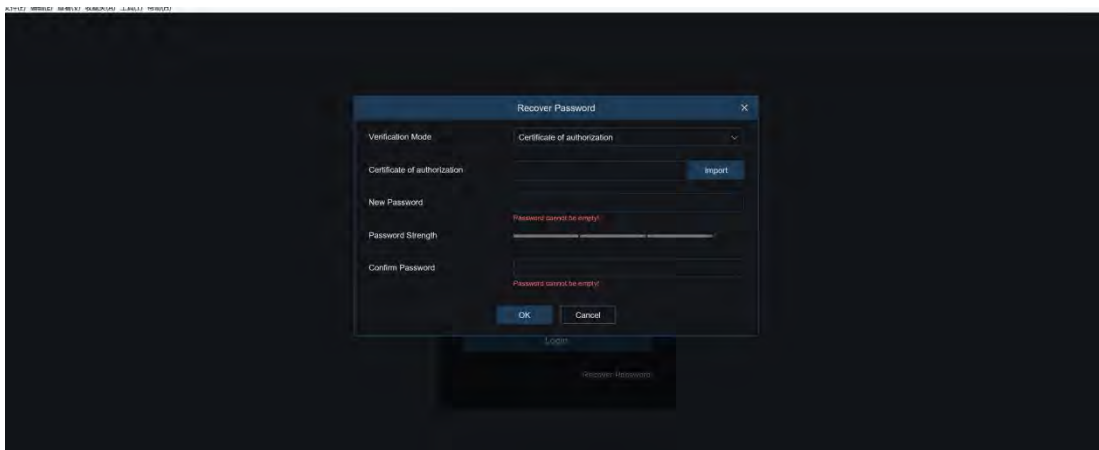


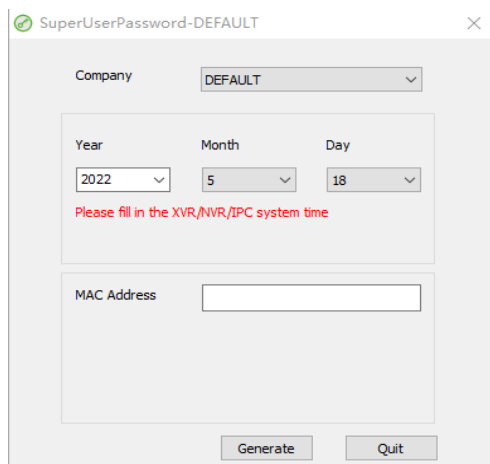
Figure 4.3.2

4.3.3、 Super Code

On the user login interface, Click <Recover Password>

Select the <Super Code> option

Calculate one super code through a <Super code> tool



- 1、 Input the system time
 - 2、 Input the Mac address of Device
 - 3、 Click <Generate>
- Then you will get a 6-digital code.

Input the <Super Code>

create a new admin password

Click <OK>



Figure 4.3.3

4.4、 Password Expired

we recommend you change your password regularly, especially in the high security system. In order to better protect your products, System will record the system time you modified password. When the time reach 90 days, system will prompt to modify the password, The modification steps as follows.

Go to <Password>

Input the old password and click <Next>

Input one new password and confirm the new one again

Click <Ok>

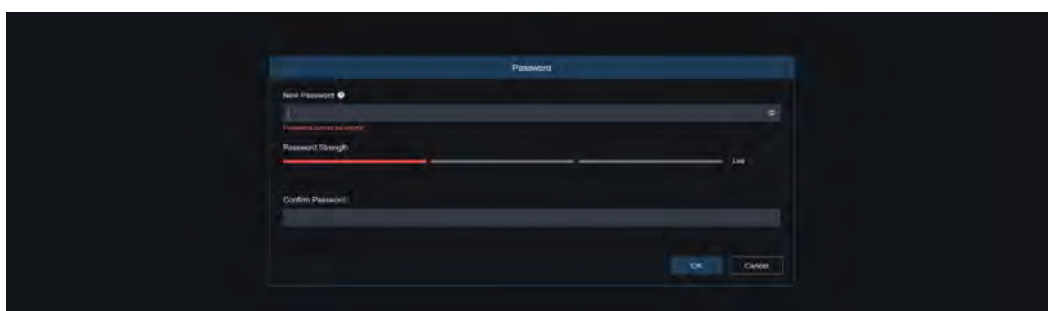


Figure 4.4.1

5、 Plug-in Installation

Use IE browser to log in, you need to install the plug-in to preview the image normally. When the prompt in Figure 5.1.1 appears, please download and install the plug-in according to the prompt.

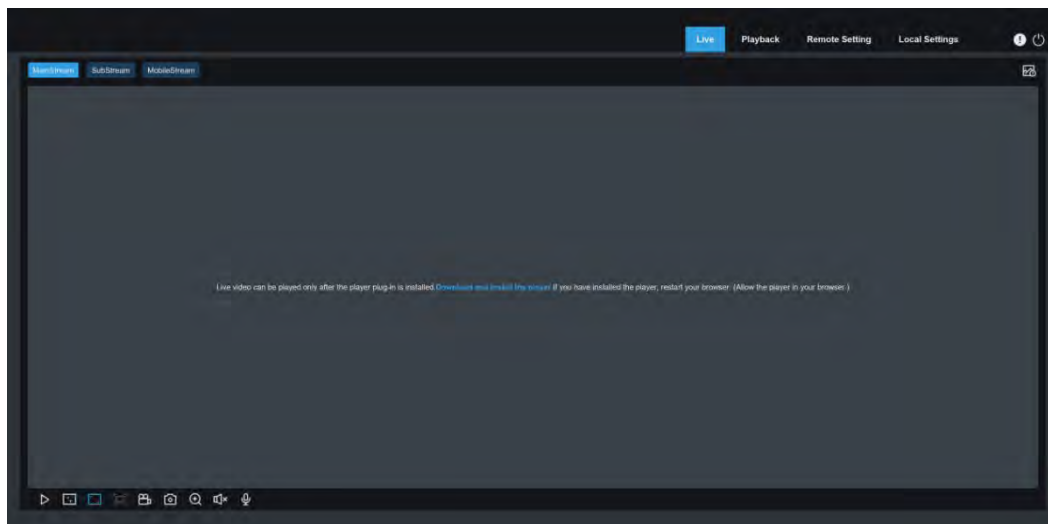


Figure 5.1.1

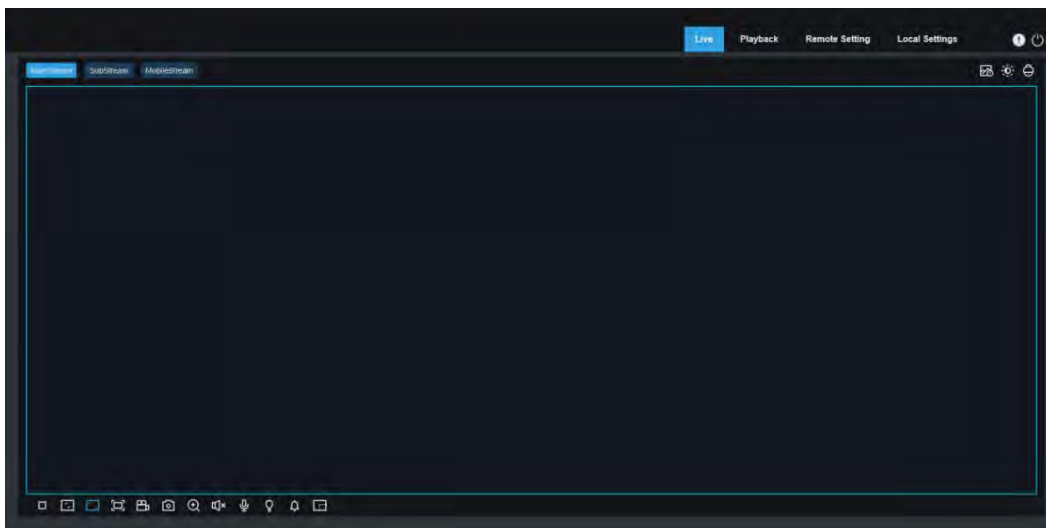
Note: Programs without plug-ins are supported. When using Safari 12 and above, Chrome57 and above, Firefox 52 and above, Edge 41 and other browsers for web access, the plug-in installation steps can be ignored.

6、 Preview

6.1、 Live

After successful log-in, We will enter into the <Live> mode shown as Figure 6.1.1

Note: The supported functions vary depending on the actual model.



Code stream switching menu: the upper left corner can switch the image quality of the current preview interface:

Main stream: The image is clearer, but the stream bandwidth is large, which requires higher performance on the PC-side interface

Sub stream: Bandwidth and requirements for the PC are moderate, but the image will be worse than

the main stream.

Mobile stream: The bandwidth and requirements for the PC are the lowest, but the image is also the worst.

Main menu switching bar: Switch the function interface of the web. The web terminal has 4 menus: Live, Playback, Remote Setting, and Local Settings.

Info: Display the currently logged-in user, web version and plug-in version.

AI alarm: Open the alarm push bar on the right, and push the corresponding picture when performing functions such as face alarm, human and vehicle detection.

Color: Adjust the current image settings, such as image saturation, sharpness, etc.

PTZ Setting: Open the pan/tilt operation setting and re-adjust the focus of camera.

Exit: Exit the current login

Recording alarm status: Prompt the alarm and recording status of camera, please refer to section 6.2 for details

Stop/Play: Open and close the current stream preview

Original Proportions: Display the current preview image in original proportions

Stretch: Display the current preview image in a way that fills the display area

Full Screen: Display the current preview screen in full screen, you can double-click the screen to turn on/off the function, and press Esc to exit the full screen when enabling the function

Record: Manually record the stream of current preview

Capture: Manually capture the picture of the current stream

Digital Zoom: It helps to see a detailed information of any region in the image.

Audio: Enable/disable and adjust the sound in current preview.

Voice Intercom: Talk to the camera

Warning Light: Manually turn on/off the white light

Siren: Manually turn on/off siren

Pixel Counter: Select the area by frame to check the pixel size of the area in the code stream.

When some alarms are triggered, the lower right corner will prompt the current alarm

6.2、Recording Status

The recording status is a simple reminder from the web to the current alarm of the camera, which can show whether the recording is normal. There can be multiple alarms at the same time. For specific instructions, please refer to the following introduction:

No icon: The SD card of camera is normal, but no video is being recorded.

R : The camera is performing general recording.

Note: When one camera performs alarm recording, the mark will disappear, but general recording will continue.

H : The SD card is in an abnormal state, please check the SD card.

M : The camera is in motion alarm, but motion alarm recording is not enabled.

M : The camera is in motion alarm, and motion alarm recording is performing.

I : The camera is in IO alarm, but IO alarm recording is not enabled.

I : The camera is in IO alarm, and IO alarm recording is performing.

PIR : The camera is in PIR alarm, but PIR alarm recording is not enabled.

PIR : The camera is in PIR alarm, and PIR alarm recording is performing.

S : The camera is in smart alarm, but the smart alarm recording is not performed.

Note: Intelligent alarms include Face alarm, Human & Vehicle alarm, etc.

S : The camera is in smart alarm and smart alarm recording is performing.

7、Playback

The camera not only needs to allow us to see the real-time image, but also needs to save the image information so that it can be retrieved and viewed when needed.

7.1、General Playback

The playback function is mainly composed of General video search and AI search functions. The following figure shows the video search.



Search Mode: Switch the current search mode. As shown in the figure above, the default is General search, and the search information is ordinary video files. You can switch to AI search.

Search date: Set the date to search for the video, click search, it will prompt the date of the video file.

Search Type: Display the search type supported by the camera. You can search and view part of the video according to your demand.

Search: Search and display the videos in the SD card according to the search settings.

▶ Pause/Play: Pause/Play playback stream

□ Stop: Close the playback stream

⏮ Forward by One Frame: Play one frame of image every time you click

📄 Record: Manually record the current preview stream

📷 Capture: Manually capture the picture of the current stream

⬇ Download: Download the currently searched video

⏮ speed: Playing speed. Support speed adjustment like 1/8, 1/4, 1/2, 1, X2, X4, X8

🔊 Audio: Enable/disable, adjust the sound of playback stream

The below time bar shows the current playback progress in different colors according to the search results.

🔍 Digital Zoom: It helps to see a detailed information of any region in the image.

📏 Original Proportions: Refer to original ratio window size.

📐 Stretch: Stretch the current preview images to the whole display area.

🖥 Full Screen: Refer to the current preview images in full screen. Double-click the screen to turn on/off the function, and press <Esc> to exit the mode when enabling the function.

Playback progress bar

- The progress bar defaults to display the progress of 24 hours.
- You can more accurately jump to the corresponding playback position through zoom in/out.
- Scroll the mouse wheel to zoom in/out the progress bar to accurately jump to proper position

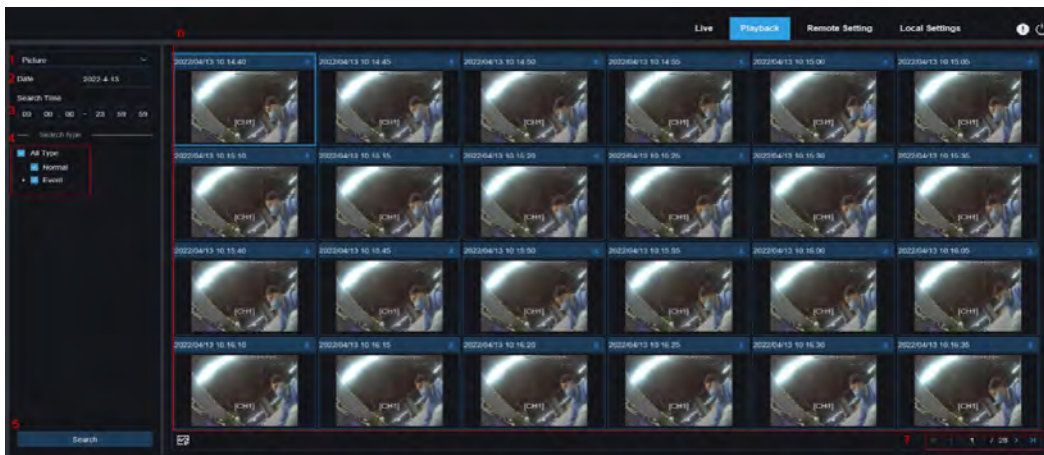
7.2、Picture Search

Click <Playback> menu

Set Search condition, such as type, date and time etc. and click <Search>

The matched video files show in the search results display area.

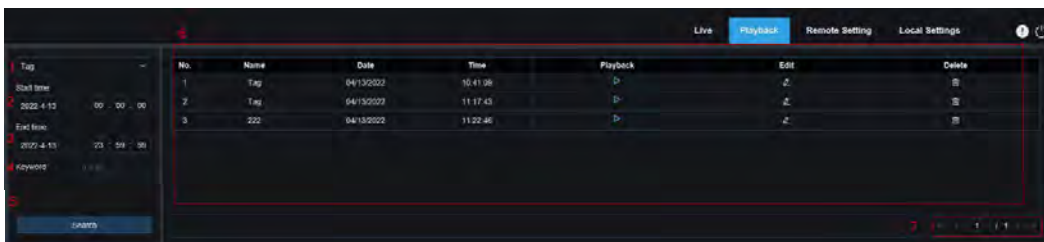
When camera enable <auto-capture> function, you can search and play these pictures auto captured.



- 1、 **Search Mode:** Switch the search mode.
- 2、 **Date:** Set the date of Searched picture. Click search and you will be prompted with the date of the video file.
- 3、 **Time:** Set the start and end time of searching pictures to facilitate users to search pictures in specific time periods.
- 4、 **Search Type:** select <Search Type>, options include <All type>, <Normal>, <Event>
- 5、 Click <Search>
- 6、 **Search Results Display Area:** Display the search results. Double-click the picture to enter the playback for a short period of time before and after the detection.
- 7、 **Search results Flip:** You can flip the search results in the lower right corner.

7.3、Tag Playback

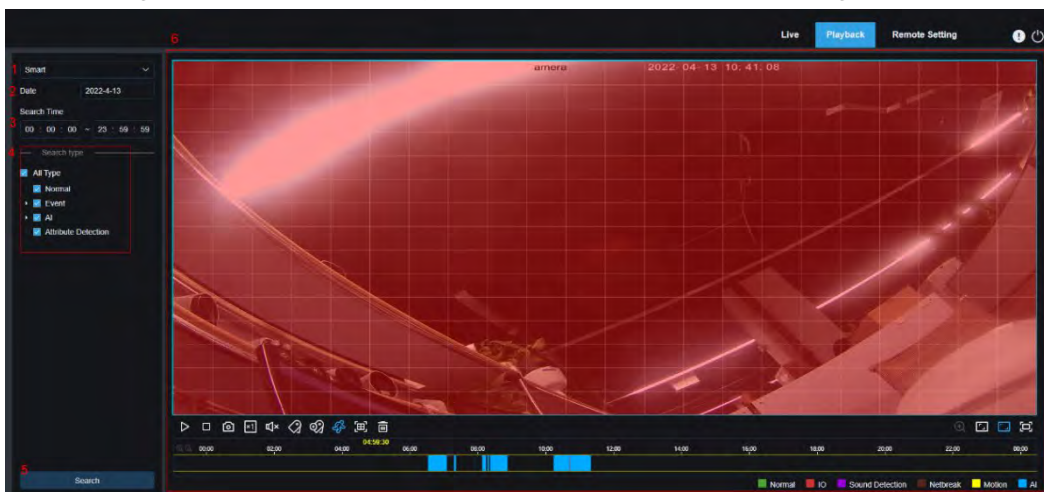
This interface can view all the tags added before, and allow you edit, playback or delete them.



- 1、 Select <Tag>
 - 2、 Set <Start time> you desired
 - 3、 Set <end time> you desired
 - 4、 Input the <Keyword> to search
 - 5、 Click <Search> to start to search
 - 6、 Display all the tags you desired in the
 - 7、 Click the <Search Result Flip> to turn to next page.
- <Search display area>
- Click <▶> icon to start the event playback
 - Click <✎> icon to modify the event name
 - Click <Save> and popup the window with “Modify Success” prompt
 - Click <🗑️> icon to delete the event

7.4、Smart AI

Log in with a plug-in free browser to playback smart AI. Refer to below Figure



The blue in the processing bar stand for the alarm triggered by human.

- 1、 Select <Smart> option
- 2、 Select the <date> you desire to search, and click search and you will be prompted with the date of the video file.

3、 Set the <search time> to facilitate user search.

4、 Check the <search type> you desired

5、 Click <Search>

6、 Display all the search results in the <Search result area>.

▶ <Pause/Play>: Pause or playback the images in the area.

◻ <Stop>: stop the playback

📷 <Capture>: Manually capture the 手动截取当前码流的图片

⏮ <speed>: Playing speed. Support 1/8, 1/4, 1/2, 1, X2, X4, X8 and X16 speed adjustment

🔊 <Audio>: Enable/disable, adjust the sound of playback stream

🏷 <Add Default Tag>: Click the icon to add default Tag

🏷 <Add Tag>: Click the icon to add a customized tag

⚙ <Smart>: click to enter into the Smart area configuration menu

📏: Click <All> to select all the screen as detect area.

🗑 Click <Delete> to clear the whole area:

🔍 Click <Digital Zoom> to zoom in/out the images In a specific area:

📐 Turn to <Original Proportions> mode:

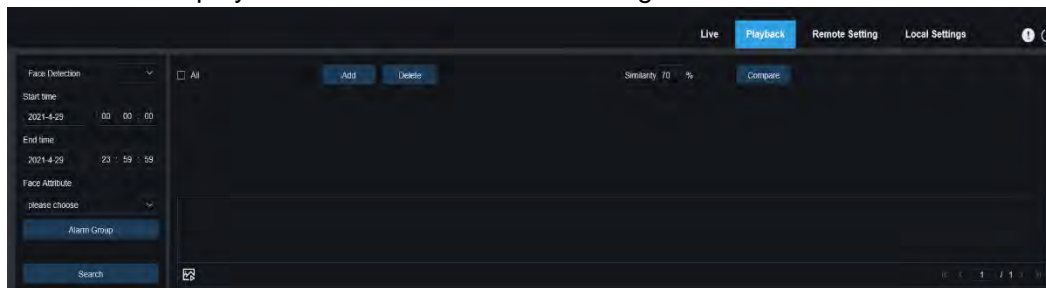
📐 Turn to <Stretch> mode

🖥 Turn to the <Full Screen> mode. You can double-click the screen to turn on/off the function, and press Esc to exit the full screen when enabling the function

7.5、 AI

7.5.1、 Face Detection

The camera performs face recognition function, stores the captured face images to the TF card, and saves the image related information at the same time. During the search, you can quickly retrieve the face capture that meets the user's requirements as needed, and quickly locate the video according to the capture. The face search playback interface is shown in the figure below.



Go to <Playback→AI> interface

Select <Face detection> option

Set the <Start time> of searching for face capturing

Set the <End time> of searching for face capturing

Alarm Group: When capturing a face picture, the camera matches the picture to the corresponding combination according to the settings of the face database which include <Allow list>, <Black list> and <Stranger>.

Check the <Alarm Group> option, now you can search the images you desired.

Click <Search>

Click <Add> to add one picture to display for comparison purpose. You can add local images or captured images here.

Click <Delete> to delete the images in the display area.

Click <Compare>

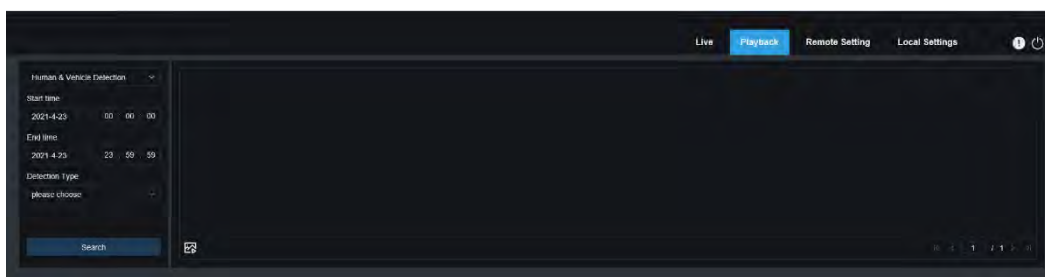
Display area of Adding images: will display the image which is added and is use for comparison.

Display area of Searching images: will display the searched face snapshot according to Search and Comparison result. Double-click the images to playback the video which was recorded before and after the detection.

7.5.2、 Human & Vehicle Detection

The camera can distinguish people or cars, and record them according to the configured parameters, which can be used to search for the required records.

Go to <Playback→AI> interface



Select <Human & Vehicle detection> option

Set the <Start time> of searching for human & Vehicle capturing

Set the <End time> of searching for human & Vehicle capturing

Select <Detection Type>, herein allow you select <Human> <Motor Vehicle> and <Non-motorized

Vehicle> (Note: Non-motorized Vehicle refer to the bike, motor-bicycle & electric bicycle.)

Click <Search> to search for the human & vehicle snapshot.

Display area of Searching images: will display the searched face snapshot according to Search and Comparison result. Double-click the images to playback the video which was recorded before and after the detection.

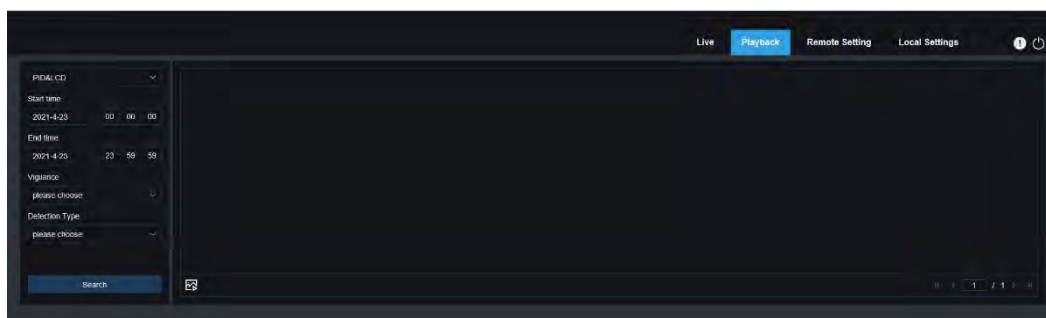
Click <Turn Pages> icon on the lower-right corner to turn to next page or previous page

7.5.3、PID&LCD

PID&LCD can not only alarm the target entering the warning area, but also add the function of human-shaped vehicle shape detection, only alarm the target of people or vehicles, and record the picture or video information for search and preview purpose.

Go to <Playback→AI> interface

Select <PID&LCD> option



Set the <Start time> of searching for human & Vehicle capturing

Set the <End time> of searching for human & Vehicle capturing

Vigilance: Set the capture method to trigger the alarm as <PID>, <LCD> or <PID and LCD>

Select <Detection Type>, herein allow you select <Human> <Motor Vehicle> and <Non-motorized Vehicle> (Note: Non-motorized Vehicle refer to the bike, motor-bicycle & electric bicycle.)

Click <Search> to search for the human & vehicle snapshot.

Display area of Searching images: will display the searched face snapshot according to Search and Comparison result. Double-click the images to playback the video which was recorded before and after the detection.

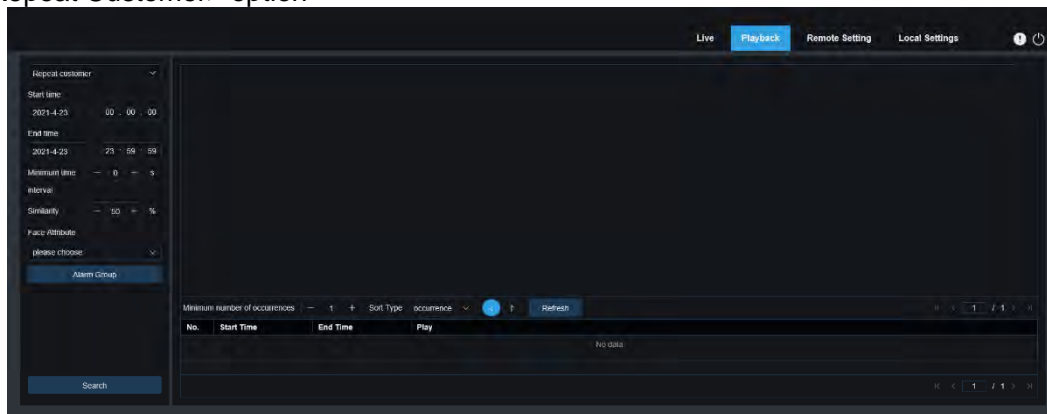
Click <Turn Pages> icon on the lower-right corner to turn to next page or previous page

7.5.4、Repeat Customer

The <repeat customer> function will allow you find out whether customers stop by the products in this area, or monitor whether suspicious targets frequently appear in a certain area

Go to <Playback→AI> interface

Select <Repeat Customer> option



Set the <Start time> of searching for human & Vehicle capturing

Set the <End time> of searching for human & Vehicle capturing

Set the <minimum time interval> between two snapshots of the same target during search to increase its accuracy

Similarity: allow you set the minimum similarity value to other reference pictures when matching and comparing repeat customers.

Note: This configuration only takes effect when the current function does not check <Group>

Face Attribute: Recognize the detected face capturing eigenvalues, including age, gender, mask, glasses, expression and other attributes.

Alarm Group: Filter search images based on facial eigenvalues.

Note: Do not set <Group> limit, check <All> option, and the similarity setting will take effect at this time.

Click <Search> to search for face capturing images

Minimum number of occurrences: Filter search results based on the number of occurrences

Sort Type: Sort the search results by time or number of shots and allow you set Ascending and Descending sorting.

Click <Refresh> to refresh the search result based on < Minimum number of occurrences> and <Sort Type>.

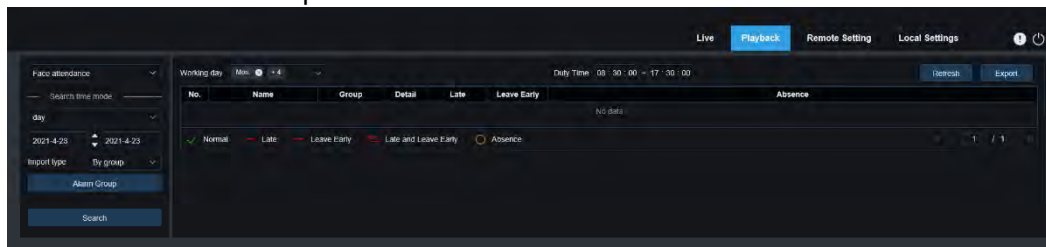
The result will display the <Secondary display area of search results>. In the display area, system will display the snapshot of the selected target in the form of event list. Click the <play> button to switch to the corresponding fast playback.

7.5.5、Face Attendance

The <Face Attendance> function allows the staff clock on and off by face. And the face attendance data can be exported as a file and sent to the specified email address according to the schedule setting.

Go to <Playback→AI> interface

Select <Face Attendance> option



Set the <Search Time Mode>, you can select <Day>, <Week>, <Month>, <Customize> and <Today> options

If you select <day>, the end date and start date will be synchronized automatically; Selecting <week> will automatically change the start date and end date into Monday and Sunday of the week in which the selected date is located;

Selecting <Month> change the start date and end date into the first and last day of the month in which the selected date is located;

Select <customize> allow you customize the search date;

Selecting <today> will automatically change the start date and end date into the current day

Set the <Start time> of searching for Face Attendance

Set the <End time> of searching for Face Attendance

Select <Import Type>, you can choose <By Group> or <By Face> option as <Import Type>

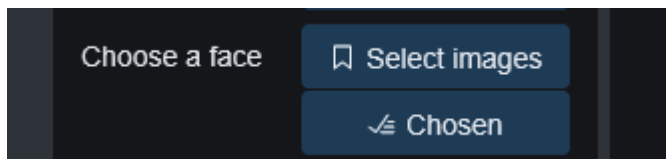
<By Group>: Take all personnel in all the groups as the detection object and search the matching results

<By Face>: Select people in a group to search for matching results

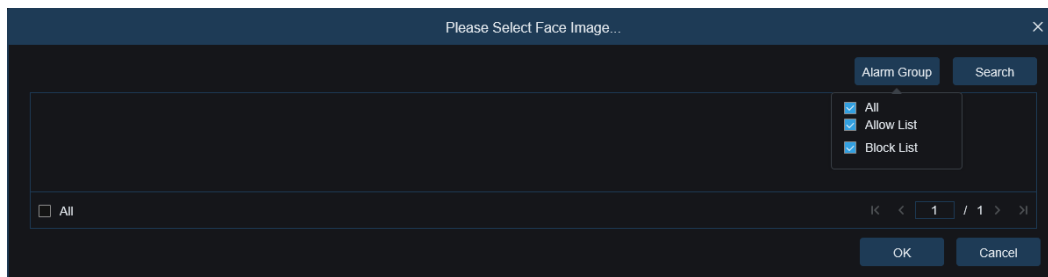
Alarm Group: When selecting <by group>, we can search for face attendance results according to

database group.

When selecting <By Face>, system will pop up the following interface.



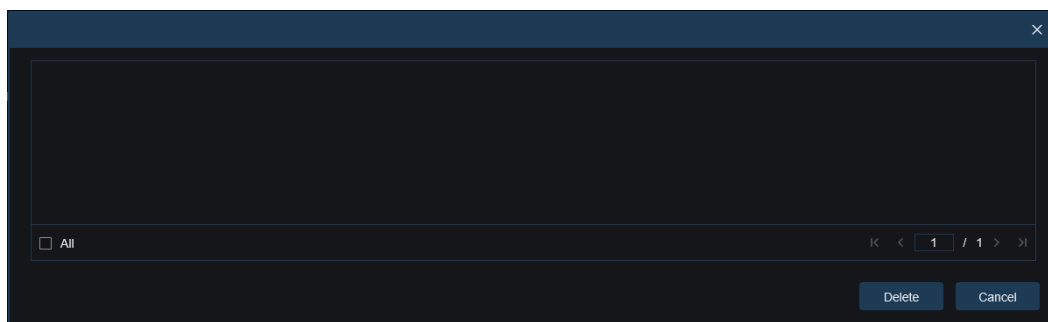
Click <Select Images> and choose a face you desired, then will pop up the below window:



Click <Alarm Group> and click <Search> again. All faces under this group will be searched. Select one face you desire to proceed the face attendance.

Click <OK> to add it to the <Chosen> group

<Chosen> refer to the chosen Faces.

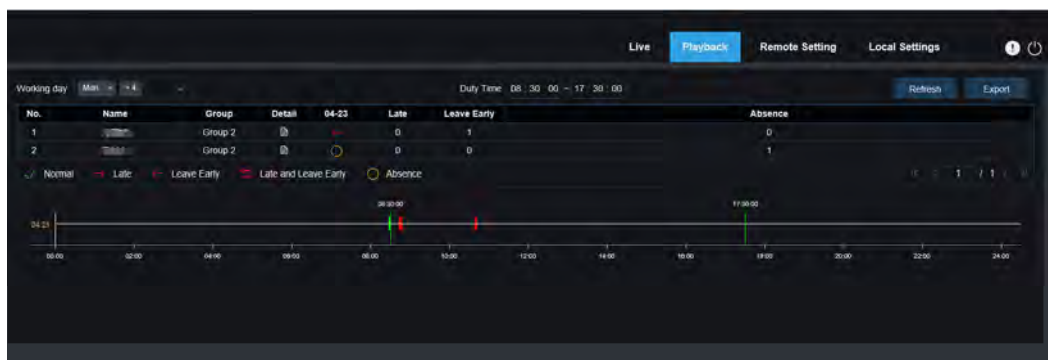


Select one face and click <Delete> to remove the face from the <Chosen> faces

Click <Cancel> to exit the window

Click <Search> to search for Face Attendance info, and then

Enter into the <Search Result Display Area> shown as below



Working Day: Click to set attendance date

Duty Time: Click to set Duty Time

Refresh: After changing the attendance parameters, click to refresh the search results.

Export: Click to Export the results to PC.

Attendance Result

“←”stand for Leave early

“→”stand for Late

“←,→”stand for Late and Leave early

“√” stand for normal attendance

“○”stand for Absence

Green line refers to Start time and End time

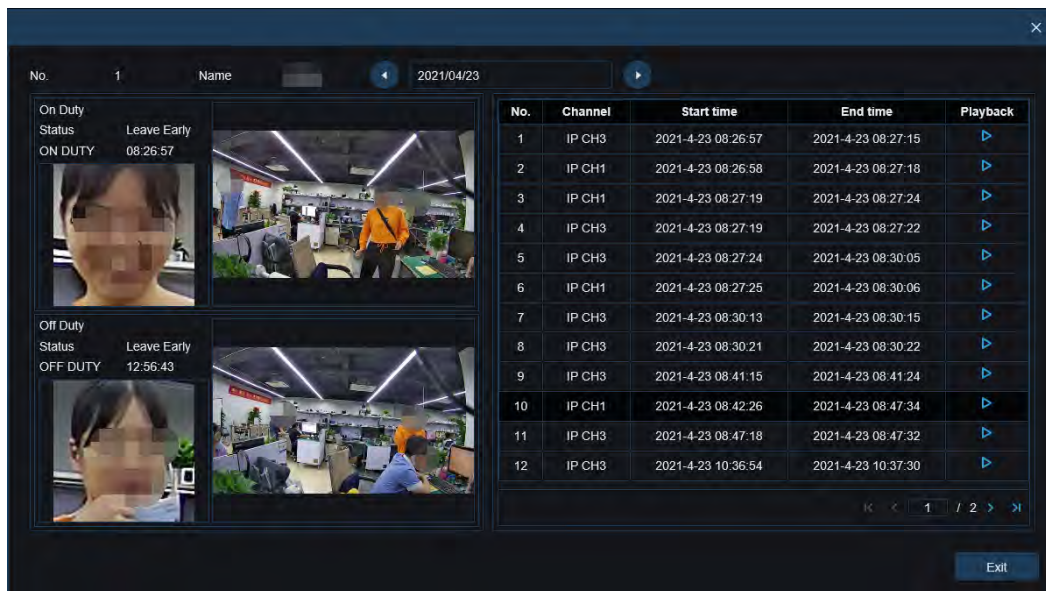
Click one <Name> to check one person’s attendance info.

At the lower right, display the detailed time processing bar, and the time information matching this person will be marked with a red bar.

Click the Red bar to popup to the corresponding fast playback interface.

Click <Detail> to check detailed info.

Click <Playback> icon to fast playback the corresponding video record.



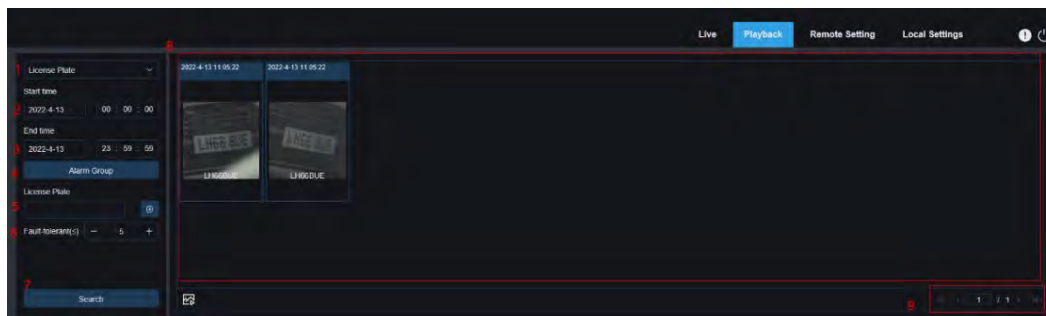
Click <Turn Pages> icon in the lower-right corner to turn to next page or previous page.

7.5.6、 License Plate

Enable the license plate detection function. When recognizing License plate info, it will alarm and record pictures or video information to facilitate search and view.

Go to <Playback→AI> interface as follows

Select <Face Attendance> option



Set the <Start time> of searching for LPD capturing

Set the <End time> of searching for face capturing

Set <Alarm Group>

Note:

when the group restrictions are not set, all pictures will be searched, and the similarity setting will take effect.

When the group restriction is set, system will ignore unfamiliar license plate information

Input the <license plate> to start to filter

Set <Fault-tolerant> option

For example: If set three characters and there are a car with license plate B594SB in the Allow List, one car with license plate B734KB pass by the detection area, At this time alarm will be triggered.

Click <Search>

All the images which meet the Search Request will be displayed in the display area.

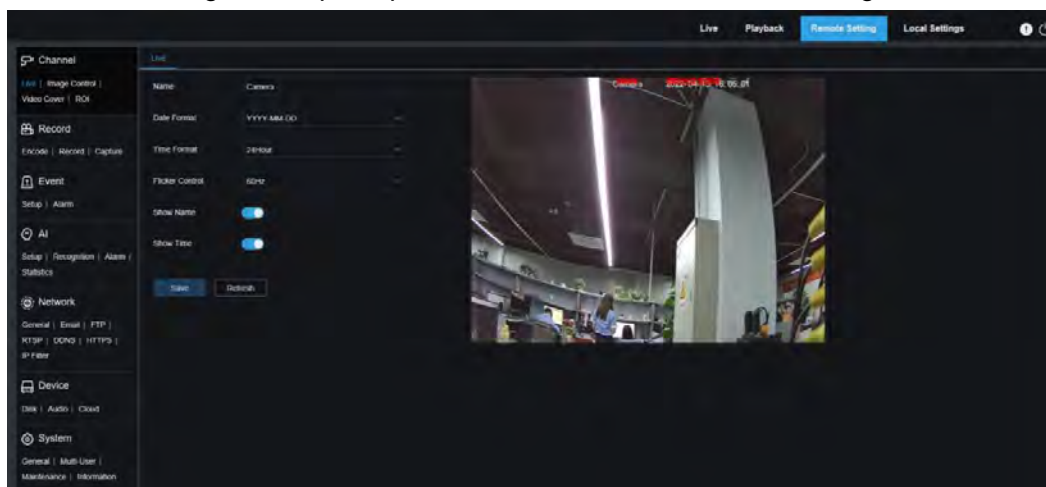
Click <Turn Pages> icon on the lower-right corner to turn to next page or previous page

8、 Remote Setting

8.1、 Live

Go to <Remote Setting>→<Live> menu

The Live is to set the location where the channel name, device time, CC and other intelligent function statistics data and the image are superimposed. The interface is shown in the figure below.



Name: Set the channel name that camera shown on the OSD.

Date Format: Set OSD date format displaying. There are three types: MM/DD/YYYY, YYYY-MM-DD, and DD/MM/YYYY.

Time Format: Set OSD time format. There are 12 hours and 24 hours optional.

Flicker Control: Set the refresh rate of the image. There are two options of 60Hz and 50Hz, corresponding to N standard and P standard.

Show Name: Set whether to display the channel name in the image.

Show Time: Set whether to show the channel time in the image.

Display Channel name's position: Dragging the channel name on the image to put it to the right place

Display Position of Time: Dragging the time on the image to put it to the right place

Display position of alarm statistics: Set by dragging the position of the channel alarm statistics on the image. This setting will only be displayed when the function is enabled.

Save: Save current modification

Click **Refresh** to refresh the current interface parameters.

8.2、Image Control

Image control is to directly control and modify graphics parameters, such as color to black mode, wide dynamic, backlight supplement, etc. The interface is shown as below.

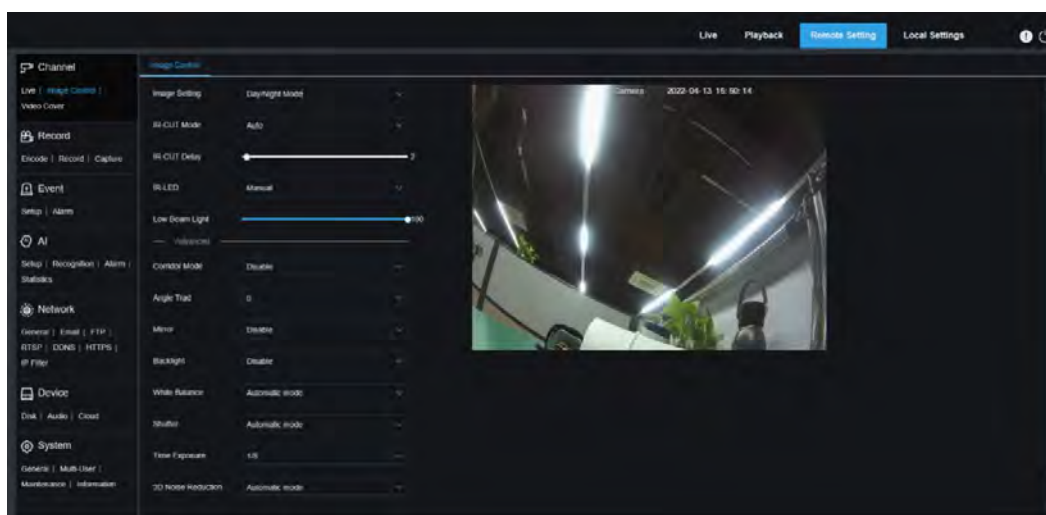
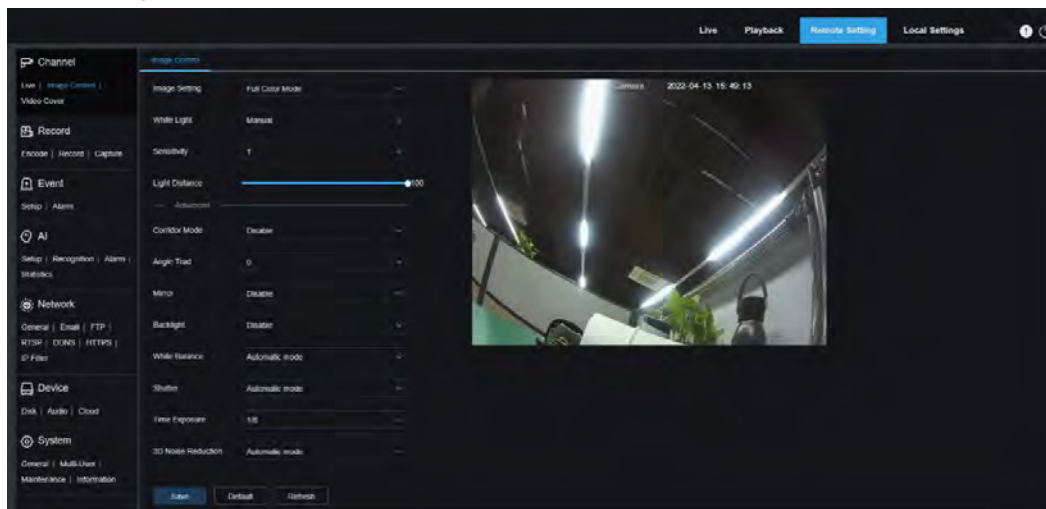


Image Setting: allow you set image mode, it include three modes.

Full color – the images are always in color

Day/Night – the image are in color at day mode, and switch to in B/W at day mode.

Schedule – the camera auto-switch between full color mode and Day/Night mode according to the <Schedule> setting

White Light: Under the full color mode, allow you set the fill light effect of white light. Totally 4 modes.

Automatic Mode: can auto control its fill light effect.

Manual: can manually control the light brightness to fill light

Schedule: can auto-turn on/off the white light to fill light through set time schedule

Off: Turn off the light

<IR-CUT Mode>: Set the day/night switching mode of the camera, a total of 5 modes.

<Auto>: The camera switches between the day mode and the night mode according to the illumination automatically.

<Day>: The image is always in color

<Night>: The image is always in black/white-

<Images>: Similar to the <auto> mode, the color-to-black and the black-to-color modes are controlled through the image (supported by some models w/o photosensitive)

<Schedule>: Switch between black white and color through the schedule setting. To enable this

function, you need to set the start and end time of night vision.

<IR-CUT Delay>: Allow you switch between day and night through IR-cut, the duration of IR-CUT need to be determined. For example, when switching the night vision, the night vision switch will only be performed when the camera is in the dark and the holding time exceeds the set threshold time. The <IR-Cut delay> can be adjustable from 1s to 36s.

<IR-LED>: Set the fill light effect of the camera's IR LED during night vision, there are 3 modes - <Smart IR> <Manual> <off >.

<SmartIR>: Intelligently control the intensity of the IR LED's fill light, and dynamically control the IR LED's fill light according to the focal length and whether the picture is over-exploded.

<Manual>: Manual mode, fill light with the set brightness of the IR LED.

<OFF>: No any fill light

<Corridor Mode>: Corridor Mode

Angle Trad: Image rotation setting. The camera is inverted from the preset in some scenarios. For example, it is designed to be used upside down, but in practice it is used horizontally. The image can be adjusted by this value.

Mirror: When the Live image is the reverse of the actual scene, this function helps to display the image normally.

There are four models, including: <Disable > <Vertical>,<Horizontal> and <all>.

Select the <mirror> mode as needed.

Backlight: If we focus on an object against strong backlight, the object will be too dark to be seen clearly. BLC (backlight compensation) compensates light to the object in the front to make it clear. There are four modes:

<WDR>: The WDR (Wide Dynamic Range) function help the camera provide clear images in environment with strong illumination differences.

<HLC>: When the bright area of the image is over-exposed and the dark area is under-exposed, the HLC (High Light Compression) can be enable to weaken the bright area and brighten the dark area, so as to achieve the light balance of the overall picture. (Some models support this function)

<Back Light>: This mode make the object in the dark more clear.

<Disable> Disable the function

White Balance is the white rendition function of the camera, It is used to adjust the color temperature according to the environment? There are two mode -<Automatic> & <Manual>.

Shutter: Set the shutter exposure time, there are 2 modes - <Automatic mode> and <Manual>.

Time Exposure: Set the camera's exposure time, used in conjunction with Shutter. When the exposure time is long, the image will be overexposed, and when the exposure time is short, the picture will be dark.

Defog: You can enable the defog function when the environment is foggy and the image is misty. It enhances the subtle details so that the image appears clearer. Allow you set below options

<Off> -disable the <defog> function

<Auto> -the camera auto-judge the defog effects.

<Manual> - Manually configure parameters to Defog

<3D Noise Reduction>: 3DNR is used to reduce the image noise and improve the image quality.

There are three modes, including <automatic mode>, <Off> and <Manual>

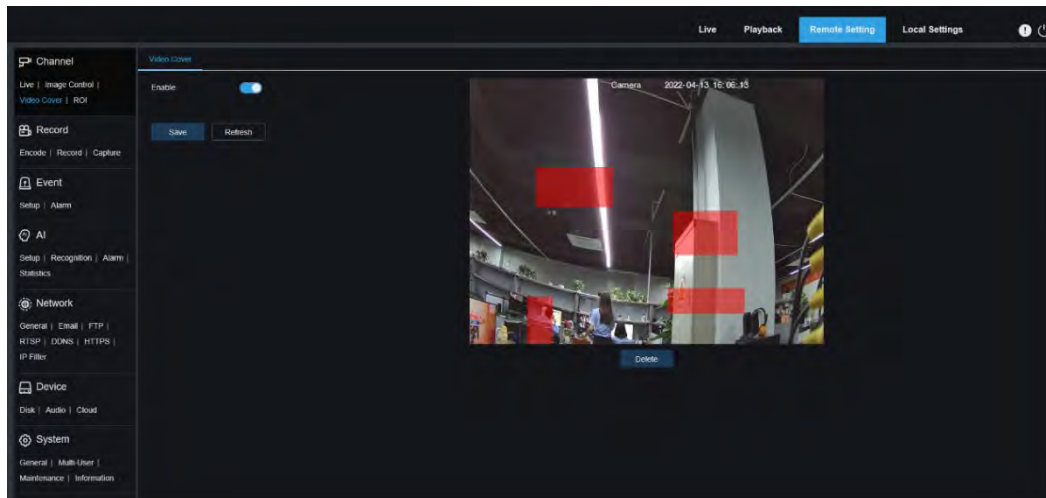
Click **<Save>**

Click **<Default>** to recover to ex-factory default value.

Click **<Refresh>** to retrieve image parameters.

8.3、 Video Cover

In actual application scenario, some areas are not suitable for monitoring and recording. Those areas can be hidden in the video through this function. The interface is shown in the figure below.



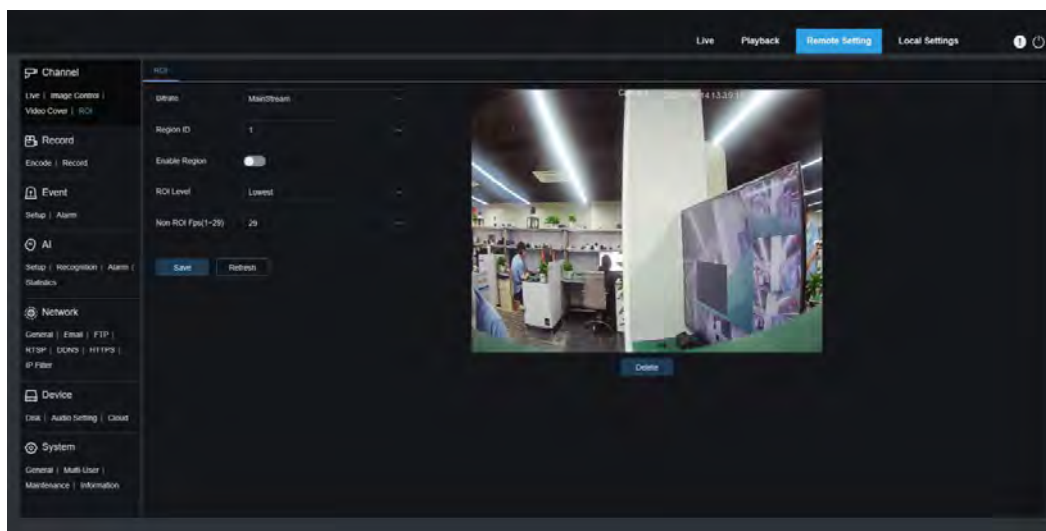
Enable: Switch to turn on the function.

Cover Area: Set the area that needs to be covered on the monitoring screen. When setting, the covering block is red, and the corresponding area of the screen is black when it is enabled. 4 covering blocks can be set.

Click **<Delete>** to remove the selected covering block.

8.4、 ROI

ROI allows that you can select an area as an important or sensitive area from the video. This area can be set to a different frame rate and resolution with the non-selected area.



Bitrate: Select the bitrate to be set.

Region ID: Select the region ID, up to eight regions can be set.

Enable Region: Turn on.

ROI Level: Set the image quality in the area. The higher the quality is, the higher the resolution and frame rate are.

Non-ROI Fps: Set the frame rate outside the region.

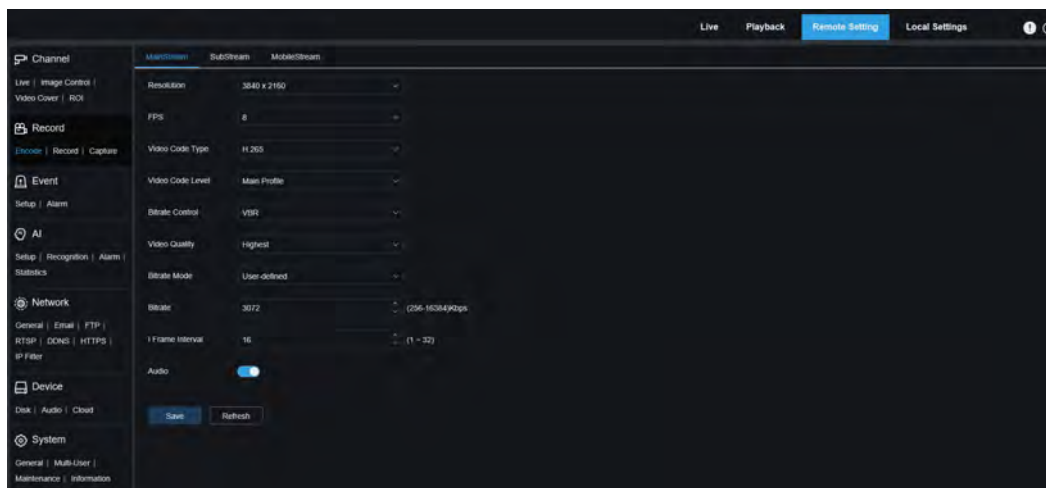
Note: Some models support ROI function

8.5、Record

This menu allows you to configure the preview and recording parameters.

8.5.1、Encode

This menu allows you to configure the image quality of recorded video or network transmission. Generally, the main stream is the quality of the recorded video that will be saved in the HDD; the sub stream is the preview video quality through remote access (such as Web client and CMS). The mobile stream which can be disabled defines the preview quality of the mobile device through remote access.



Resolution: The resolution of the recorded image. It refer to a measure of how much detail a digital image can hold. The greater the resolution, the greater the level of detail.

FPS: It refers to the number of frames captured each second. A higher frame rate is advantageous when there is movement in the video stream.

Video Code Type: Decoding type, there are H264, H265, H264+, H265+ and MJPEG (MJPEG mode only exists in sub-stream mode)

Video Code Level: Video quality level, including Best line, Main Profile and High Profile (for H265, only Main Profile is available).

Bitrate Control: Select the bitrate level. For simple scenes, such as gray walls, a constant bit rate (CBR) is suitable. For more complex scenes, such as busy streets, variable bit rate (VBR) is more suitable.

Bitrate Mode: If you want to set the bitrate yourself, please select the "Custom" mode. If you want to select a preset bitrate, select "Preset Mode".

Bitrate: The bit rate often refer to as speed, but actually defines the number of bits/time unit rather than distance/time unit.

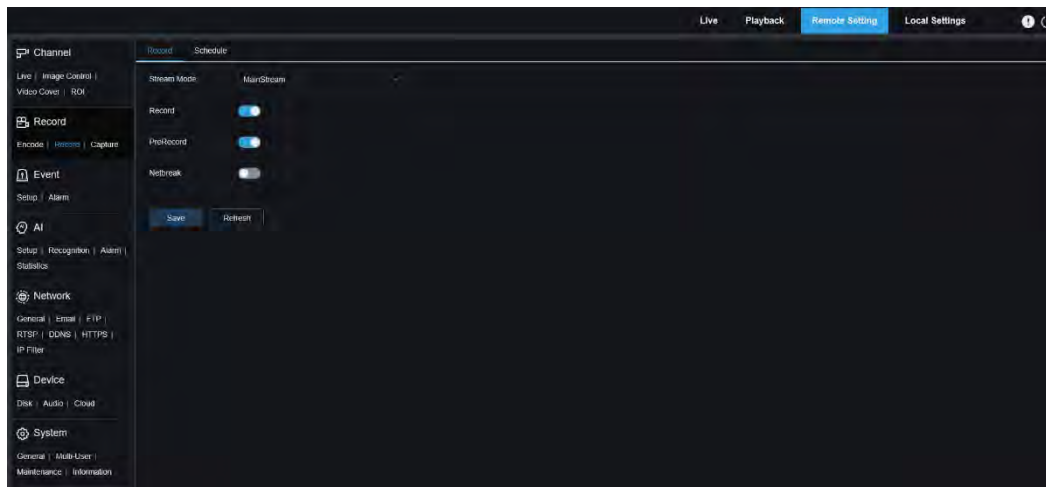
I Frame Interval: Set the <I frame interval> option, only IPC can be set.

Audio: If you want to record audio and video at the same time, and connect a microphone to the IPC or use a camera with audio capabilities, please select this option.

8.5.2、Record

8.5.2.1、Record Parameters

Record parameters can be set by this menu.



Stream Mode: The video stream to be saved in the SD card in recording mode. The default is the main stream.

Record: Check to enable record.

Pre-Record: If this option is enabled, the IPC will start recording a few seconds before the alarm event occurs. If your camera’s main recording type is based on motion detection or I/O alarm, it is recommended to use this option.

Net-break: Recording when the network is disconnected

ANR (Automatic Network Replenishment) can automatically enable SD card of network camera to save the video in the condition of network disconnection, and can synchronize data after the network is covered.(确认步骤)

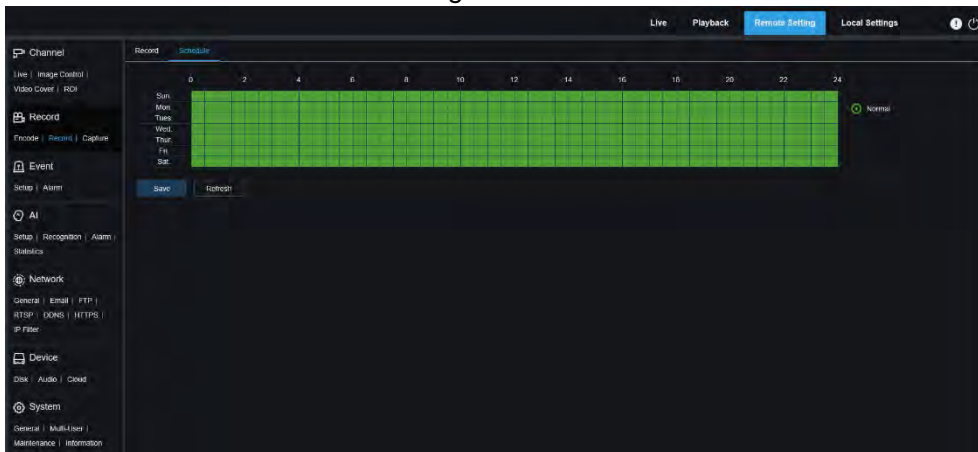
1. Log in your device via web browser and go to < >
2. Check <Enable ANR>
3. Click OK

Note: The supplementary record will not start until one minute after the connection between NVR and IPC is restored

1. IPC(s) is recording through SD card when network connection failed, the NVR side can supplement the recording of the time when ipc is disconnected
2. This function is controlled by a switch. When connected to the NVR, an ANR switch button will appear on the <record> interface, and playback will also have this video search Type.
3. The supplementary will start in one minute after the IPC is connected to NVR again.

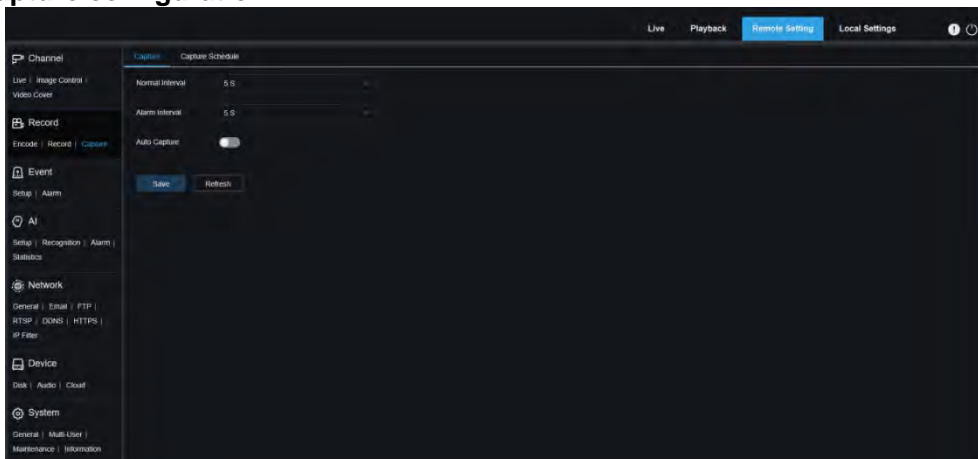
8.5.2.2、Record Schedule

The camera would automatically start/stop record according to the configured record schedule. Drag the mouse cursor on time bar to configure its record schedule.



8.5.3、Capture

8.5.3.1、Capture configuration



Normal Interval: refer to time interval of capturing during normal record.

Alarm Interval: refer to time interval of capture when triggered motion, I/O alarm and PIR alarm

Auto Capture: Set <auto Capture> mode,

8.5.3.2、Capture Schedule

The device will automatically capture pictures according to the schedule. You can configure the capture schedule by drag the curse on the time bar



Normal: When the area is marked in green, it means that the channel takes a normal capturing at the corresponding time of the area.

Motion: When the area is marked in yellow, it means that the channel takes a motion capture at the corresponding time of the area.

IO: When the area is marked in red, it means that the channel will capture the IO alarm images for the corresponding time of the area.

PIR: When the area is marked in purple, it means that the channel will capture the PIR alarm images for the corresponding time of the area

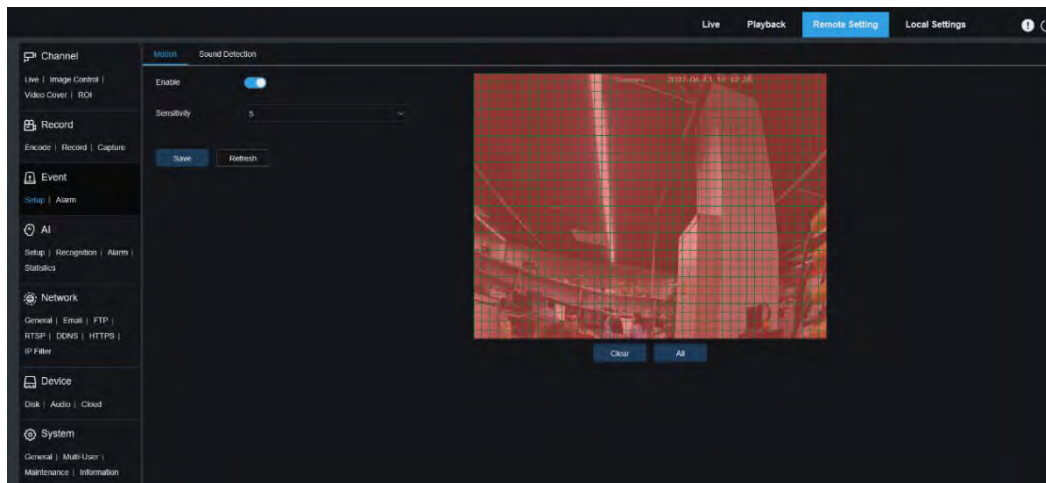
No Capture: When the area is marked in black, it means there is no schedule at this period of the area.

8.6、Event

8.6.1、Setup

8.6.1.1、Motion Setup

This menu allows you to configure motion detection parameters. When motion is detected, a series of alarms are triggered, such as sending an email alert with additional images from the camera (if this option is enabled), pushing notifications via mobile APP.



Drag the left mouse button to delimit the detection area in the right window. Only movement in the area will trigger an alarm.

Enable the option

Set **Sensitivity** of motion. The larger the value is, the more sensitive it is

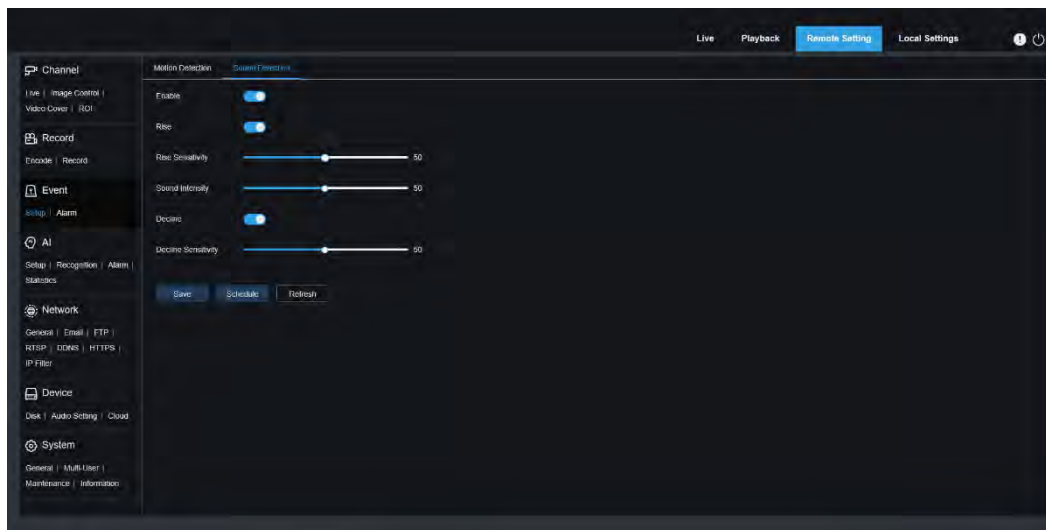
Click **All** to all-select the whole area as detect area,

Click clear to remove all the detect areas

Click **Save**

8.6.1.2、 Sound Detection Setup

When the camera detects a change in the connected audio and meets the requirements of the alarm detection setting, an alarm will be triggered.



Enable: Turn on/off sound detection.

Rise: The alarm will be triggered only when the volume rises steeply.

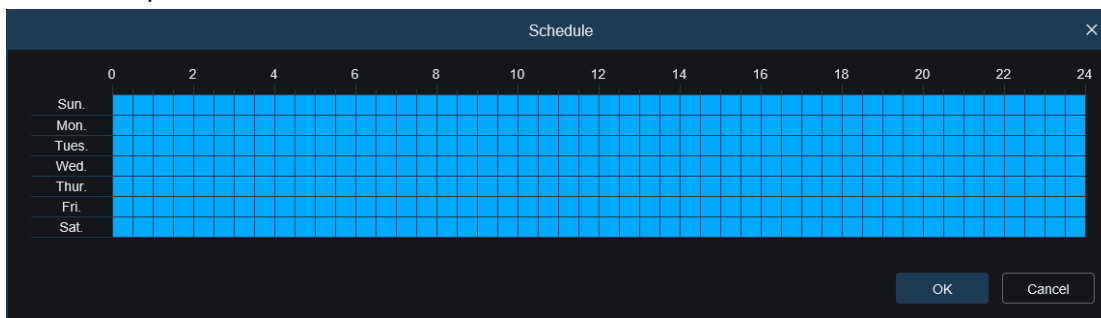
Rise Sensitivity: Fine-tuning sound rise sensitive detection, and the sensitivity can be set to 1-100. The larger the value the lower the sound detection threshold.

Sound Intensity: Coarse-tuning sound rise sensitive detection, and the sensitivity can be set to 1-100. The larger the value, the higher sound detection threshold. Hard to trigger alarm.

Decline: Turn on the sound drop detection, when the sound suddenly increases and decreases in a short period of time, trigger the sharp drop alarm.

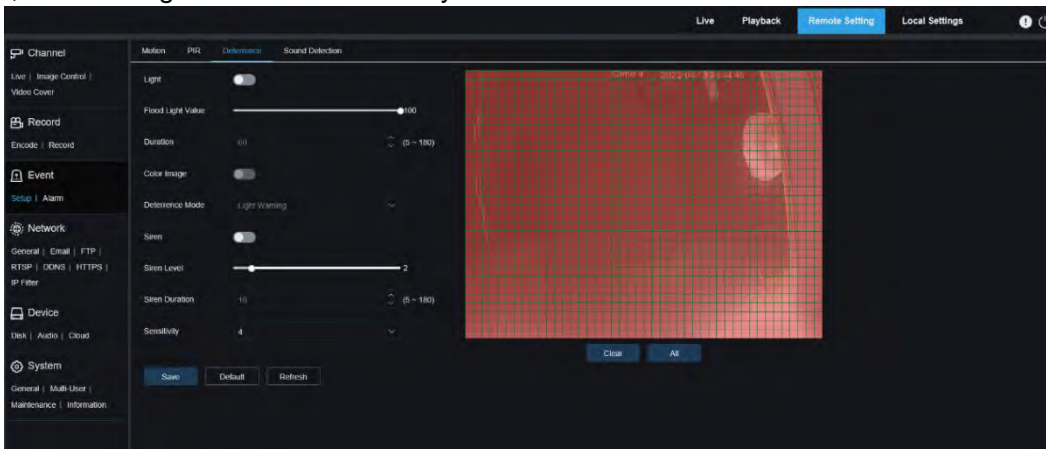
Decline Sensitivity: The decline sensitive can be set to 1-100, and the higher the value is, the higher the sensitivity. More easy to trigger alarm.

Schedule: Set the time schedule of sound detection. It is fully enable by default. The user can customize the time period of touch sound alarm.

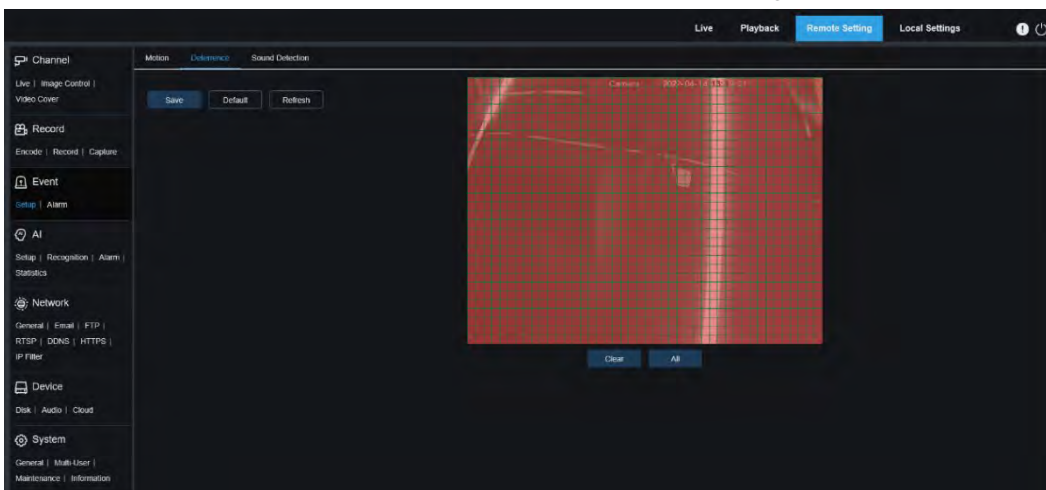


8.6.1.3、Deterrence Setup

When the camera supports white light and the image control is set to day/night mode, this menu allows you configure white light deterrence parameters; When the alarm linkage of deterrence is triggered, the white light will be automatically turned on for deterrence.



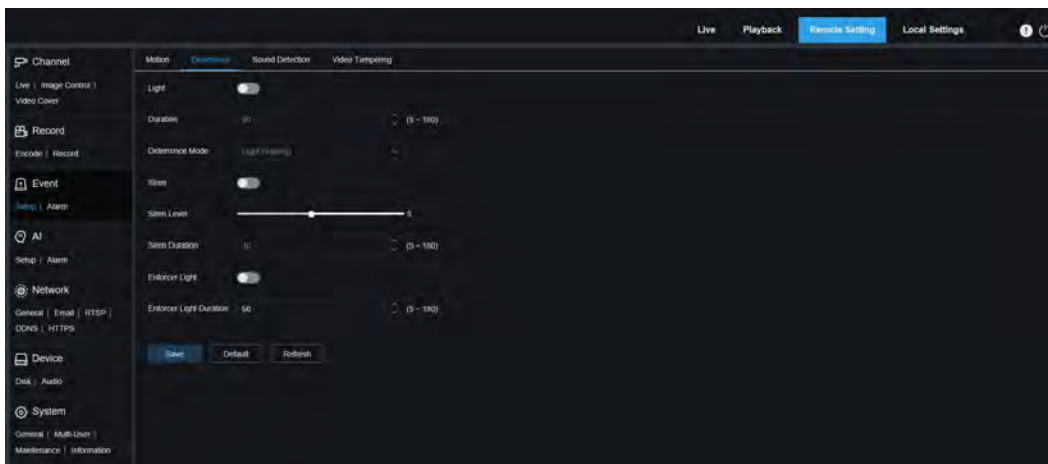
When camera is set to Full Colour mode, The menu can't be configured,



Drag the left mouse to delimit the deterrence area in the right window. Only when the alarm is triggered in the area can white light deterrence be carried out.

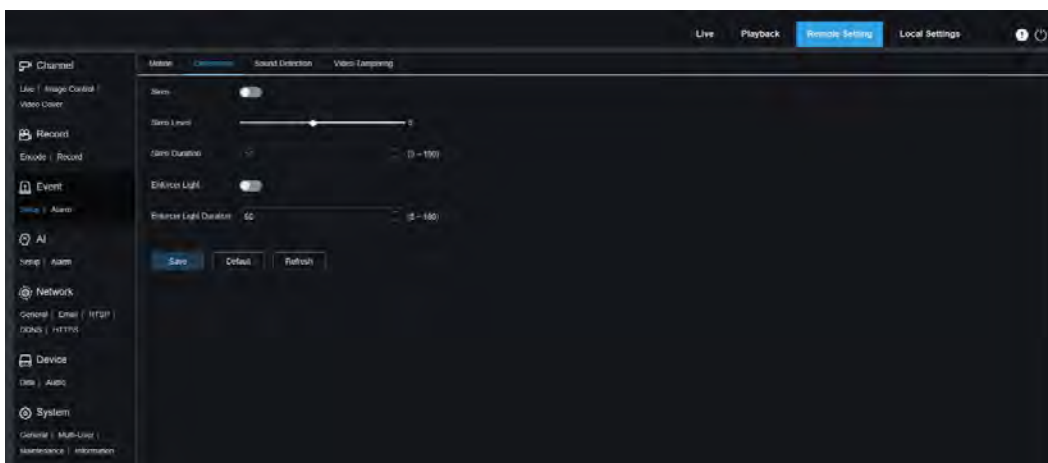
- 1、 Turn on the **light**
- 2、 Adjust the **Flood Light Value**
- 3、 Set the **duration** of white light deterrence
- 4、 Enable **Color Image** function, If it is switched to night vision mode in day/night mode, and the alarm is triggered and white light deterrence is carried out, the image will be switched to color mode and will not be switched to night vision mode again until the end of white light deterrence.
- 5、 There are two **Deterrence Mode**, including Light Warning and Light Strobe
- 6、 Allow you enable Siren, adjust **Siren Level** and **Siren duration**
- 7、 Set its **Sensitivity** level. Level 1 is the lowest, and eight is highest.

When the camera supports warm light and/or enforcer light, and the image control is set to day/night mode, this menu allows you configure deterrence parameters; When the alarm linkage of deterrence is triggered, the light will be lit according to the configured parameter mode for deterrence.



- 1、 Turn on the **light**
- 2、 Set the **duration** of warm light deterrence
- 3、 Select **Deterrence Mode** – you can choose Light warning or Light Strobe
- 4、 Turn on **Siren**
- 5、 Set **Siren Level, Siren Duration**
- 6、 Turn on **Enforcer Light** and set **Enforce Light Duration**

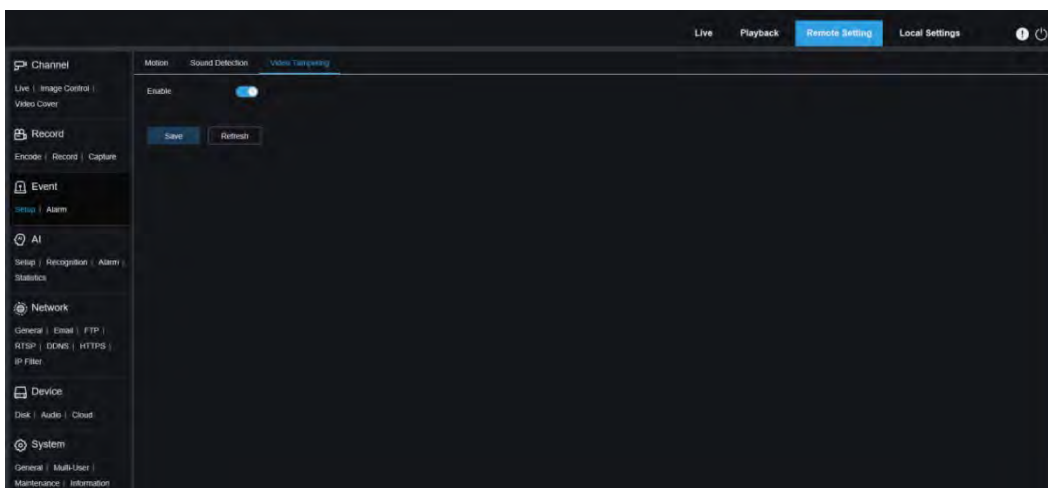
Note: When image control is set to full color mode, the menu only allow you configure Siren and Enforcer parameters. Details please refer to the below:



8.6.1.4、 Video Tampering Setup

When detecting the real-time view is blocked, an alarm will be triggered.

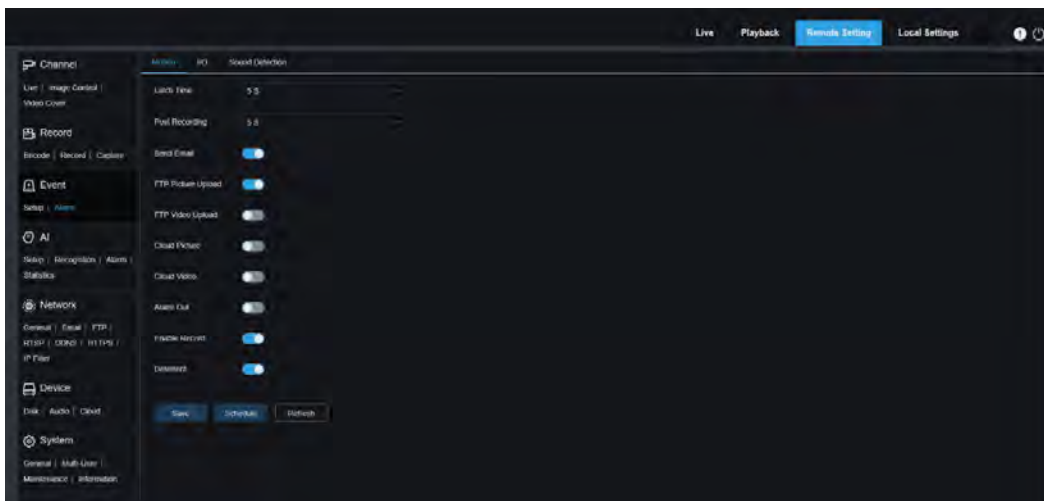
Enable the function and click Save



8.6.2、 Alarm

The menu allow you configure the alarm parameters

8.6.2.1、 Motion Alarm



Latch Time: Set the external alarm triggering time when motion is detected.

Post Recording: Set the duration of the device's recording after the event occurs. There are 5s, 10 s, 20s, and 30s optional. The default recording time is 5s. The max is 30s.

Send Email: Set the camera to send email to your mailbox when it detects motion.

FTP Picture Upload: Upload the alarm picture to the FTP server after the alarm is triggered.

FTP Video Upload: Upload the alarm video to the FTP server after the alarm is triggered.

Cloud Picture: Upload the alarm picture to the cloud server after the alarm is triggered.

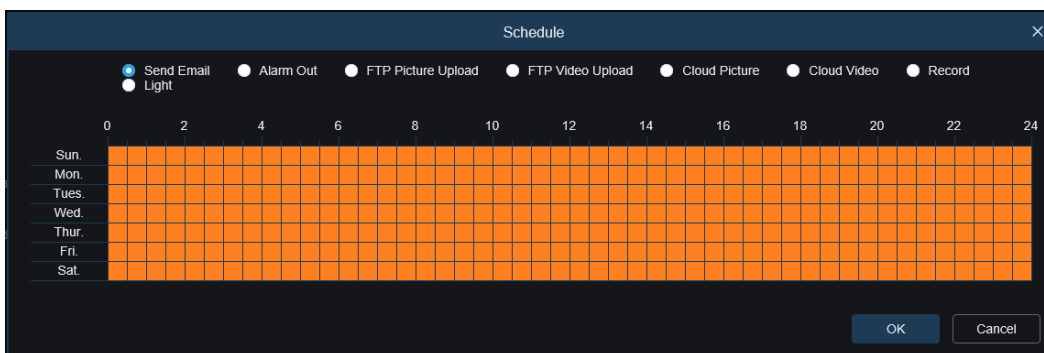
Cloud Video: Upload the alarm video to the cloud server after the alarm is triggered.

Alarm Out: Optional function. If your camera supports to connect an external alarm device, you can enable this function to activate the external alarm device.

Enable Record: This type of recording will be activated when an alarm is triggered.

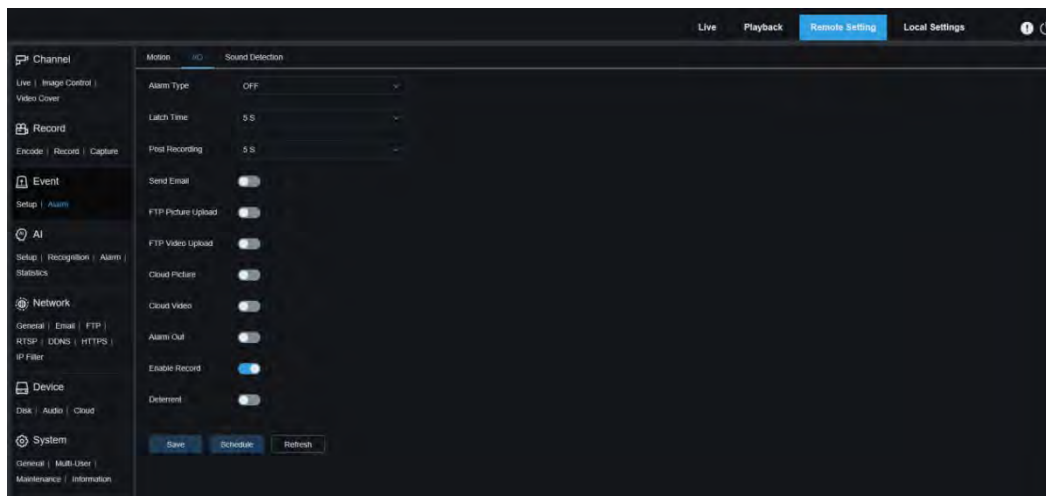
Deterrent: Enable Deterrent function, when alarms are triggered, the deterrent light will be lit

Schedule: Set the scheduled time of each alarm. A series of alarms will be executed only when it is set in the Schedule time.



8.6.2.2、 I/O Alarm

This is an optional feature that can only be used if your device supports I/O sensors and an external I/O alarm device is connected.



Alarm Type: Three types are optional: Normally open, normally close and Off. Select a type that matches your sensor type, or select "Off" to turn off the sensor trigger function.

Latch Time: The time that the camera IO alarm continues to alarm after the alarm ends.

Post Recording: Set the duration of the device's recording after the event occurs. There are 5s, 10 s, 20s, and 30s optional. The default recording time is 5s. The max is 30s.

Send Email: Set the camera to send email to your mailbox when it detects I/O.

FTP Picture Upload: Upload the alarm picture to the FTP server after the alarm is triggered.

FTP Video Upload: Upload the alarm video to the FTP server after the alarm is triggered.

Cloud Picture: Upload the alarm picture to the cloud server after the alarm is triggered.

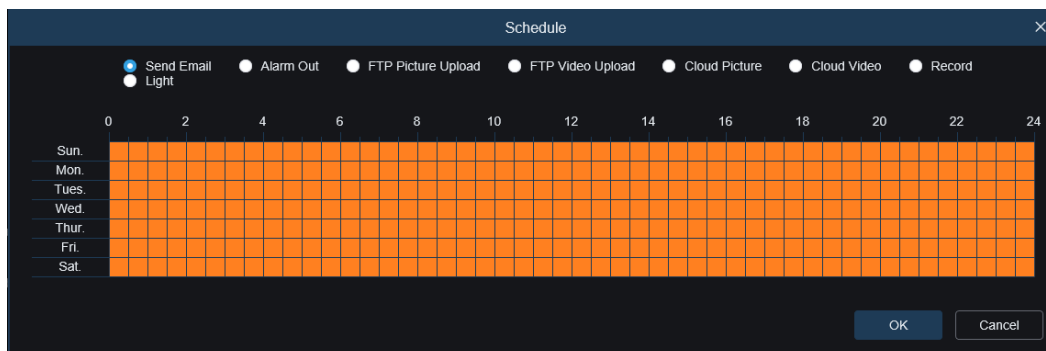
Cloud Vider: Upload the alarm video to the cloud server after the alarm is triggered.

Alarm Out: Optional function. If your camera supports to connect an external alarm device, you can enable this function to activate the external alarm device.

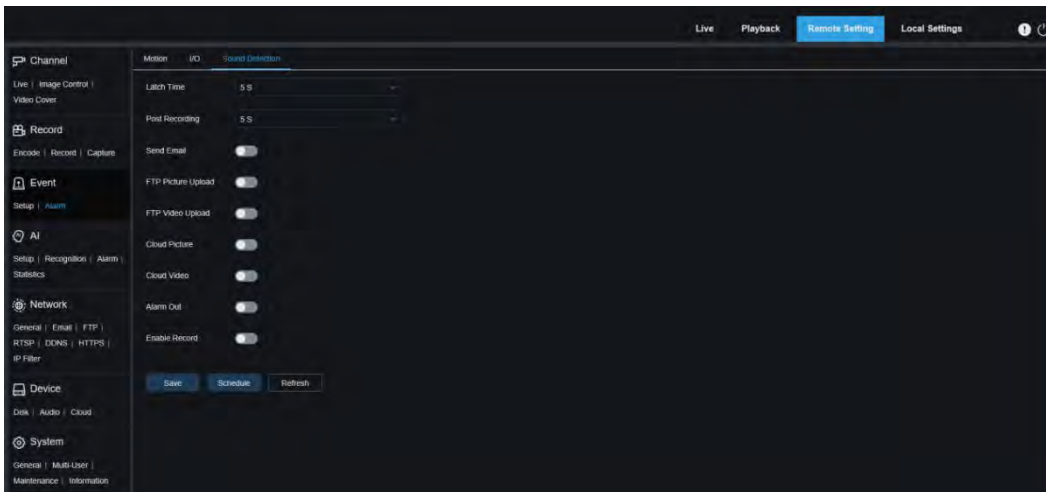
Enable Record: This type of recording will be activated when an alarm is triggered.

Deterrent: Enable Deterrent function, when alarms are triggered, the deterrent light will be lit

Schedule: Set the scheduled time of each alarm. A series of alarms will be executed only when it is set in the Schedule time.



8.6.2.3、Sound Detection Alarm



Latch Time: Set the external alarm triggering time when motion is detected.

Post Recording: Set the duration of the device's recording after the event occurs. There are 5s, 10 s, 20s, and 30s optional. The default recording time is 5s. The max is 30s.

Send Email: Set the camera to send email to your mailbox when it detects sound.

FTP Picture Upload: Upload the alarm picture to the FTP server after the alarm is triggered.

FTP Video Upload: Upload the alarm video to the FTP server after the alarm is triggered.

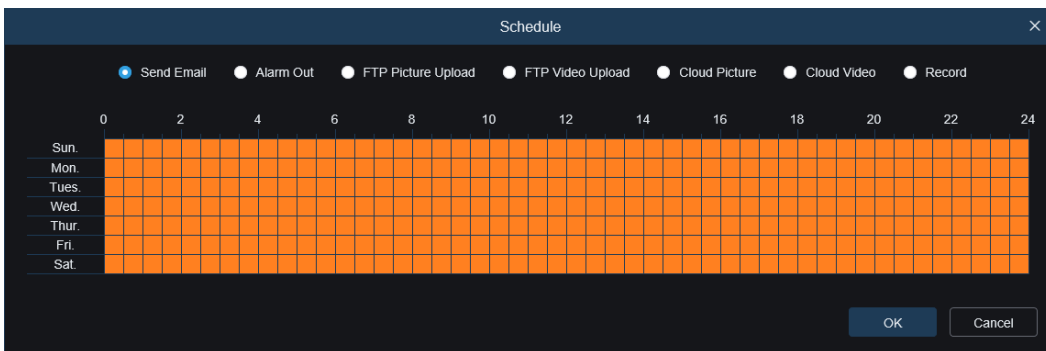
Cloud Picture: Upload the alarm picture to the cloud server after the alarm is triggered.

Cloud Video: Upload the alarm video to the cloud server after the alarm is triggered.

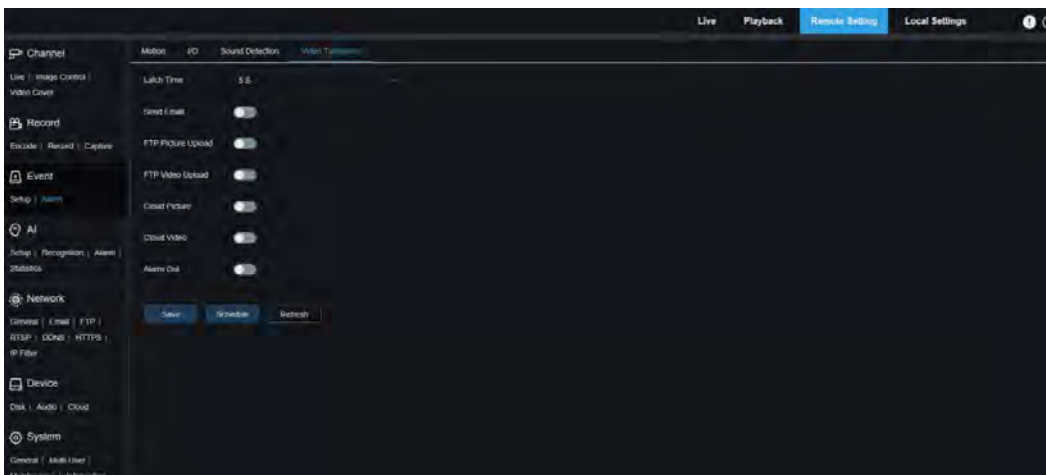
Alarm Out: Optional function. If your camera supports to connect an external alarm device, you can enable this function to activate the external alarm device.

Enable Record: This type of recording will be activated when an alarm is triggered.

Schedule: Set the scheduled time of each alarm. A series of alarms will be executed only when it is set in the Schedule time.



8.6.2.4 Video Tampering Alarm



Latch Time: Set the external alarm triggering time when video tampering is detected.

Send Email: Set the camera to send email to your mailbox when the event occurs

FTP Picture Upload: Upload the alarm picture to the FTP server after the alarm is triggered.

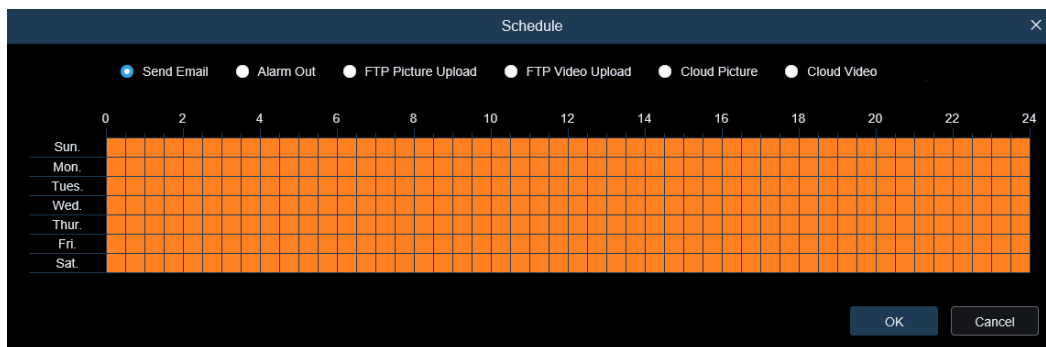
FTP Video Upload: Upload the alarm video to the FTP server after the alarm is triggered.

Cloud Picture: Upload the alarm picture to the cloud server after the alarm is triggered.

Cloud Video: Upload the alarm video to the cloud server after the alarm is triggered.

Alarm Out: Optional function. If your camera supports to connect an external alarm device, you can enable this function to activate the external alarm device.

Schedule: Set the scheduled time of each alarm. A series of alarms will be executed only when it is set in the Schedule time.



(**Note:** Some models support the video tampering function)

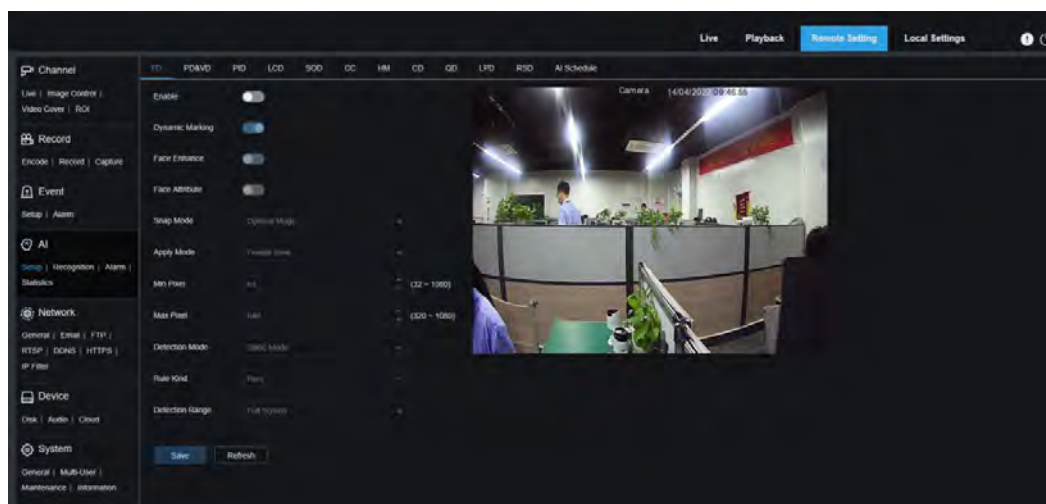
8.7、 AI

8.7.1、 Setup

When the camera trigger AI intelligent alarm, the corresponding alarm function needs to be enabled in the setup menu. The functions will consume the computing power of the camera. Due to the limited performance of the camera, HM, RSD and other functions can be opened at the same time, while PID, LCD, SOD, FD, PD & VD, CC, CD, QD and LPD are mutually exclusive

8.7.1.1、 FD

It help to detect the face in the detection region. If a face is detected, the device triggers the linkage actions.



Enable: Enable/Disable Face Detection

Dynamic Marking: Enable/disable Dynamic Marking

Face Enhance: When enabled the function, the effect of capturing the face of a moving target is enhanced, but the overall image quality will be reduced.

Face Attribute: Recognize the detected face capturing eigenvalues, including age, gender, mask, glasses, expression and other attributes.

Note: this function needs to be turned on when using AD alarm.

Snap Mode: set the capture mode. The program supports three capture modes.

You can view the capturing effect in the Preview interface or in NVR port when **push receiving is on.**

Optimal Mode: When a camera detects one target and the target disappears, it only pushes a picture that the camera thinks is the best when the target disappears.

Real-time Mode: When a camera detects one target, it immediately pushes a picture, and then pushes another picture with the best effect when the target disappears.

Interval Mode: Set the number of shots and the interval between shots and push pictures as needed. Snap number can be set to 1, 2, 3 and unlimited. Snap frequency: the time range is 1-255 seconds. If it is set to 5 seconds, a push will be generated respectively at 5, 10 and 15s when the target is detected.

Apply Mode When filtering the captured images, only the captured images that meet the angle setting will be pushed. There are below modes to select:

Frontal View: Push only the face image of the target.

Multi Angle: Push the side face image of the target

Customize: Customize the face angle of the target that can be pushed. There are <Roll Range>, <Pitch Range>, <Yaw Range> and <Picture Quality> etc. parameters to display.

Roll Range: Set <Roll Range> parameter. When the angle does not meet the set limit, faces can be detected, but push is not performed.

Pitch Range: Set <Pitch Range> parameter. When the angle does not meet the set limit, faces can be detected, but push is not performed.

Yaw Range: Set <Yaw Range> parameter. When the angle does not meet the set limit, faces can be detected, but push is not performed.

Picture Quality: Set the <Picture Quality> parameter to Filter the non-face shots which are falsely detected.

Click <Front Default> button in the lower left corner to display its default values as follows: Roll Range: 30、Pitch Range: 30、Yaw Range:45、Picture Quality: 100

Click <Multi Default> button in the lower left corner to display the default values of Multi Apply mode as follows: Roll Range: 180、Pitch Range: 180、Yaw Range:180、Picture Quality: 100 Min Pixel: allow you set <Min Pixel> value

Its defaulted resolution: 64*64

The setting range: 32~1080 pixels

Max Pixel: allow you set <Max Pixel> value

Its defaulted resolution: 640*640

The setting range: 320~1080 pixels

Detection mode: There are two modes to select, covering:

- 1、 **Static Mode:** Detect all the object in the screen
- 2、 **Motion Mode:** Detect the moving object in the screen. The still objects, like portraits, Statues etc., will be filtered.

Rule Kind: There are two modes to select:

- 1、 **Rect.:** allow you detect the face target in the setting area
- 2、 **Line:** The target will be tracked only when it crosses the setting detection line.

Rule Type: Under the <Line> option, now system will allow you select the <Rule Type>, including <A→B> and <B→A>.

Detection Range: Under the <Rect.> option, you can select <Full Screen> mode or <Customize> mode to detect the faces.

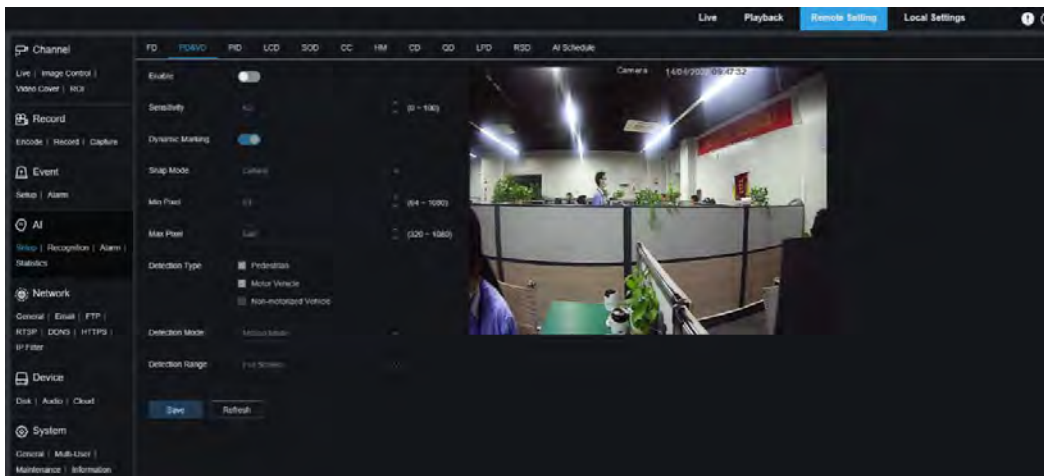
Full Screen: Detect all the areas detected by cameras

Customize: detect the area selected by quadrilateral frame

When select the <Customize> option, you can set the quadrilateral frame or rule line at this area.

8.7.1.2、PD&VD

It help to identify the person or vehicle shapes in the detection areas, and generate an alarm and record the corresponding snapshot according to setting parameters.



Enable: Enable/Disable PD&VD function

Sensitivity: Set its sensitivity parameters, its range is 0~100. The higher the detection sensitivity, the better it can detect the target of people or vehicles, but the higher the false alarm will be Enable/Disable Dynamic Marking option

Snap Mode: set the capture mode. The program supports three capture modes.

You can view the capturing effect in the Preview interface or in NVR port when **push receiving is on**.

Default: Pushes a picture of a person or car when the target disappears

Real-time Mode: When a camera detects one target, it immediately pushes a picture, and then pushes another picture with the best effect when the target disappears.

Interval Mode: Set the number of shots and the interval between shots and push pictures as needed. Snap number can be set to 1, 2, 3 and unlimited. Snap frequency: the time range is 1-255 seconds. If it is set to 5 seconds, a push will be generated respectively at 5, 10 and 15s when the target is detected.

Min Pixel: allow you set <Min Pixel> value

Its defaulted resolution: 64*64

The setting range: 32~1080 pixels

Max Pixel: allow you set <Max Pixel> value

Its defaulted resolution: 640*640

The setting range: 320~1080 pixels

Detection Type: Allow you select Pedestrian, Motor Vehicle and Non-motorized Vehicle

Set Detection Mode, there are two mode to select:

Static Mode: Detect all people or vehicles in the picture

Motion Mode: Detect some moving people and vehicles in the images

Set Detection Range, there are two modes to select:

Full Screen: Detect all the areas that can be monitored by the camera

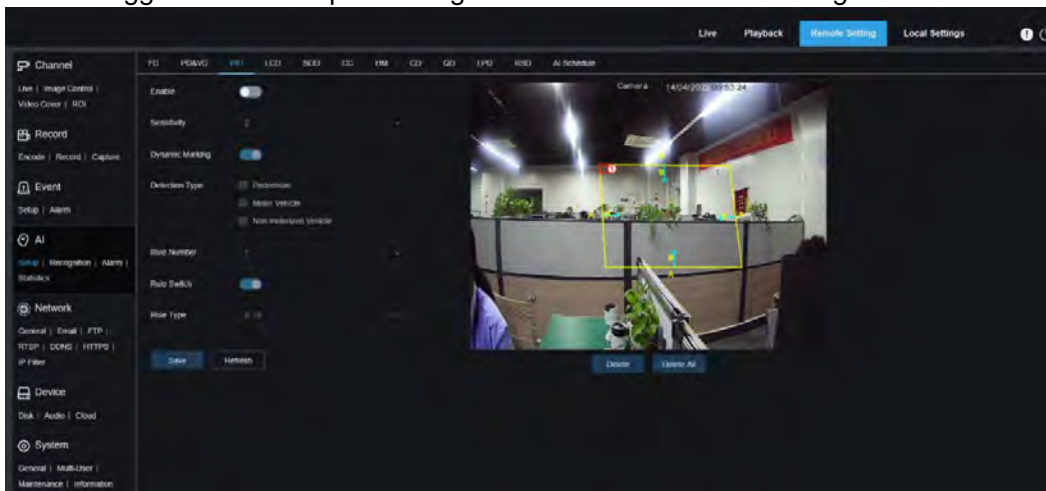
Customize: Only detect the area selected by quadrilateral frame.

Rule line Setting Area: When select the <Customize> option, you can set the quadrilateral frame at

this area.

8.7.1.3、PID

Alarm will be triggered when a specific target enters or leaves the warning area.



Enable/Disable PID function:

Set **Sensitivity level**, the higher the sensitivity, the smaller the detectable target

Enable **Dynamic Marking** option

Detection Type: Allow you select Pedestrian, VD and Non-motorized Vehicle

Pedestrian: Alarm is triggered when Pedestrian enter into the perimeter intrusion area

Motor Vehicle: Alarm is triggered when cars enter into the perimeter intrusion area

Non-Motorized Vehicle: Alarm is triggered when bike, motor bicycle etc. enter into the perimeter intrusion area.

Rule Number: Support to set up to 4 rules

Rule Switch: allow you enable/disable the current rule number.

Rule Type: Under the current <rule number> option, chose the corresponding rule type. There are three crossing rules for select, including $A \rightarrow B$, $B \rightarrow A$ and $A \leftrightarrow B$

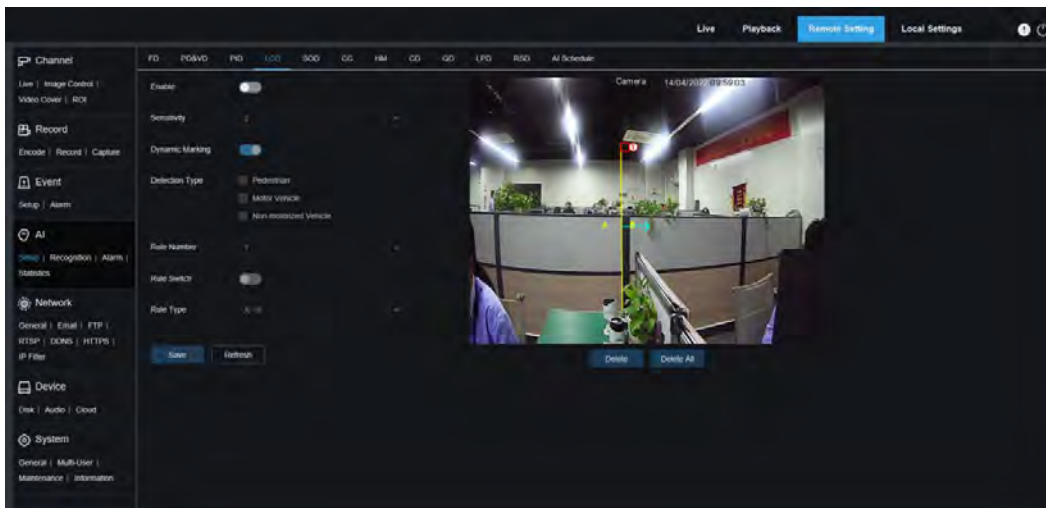
Rule lines Display Area: Will configure and display the rule lines in the area

Click **<Delete>** to remove the selected rule line(s)

Click **<Delete All>** to remove all the rule lines

8.7.1.4、LCD

LCD refer to Line Crossing Detection function. When a specific target passes through the preset detection line, an alarm signal is generated



Enable/Disable PID function

Set **Sensitivity** level, the higher the sensitivity, the smaller the detectable target

Enable **Dynamic Marking** option

Detection Type: Allow you select Pedestrian, VD and Non-motorized Vehicle

Pedestrian: Alarm is triggered when Pedestrian enter into the perimeter intrusion area

Motor Vehicle: Alarm is triggered when cars enter into the perimeter intrusion area

Non-Motorized Vehicle: Alarm is triggered when bike, motor bicycle etc. enter into the perimeter intrusion area.

Rule Number: Support to set up to 4 rules

Rule Switch: allow you enable/disable the current rule number.

Rule Type: Under the current <rule number> option, chose the corresponding rule type. There are three crossing rules for select, including $A \rightarrow B$, $B \rightarrow A$ and $A \leftrightarrow B$

Rule lines Display Area: Will configure and display the rule lines in the area

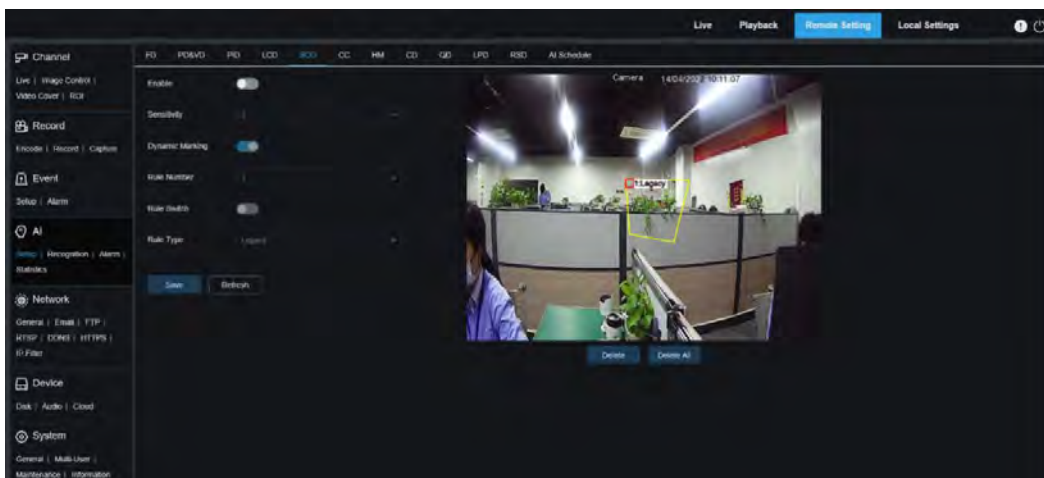
Click **<Delete>** to remove the selected rule line(s)

Click **<Delete All>** to remove all the rule lines

8.7.1.5、SOD

SOD refer to the Stationary Object Detection function.

When detecting there are some items left or lost in the monitoring scene, an alarm will be triggered.



Enable/Disable SOD function

Set **Sensitivity** level, the higher the sensitivity, the smaller the detectable target

Enable **Dynamic Marking** option

Rule Number: Support to set up to 4 rules

Rule Switch: allow you enable/disable the current rule number.

Rule Type: Under the current <rule number> option, chose the corresponding rule type. There are three Rule Types for select, including <Legacy>, <Lost> and <Lost & Legacy>

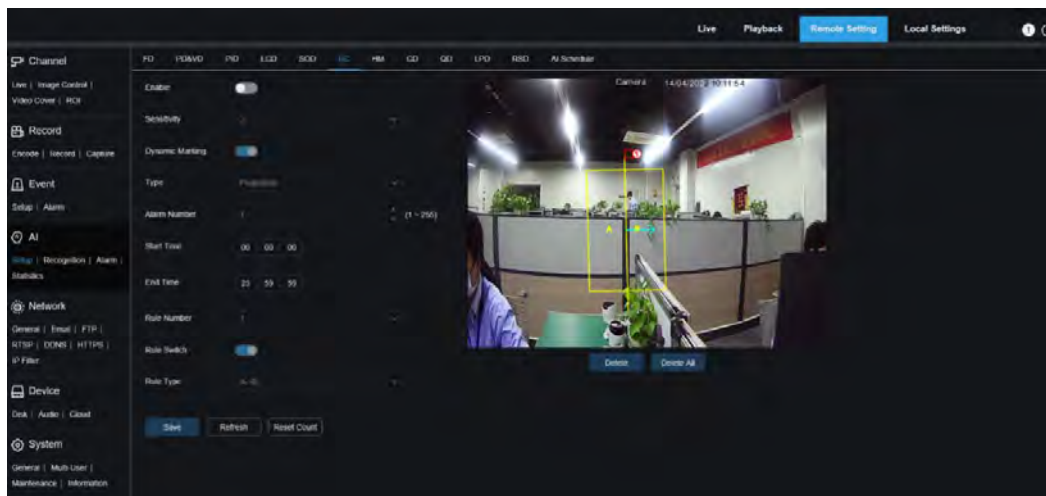
Rule lines Display Area: Will configure and display the rule lines in the area

Click **<Delete>** to remove the selected rule line(s)

Click **<Delete All>** to remove all the rule lines

8.7.1.6、CC

CC refers to Cross Counting function. Count the line crossing of specific objects in the monitoring area.



Enable/Disable CC function

Set **Sensitivity** level, the higher the sensitivity, the smaller the detectable target. It can also be used to detect distant targets in the scenario.

Enable **Dynamic Marking** option

Type: Set the <type> option there are four types for select.

Motion: Detect all the objects, including Human, Car and still objects

Pedestrian: Detect the human shapes

Motor Vehicle: Detect the Vehicle shapes

Non-motorized Vehicle: Detect some vehicles which have two wheels, like bikes, motor-bicycle etc.

Alarm Number: Set the limit/condition of triggering the alarm. Its range 1~255. If the parameter is set to "5", the CC alarm will be triggered once the "in" count minus the "out" count is greater or equal to the setting value.

Start Time: Set the start working time of CC function every day

End Time: Set the stop working time of CC function every day.

Rule Number: Set the Rule line number. The CC function only support one rule line

Rule Switch: allow you enable/disable the current rule number.

Rule Type: there are two types, <A→B> and <B→A>, for select. If you choose A→B, and monitoring object enter into B from A, "in" count will be added; from B to A, "out" count will be added.

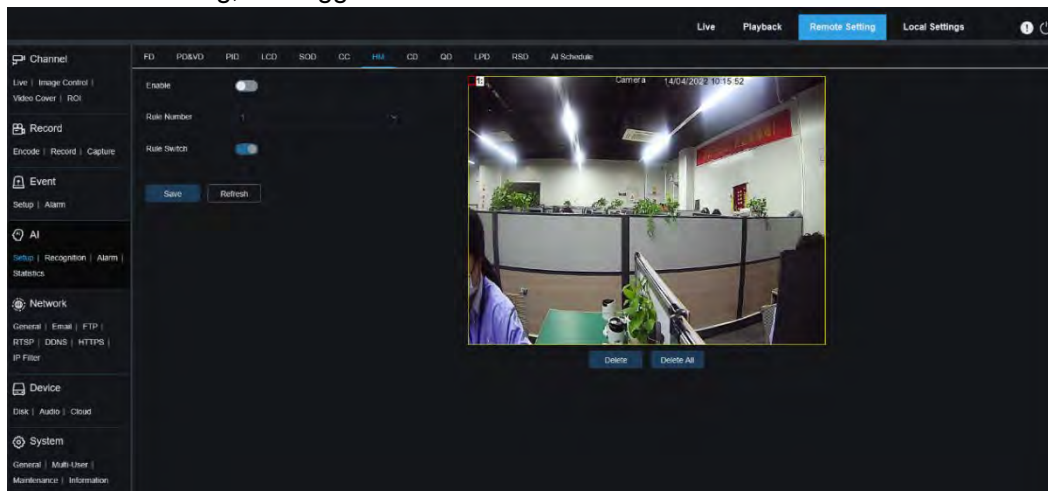
Reset Count: Click the <Reset Count> button to clear the current count.

Rule line Setting Area: allow to set rule line in the area.

Counting Area: display the count of CC line crossing statistics. How to adjust the position of Counting please refer the section 8.1 - <Live>

8.7.1.7、HM

Go to <HM> option to detect the personnel activity information in one designated area. This function only supports data recording, not trigger one alarm.



Enable/Disable HM function.

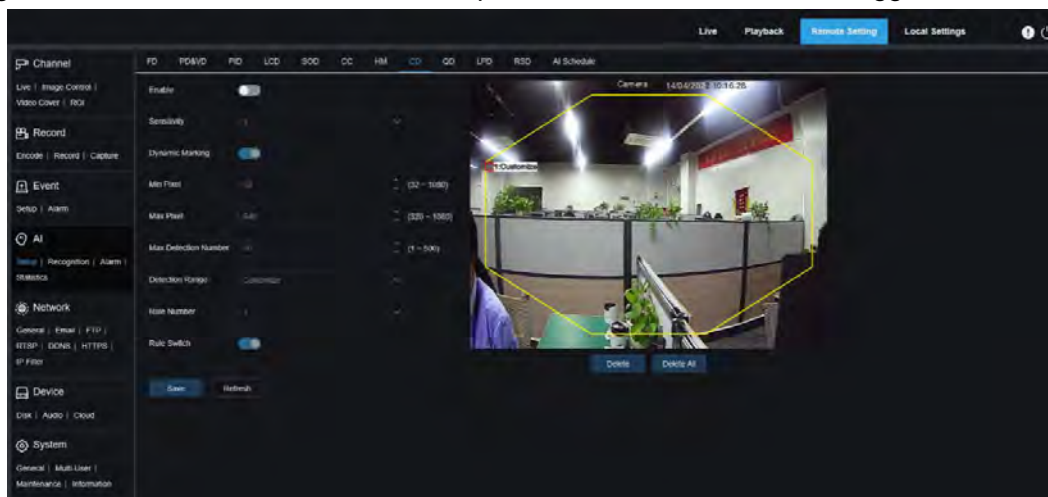
Rule Number: Set the Rule line number. The CC function only support one rule line

Rule Switch: allow you enable/disable the current rule number.

Monitoring Area: Set the area of HM function statistics. It is defaulted to select the whole area as monitoring area.

8.7.1.8、CD

CD (Crowd Density Detection) function can recognize and count the number of people in the monitoring area. When the number exceeds the preset value, an alarm will be triggered.



Enable/Disable CD function.

Set **Sensitivity** level, the higher the sensitivity, the smaller the detectable target.

Enable **Dynamic Marking** option

Min Pixel: allow you set <Min Pixel> value

Its defaulted resolution: 64*64

The setting range: 32~1080 pixels

Max Pixel: allow you set <Max Pixel> value

Its defaulted resolution: 640*640

The setting range: 320~1080 pixels

Max Detection Number: set the max detection value of human heads which is allowed to detect in the monitoring area. Once it exceeds this value, an alarm will be triggered.

Detection Range: Set the <Detection Range>, you can select <Full Screen> mode or <Customize>

mode to monitor the crowd density in the area.

Full Screen: Monitor all the areas detected by cameras

Customize: monitor the area selected by quadrilateral frame

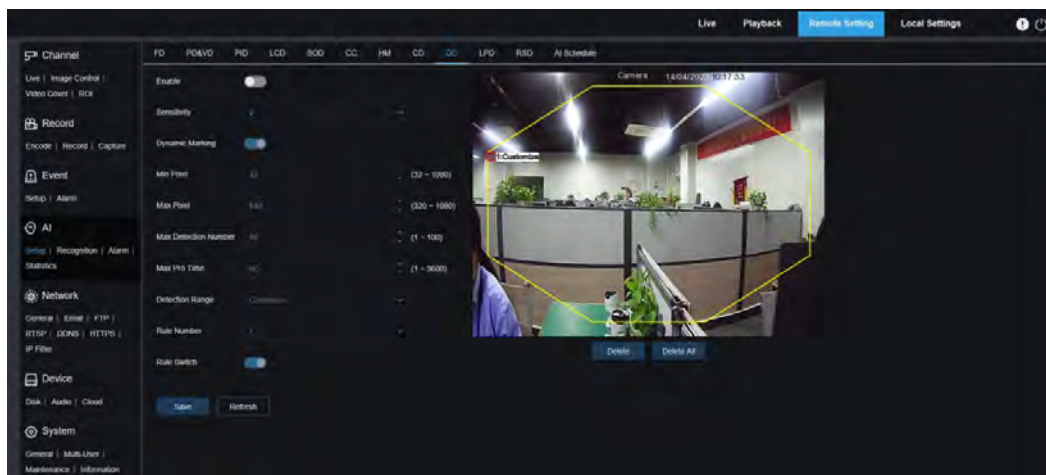
Under the <Customize> option, you will set the Rule line number. The CD function only support one rule line

Rule Switch: allow you enable/disable the current rule number.

Detection Area: Set the detection area with one octagonal frame of CD function statistics. Display Counting Area: display the count of Crowd Density statistics. How to adjust the position of Counting please refer the section 8.1 - <Live>

8.7.1.9、 QD

QD (Queue Detection) function allows you set queue number and waiting time in the detection area and when the queue is too long or queue waiting time is too long alarm will be triggered.



Enable/Disable QD function.

Set **Sensitivity** level, the higher the sensitivity, the smaller the detectable target.

Enable Dynamic Marking option

Min Pixel: allow you set <Min Pixel> value

Its defaulted resolution: 64*64

The setting range: 32~1080 pixels

Max Pixel: allow you set <Max Pixel> value

Its defaulted resolution: 640*640

The setting range: 320~1080 pixels

Max Detection Number: set the max detection value of human heads which is allowed to detect in the monitoring area. Once it exceeds this value, an alarm will be triggered.

Max Pro Time: Set the Maximum time allowed to stay in the detection area. If no one left after reaching the set time, an alarm will be triggered.

Note: Count only when a target is detected in the area.

Only restart counting when a target leaves the detection area,

Ignore the target who suddenly disappears in the area

Detection Range: Set the <Detection Range>, you can select <Full Screen> mode or <Customize> mode to monitor the crowd density in the area.

Full Screen: Monitor all the areas detected by cameras

Customize: monitor the area selected by quadrilateral frame

Under the <Customize> option, you will set the Rule line number. The QD function only support one rule line

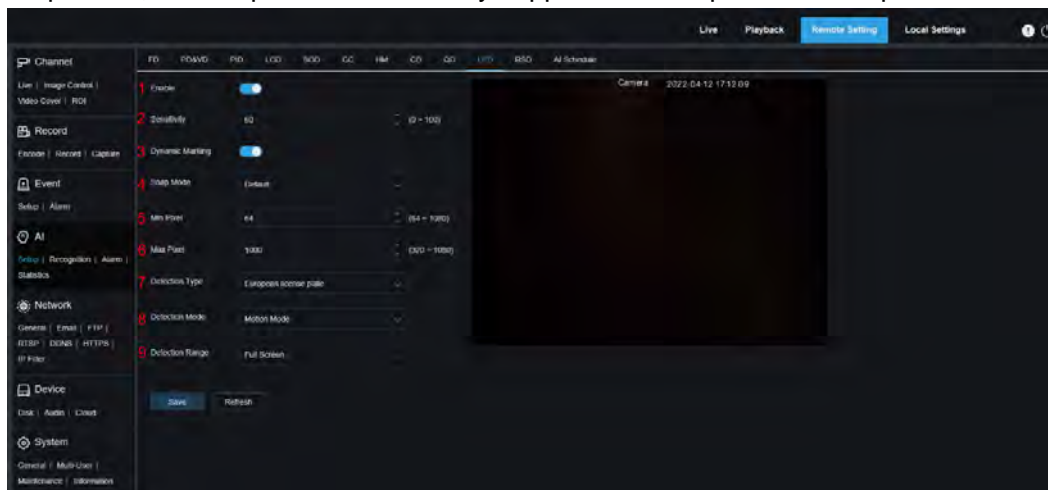
Rule Switch: allow you enable/disable the current rule number.

Detection Area: Set the detection area with one octagonal frame of QD function statistics. Display Counting Area: display the count of Queue Detection statistics. How to adjust the position of Counting please refer the section 8.1 - <Live>

8.7.1.10、LPD

LPD function allows you recognize if the vehicle is Unfamiliar vehicles or vehicles entered into the database.

Note: At present, license plate detection only supports license plates in Europe and America.



- 1、 Go to <LPD> option and Enable the LPD function.
- 2、 Set **Sensitivity** level, The higher the sensitivity, the easier it is to detect the target
- 3、 Enable **Dynamic Marking** option
- 4、 **Snap Mode:** Set the capture mode. The program supports three capture modes. You can view the capturing effect in the Preview interface or in NVR port when **push receiving is on**.

Default: Pushes a picture of car when the target disappears

Real-time Mode: When a camera detects one target, it immediately pushes a picture, and then pushes another picture with the best effect when the target disappears.

Interval Mode: Set the number of shots and the interval between shots and push pictures as needed. Snap number can be set to 1, 2, 3 and unlimited. Snap frequency: the time range is 1-255 seconds. If it is set to 5 seconds, a push will be generated respectively at 5, 10 and 15s when the target is detected.

Min Pixel: allow you set **<Min Pixel>** value. It can be recognized only when the license plate is larger than the minimum pixel set.

Its defaulted resolution: 64*64

The setting range: 32~1080 pixels

Max Pixel: allow you set **<Max Pixel>** value. It can be recognized only when the license plate is smaller than the minimum pixel set.

Its defaulted resolution: 640*640

The setting range: 320~1080 pixels

Detection Type: Set the Detection type of License Plate. There are two types, including European License Plate and American License Plate.

Detection mode: There are two modes to select, covering:

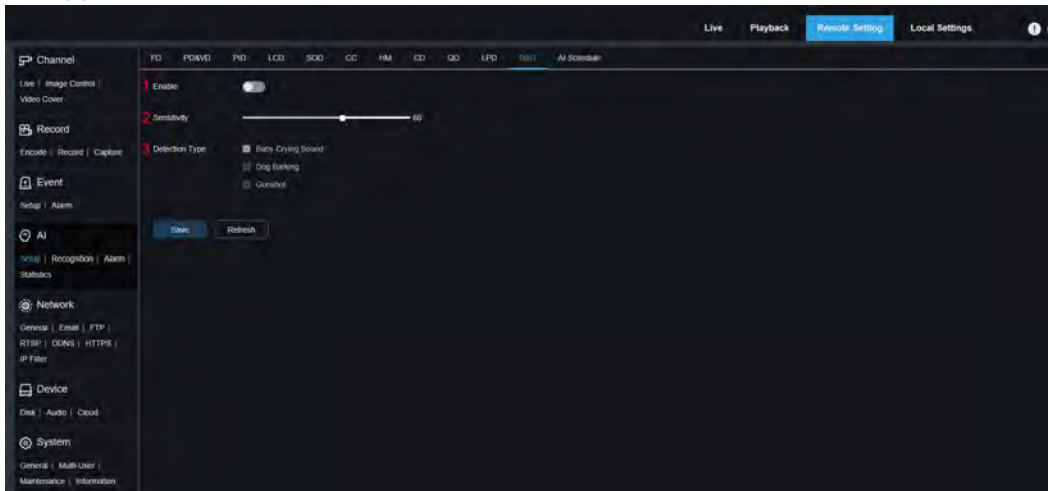
- 1、 **Static Mode:** Detect all the static License Plate in the screen
- 2、 **Motion Mode:** Detect all the moving License in the screen.

Set Detection Range, there are two modes to select:

- 1、 **Full Screen:** Detect all the areas that can be monitored by the camera
- 2、 **Customize:** Only detect the area selected by quadrilateral frame

8.7.1.11、RSD

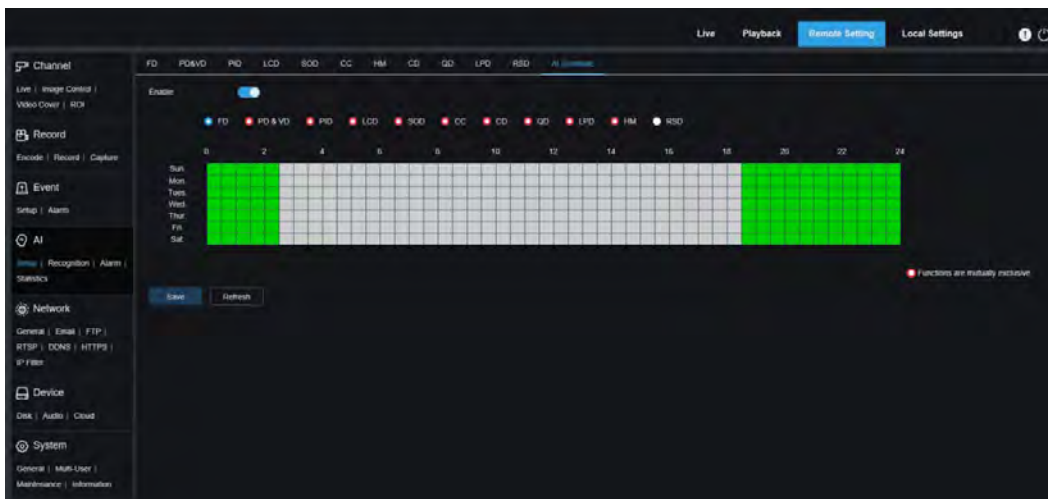
For abnormal sound detection, different detection types can be set according to the requirements of the application scene, such as baby crying, gunshot, dog barking, etc. when the camera detects the set sound, it will trigger an alarm.



- 1、 **Enable** the function
- 2、 Set **Sensitivity** level. And the sensitivity can be set to 1-100
- 3、 Check the **Detection Type**
 Baby Crying Sound
 Dog Barking
 Gunshot

8.7.1.12、AI Schedule

Go to the AI Schedule menu, now you can configure the schedule for each AI function



Enable/Disable AI schedule function

Note:

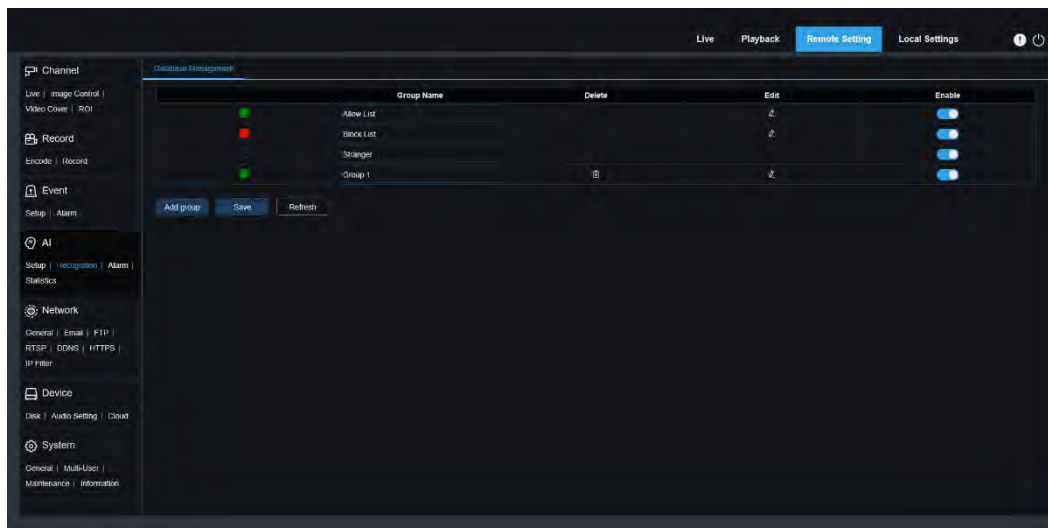
- The mutually exclusive AI function can't be configured in the same time.
- After enabling the AI schedule, the switches of all AI functions of the channel can no longer be on or off manually. They are all controlled by the schedule, but the sensitivity detection type etc. parameters can be changed.

8.7.2、Recognition

8.7.2.1、Face Recognition

The device supports the face picture comparison alarm and face capture based on Face Recognition feature. The system establishes the database basis of face comparison through the database management function.

Note: the modification of the database takes a short period of time for the system to reload before it takes full effect



Alarm Strategy:

Green stands for **Allow list**,

Red stands for **Black list**

Blank stands for **Stranger**

Group Name: Edit the current Group Name. When pushing the alarm, the group name will be prompted.

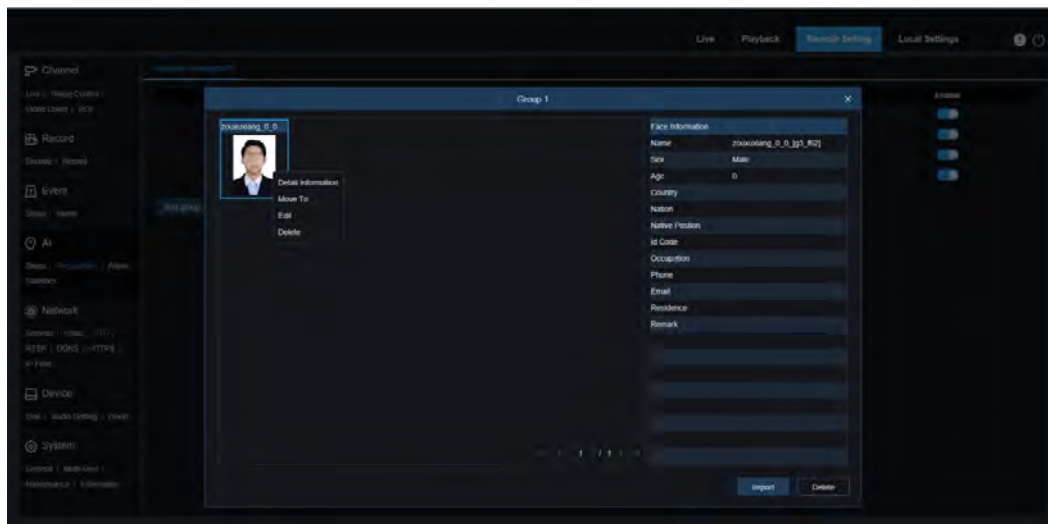
Click **<Add>** to add the Group, support up to 16 database groups

Click **<Delete>** to remove one group. Not allowed to delete **<Allow list>**, **<Black list>** and **<Stranger>**

Turn on **<Enable>** switch to use the group data for comparison

Click **<Edit>** icon to enter into the follow interface.

You will find the Images Display Area in upper left corner.



Select one images from the display area and right-click the mouse, then you can find its info of the image, covering <Detail Information> <Move to...><Edit><Delete>

Right-click and select the <Detail Information>, you can check the detail info of the selected images.

Select the <Move to...> to move the image to other group

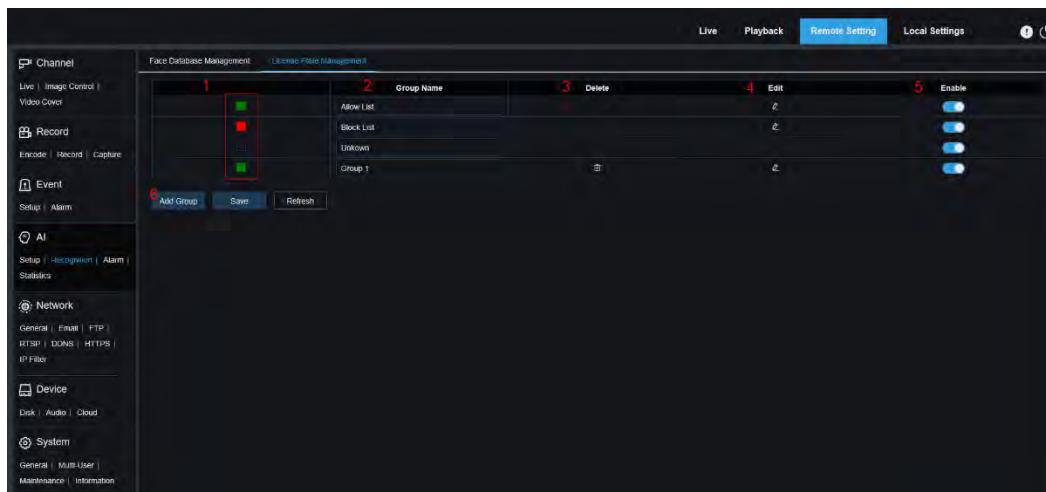
Select the <Edit> to enter into its <Edit> interface, you can start to edit the images info again.

Select the <Delete> to remove the selected image.

8.7.2.2、 License Plate Management

Enter into the <License Plate Management>

Note: It can take full effect after system reload the modification of the database for a short of time



1、 Alarm Strategy:

Green stands for **Allow list**,

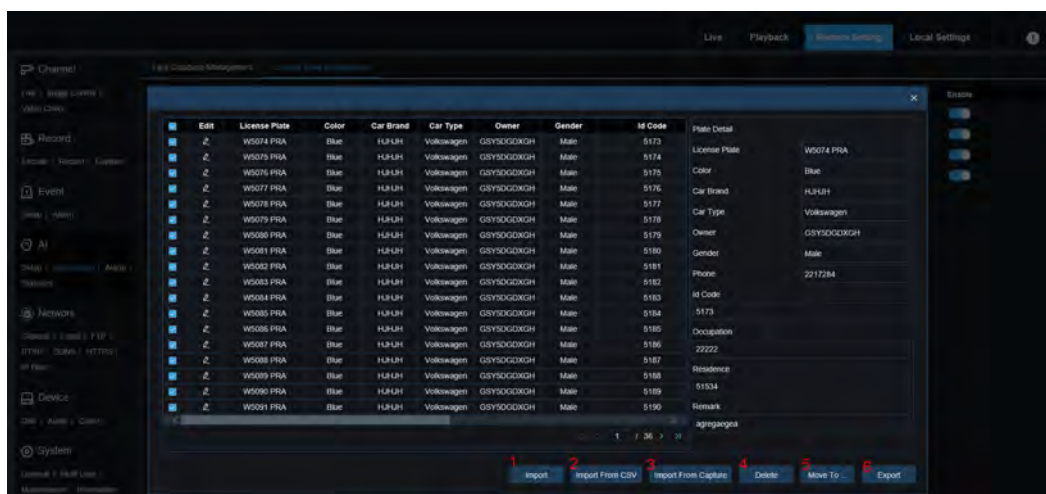
Red stands for **Black list**

Blank stands for **Stranger**

2、 **Group Name:** Edit the current Group Name. When pushing the alarm, the group name will be prompted.

3、 Click **<Delete>** to remove one group. Not allowed to delete <Allow list>, <Black list> and <Stranger>

4、 Click **<Edit>** icon to enter into the follow interface.



There are three modes to add the License Plate info, including <import>, <Import from CVS> and <Import from Local Capture>.

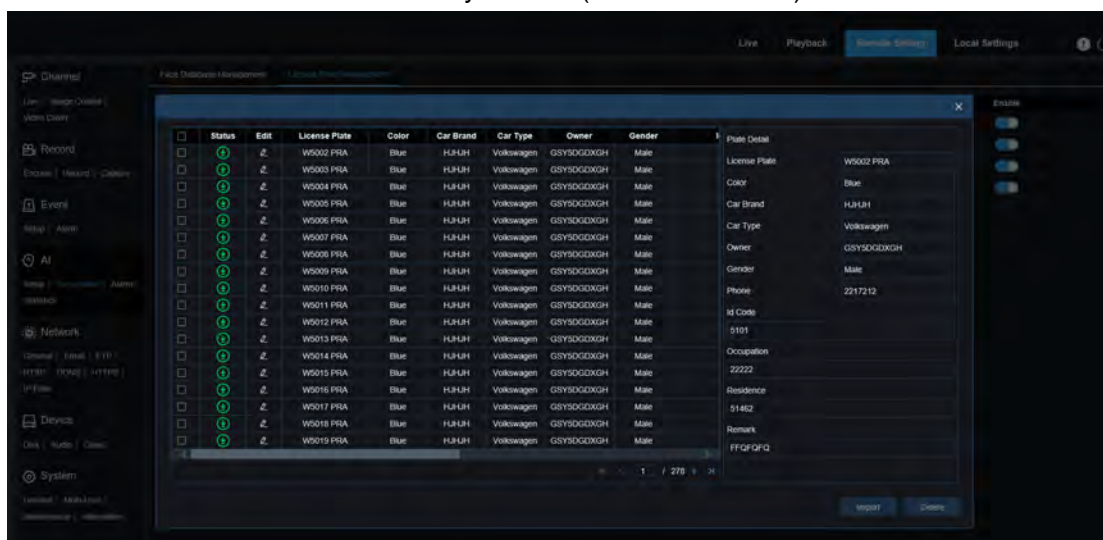
1) Click <Import> button to manually add one single License Plate info.

2) Click <Import from CVS> button to import one single or multiple license plate information from

CVS format (detail CVS format please refer to below).

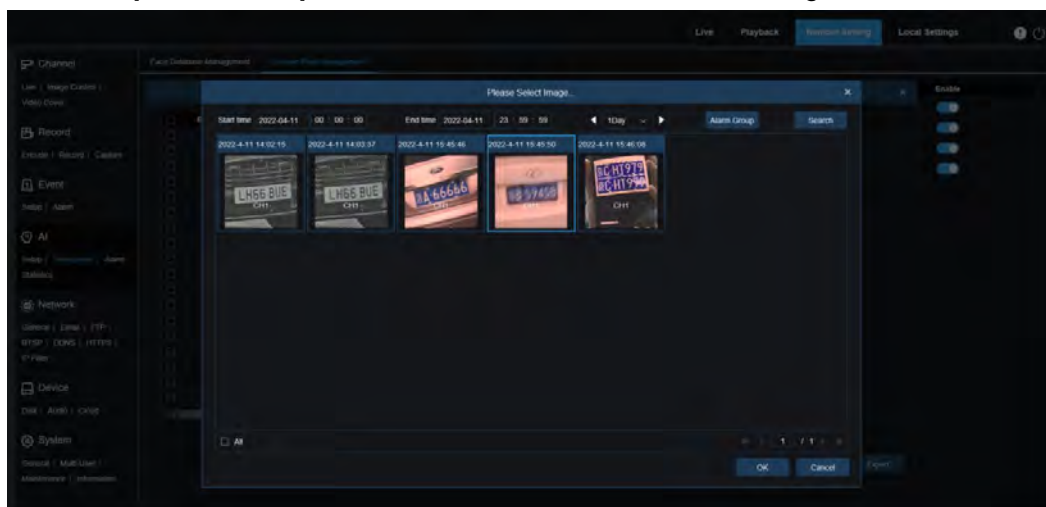
Id	Code	Name	Occupation	Sex	Gender	License Plate	Color	Car Brand	Car Type	Owner
1	W5002	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male	22222	5101	Occupation
2	W5003	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male	51462	FFQFQFQ	Remark
3	W5004	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
4	W5005	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
5	W5006	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
6	W5007	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
7	W5008	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
8	W5009	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
9	W5010	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
10	W5011	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
11	W5012	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
12	W5013	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
13	W5014	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
14	W5015	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
15	W5016	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
16	W5017	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
17	W5018	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			
18	W5019	PRA	Blue	H.L.H.H	Volkswagen	GSYSDDGXH	Male			

Check the license plate info you need to import and click <Import> to add the LP info into the group. Click <Delete> to remove the unnecessary LP info (Shown as below).



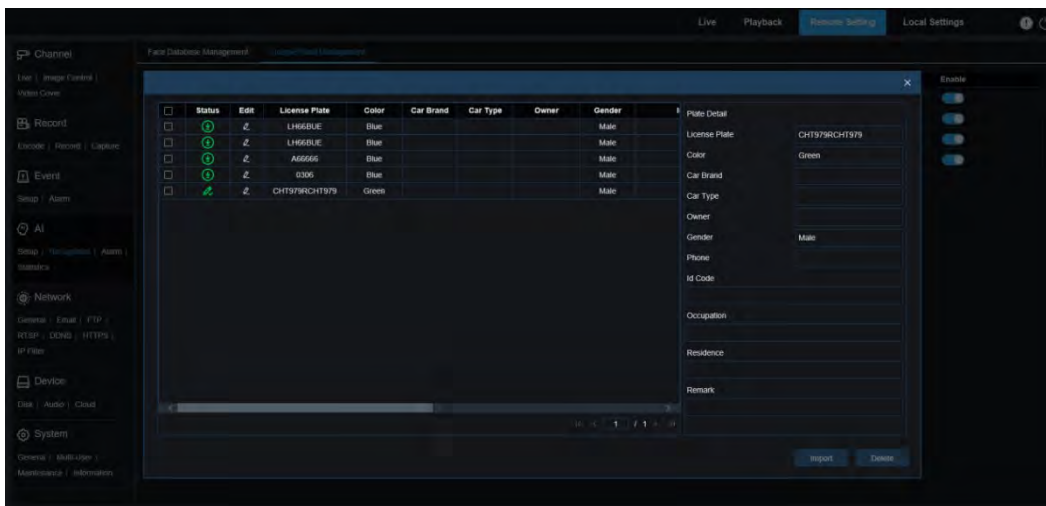
Note: It support to add up to 5000 LP information. Once it exceeds the value, system will pop up one prompt box with the content “the added data reach the upper limit of the group.”

3) Click the <Import From Capture> to enter into the <Please Select Image...> interface shown as below.



Select the <Start time>, <End time> and <Alarm Group> option, then click <Search>. You can find all the PL information you saved during this period.

Check <All> to select all the License Plate info.



Click one data to edit the License Plate information

Click <Save>

When the icon change to , that means your modification succeed.

- 4) Select the <Delete> to remove the selected License Plate info.
- 5) Check the LP info and Select the <Move to...> button to move the LP to other group
- 6) Click <Export> button to export info of the whole group and Save
- 5. Turn on <Enable> switch to use the group data for comparison
- 6. Click <Add> to add a new Group, support up to 16 database groups

8.7.3. Alarm

The alarm response of the AI function can be divided into three categories according to the implementation mode:

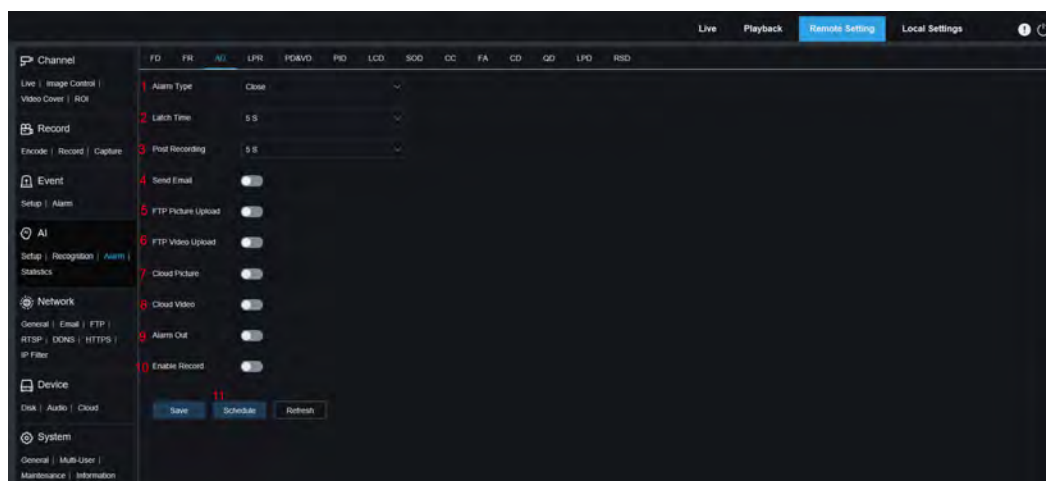
The camera detects an alarm event and directly generate an alarm response, it includes FD, AD, PD&VD, PID, LCD, SOD, CC, CD, QD, LPD, RSD

The camera captures the alarm picture, identifies the face eigenvalue or license plate information, compares it with the data in the database, and then responds to the alarm according to the corresponding alarm grouping settings.it includes FR and LPR

The camera automatically search data at a specific time and generate alarm and push mail. FA belongs to this group.

8.7.3.1、FD、AD、PD&VD、PID、LCD、SOD、CC、CD、QD、LPD、RSD

The camera detects an alarm event and directly generate an alarm response



1、 **Alarm Type:** AD alarm is a specific options. There are three modes to alarm according to whether the captured target wears a mask.

Close: Disable AD alarm

NO Mask: An alarm is triggered when it is found that the target is not wearing a mask.

Wear Mask: An alarm is triggered when the target is found wearing a mask

2、 **Latch Time:** Refer to the time that I/O alarm will last after the alarm ends

Remarks: The camera needs to support I/O output function, and the working time is controlled by the corresponding schedule

3、 **Post Recording:** Refer Duration that record will last after the alarm ends.

Its effective time is controlled by Schedule.

4、 **Send Email:** Enable the function, the camera will send email when alarm is triggered.

Its effective time is controlled by Schedule.

5、 **FTP Picture Upload/FTP:** When an alarm is triggered, the camera sends the picture to the associated FTP server. When it is triggered continuously, it sends it to the server each 10s regularly until the alarm is no longer triggered

6、 **FTP Video Upload/FTP:** When an alarm is triggered, the camera sends the picture to the associated FTP server. When it is triggered continuously, it sends it to the server each 10s regularly until the alarm is no longer triggered

7、 **Cloud Picture:** When an alarm is triggered, the camera sends the alarm picture to the associated Cloud server. When it is triggered continuously, it sends it to the server each 10s regularly until the alarm is no longer triggered

8、 **Cloud Video:** When an alarm is triggered, the camera sends the alarm video to the associated Cloud server. When it is triggered continuously, it sends it to the server each 10s regularly until the alarm is no longer triggered

The FTP/Cloud upload functions need to associate one FTP/Cloud server and their effective time is controlled by Schedule.

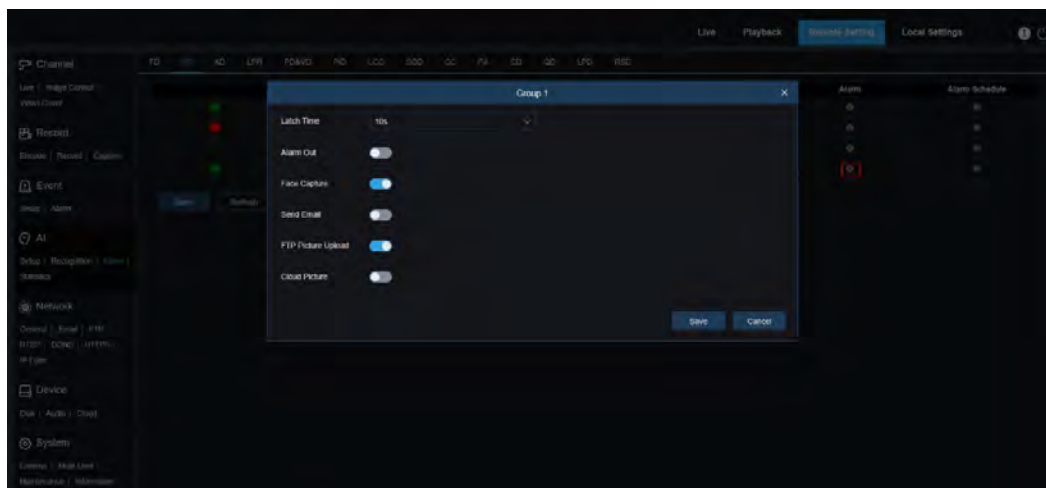
9、 Enable **Alarm out**

10、 Enable **Record**

11、 **Schedule:** Configure the Schedule of current alarms - Send Email、 Alarm Out、 FTP Picture Upload、 FTP Video Upload、 Cloud Picture、 Cloud Video、 Record、 Light (Deterrent) 、 Siren (Deterrent) (Some models support the function

12、 **Deterrent:** When an alarm is triggered, deterrent light will generate the linkage actions, white light response and siren alarm response (Some models support the function)

8.7.3.2、FR



Group Name: Edit the current Group Name. When pushing the alarm, the group name will be prompted.

Enable/Disable Face Recognition

Alarm Policy: you can customize the <Alarm Policy>

Note: the previous three groups can't be modified.

Similarity: set the **similarity** value, the alarm will be triggered when the Similarity is larger than the value.

Alarm: Enable the alarm of the group.

Alarm Schedule: Set the effective time of <Send Email>, <Alarm Out>, <FTP Picture Upload> and <Cloud Picture>

Latch Time: Set the latch time of I/O alarm when getting the capture image and matching successfully.

Note: The camera needs to support IO output function, and the working time is controlled by the corresponding schedule

Enable <Alarm Out>

Save Picture: Save the snapshots as SD card

Note: This setting is not controlled by <enable> option

Save the background: Save the face snapshot to SD card and save the background snapshot at the same time

Note: This setting is not controlled by <enable> option

Switch on <**Send Email**>, system will auto-send email when matching successfully

Note: Its effective time will be controlled by the corresponding schedule.

Switch on <**FTP Picture Upload**>, system will upload pictures to FTP server when matching successfully.

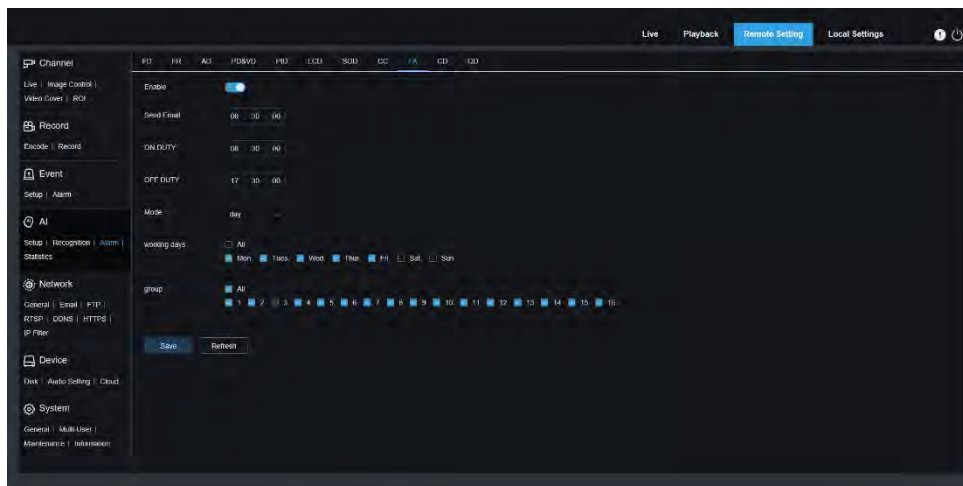
Note: The effective time is controlled by the corresponding schedule, at the same time, you have associated the FTP server.

Switch on <**Cloud Picture**>, system will upload picture to Cloud Server when matching successfully.

Note: The effective time is controlled by the corresponding schedule, at the same time, you have associated the Cloud server.

8.7.3.3、FA (Face Attendance)

FA (face attendance) function is to search for the matching face of different groups (excluding stranger groups) saved in SD card at the specified time, generate attendance files according to the captured records and send them to the associated mailbox.



Enable the switch to auto generate FA file

Send Email: Set the time of sending email

Set **<On duty>** time

Set **<Off duty>** time

Mode: Set the time of sending out attendance info, there are three modes – by day, by week and by Month

Day: Send the attendance record file of the previous day

Week: Send the attendance file by week. For example, if it is set to “Tuesday”, the attendance info from last Tuesday to this Monday will be sent on Wednesday.

Month: Send the attendance file by Month. For example, if it is set to the “15th”, the attendance info from last 15th to this 14th will be sent on every 15th.

Working day:

Set the **<Working day>**

Set the **<Group>** which require to send out FA file

Note: the function not support the **<Stranger>** group

8.7.4、Statistics

In this section we will introduce the statistical analysis function of AI data

8.7.4.1、Face Detection

According to the search settings, system will statistically analyze the face data save in the SD card. Details, please refer to below interface.



Time: The reference time of the search mode.

Search Mode: Support 5 modes – Day, Week, Month, Quarter and Year

Set the **<Group>** which need to be searched.

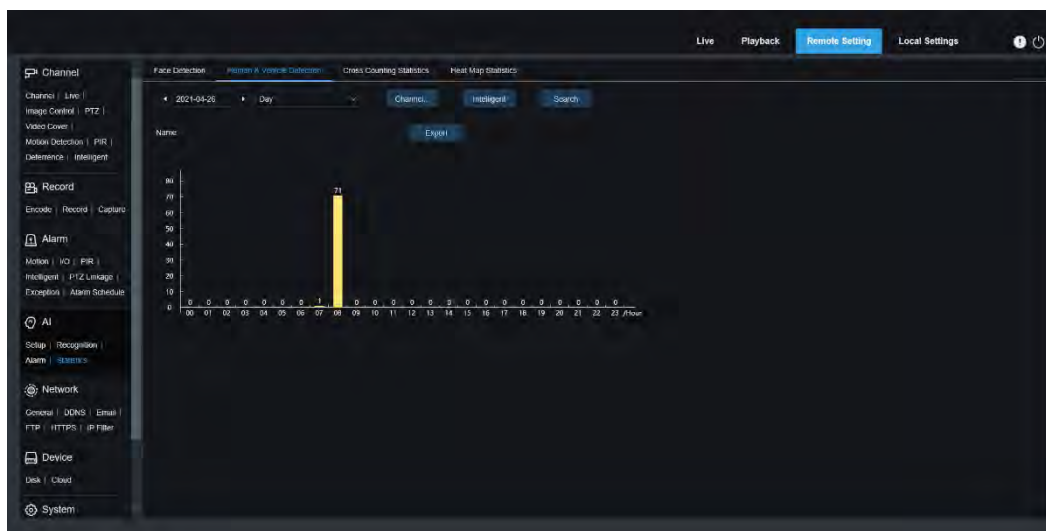
Click **Search**

Enter one export file name and click the **<Export>** button

Display Area: Display the current search result in the form of Chart on the Display area.

8.7.4.2、 Human & Vehicle Detection

This Menu will search and display Human & Vehicle data statistics.



Time: The reference time of the Search Mode.

Search Mode: Support 5 modes – Day, Week, Month, Quarter and Year

Intelligent: Search according to the tag type when get the snapshot,

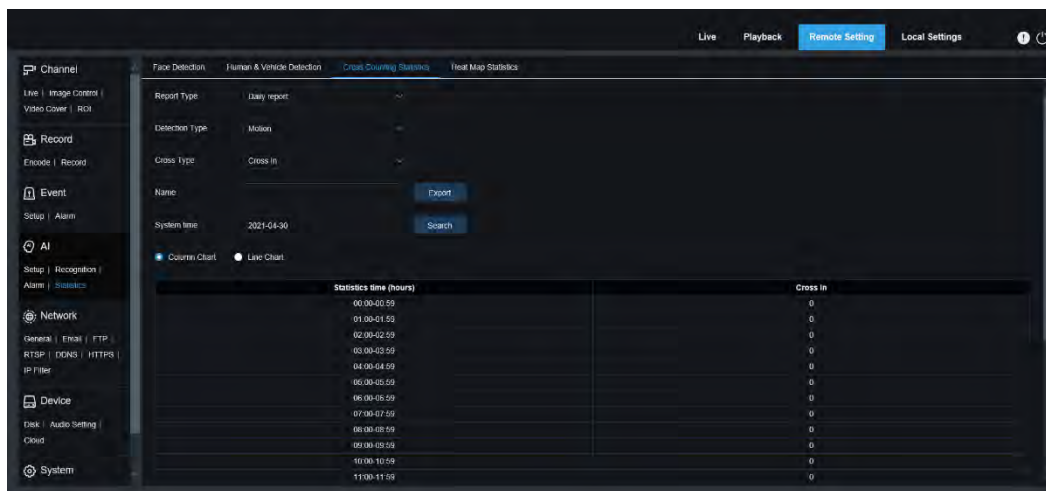
Click intelligent option to select the PID [Human], PID [Vehicle], LCD [Human], LCD [Vehicle], Human and Vehicle

Click **Search**

Export: Enter one export file name and export the current search data.

Display Area: Display the current search result in the form of Chart on the Display area.

8.7.4.3、 Cross Counting Statistics



Report Type: allow you set four report types, covering Daily report、 Weekly report、 Monthly report、 Annual report.

Detection Type: Set the corresponding alarm model required by the data. For example, data triggered by Motion cannot be searched by other types.

Cross Type: There is Cross In and Cross Out to select.

Export: Enter the export file name and click Export to export current searching data.

System time: Reference time of the currently selected report type

Mode: Allow you select two modes – Column Chart or Line Chart.

Display Area: Display the current search results in the form of a chart

Search: Search for data based on current settings.

8.7.4.4、Heat Map Statistics

Through the heat map report, system can visually demonstrate the personnel distribution from the two dimensions time or space.

Space Heat Map: Display personnel activity in different areas of the screen. Red is the area with the highest density, that is, the area with the highest activity, and blue is the area with the lowest density.

Time Heat Map: Display personnel activity at different times in the screen. The ordinate value, which does not represent the number of people, is the index calculated according to the number of people and residence time. The larger the value, the higher the activity.

The AI camera must insert a SD card, and the heat map will be restored to SD card



Report Type: allow you set four report types, covering Daily report、 Weekly report、 Monthly report、 Annual report.

Date: The date/time data search is referring to

Start Hour: Only will be set in the Daily Report type.

End Hour: Only will be set in the Daily Report type.

Mode: Set Data Display Mode, there are Graph and Table to select.

Display Area: The change frequency of in different area is shown in the form of graph, and the change frequency of in different time periods is shown in the form of table.

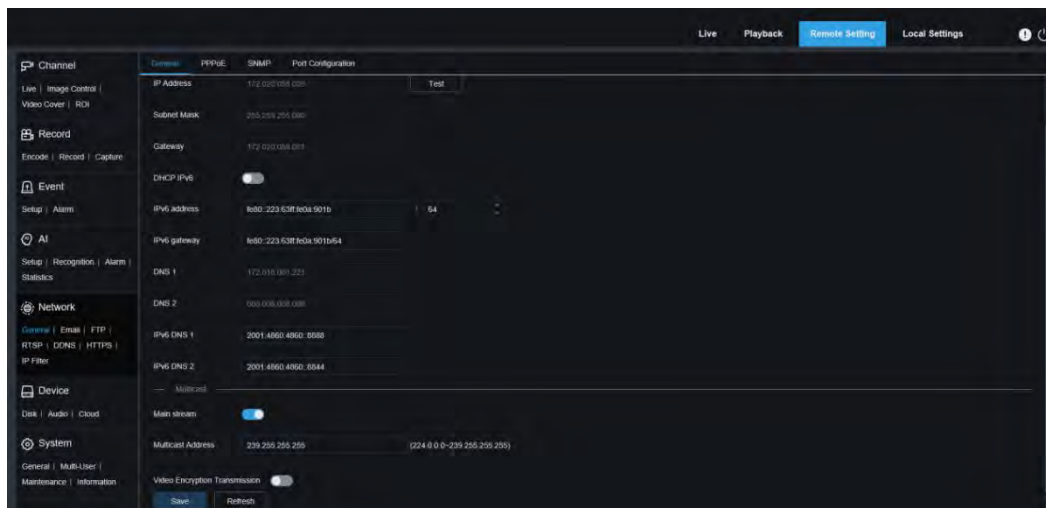
Click **Search**

8.8、Network

This menu allows you to configure network parameters such as PPPoE, DHCP and SNMP. The most common type is DHCP. In most cases, the network type is DHCP unless you manually set a static IP. If you need to authenticate the user name and password to connect to the network, please select PPPoE.

8.8.1、General

8.8.1.1、General



It automatically gets the IPv4 parameters from the network if the device is connected the router using DHCP and check **DHCP** option

You can manually configure below network parameters

IP Address: IP address is the identification of IPC in the network. It consists of four groups of numbers between 0 and 255, separated by periods. For example, "192.168.001.100".

Subnet Mask: It is a network parameter that defines the range of IP addresses that can be used in the network. If the IP address is like the street where you live, then the subnet mask is like a community. The subnet address also consists of four sets of numbers, separated by periods. For example "255.255.000.000"

Gateway: This address allows IPC to access the network. The format of the gateway address is the same as the IP address. For example, "192.168.001.001".

IPv6 Address: IP address is the identification of IPC in the network. It consists of eight groups of numbers between 0 and FFFF, separated by periods. For example, "ABCD:EF01:2345:6789:ABCD:EF01:2345:6789".

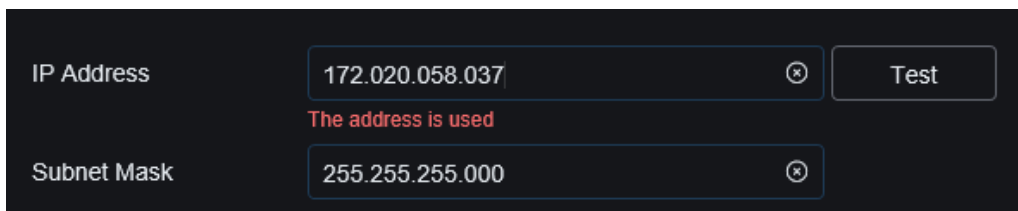
DNS1/DNS2: DNS1 is the primary DNS server, and DNS2 is the backup DNS server. It is usually sufficient to enter the DNS1 server address.

Main Stream: Check this option to use for multicast

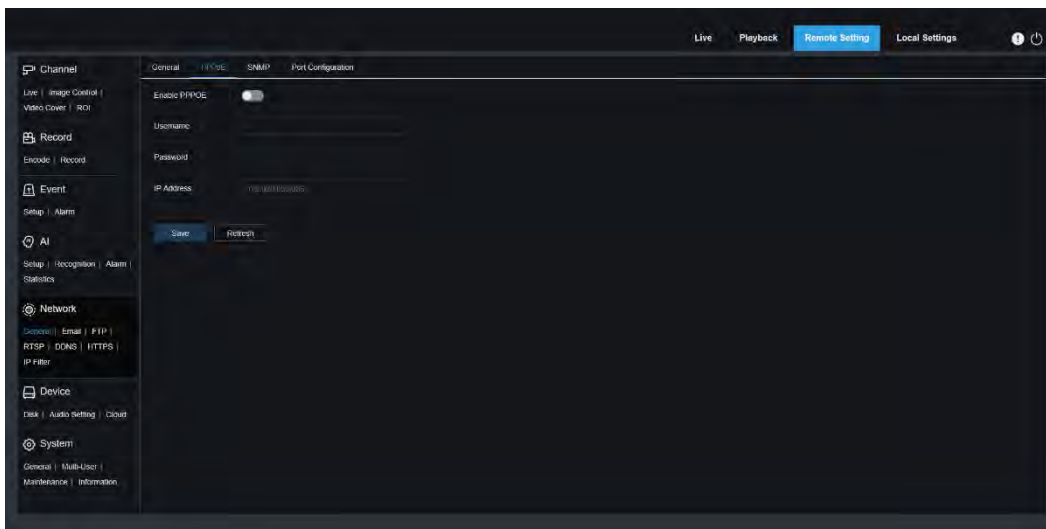
Multicast Address: Set the multicast address. The 3rd party video player can request the camera to send multicast media stream through RTSP protocol

Video Encryption Transmission: Enable <Video Encryption Transmission> option

If IPC supports the prompt of IP duplication in the same network segment and the IP is reused, click Test to popup a window shown as below



8.8.1.2、PPPoE



PPPoE, Point-to-Point Protocol over Ethernet, is a network protocol for encapsulating point-to-point Protocol (PPP) frame inside Ethernet frames. It is mainly used with ADSL service where individual user connect to the ADSL transceiver (modem) over Ethernet and in plain Metro Ethernet network.

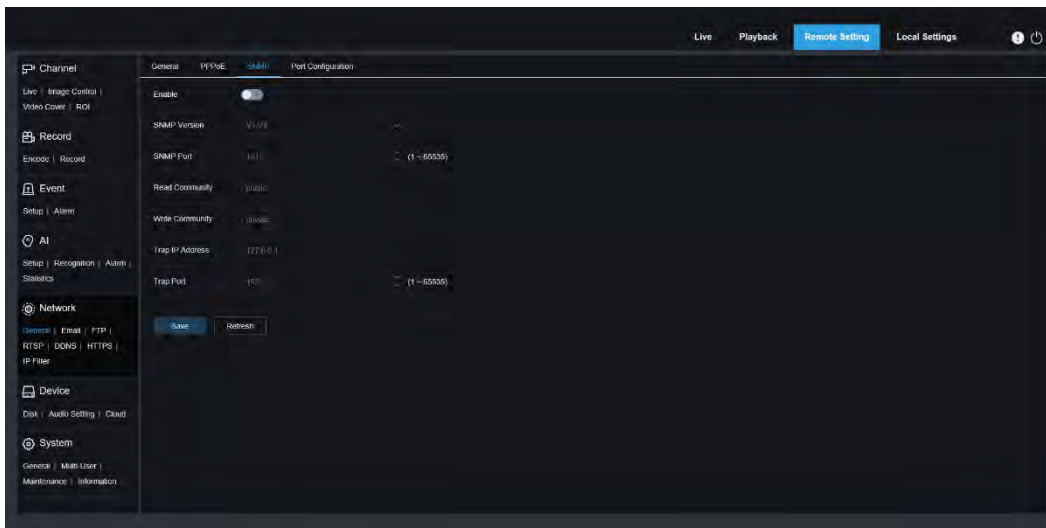
Enable **<PPPoE>** option

Input PPPoE **User Name** and **Password**

Click **Save**, then system reboot to activate the PPPoE function

8.8.1.3、SNMP

SNMP, Simple network management protocol, is a standard protocol specially designed to manage network nodes (servers, workstations, routers, switches and hubs) in IP network. It is an application layer protocol.



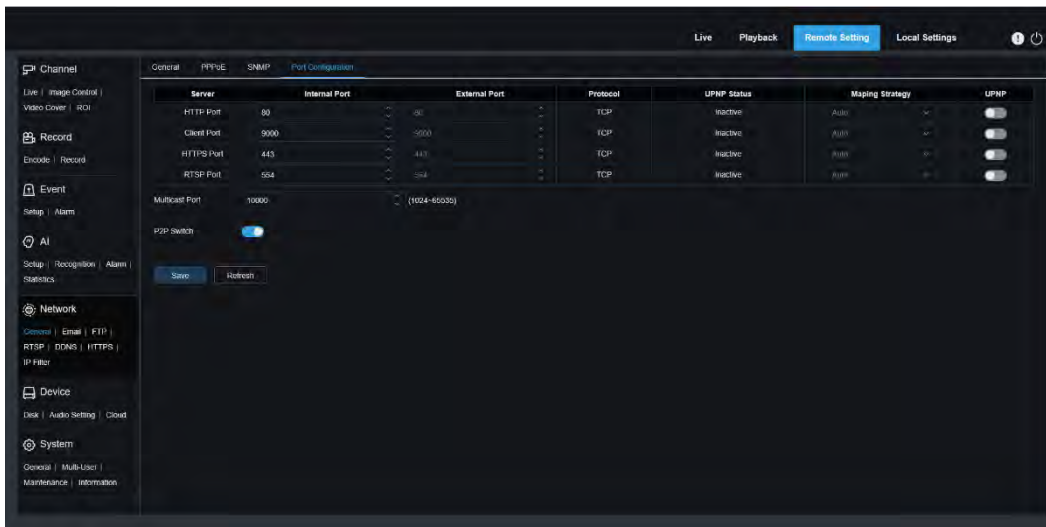
Enable **SNMP** option

Set the **SNMP version**, allows you choose **<V1>**,**<V2>**, **<V1、 V2>** and **<V3>**

Set **SNMP port**, **Read Community**, **Write Community**, **Trap IP address** and **Trap Port** etc.

Click **Save**

8.8.1.4、Port Configuration



Web Port: This is the port you use to log in to the IPC remotely (for example, using a web client). If other application is using port 80, please change it.

Client Port: This is the port that IPC will use to send information (for example, using a mobile application). If other application used the default port 9000, please change it.

RTSP Port: The default value is 554. If other applications occupied the default port 554, please change it.

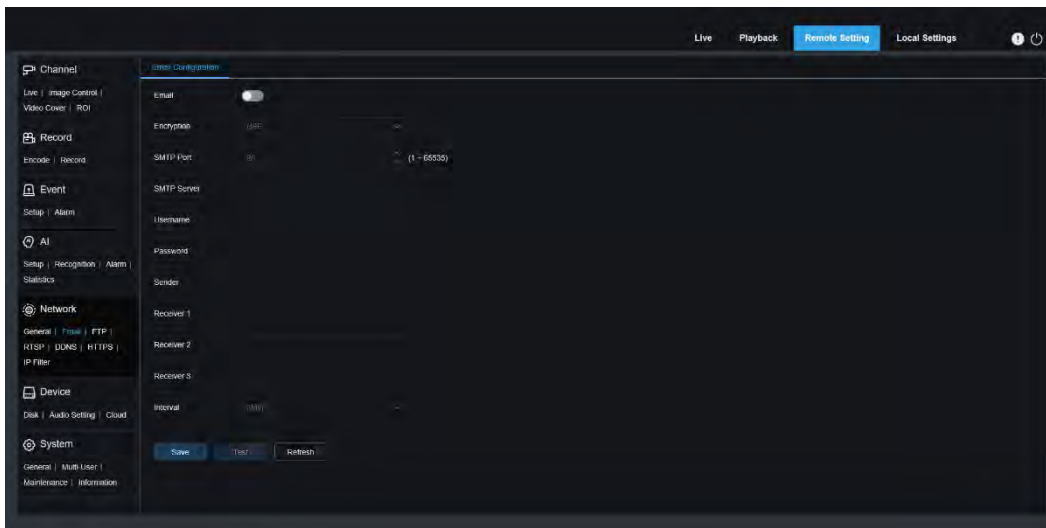
HTTPS: It is an HTTP channel for security. On the basis of HTTP, the security of the transmission process is guaranteed through transmission encryption and identity authentication.

UPnP: If you want to use Web Client to log in to the device remotely, you need to complete port forwarding on the router. If your router supports UPnP, please enable this option. In this case, you do not need to manually configure port forwarding on the router. If your router does not support UPnP, please manually complete port forwarding on the router.

Allow you set **Multicast port, its range is 1024-65535**

8.8.2、Email Configuration

This menu allows you configure email settings. If you want to receive notifications via email when an alarm is triggered or the hard drive is full, please complete these settings.



Enable **Email** option

If your email server need SSL or TSL verification, please enable **Encryption** option, if you are not confirmed, please set to **Auto**

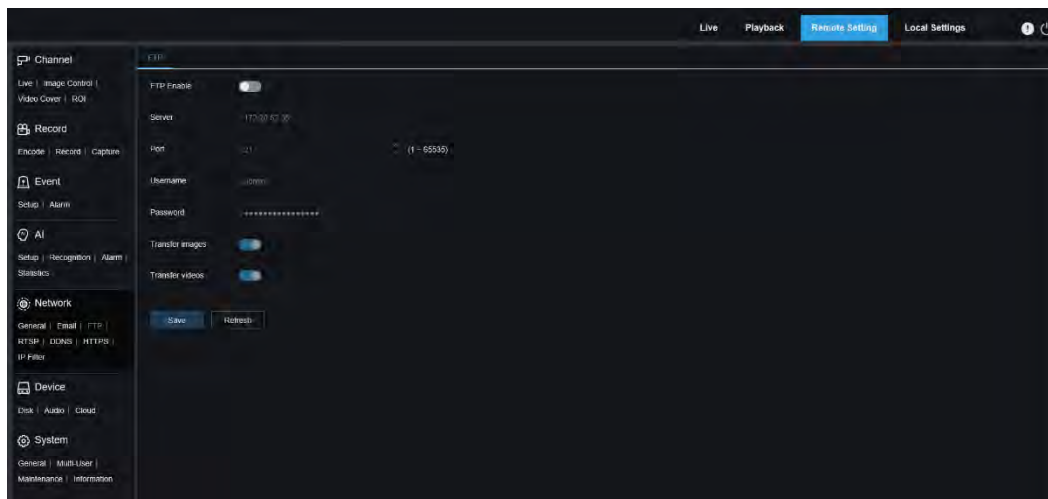
Enter **SMTP Port, SMTP Server, your email address and Password etc.** to configure the option

Configure the time **interval** between IPC notification emails

Click **Test**, and confirm you received the test email.

8.8.3、FTP

Through this menu, you can enable the FTP server to view pictures and videos uploaded from IPC to FTP



Enable **FTP** option

Enter IP address or domain name of **Server** and **Port**

Enter **User Name** and **Password**

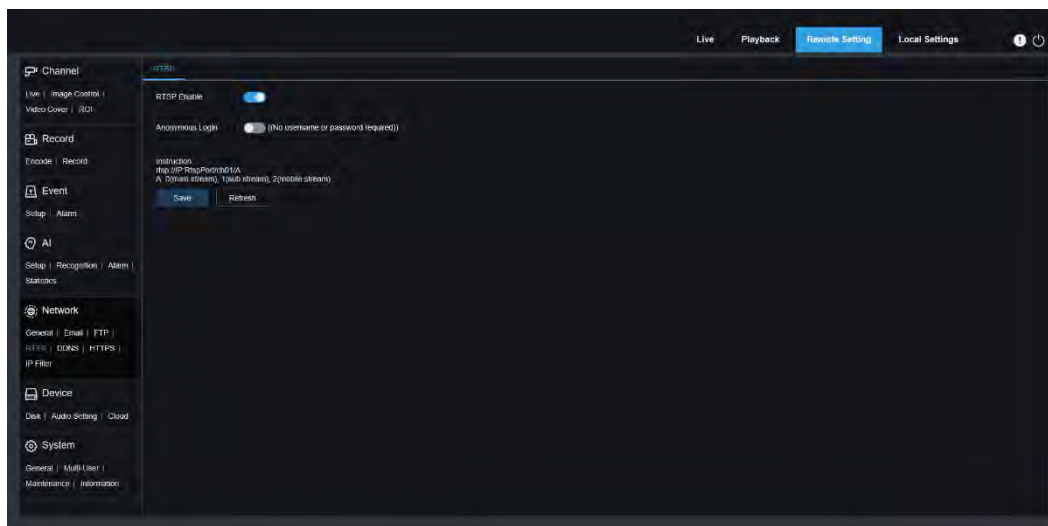
Enable **Transfer Images** and **Transfer Videos** option to transfer images or videos to FTP server.

8.8.4、RTSP

RTSP refer to a real-time streaming protocol, is an application layer protocol in TCP / IP protocol system. The protocol defines how one to many applications can effectively transmit multimedia data over IP networks. Allows you to view real-time images through the video player.

Enable **RTSP** option

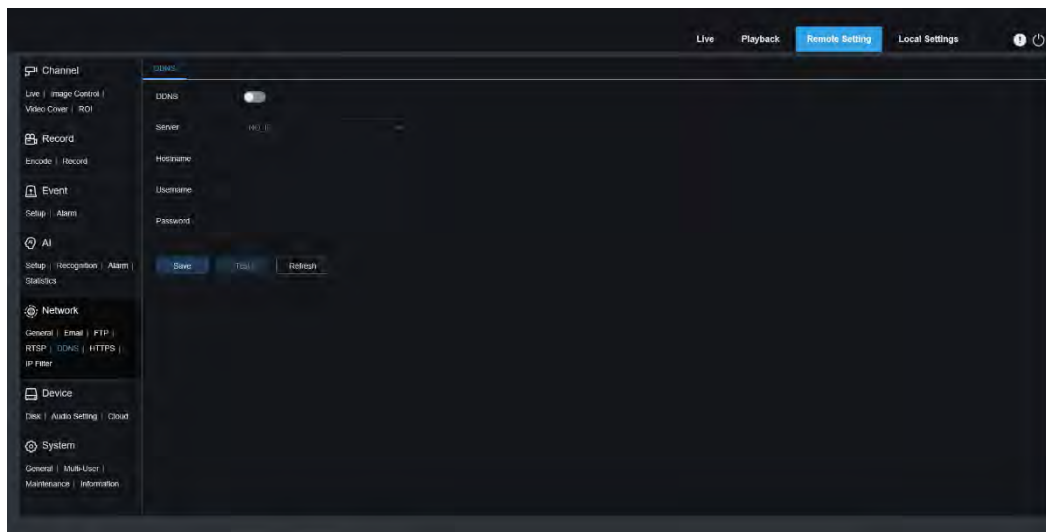
Enable **Anonymous Login** option, you can use the protocol without authorization.



8.8.5、DDNS

This menu allows you configure DDNS setting. DDNS provide a static IP address to simplify IPC remote access.

To use DDNS service, please apply an account on the webpage of DDNS service provider.



Enable **DDNS** option

Select one preferred DDNS server (DDNS_3322, DDNDNS, NO_IP, some support CHANGEIP DNSEXIT)

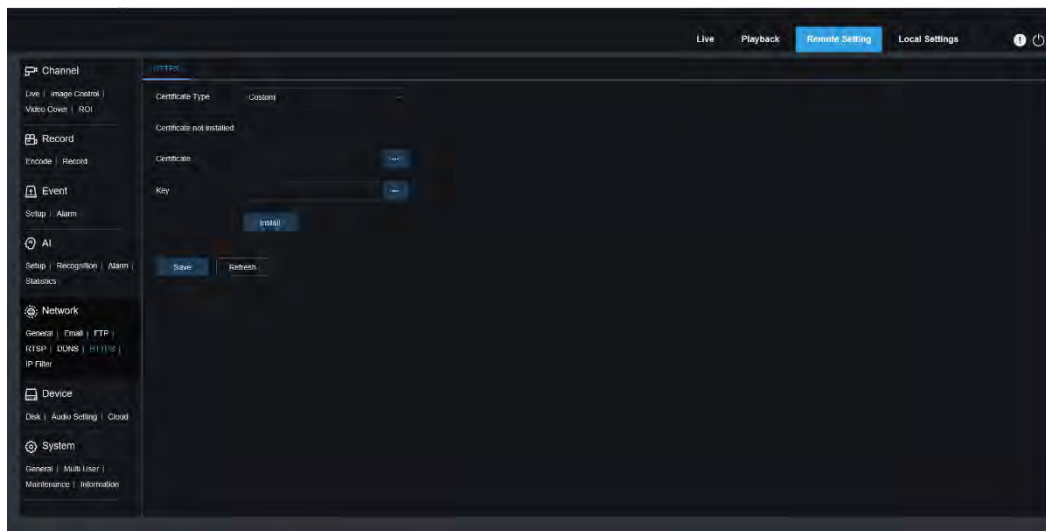
Enter **Hostname** which you created on the webpage of DDNS service provider

Enter **User Name** and **Password** which you created on the webpage of DDNS service provider

Click **Test**, and confirm you received the test email.

8.8.6、HTTPS

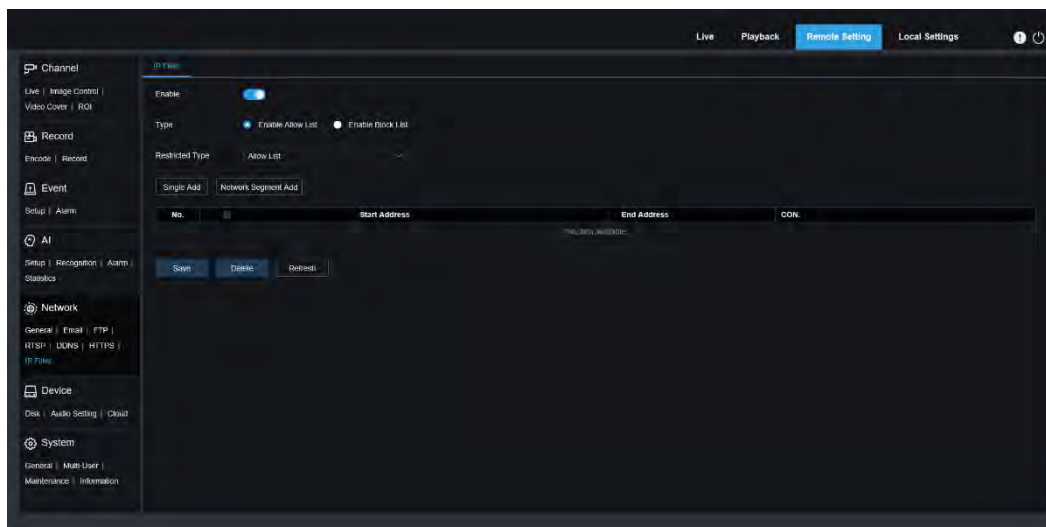
The menu allows you configure HTTPS protocol. Cameras can be connected via HTTPS protocol.



Certificate Type: There are two kinds of Certificate type, including **Default** and **Custom**. **Custom** option allows you use own certificate to connect the device. Under the **<Custom>** mode, please select own **Certificate** and **Key** file.

8.8.7、IP Filter

This function can set the allow list and block list of camera.



Enable: Enable or disable filter function. After enabling, allow list and block list are optional.

Restricted Type: Select the list (allow list and block list) to be set.

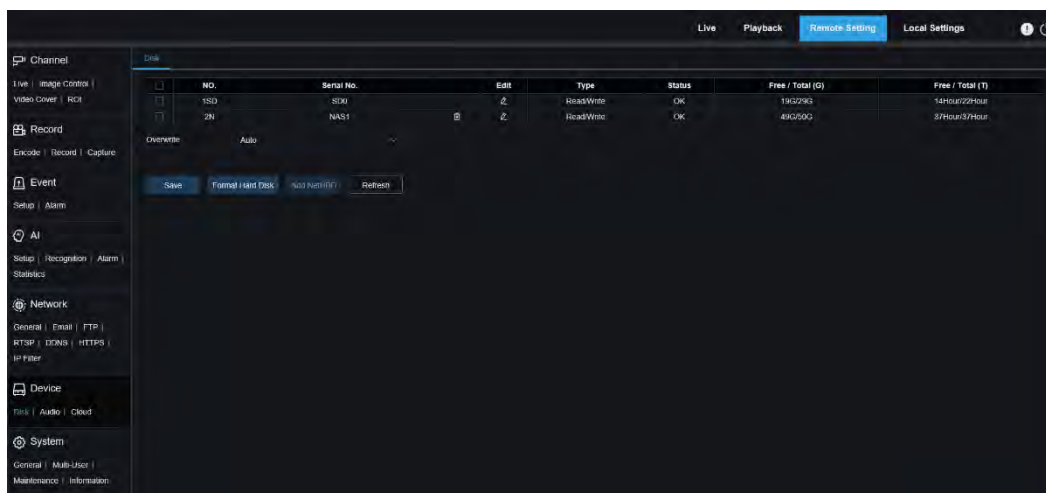
Start Address: Enter the start address.

End Address: Enter the end address.

8.9、Device

8.9.1、Disk Management

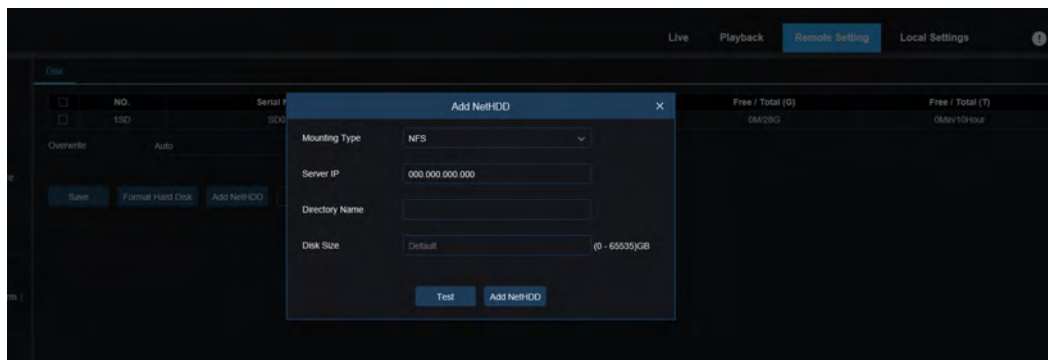
This menu allows you to check and configure the internal TF card. Formatting is only required for the first access or when replacing a new TF card.



- 1、 Go to Remote setting→Device→Disk interface, Check the TF card you desire to format;
- 2、 Click **Format Hard Disk**
- 3、 Enter into popup window and Input username and password
- 4、 Click OK

Overwrite: When TF card is full, use this option to overwrite the old records on the TF card. Select Auto, when the TF card is full, the initial data will be automatically overwritten. If you do not want any old videos to be overwritten, please select OFF. If this function is disabled, please check the TF card status regularly to ensure that the TF card is not full.

Add NetHDD this menu allows you add NetHDD to record videos or capture images. Please note AI database can only save as HDDs



1、 Select **Mounting Type**,

There are NFS & SMB/CIFS type. NFS does not need to enter the NAS account and password, while SMB / CIFS needs to enter the NAS account and password.

2、 Enter **User Name**, **Password**, **Server IP** and **Directory Name**

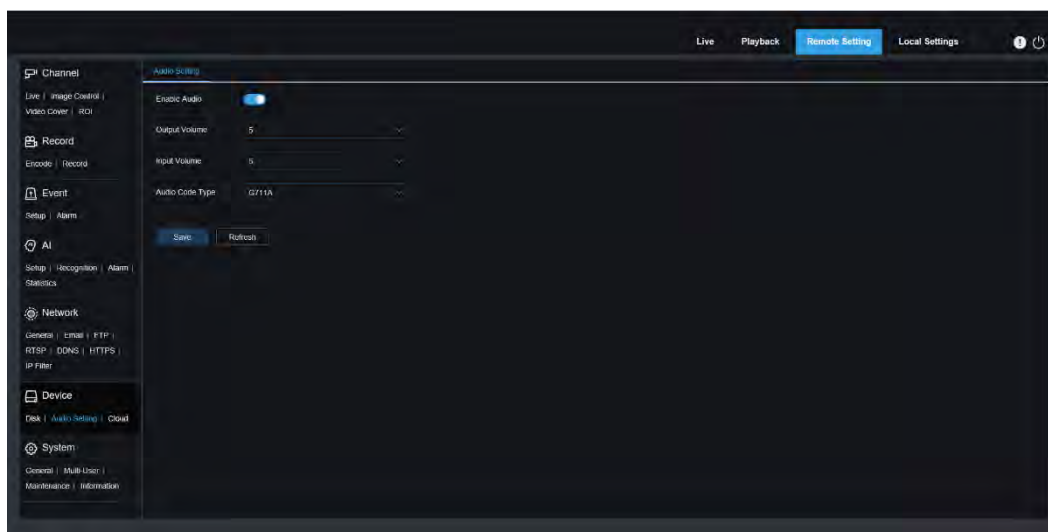
3、 Set Disk Size

4、 Click **Test** to verify if NAS is connected

5、 Click **Add NetHDD**

8.9.2、 Audio Setting

This menu allows you configure the device's volume.



Enable Audio: Enable/disable the audio

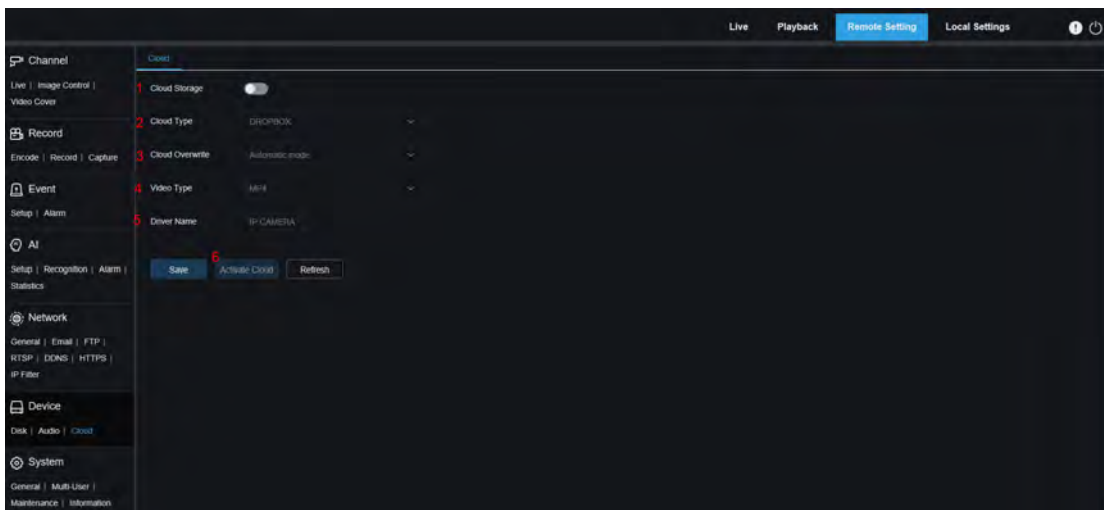
Set the **output Volume**

Set the **input Volume**

Select **Audio Code Type**, G711A and G711U are supported.

8.9.3、Cloud

The camera can upload snapshots or videos to cloud services through Dropbox, which is a free service that allows you to easily store and share pictures.



Before enabling cloud storage services, we recommend that you create a Dropbox account by using mail as user name. After creation, log in to www.dropbox.com, enter the email address and password, and click the login button after agreeing to the terms. Now you can start cloud storage configuration

- 1、 Enable **Check storage**
- 2、 Select **Cloud Type**, there are two types for you, including Dropbox and Google Drive
- 3、 Configure **Cloud Overwrite** option, you can select around week, Month...
- 4、 Configure **Video Type**
- 5、 Set **driver name** which is used to store videos and pictures
- 6、 Click **Activate Cloud**

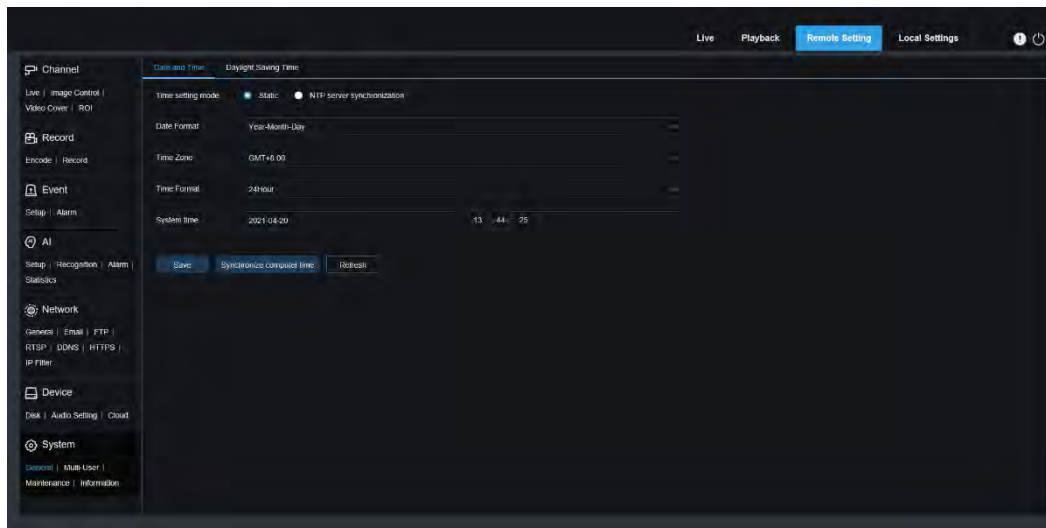
Then, the web page will automatically jump to the associated link of Dropbox. Enter the correct user name and password to link

8.10、 System

It used to change system information, such as date, time and region, password and permissions, etc.

8.10.1、 General

8.10.1.1、 Date and time



Time setting mode: Time mode, there are static and NTP synchronization optional. Static time

needs to be set by yourself, while NTP synchronization will perform time calibration via network.

Date Format: Set the date format.

Time Zone: Select the time zone related to your area or city.

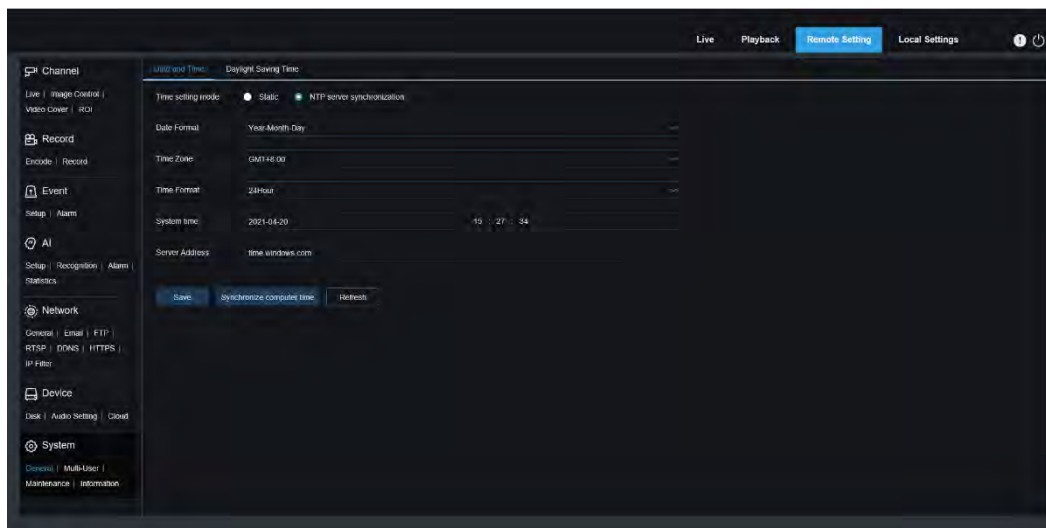
Time Format: Select the preferred time format.

System Time: Click the box to change the date and time.

Synchronize computer time: Synchronize the time to the computer time.

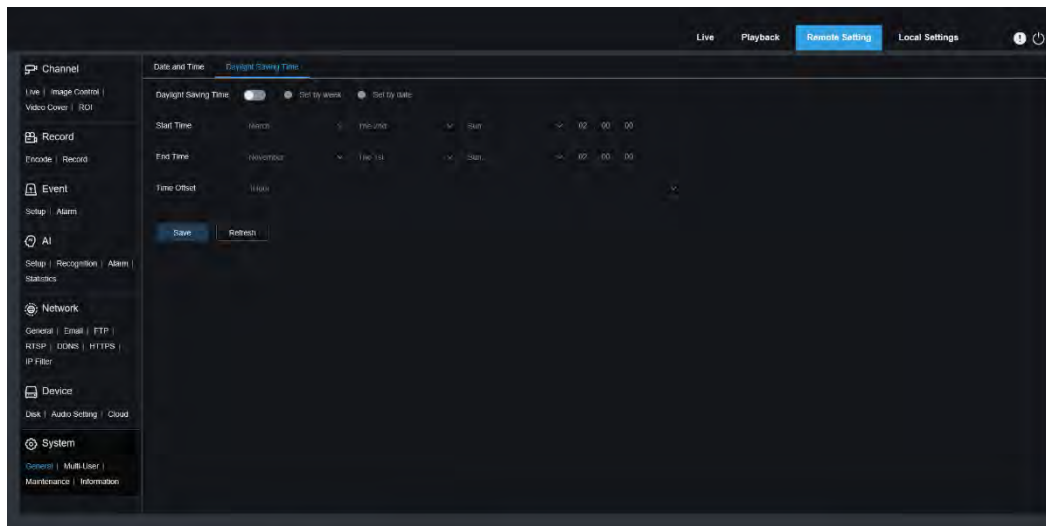
If NTP synchronization is selected, the time cannot be set manually at this time.

Sever Address: The automatic time calibration website can be chosen.



8.10.1.2、 Daylight Saving Time (DST)

This function allows you to choose to increase DST in a specific time zone or region.



Daylight Saving Time: If your time zone uses DST, please enable this option.

Set by week: Select the month, specific week and time for DST to start and end. For example, at 2 AM on the first Sunday of a month.

Set by date: Select the start and end date and time of DST.

Start Time / End Time: Set the start time and end time of DST.

Time Offset: Select the time that DST increases in your time zone. This is the difference between Coordinated Universal Time (UTC) and local time.

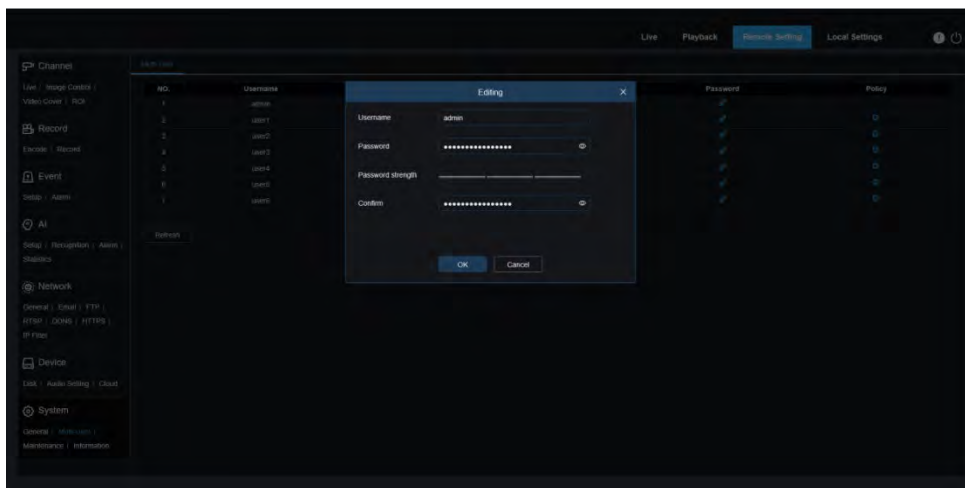
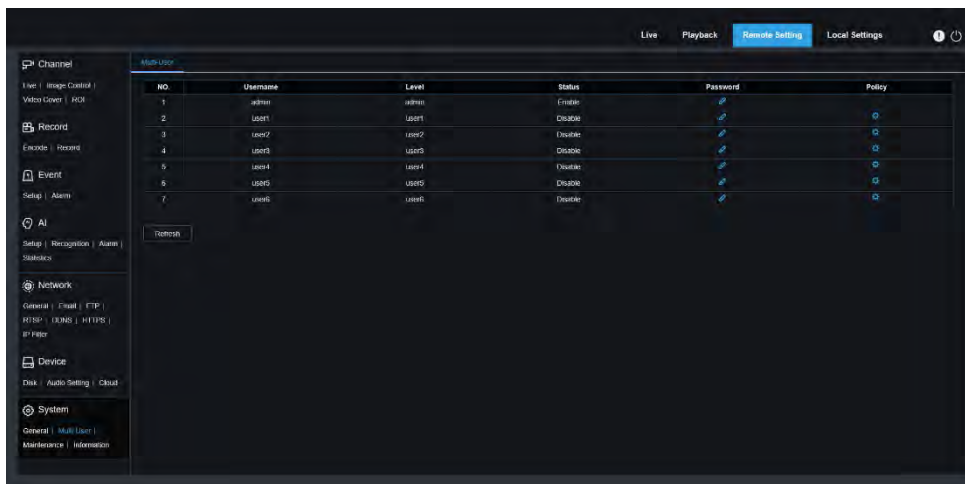
8.10.2、Multi-user management

This menu allows you to configure user name, password and user permissions

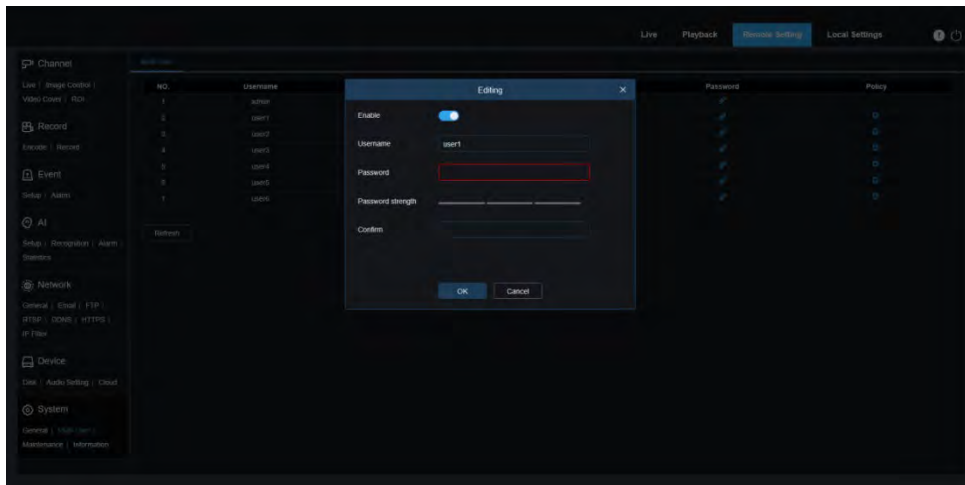
The system supports the following user types:

ADMIN — System Administrator: The administrator can fully configure the system, and can change the administrator password and user password, and enable/disable password protection.

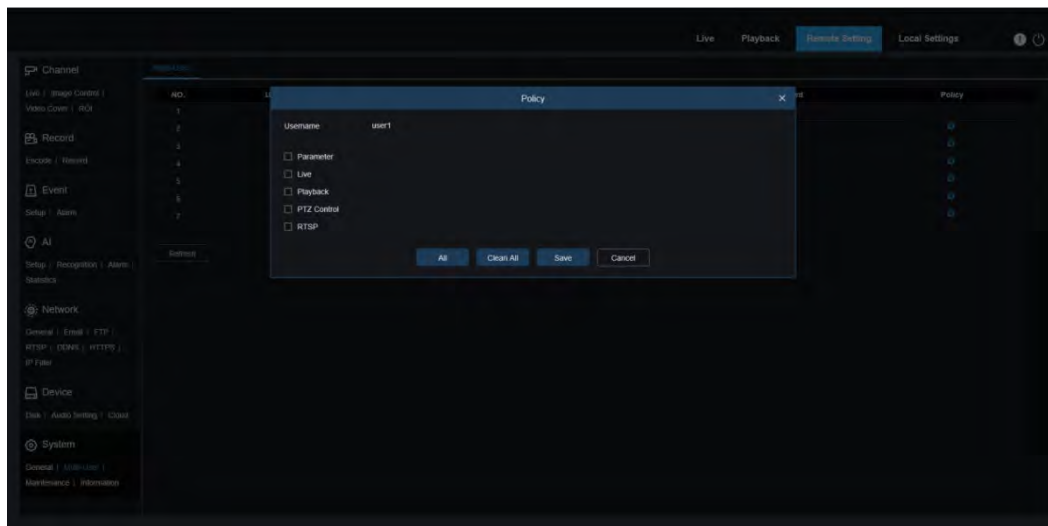
USER — Ordinary user: The user only has access to preview, search, playback and other functions. You can set up multiple users with different system access permission.



To change the administrator's or user's password, click the "Editing" icon. The password must be at least 8 characters and must be composed of numbers, letters and symbols. Enter the new password again to confirm. Save the new password, the system will ask you to enter the old password for authentication.



- Select one of the disabled users and click "Editing" icon.
- Check <Enable>
- Edit <User Name>
- Input <password> you desired
- Input the <Password> again
- Click <Save>
- Input admin's password for verification purpose.



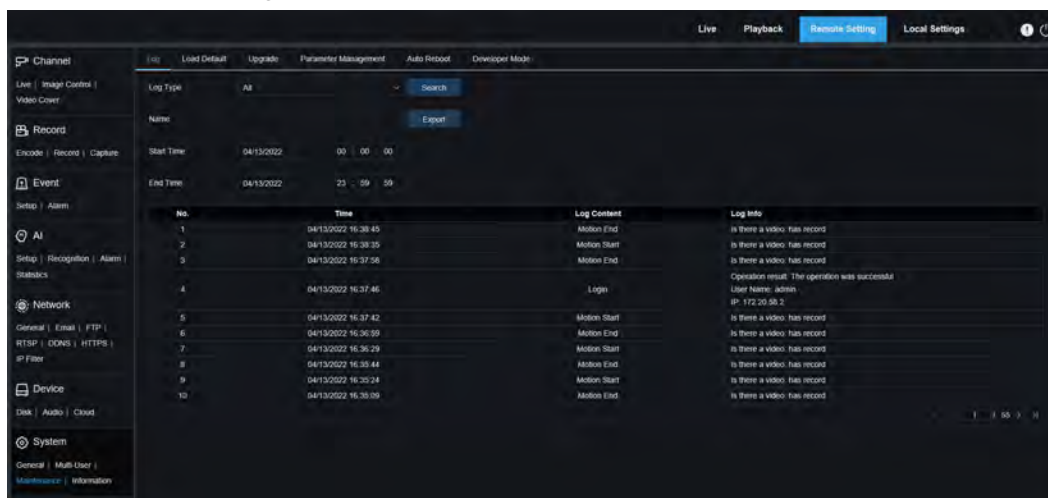
- Check user permissions
- Click <All> to select all the permissions
- Click <Clear> to remove all the permissions.

8.10.3. System Maintenance

In this menu, you will be able to search and view system logs, restore factory settings, upgrade the system, export and import system parameters, and configure system's automatic reboot.

8.10.3.1. Log Management

The system log shows important system events such as motion alarms and system warnings. You can easily import the system log backup file to the computer within a set period of time.



Log search and backup:

1. Click <Start time>, select start time and time of desired searching from Calendar
2. Click <End time> select end time and time of desired searching from Calendar
3. Click <Log type> and Select event type from pull-down menu. Log type include SYSTEM LOG,

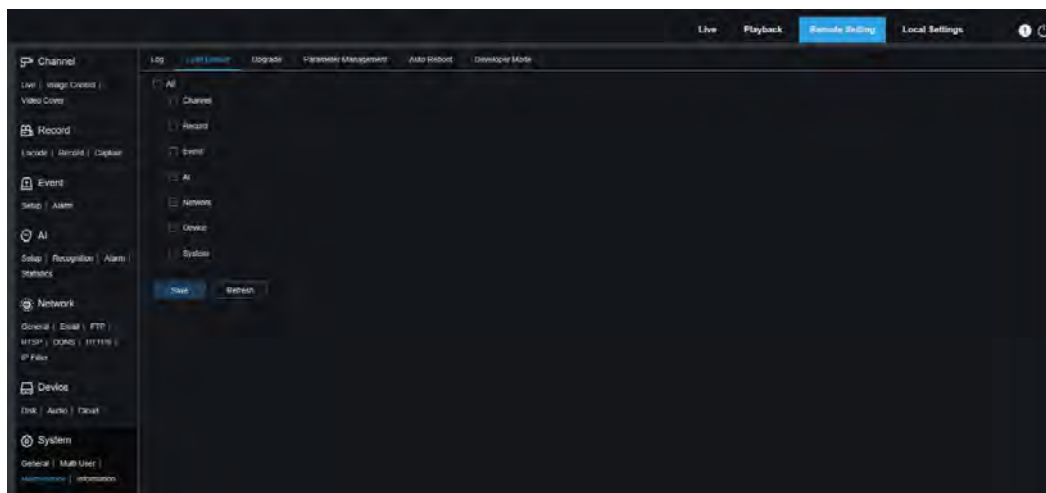
Configuration Log, Alarm Log, Account Log, Record Log, Storage Log and Network Log etc.

4. Click the drop-down menu under the <Minor Type> option, you will find the following options:
 - Under the <System> option, you will check the system setup, reboot, auto reboot, upgrade, Change, NTP and ALL
 - Under the <Configuration> option, you will check the IPC preview control, Privacy Zone, Record Mode Setting, Recording Schedule Setting, Main-stream, Network setting, Sub-stream, Email setting, Color, Motion, Manage Disk, Multi-user, NTP, Image Control, Mobile steam, RTSP, IP Filter, System Default, Sound Settings, Export, Import and All
 - Under the <Alarm> option, you will check Motion Start, Motion End, PID Alarm Start, PID Alarm End, LCD Alarm Start, LCD Alarm End, SOD Alarm Start, SOD Alarm End, PD&VD Start, PD&VD End, FD Alarm Start, FD Alarm End, CC Alarm Start, CC Alarm End, CD Alarm Start, CD Alarm End, QD Alarm Start, QD Alarm Start, QD Alarm End, LPD Alarm Start, LPD Alarm End, RSD Alarm Start, RSD Alarm End, Sound Detection Start, Sound Detection End and all
 - Under the <Account> option, you will check Login, Logout, Lock, Modify User and All.
 - Under the <Record> option, you will check Search, Playback, Backup and All.
 - Under the <Storage> option, you will check Format HDD, Disk no Space, Disk Error and All.
 - Under the <Network> option, you will check Network Down, Network Up, Network Error, Network Change Mode and All
5. Click <Search>
6. Browser the system Log
7. Click the <K < / > >>> icon on the lower right corner to turn page to next page or previous page.
8. Export the name you desired to export, Click <Export> to back-up the system files.

8.10.3.2、 Load Default

The option will allow you restore some system parameters to default value.

Note: Restoring the default settings will not delete the videos and snapshots saved to the SD card

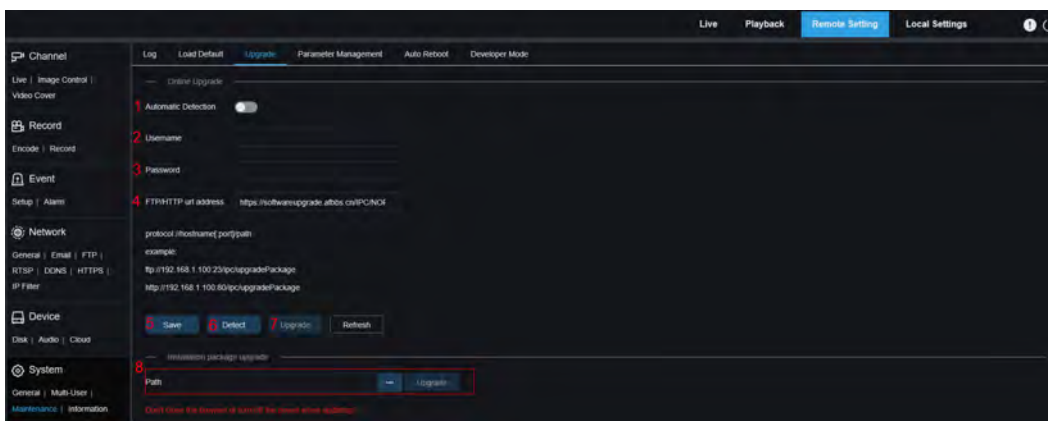


Check the parameters you desire to restore or check <All>

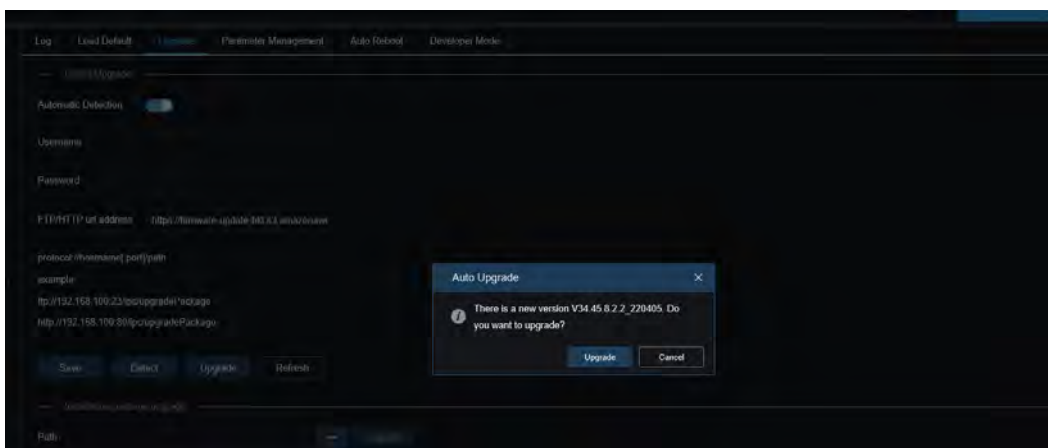
Click <Save>

8.10.3.3、Upgrade

The menu can upgrade the device’s firmware.



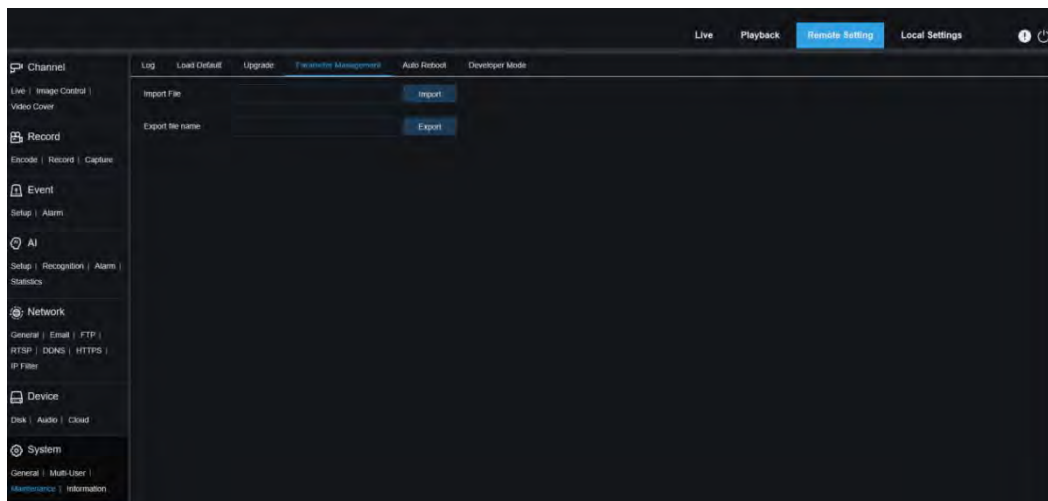
- 1、 **Automatic Detection:** Enable the option, system will auto detect online upgrade F/W;
- 2、 **Username:** Input the FTP server name
- 3、 **Password:** Input the FTP server password.
- 4、 **FTP/HTTP URL address:** Input online upgrade address. Details format please refer to the example shown as the menu bottom
- 5、 Click **<Save>**
- 6、 Detect: Click the **<Detect>** button to manually test if there is a new version or not. If a new version is available, the following window will popup



- 7、 Click the **<Upgrade>** button
- Save the F/W with suffix “.sw” as your local PC
 Click the **<⋮>** icon to upload the F/W
 Click **<Upgrade>** button. It will be finished after the upgrade last for 2~3 minutes.
Note: Do not turn off the power or close the IE during the upgrade.

8.10.3.4、Parameters Management

The menu allows you export the configured main parameters to your PC, or import the exported configured file to your device.



Import File:

Click <Import File> to popup the Path Window

Select the parameters file from your PC

Click <Import>

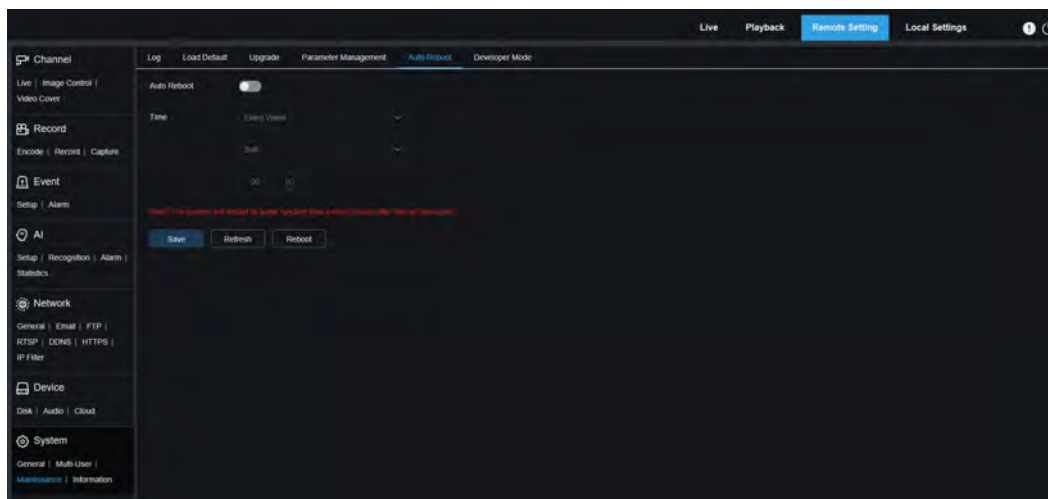
Export File:

Input the exporting file name at the <Export File Name> column

Click <Export>

8.10.3.5、Automatic Maintenance

This menu allows the system to auto reboot regularly. It is recommended to keep this function enabled, as it can maintain the operational stability of the camera.



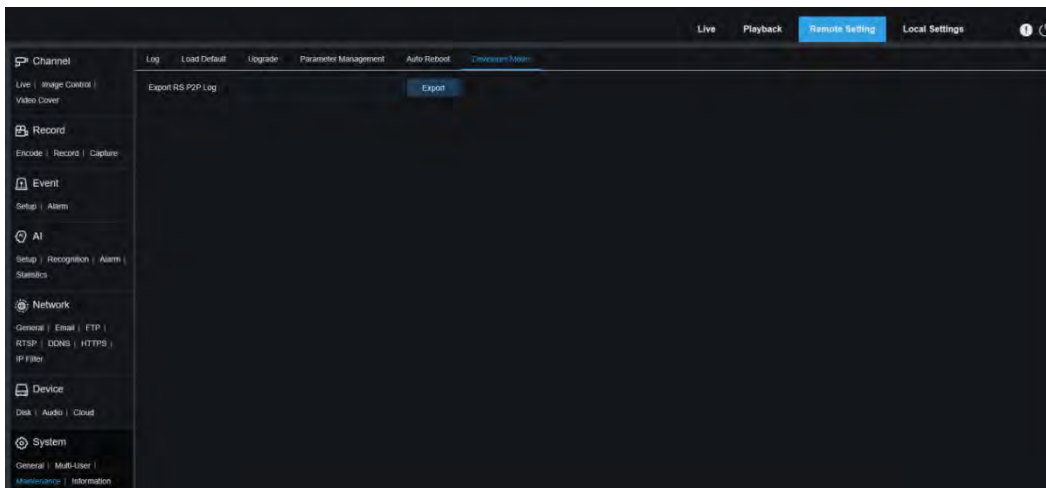
Enable <Auto Reboot> option

Set the <Reboot time> of IPC by day, week or Month.

Click <Save>

8.10.3.6、Developer Mode

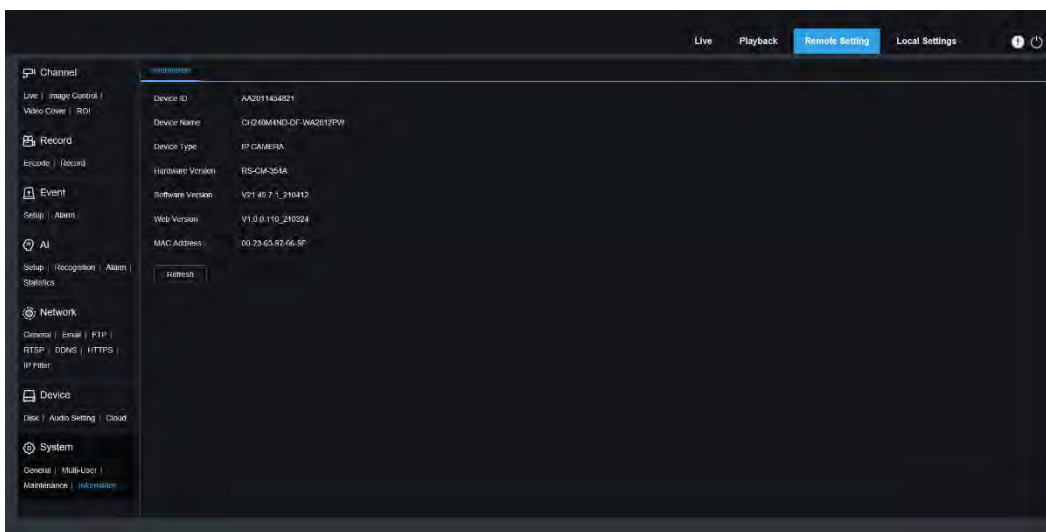
The menu allows you export P2P info of IP camera to your PC.



Input the exporting parameter file at the <Export RS P2P Log> column
 Click <Export>

8.10.4、System Information

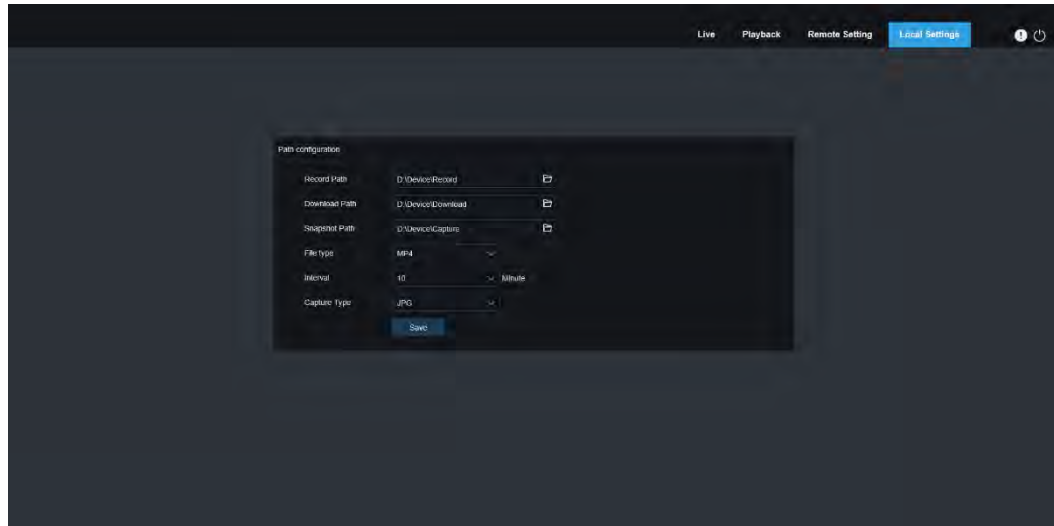
This menu allows you to view system information, such as camera ID, model name, MAC address, firmware version, etc.



9、 Local Settings

This menu allows you to set the save path of recording, downloading and snapshot files, as well as the format of recording and snapshot.

Note: Programs without plug-ins are supported. If you use Safari 12 and above, Chrome57 and above, Firefox 52 and above, Edge 41 and other browsers for web access, this menu can be ignored.





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