NETWROK CAMERA
USER MANUAL

Version 1.0

WAMA

Contents

Statement

The instruction is for guidance only. Detailed information is in accordance with the product.

The instruction may include some technical inaccuracies or typographical error thought it is prepared with our every effort.

The product or procedures described in the instruction may be changed or updated at any time without advance notice.

Screenshots used in the instruction are from the other machine and are only for indications and explanations.

For any doubts or to request documents about latest procedures and complementary notes, please consult with the after-sales service department.

Precautions

The followings describe information about correct usage and risk prevention as well property loss prevention to be strictly followed.

Please use web cameras in an environment within allowable temperature (-10°C to +50°C) and humidity.

Check if the power supply works normally before operation.

Do not furiously strike on the product and be careful not to fall it over.

Do not install the product in a dusty or moist place, or a place with strong electromagnetic radiation.

Do not place a container or others with liquid on the product or allow liquid flowing into inside the product.

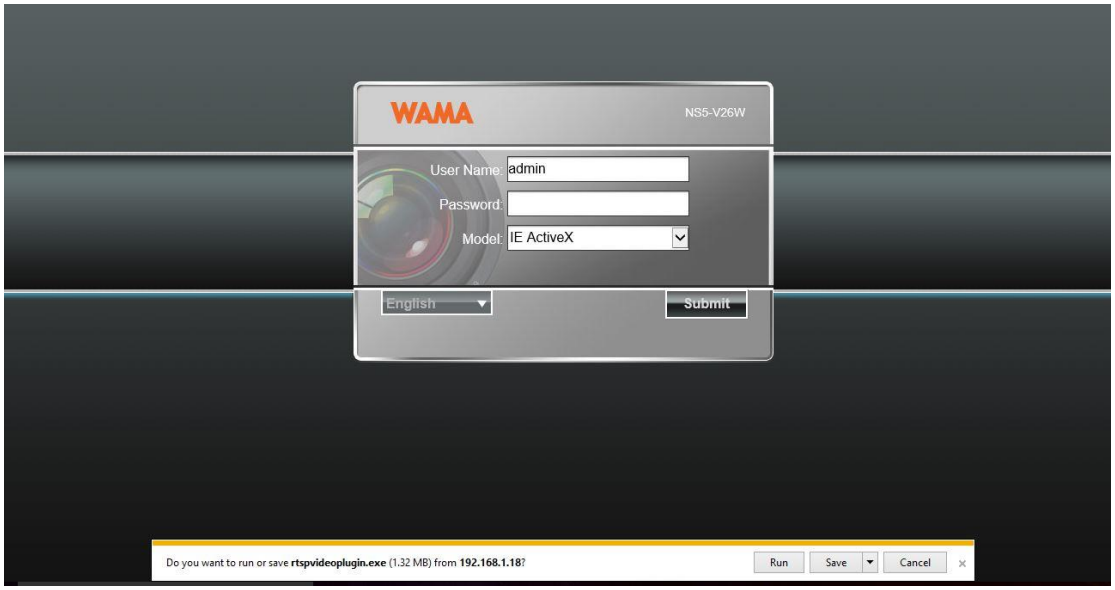
When the product is left unused, place install the preventive dust cover for the image sensor.

Do not disassemble the product without authorization.

1. Login Interface

Input the IP address of the front-end device into the IE browser(default IP address is 192.168.1.188) to access the Login interface, as shown in the following figure:

After entering into the login interface, it will prompt to install the Activex control, as shown in the follow figure:



User Name: admin (default setting)

Password: 123456 (default setting)

Model: IE ActiveX or Non ActiveX. If you use IE browser, then please select IE ActiveX to login. While you use other browsers, then select Non ActiveX to login. (Note: Select Non ActiveX without installing Activex control)

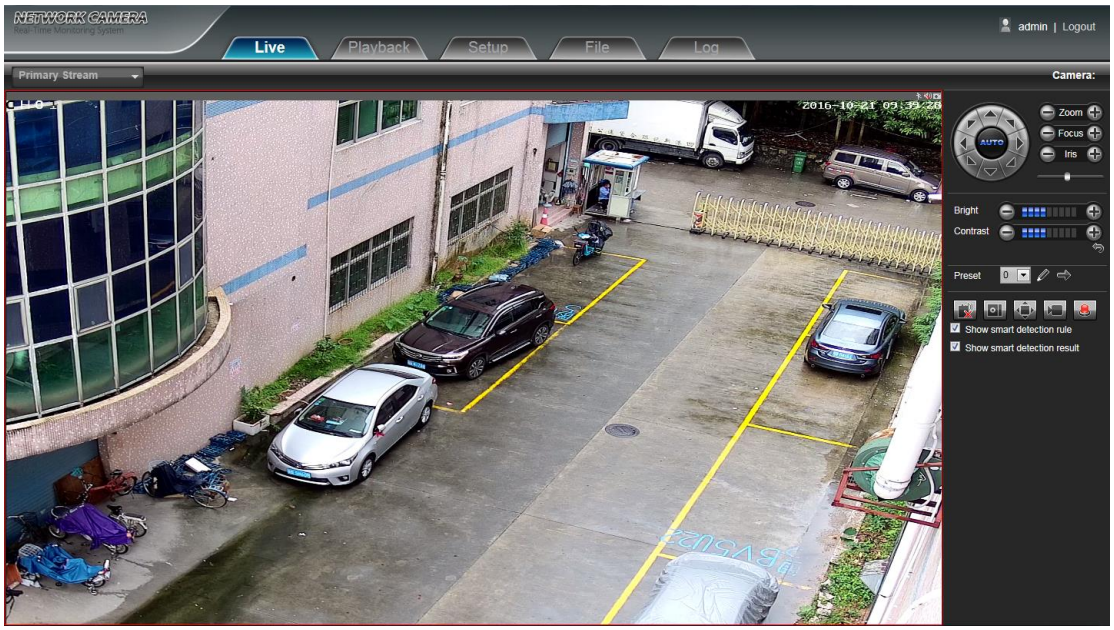
Select Language: English, Simplified Chinese, Traditional Chinese

Click **Submit** to login.

2. Live view

After login, it will enter into the live preview, as shown in the follow figure.

Note:The inserted TF card is for full function display interface, otherwise, it's for simple type interface.

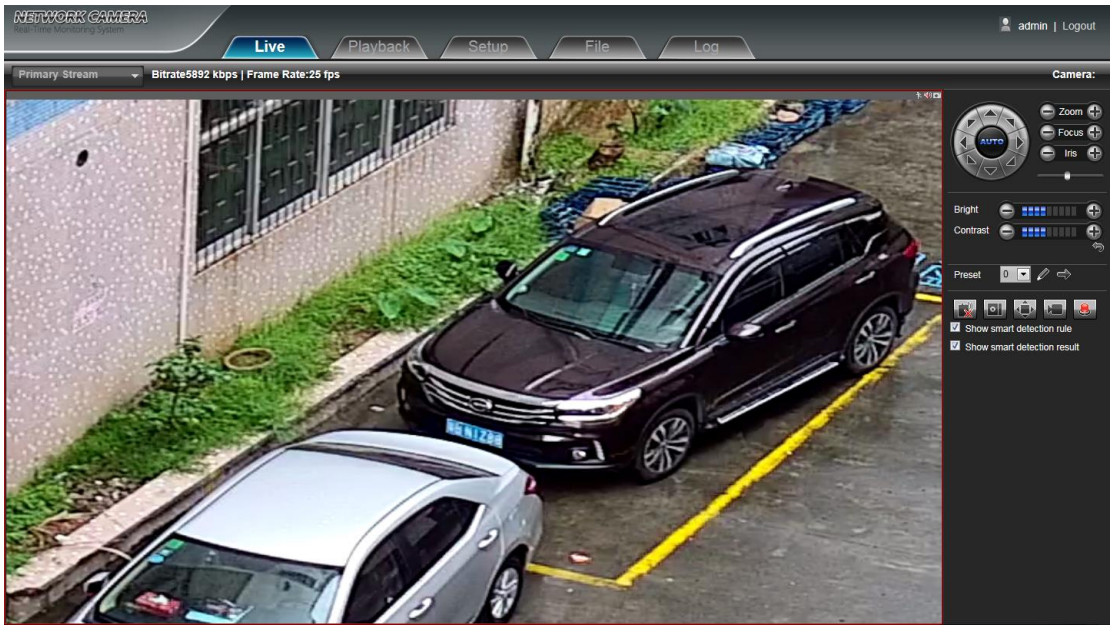


2.1 Full-screen Preview

Click the full-screen icon  in the lower right corner to preview full screen. Or you can click right mouse button to enter and exit the full screen display in the preview interface.

2.2 Electronic Zoom-in

It can zoom in the preview image by scrolling the mouse wheel, as shown in the follow figure:



2.3 PTZ Control

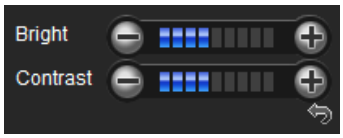
PTZ Control: You can use eight directional keys to rotate front-end devices, and AUTO indicates auto-rotation.

Zoom In/ Out: To adjust degree of zoom in/ out

Focus: To adjust size of focus

Iris: To adjust size of aperture

Speed: Use the slider to regulate the PTZ speed



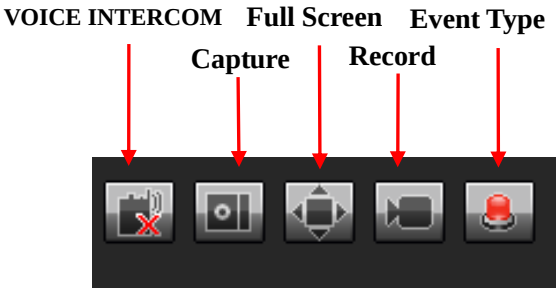
Bright: To adjust the brightness of the screen

Contrast: To adjust the contrast of the screen

The  arrow is used to restore default settings.

Set A Preset Point: Set a preset point by using directional keys on the PTZ control to rotate the camera to the desired location, next select a preset number from the Preset Point drop-down list, and then press  button.

Call A Preset Point: Call a preset point by selecting a preset number to be called from the Preset Point drop-down list and press  button.



Voice Intercom: Click it to enable or disable voice intercom

Capture: Capture for preview. Click the capture icon, it will pop up its storage path automatically.

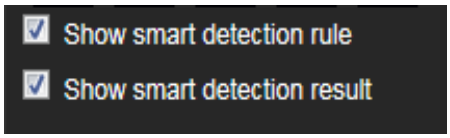
Full Screen: Display the current preview in full screen

Record: Enable or disable preview interface record

Event Type: Enable or disable disarming/ clear alarm

Note: X indicates the function is off or disabled

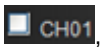
2.4 Show smart detection rule

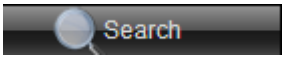


Show smart detection rule: choose whether to display intelligent detection types(total four types: Target Count, Object Detection, Area Detection, Virtual Guard).

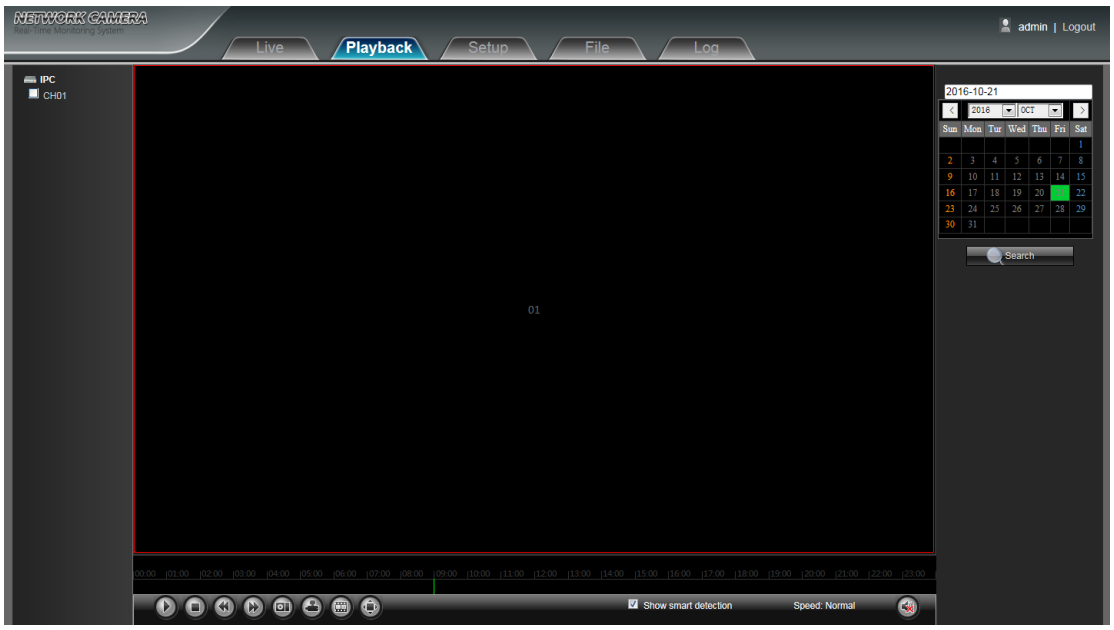
Show smart detection result:choose whether to display intelligent detection statistical result.

3. Playback

Click Playback enter into playback interface, click the icon 

, next select the date time of the calling video in need, then click the icon 

, the record video will search automatically, as shown in the follow figure:



Start: Start the current playback

Stop: Stop the current playback

Slow: Slow down the playback speed(1/2, 1/4, 1/8, 1/16 times optional)

Fast: Speed up the playback speed(2, 4, 8, 16 times optional)

Capture: Can be capture in playback channel

Backup: Can be backup video in playback channel

Frame Play: Single frame to play

Full Screen: Playback video will display with full screen

Show smart detection: when the video is to intelligent detect video,it can display intelligent Detection rules and statistical result.

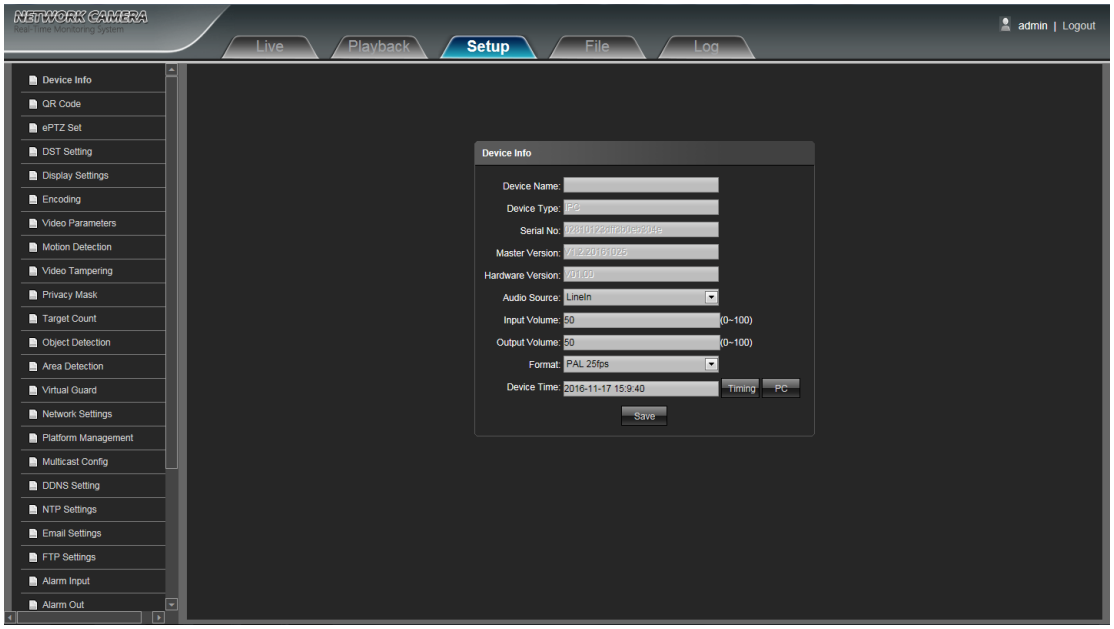
Voice: Adjust the volume of playback audio

Double-click the slider location, it will start to play the video, or you can click the Start button to playback video.

(Note: The device should support TF card storage to enable this function)

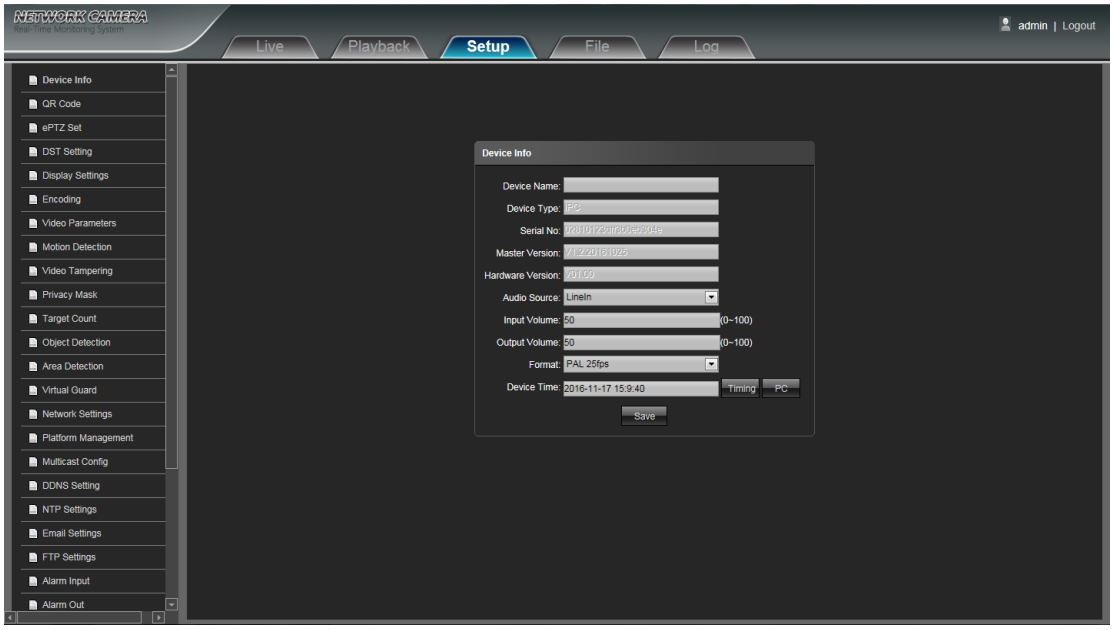
4. Setup

Note: The inserted TF card is for full function display interface, otherwise, it's for simple type interface.



4.1 Device Info

IP Camera Device Info interface as shown in the follow figure:

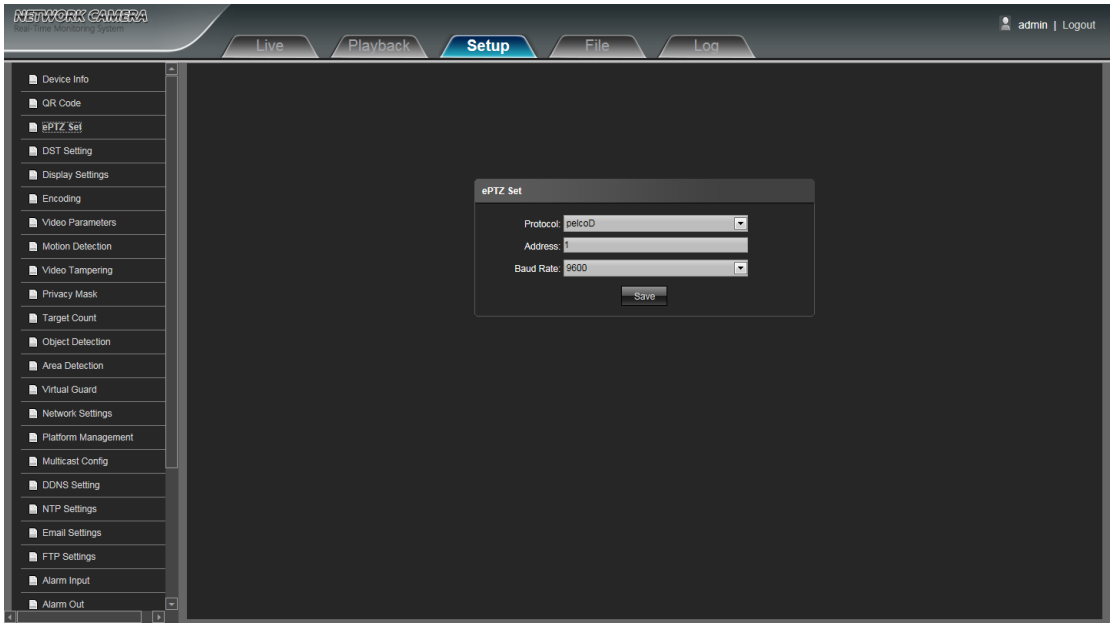


- **Device Name:** Edit the camera name
- **Device Type:** Display the device type
- **Serial No. :** Display the product serial No.
- **Master Version:** Display the software version date (Note: Based on the version information which displayed in factory product)
- **Hardware Version:** Display the hardware version number
- **Audio Source:** Select the audio input mode, LineIn or MicIn selectable
- **Input Volume:** Set the size of the input volume, the range of volume:0-100, default is 50
- **Output Volume:** Set the size of the output volume, the range of volume:0-100, default is 50
- **Format:** Switch to select the PAL and NTSC image scanning system
- **Device Time:** Set and display the device current time

After complete all parameters setting, click Save and then it will take effect immediately.

4.2 ePTZ Set

IP Camera ePTZ Set interface as shown in the follow figure:

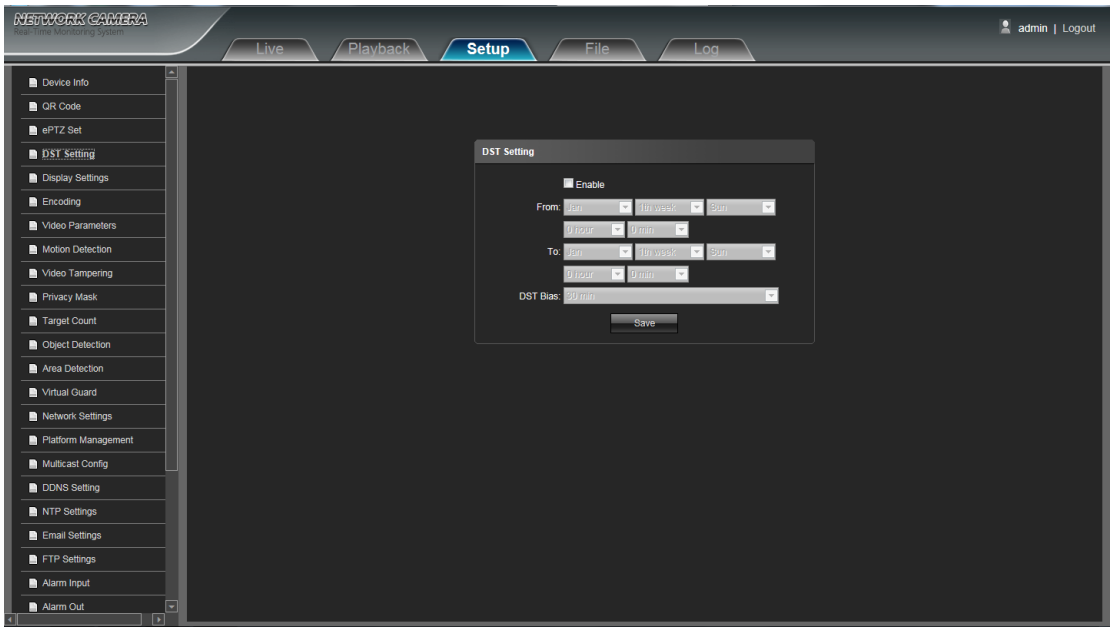


- **Protocol:** Support pelcoD and pelcoP protocol
- **Address:** Support 0-255 address code adjustable
- **Baud Rate:** Support diverse baud rate selectable
- **Operation Method:** Connect analog high speed dome at the IP camera AB port, set the protocol and baud rate, and control the high speed dome through IPC preview interface

After complete all parameters setting, click Save and then it will take effect immediately.

4.3 DST Setting

IP Camera DST Setting interface as shown in the follow figure.

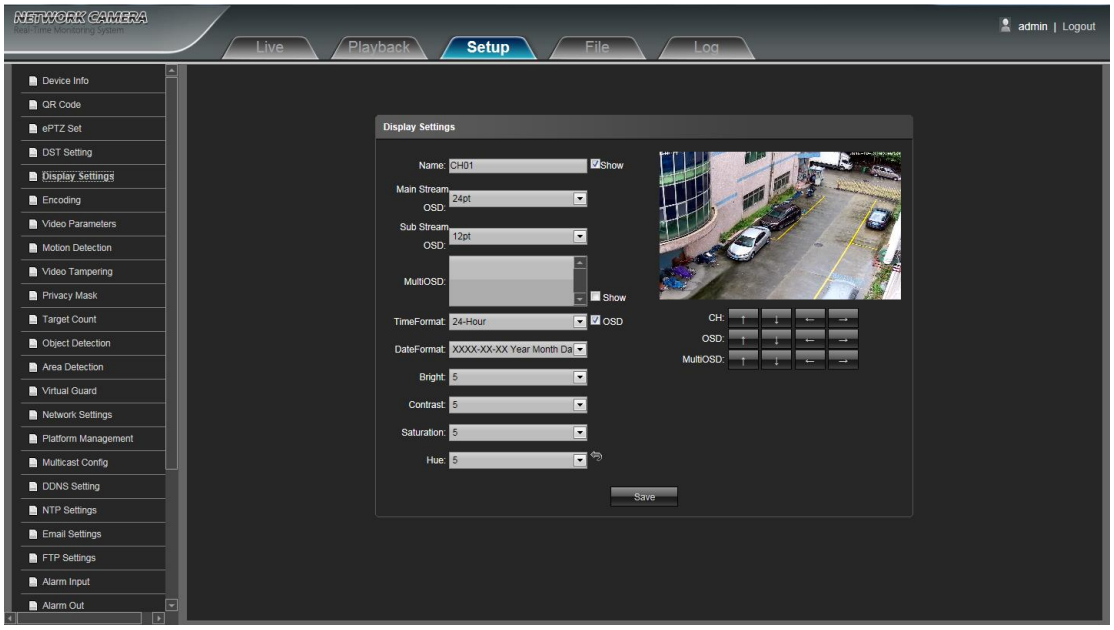


- **Enable:** Can choose to enable or close the DST function, If in the implementation of daylight saving time region, just click the enable daylight saving time
- **From(Begin time):** Set begin DST time
- **To(End time):** Set end DST time
- **DST Bias(Offset time):** Set DST offset time, there 30/60/90/120 minutes selectable

After complete all parameters setting, click Save and then it will take effect immediately.

4.4 Display Settings

IP Camera Display Settings interface as shown in the follow figure.



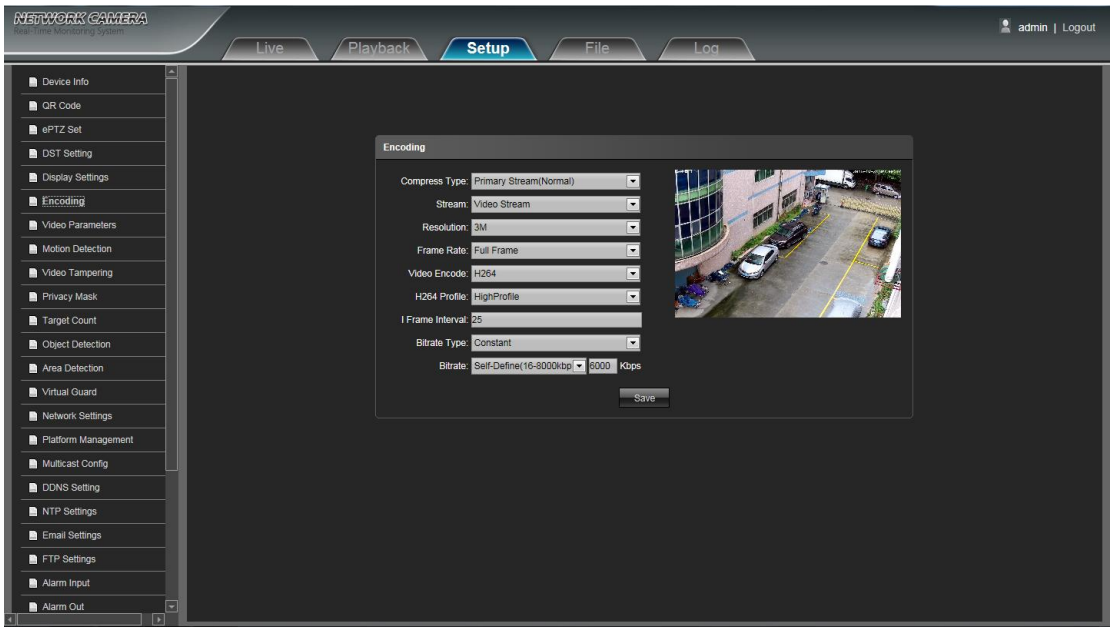
- **Name:** Modify the appointed channel name
- **Main Stream OSD:** Modify the appointed channel font of main stream OSD
- **Sub Stream OSD:** Modify the appointed channel font of sub stream OSD

- **Multi OSD:**Add multi user-defined OSD, it can be selected Show or not
- **Time Format:** Select different time display mode for the appointed channel
- **Date Format:** Select different date display mode for the appointed channel
- **Bright:** Adjust the brightness for the appointed channel
- **Contrast:** Adjust the contrast for the appointed channel
- **Saturation:** Adjust the saturation for the appointed channel
- **Hue:** Adjust the hue for the appointed channel
- **CH(Title Location):** Set the channel title location for the appointed channel
- **OSD(Date Adjustment):** Set the channel date location for the appointed channel
- **Multi OSD(Position adjustment):** Multi-line OSD characters can be set up the corresponding location
- **Cyclotron Arrow:** Restore the default parameters(Only for Bright, Contrast, Saturation and Hue)

After complete all parameters setting, click Save and then it will take effect immediately.

4.5 Encoding

IP Camera Encoding setting interface as shown in the follow figure:

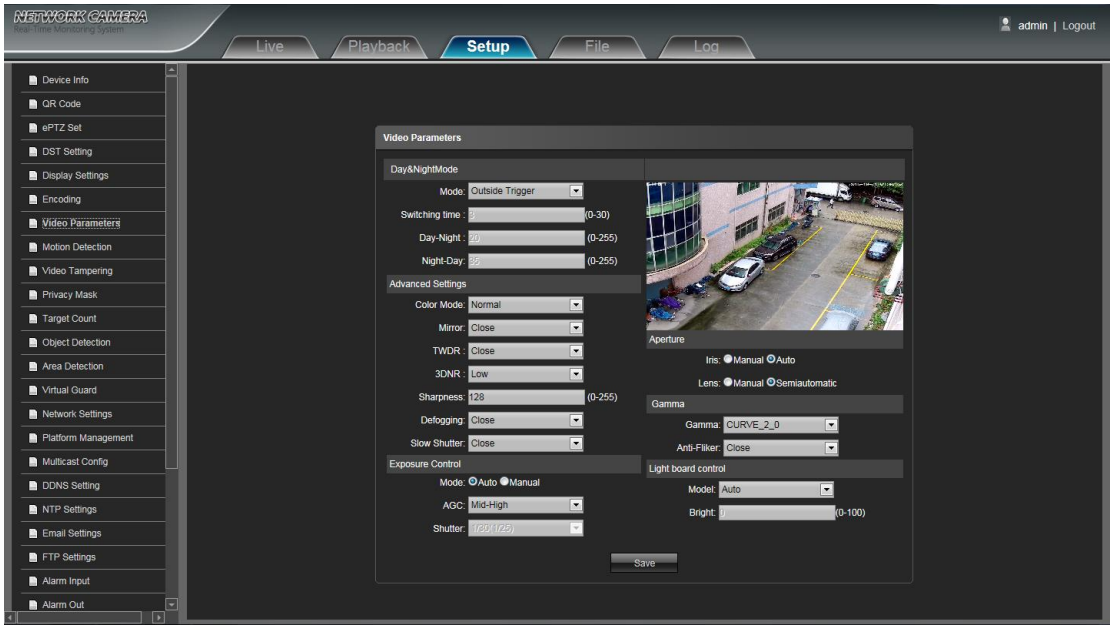


- **Compress Type:** Primary Stream(Normal)/ Sub Stream selectable
- **Stream:** Include complex stream/ video stream two types
- **Resolution:** The camera supports several resolution , will display here(Note:Based on the defaulted resolution of factory products)
- **Frame Rate:** Select different frame rate in the drop-down list, default is Full Frame
- **Video Encode:** H.264/ MJPEG/H.265 three kinds of video encode format
- **H264 Profile:** There are MainProfile/ Baseline/ HighProfile three types optional
- **I frame Interval**: Set the I frame interval size
- **Bitrate Type:** Constant/ Variable selectable
- **Bitrate:** Set different bitrate for different channels

After complete all parameters setting, click Save and then it will take effect immediately.

4.6 Video Parameters

IP Camera Video Parameters setting interface as shown in the follow figure:



- **Day&Night Mode:** Outside Trigger/ Auto/ Color/ Black White four kinds of mode selectable. Non infrared IP cameras default mode is Auto, and infrared IP cameras default mode is Outside Trigger. According to the IP camera type and actual scene, user can select the Day&Night mode optional
- **Switching Time:** Day&Night switch delay time, 0-30s selectable, and default is 3s
- **Day-Ni-Threshold:** 0-255 selectable, users can adjust it according to the need, default is 20
- **Ni-Day-Threshold:** 0-255 selectable, users can adjust it according to the need, default is 35
- **Color Mode:** Normal/ Bright/ Nature three options, default is Normal
- **Mirror:** Close/ Horizonal Mirror/ Vertical Mirror/ 180 Rotation/90 Rotation/270 Rotation six options, default is Close
- **TWDR/WDR:** Close/ Low/ Mid/ High four options, default is Close
- **3DNR:** Close/ Low/ Mid/ Mid-High/ High five levels, default is Low
- **Sharpness:** 0-255 selectable, default is 128
- **Defogging:**Close/ Low/ Mid/ High four options,default is Close.
- **Slow Shutter:** Close/Open selectable, default is Close.
- **Exposure Control Mode:** Auto/ Manual selectable, default is Auto
- **AGC:** It can be set when it's automatic exposure, Low/ Mid-Low/ Mid/ Mid-High/ High selectable, default is Mid-High. The higher Auto Gain value, the better sensitivity within low illumination, while the noise will be more obvious
- **Shutter:** It can be set when it's manual exposure, the shutter value range:1/30（25）-1/10000
- **Aperture:**According to the IPC lens type, the aperture can be divided into manual aperture and auto aperture(note: based on the defaulted aperture of factory products), the lens can be divided into manual focus and semiautomatic focus(note: there is this option when it's equipped with electric lens)
- **Gamma:** CURVE_1_6, CURVE_1_8, CURVE_2_0, CURVE_2_2 totally four modes, default is CURVE_2_0
- **Anti-Fliker:** Close, 50hz, 60hz three types, the default is Close
- **Light board control model:** 3 types of led board control mode: close, manual, auto. defaulted to

auto.

Closing mode: The led board can not be control, and it always close.

Manual mode: The led board brightness can be adjusted by manually change the parameters, and the range is 1-100, the higher the parameter value, the brighter the IR led.

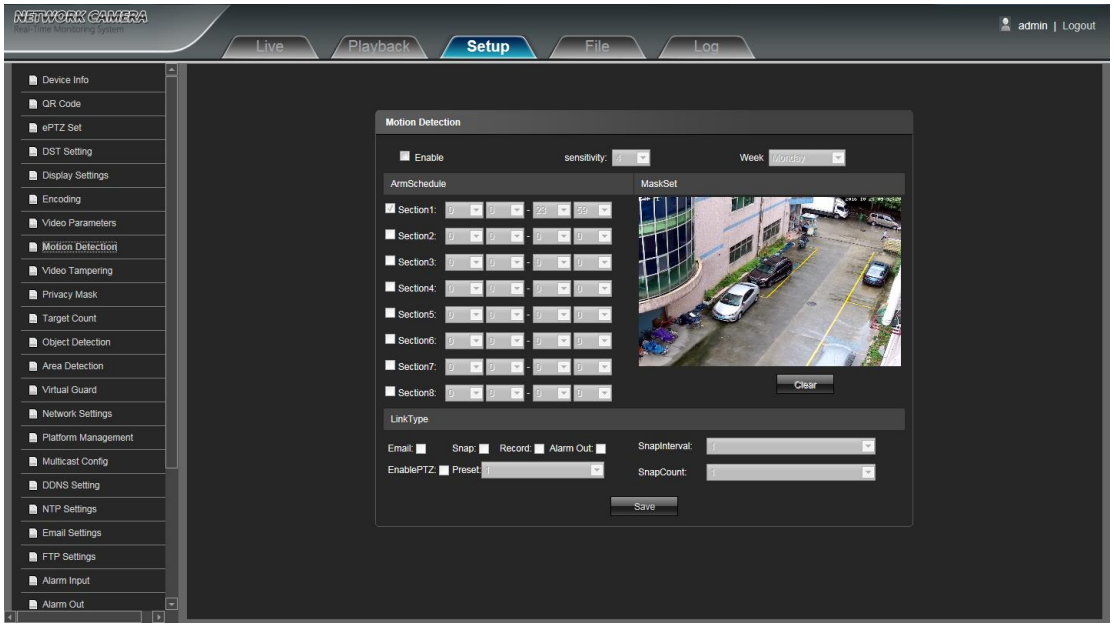
Auto mode: The image of the camera can be optimum, and it's power can be the minimum by acquiring the current image brightness & exposure & gain, and dynamically adjusting the light brightness.

- **Bright:** The led board brightness can be set when the led board control is under manual mode, and the range is 1-100.

After complete all parameters setting, click Save, the settings will take effect immediately.

4.7 Motion Detection

IP Camera Motion Detection setting interface as shown in the follow figure:



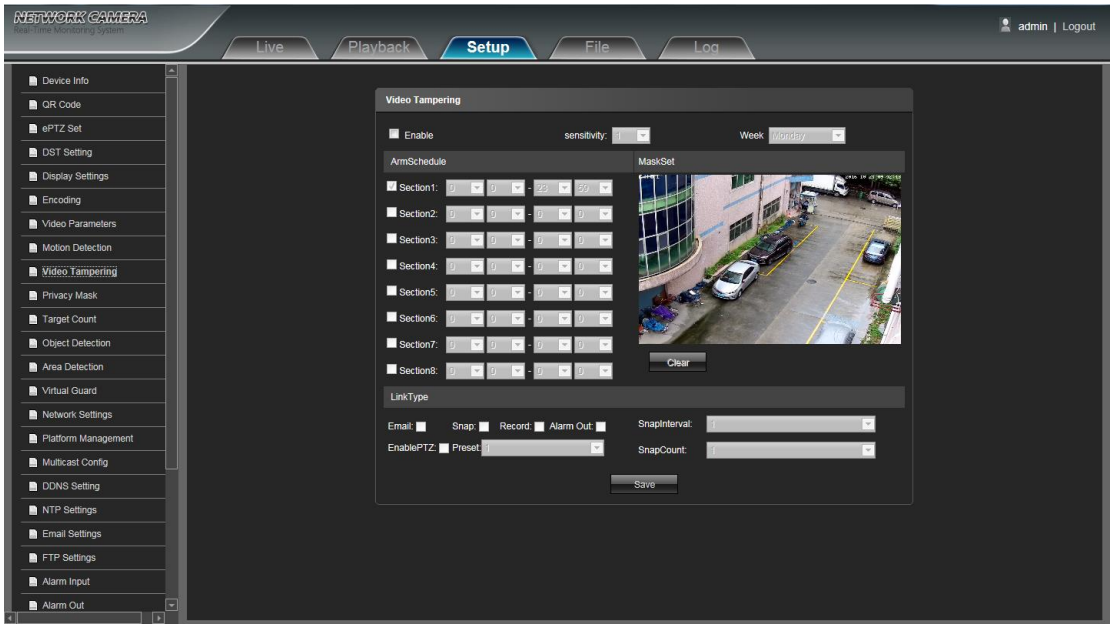
- **Enable:** Select whether to enable the Motion Detection function.
- **Sensitivity:** The higher sensitivity, the more obvious motion detective effect
- **Week:**The protection time can be set up from Monday to Sunday.
- **Arm Schedule:** Can set up protection period of time, one day can set up 8 time quantum.
- **Mask Set:** Press and drag the left mouse button in the Mask Set preview interface, then draw the small check optional to set the detective areas
- **Clear:** Click Clear to clear the current detective areas
- **Email:** Click Email. Once alarm triggers that it will send Email to appointed mailbox
- **Snap:** Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- **Record:** Click Record.Once alarm triggers that it will linkage camera to record video and restore it in the TF card.
- **Alarm Output:** There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- **Enable PTZ:** Enable or disable PTZ function

- **Preset:** When motion detection triggers alarm, it will linkage the presets
- **Snap Interval:** Set the snapshot interval time
- **Snap Count:** Set the snapshot image count for every time

After complete all parameters setting, click Save, the settings will take effect immediately.

4.8 Video Tampering

IP Camera Video Tampering setting interface as shown in the follow figure:

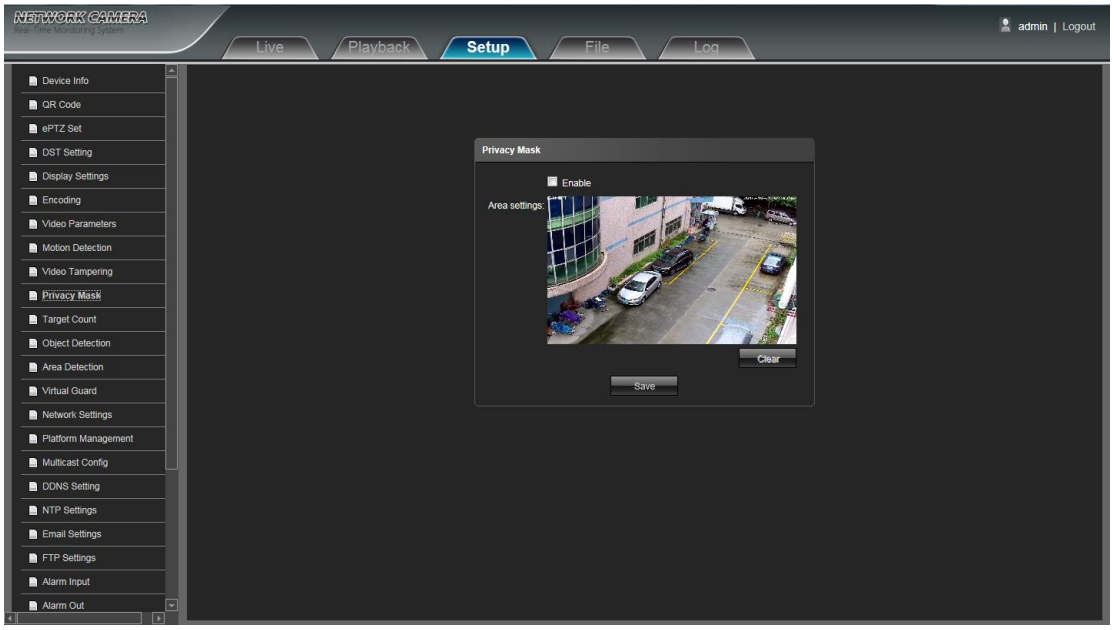


- **Enable:** Select whether to enable the Video Tampering function.
- **Sensitivity:** The higher the sensitivity, the more easier to trigger the video block alarm
- **Week:**The protection time can be set up from Monday to Sunday.
- **Arm Schedule:** Can set up protection period of time, one day can set up 8 time quantum.
- **Mask Set:** Press and drag the left mouse button in the Mask Set preview interface, then draw the small check optional to set the detective areas
- **Clear:** Click Clear to clear the current detective areas
- **Email:** Click Email. Once alarm triggers that it will send Email to appointed mailbox
- **Snap:** Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- **Record:** Click Record. Once alarm triggers that it will linkage camera to record video and restore it in the TF card.
- **Alarm Output:** There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- **Enable PTZ:** Enable or disable PTZ function
- **Preset:** When Video Tampering triggers alarm, it will linkage the presets
- **Snap Interval:** Set the snapshot interval time
- **Snap Count:** Set the snapshot image count for every time

After complete all parameters setting, click Save, the settings will take effect immediately.

4.9 Privacy Mask

IP Camera Privacy Mask setting interface as shown in the follow figure:

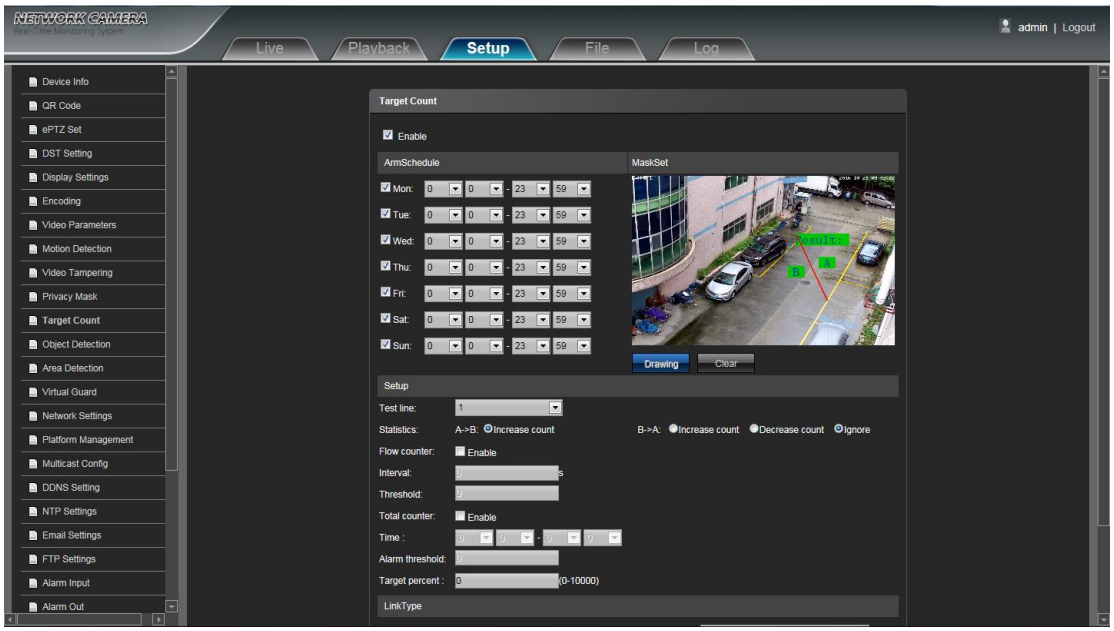


- **Enable:** Enable or disable the Privacy Mask function
- **Area Settings:** Press and drag the left mouse button in the Area Settings preview interface, then draw the check optional to set the mask area
- **Clear:** Click Clear to delete the current mask area

After complete all parameters setting, click Save and then the settings will take effect immediately.

4.10 Target Count

IP Camera Target Count setting interface as shown in the follow figure:



- **Enable:** Enable or disable the target counting function
- **Arm Schedule:** Arm schedule can be set from Monday to Sunday
- **Mask Set:** Press and drag the left mouse button to set the test line in the Area Settings preview interface, then click the right button to complete the setting, and the targets passing through the line will be counted
- **Clear:** Click Clear to delete all the test lines
- **Test Line:** To add new test lines (support max. 4 test lines), or set the parameter setting for the corresponding test line optional
- **Statistics:** Set the test lines for targets passing through, there are A→B and B→A two statistical methods.
- **Flow Counter:** Enable or disable the Flow Counter function
- **Interval:** Set the counting time interval, when it is more than the time interval, the flow counter will reset and enter into next counting period automatically
- **Threshold:** Set the upper limit value for counting, when it is more than the setting value, it will trigger alarm function automatically
- **Total Counter:** Enable or disable the Total Counter function
- **Time:** Set the effective time period for the day's total counter
- **Alarm Threshold:** Set the upper limit value for the day's total flow, when it is more than the setting value, it will trigger alarm function automatically
- **Target Percent:** Set the min. area percent for the effective counting targets, once the area of targets passing through the test line are smaller than the setting value, it will be invalid without be counted
- **Email:** Click Email. Once alarm triggers that it will send Email to appointed mailbox
- **Snap:** Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- **Record:** Click Record. Once alarm triggers that it will linkage camera to record video and store it in

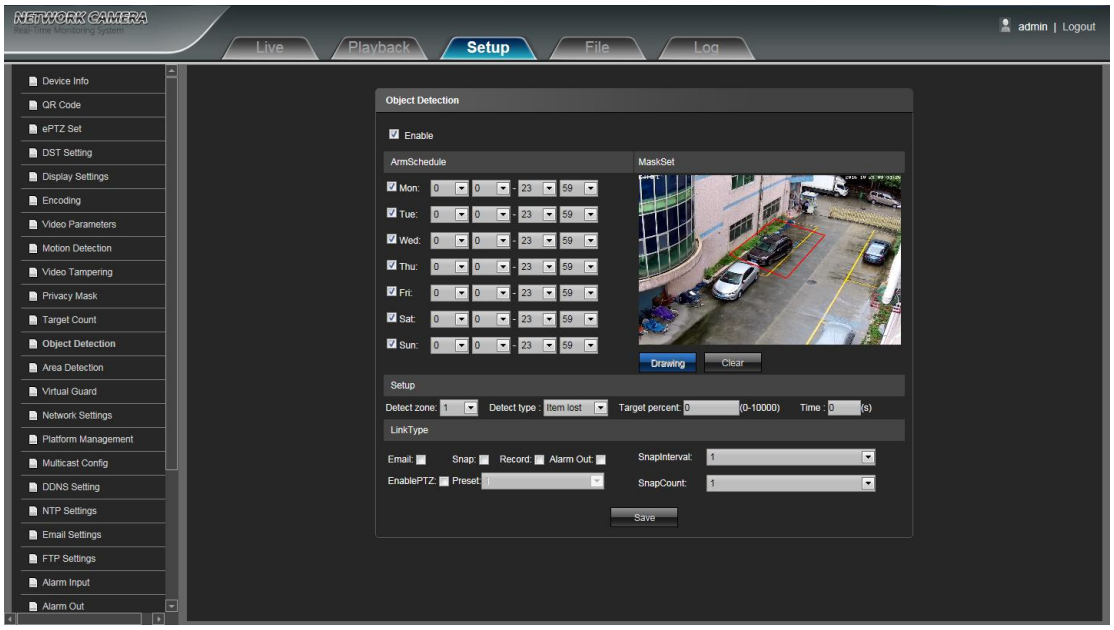
the TF card.

- **Alarm Output:** There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- **Enable PTZ:** Enable or disable PTZ function
- **Preset:** When target counting triggers alarm, it will linkage the presets
- **Snap Interval:** Set the snapshot interval time
- **Snap Count:** Set the snapshot image count for every time

After complete all parameters setting, click Save and then the settings will take effect immediately.

4.11 Object Detection

IP Camera Object Detection setting interface as shown in the follow figure:



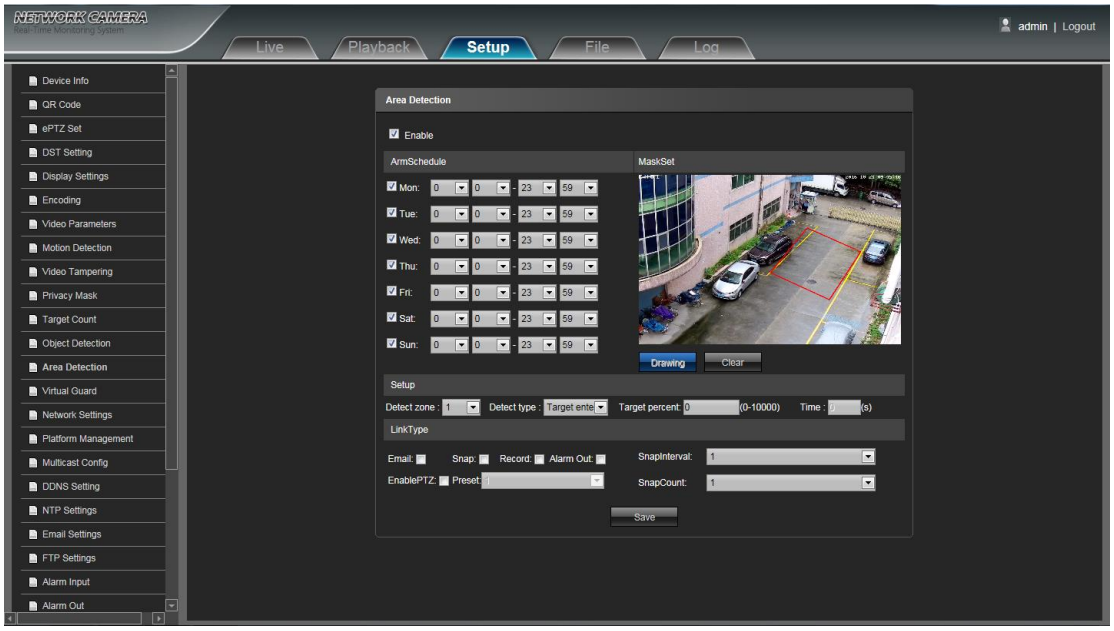
- **Enable:** Enable or disable the object detection function
- **Arm Schedule:** Can be set the arm schedule from Monday to Sunday
- **Mask Set:**Press and drag the left mouse button to set the detect zone in the Area Settings preview interface, then click the right key to complete the setting, and the objects of this area will be monitored and detected
- **Clear:** Click Clear to delete all the detect zones.
- **Detect Zone:** To add new detect zone (support max. 4 detect zones), can be set the parameter setting for the corresponding detect zone optional
- **Detect Type:** Set the object detection type, there are three detection types, both of them will trigger alarm. Item lost refers to once the object lost in the detect zone, the camera will trigger alarm, Item left refers to once the new added object detected in the detect zone, the camera will trigger alarm.Item lost or left refers to both of object lost and adding,the camera will trigger alarm.
- **Target Percent:** Set the min. area percent for the object, the area of object is smaller than the setting value, it will be invalid
- **Time:** Set the upper limit value for the item lost and item left, when it is more than the setting value, it will trigger alarm function automatically

- **Email:** Click Email. Once alarm triggers that it will send Email to appointed mailbox
- **Snap:** Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- **Record:** Click Record. Once alarm triggers that it will linkage camera to record video and store it in the TF card.
- **Alarm Output:** There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- **Enable PTZ:** Enable or disable PTZ function
- **Preset:** When object detection triggers alarm, it will linkage the presets
- **Snap Interval:** Set the snapshot interval time
- **Snap Count:** Set the snapshot image count for every time

After complete all parameters setting, click Save and then the settings will take effect immediately.

4.12 Area Detection

IP Camera Area Detection setting interface as shown in the follow figure:



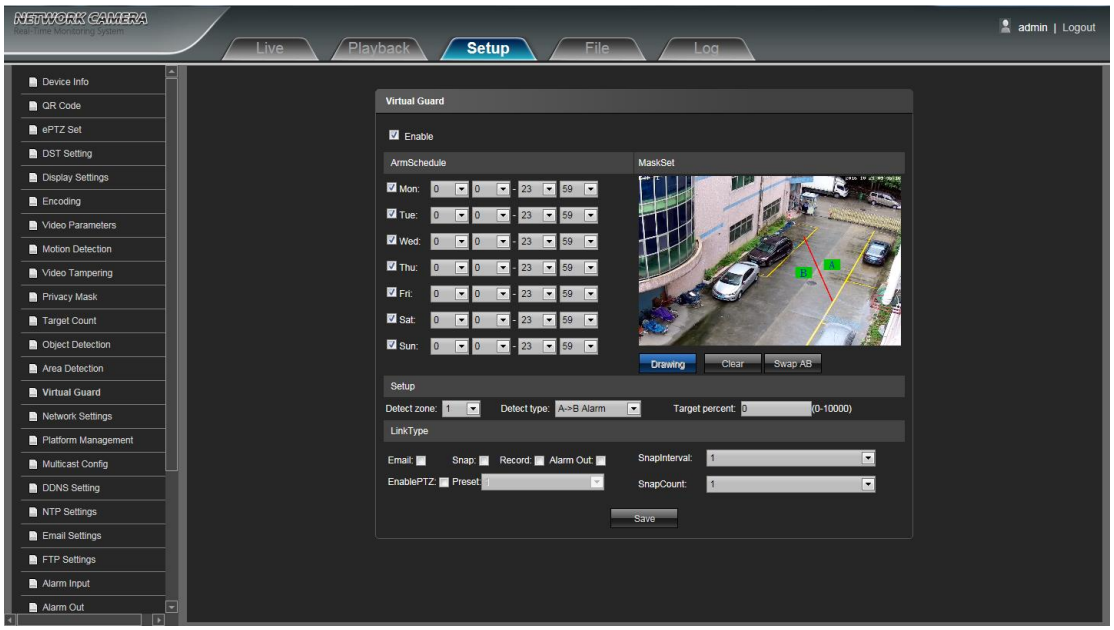
- **Enable:** Enable or disable the area detection function
- **Arm Schedule:** Can be set the arm schedule from Monday to Sunday
- **Mask Set:** Press and drag the left mouse button to set the detect zone in the area settings preview interface, then click the right key to complete the setting, and the objects of this area will be monitored and detected
- **Clear:** Click Clear to delete all the detect zones.
- **Detect Zone:** To add new detect zone (support max 4 detect zones), can be set the parameter setting for the corresponding detect zone optional
- **Detect Type:** Set the target detect type, there are four detect types, all of them will trigger alarm. Target enter refers to once the target enter into the detect zone, the camera will trigger alarm, Target leave refers to the target go out the detect zone, the camera will trigger alarm, Target enter or leave refers to both of them happen, the camera will trigger alarm .When the staying time of target wander target entering into detection area exceeds the upper limit of setting time, it will trigger the alarm

- **Target Percent:** Set the min. area percent for the object, the area of object is smaller than the setting value, it will be invalid
- **Time:** When the staying time of the set target entering into detection area exceeds the upper limit of setting time, it will trigger the alarm
- **Email:** Click Email. Once alarm triggers that it will send email to appointed mailbox
- **Snap:** Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- **Record:** Click Record. Once alarm triggers that it will linkage camera to record video and store it in the TF card.
- **Alarm Output:** There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- **Enable PTZ:** Enable or disable PTZ function
- **Preset:** When area detection triggers alarm, it will linkage the presets
- **Snap Interval:** Set the snapshot interval time
- **Snap Count:** Set the snapshot image count for every time

After complete all parameters setting, click Save and then the settings will take effect immediately.

4.13 Virtual Guard

IP Camera Virtual Guard setting interface as shown in the follow figure:



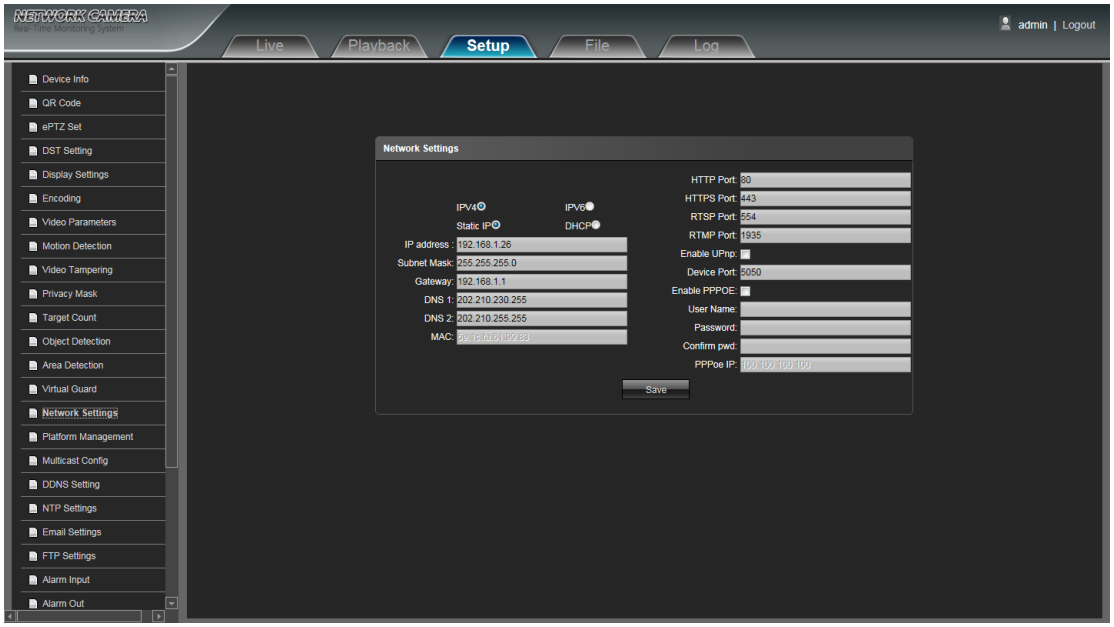
- **Enable:** Enable or disable the virtual guard function
- **Arm Schedule:** Can be set the arm schedule from Monday to Sunday
- **Mask Set:**Press and drag the left mouse button to set the guard line in the Area Settings preview interface, then click the right key to complete the setting, and the target passing through the guard line will trigger alarm
- **Clear:** Click Clear to delete all the detect zones.
- **Swap AB:**Click "swap AB" to exchange position between A and B
- **Detect Zone:** To add new guard line (support max. 4 guard lines), can be set the parameter setting for the corresponding guard lines optional

- **Statistics:** Set the guard lines to trigger alarm. A→B refers to the targets pass through the guard line from A area to B area and trigger alarm. A←→B refers to the targets pass through the guard line from A area to B area or from B area to A area, both of them will trigger alarm.
- **Target Percent:** Set the min. area percent for the object, the area of target passing through the guard line is smaller than the setting value, it will be invalid without triggering alarm
- **Email:** Click Email. Once alarm triggers that it will send Email to appointed mailbox
- **Snap:** Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- **Record:** Click Record. Once alarm triggers that it will linkage camera to record video and store it in the TF card.
- **Alarm Output:** There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- **Enable PTZ:** Enable or disable PTZ function
- **Preset:** When virtual guard triggers alarm, it will linkage the presets
- **Snap Interval:** Set the snapshot interval time
- **Snap Count:** Set the snapshot image count for every time

After complete all parameters setting, click Save and then the settings will take effect immediately.

4.14 Network Settings

IP Camera Network Settings interface as shown in the follow figure:



- **IPV4:** IP protocol version No. is 4
- **IPV6:** IP protocol version No. is 6, the feature is not optional at present
- **Static IP:** The device IP address is permanent
- **DHCP:** Enable DHCP, then IP camera will get the IP address from router automatically
- **IP Address:** Input the corresponding numbers to change the IP address
- **Subnet Mask:** Input the corresponding IP subnet mask
- **Gateway:** Input the corresponding gateway address
- **DNS 1:** DNS server IP address

- **DNS2:** DNS server second IP address
- **HTTP Port:** Input the corresponding port (Default is 80)
- **HTTPS Port:** Input the corresponding port (Default is 443)
- **RTSP Port:** Use domain name to access and login device need mapping RTSP, default port is 554
- **RTMP Port:** Use domain name to access and login device need mapping RTMP, default port is 1935
- **Enable UPnp:** Enable UPnp, then device port and HTTP port will be mapped to the router automatically
- **Device Port:** Input the corresponding device port(Default is 5050)
- **Enable PPPoe:** Click to enable PPPOE

  User Name: Input the user name

  Password: Input the password

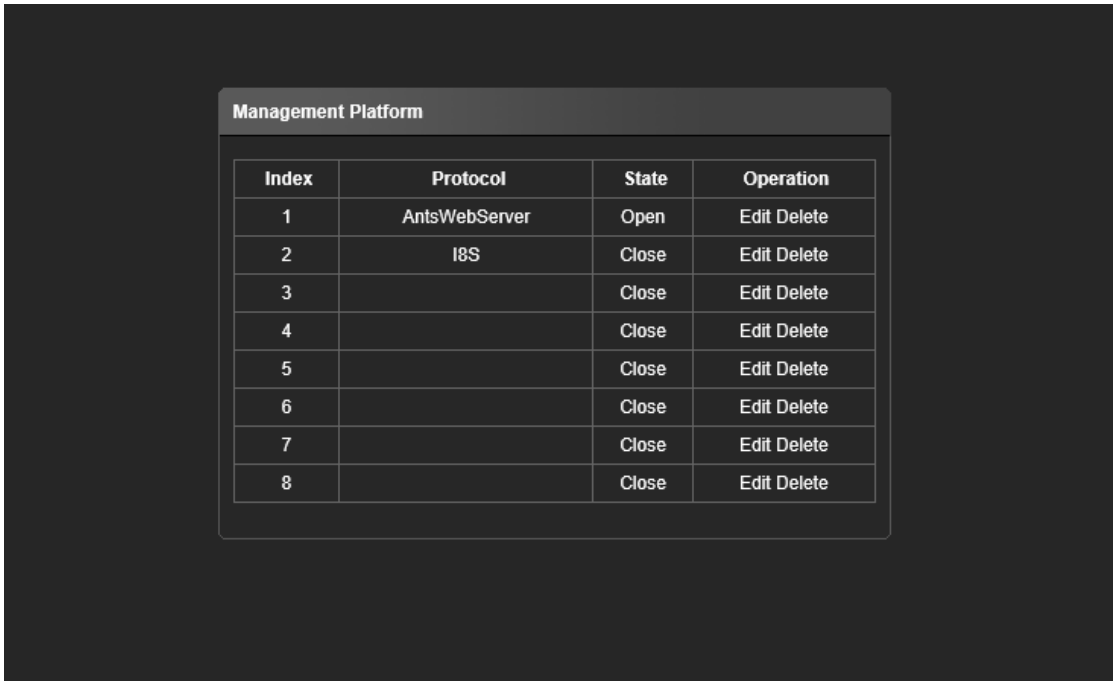
  Confirm pwd: Input the password again to confirm it

  PPPoe IP: Input device dynamic address

After complete all parameters setting, click Save, then the settings will take effect immediately.

4.15 Platform Management

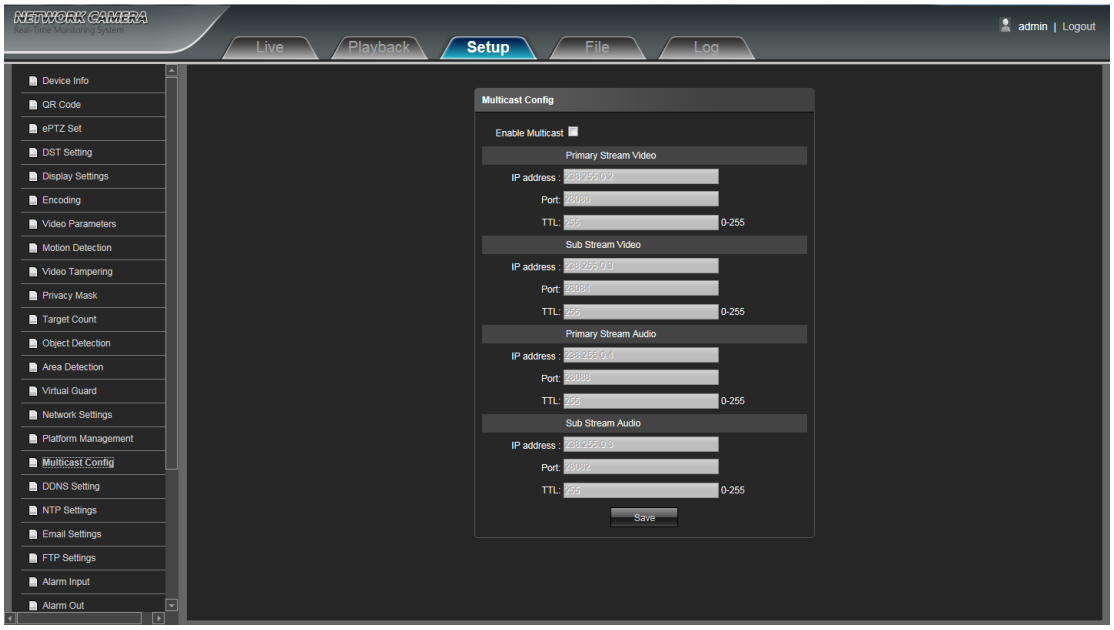
IP Camera Platform Management interface as shown in the follow figure:



User can open, close, edit and delete the protocol in the Management Platform interface.

4.16 Multicast Config

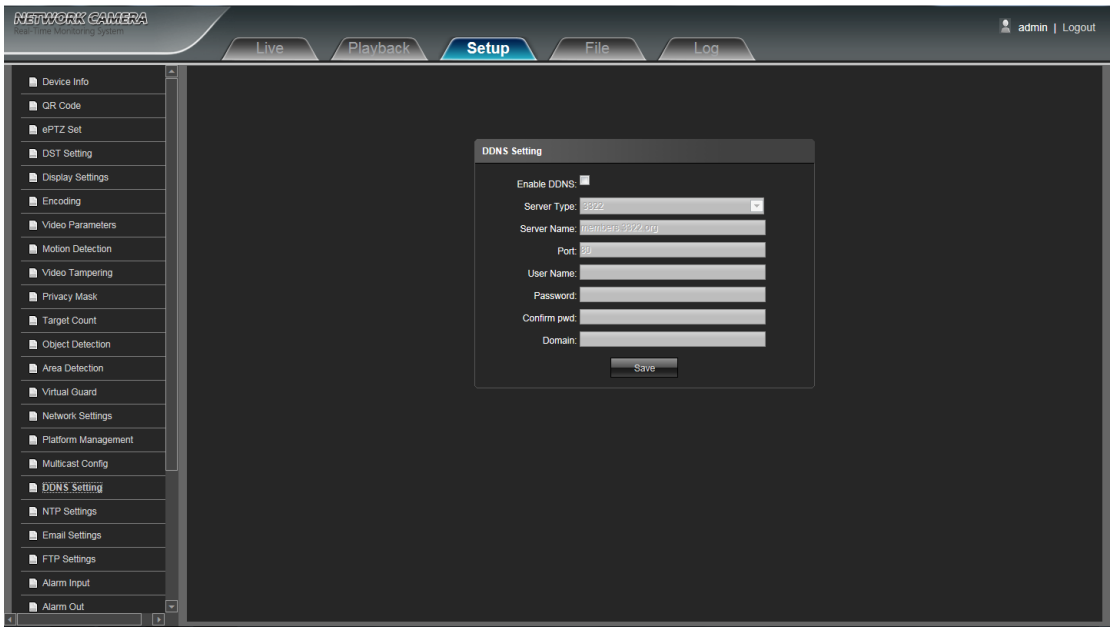
IP Camera Multicast Config interface as shown in the follow figure:



Multicast Config is in disable status by default. While click Enable Multicast, users can set the primary stream, sub stream, audio IP address, port, and TTL.

4.17 DDNS Setting

DDNS is implemented through a dynamic domain resolution server. It requires a PC running in the server with fixed IP address on the Internet. IP Camera DDNS setting interface as below figure:



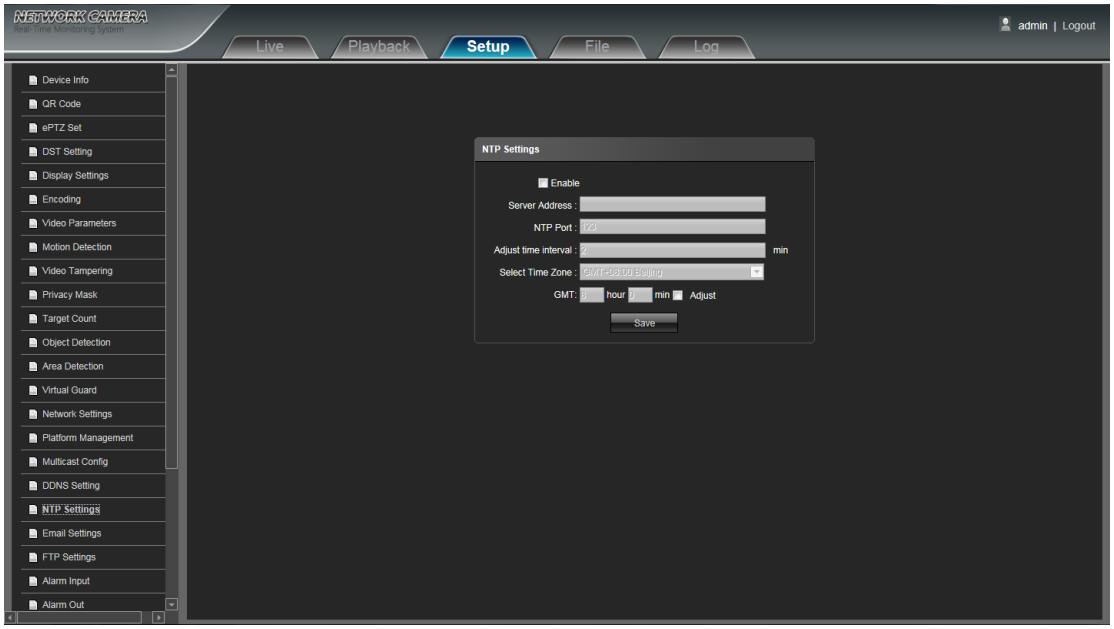
- **Enable DDNS:** Click to determine whether to use Dynamic Domain Name Server
- **Server Type:** Select DDNS server type (There are Dyndns/ PeanutHull/ NO-IP/ 3322/ DnsDynamic five types selectable)

- **Server Name:** Input server name, for example, members.3322.org
- **Port:** Input port No.（default is 80）
- **Username:** Input user name
- **Password:** Input password
- **Confirm pwd:** Input the password again to confirm it
- **Domain:** Input the standby domain

  After complete all parameters setting, click Save, then the settings will take effect immediately.

4.18 NTP Settings

IP Camera NTP Settings interface as shown in the follow figure:

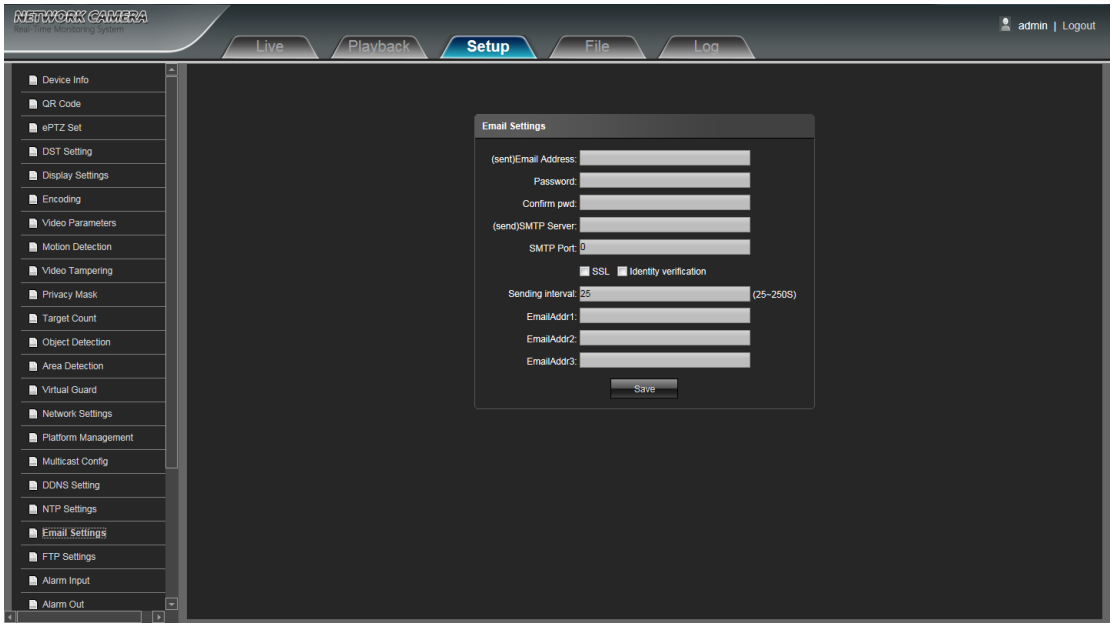


- **Enable NTP:** Enable or disable NTP function
- **Server Address:** Input NTP server IP address
- **NTP Port:** Default port is 123
- **Adjust Time Interval:** Input the interval time
- **Select Time Zone:** Different area time format selectable
- **GMT:** Adjust the time to make it more exact

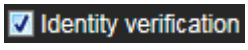
  After complete all parameters setting, click Save, then the settings will take effect immediately.

4.19 Email Settings

IP Camera Email Settings interface as shown in the follow figure:



- **(sent)Email Address:** Input the address of the outbox
- **Password:** Input the the password of the outbox
- **Confirm pwd:** Input the password again to confirm it
- **(send)SMTP Server:** Input the smtp server address of the outbox
- **SMTP Port:** Input the smtp server port of the outbox
- **Sending Interval:** Input the sending interval time
- **SSL/Identity verification:**Tick 

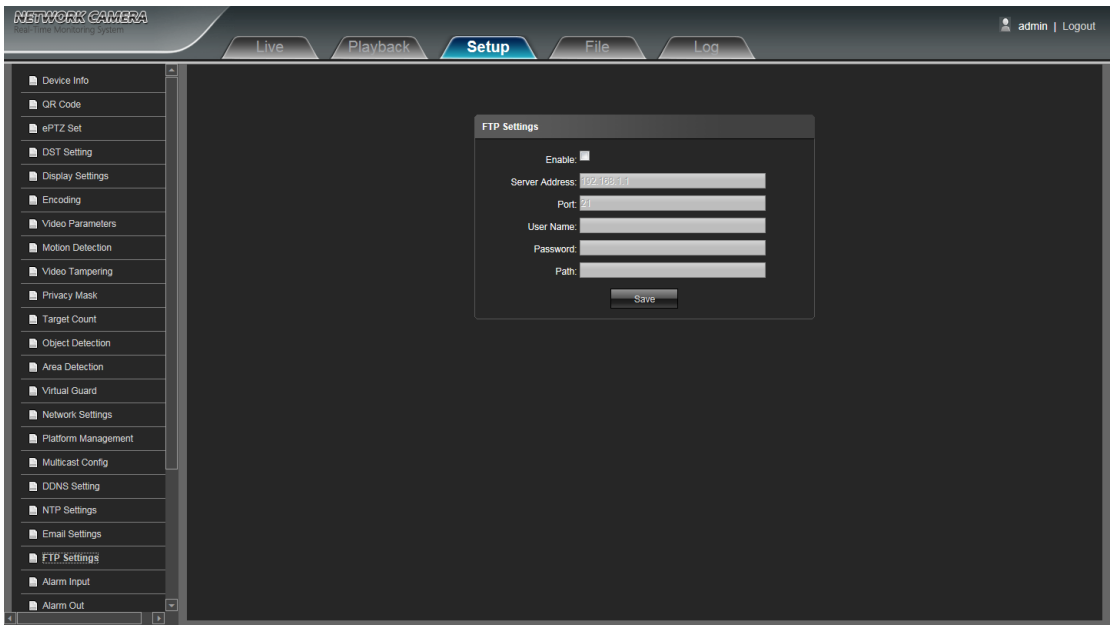
and 

to send the email correctly and safely
- **Sending Interval:** Input the sending interval time.
- **Email Address:** Input the address of the inbox, fill in the address of receiving email,and can fill in 3 address of receiving email

After complete all parameters setting, click Save and then the settings will take effect immediately.

4.20 FTP Settings

IP Camera FTP Settings interface as shown in the follow figure:

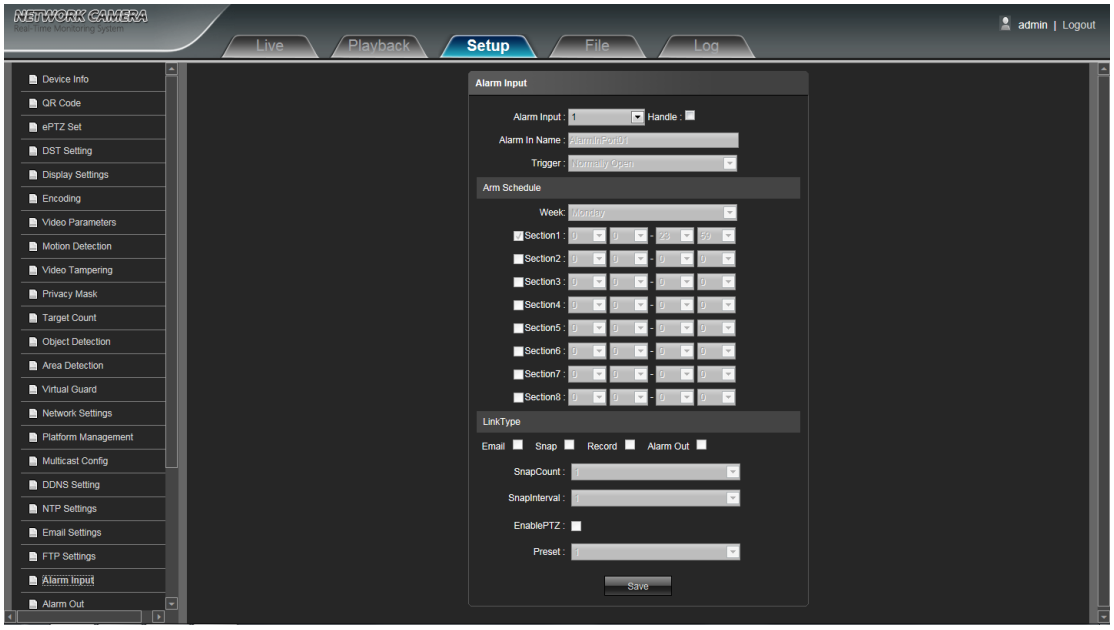


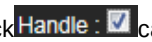
- **Enable:** Click Enable to enable or disable FTP function
- **Server Address:** Input the server address required to upload
- **Port:** Input the server port, default is 21
- **User Name:** Input the user name required to upload
- **Password:** Input the password required to upload
- **Path:** Input the file path required to upload

After complete all parameters setting, click Save and then the settings will take effect immediately.

4.21 Alarm Input

IP Camera Alarm Input setting interface as shown in the follow figure:



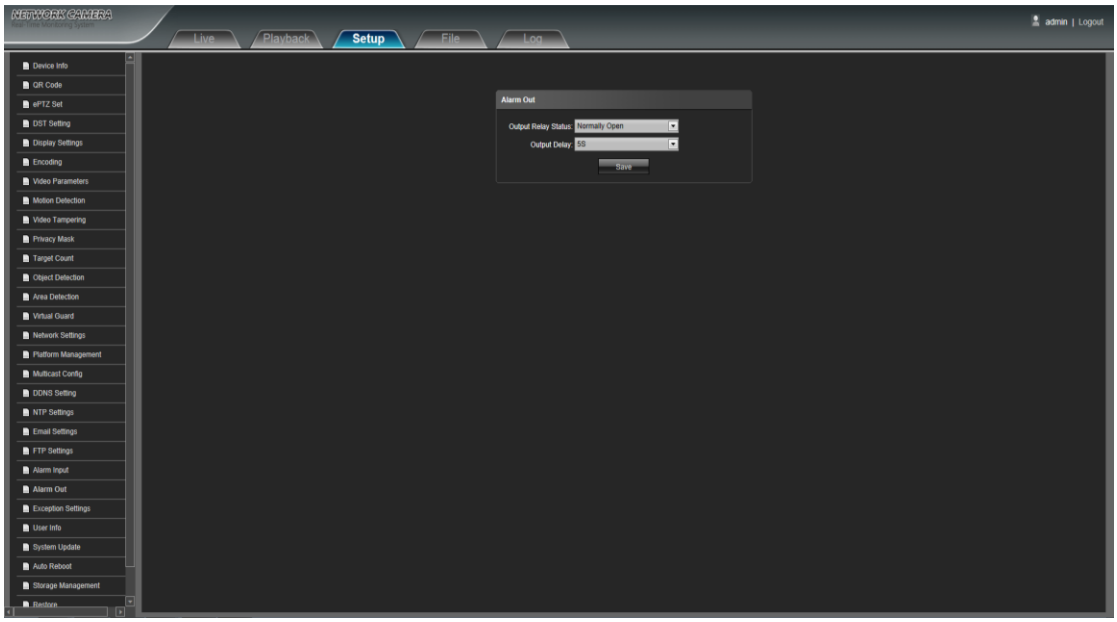
- **Alarm Input:** Select the alarm input port, Then click 

can implement follow parameters settings
- **Alarm In Name:** Input alarm input name
- **Trigger:** Select the alarm status: Normally Open/ Normally Close
- **Arm Schedule:** Alarm schedule can be set from Monday to Sunday
- **Email:** Click Email. Once alarm triggers that it will send Email to appointed mailbox
- **Snap:** Click Snap. Once alarm triggers that it will linkage camera to snapshot picture and store it in the TF card
- **Record:** Click Record. Once alarm triggers that it will linkage camera to record video and restore it in the TF card.
- **Alarm Output:** Click Alarm Output. There is a active warner connected to the alarm output port. Once alarm triggers that it will linkage embedded relay switch to make alarm output
- **Snap Count:** Set the snapshot image count for every time
- **Snap Interval:** Set the snapshot interval time
- **Enable PTZ:** Enable or disable PTZ function
- **Preset:** When alarm input triggers alarm, it will linkage the presets

After complete all parameters setting, click Save, the settings will take effect immediately.

4.22 Alarm Out

IP Camera Alarm Out setting interface as shown in the follow figure:

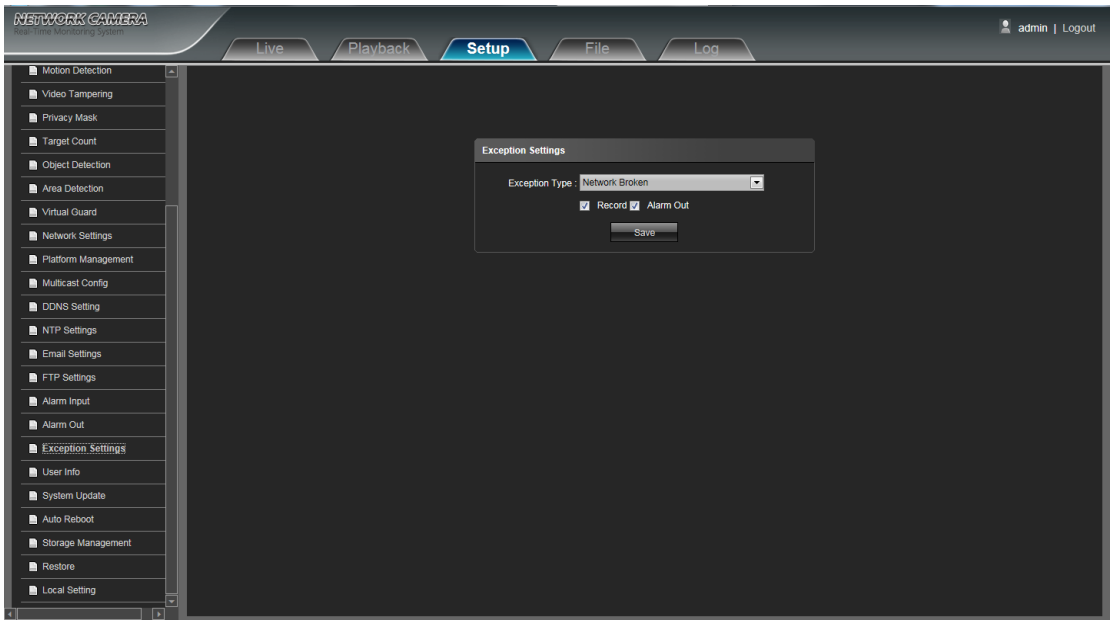


- **Output Relay Status:** Normally Open/ Normally Close selectable
- **Output Delay:** Select the alarm output delay time(when alarm trigger is over, it will output corresponding alarm delay time)

After complete all parameters setting, click Save and the settings will take effect immediately.

4.23 Exception Settings

IP Camera Exception Settings interface as shown in the follow figure:

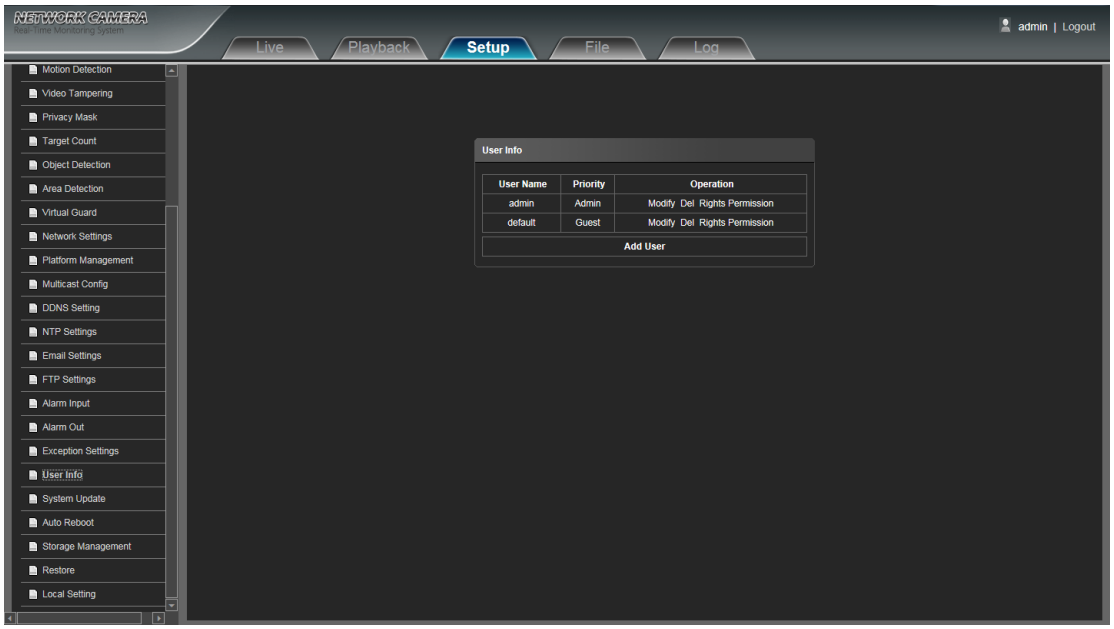


- **Exception Type:** There are Network Broken/ IP Address Conflict/ Illegal Access/ three exception types selectable
- **Record:** Click Record, it will linkage to record video as any exception type triggers
- **Alarm Output:** Click Alarm Output, it will Linkage other alarm devices as any exception type triggers

After complete all parameters setting, click Save and then the settings will take effect immediately.

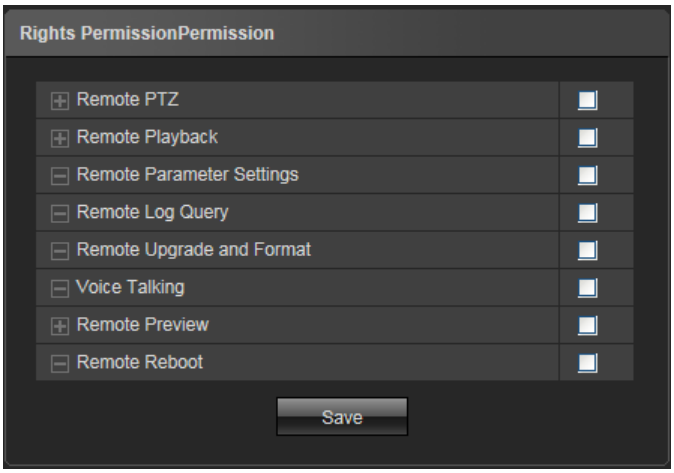
4.24 User Info

IP Camera User Info setting interface as below figure, admin is the administrator (default), default indicates general users.



- **Modify:** Administrator account can modify login password, while general users can modify user type including Guest, Operator two options, and setup different permission assignment in the Rights Permission settings
- **Del:** Delete the new user
- **Rights Permission:** Set rights permission assignment for new user
- **Add User:** Add a new user in need

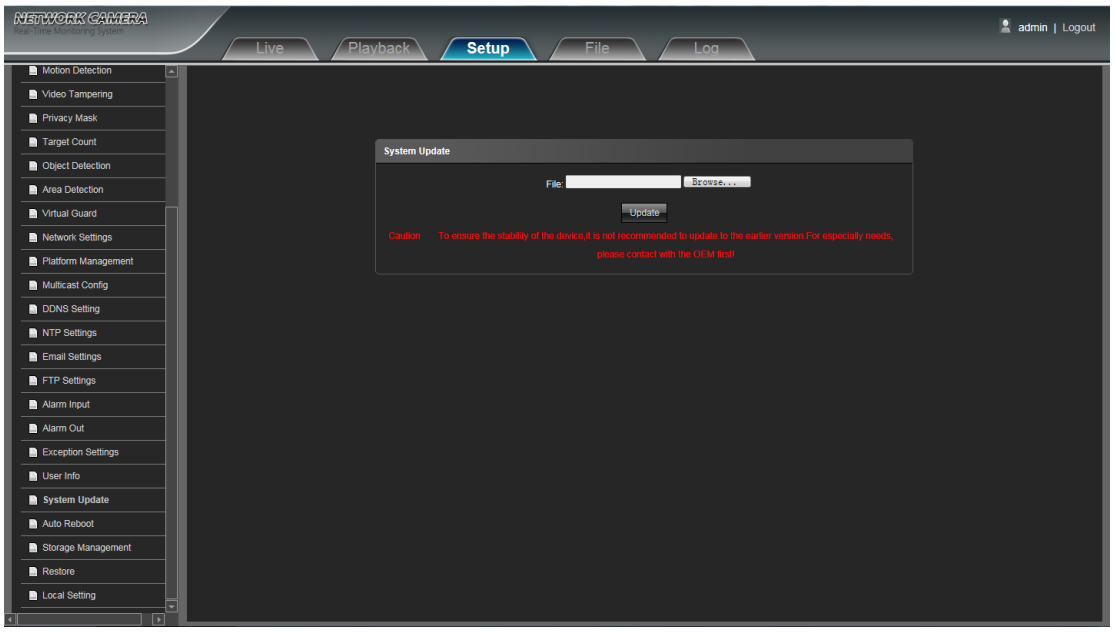
Start up and login permission is accord with default user permission(default), as shown in the follow figure:



After complete all parameters setting, click Save and then the seetings will take effect immediately.

4.25 System Update

IP Camera System Update setting interface as shown in the follow figure:

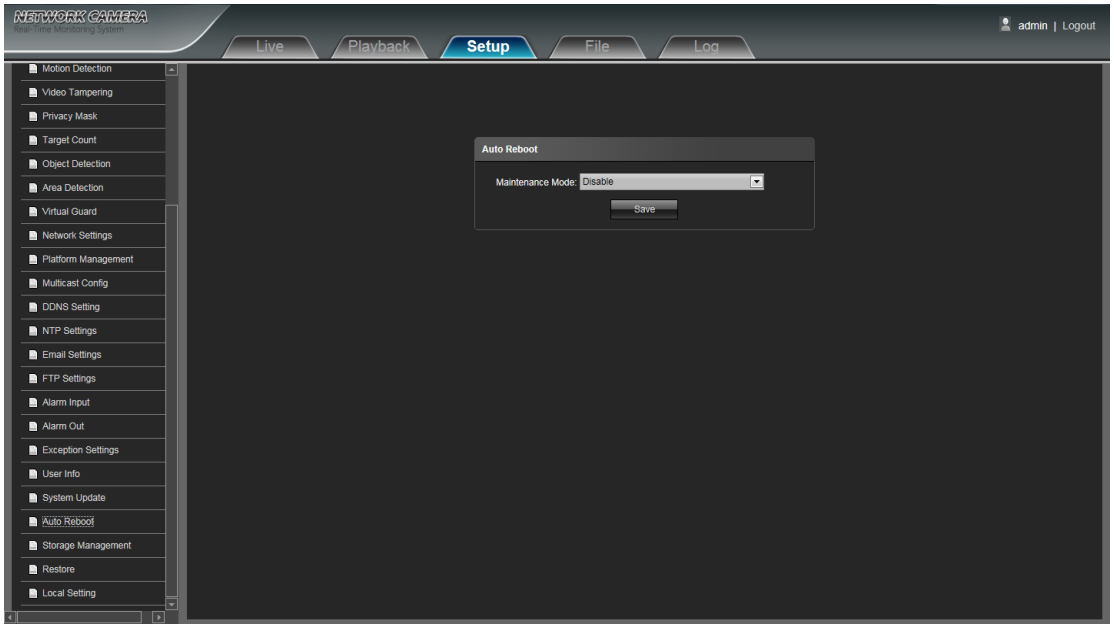


- **File:** Click Browse to find and select the upgrade kit, then click Update.

Non-technician should not try to operate system upgrade, do not cut off the power during upgrade process.

4.26 Auto Reboot

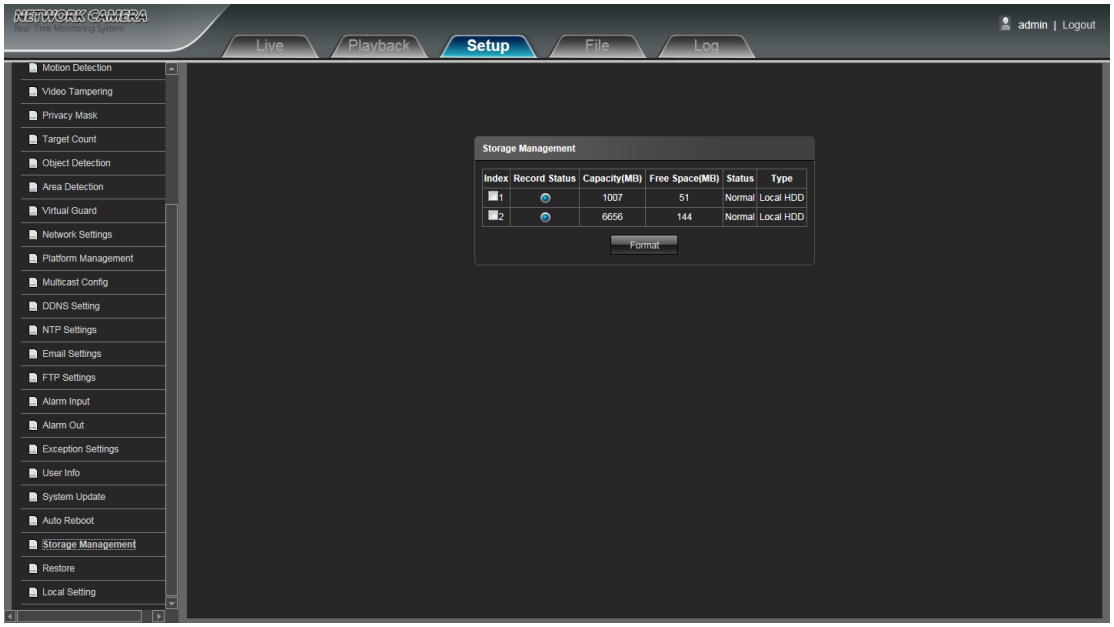
IP Camera Auto Reboot setting interface as below figure. There are Disable/ Every Day/ Every Week/ Once four modes optional, Select Maintenance Mode, then IPC will reboot as appointed mode.



4.27 Storage Management

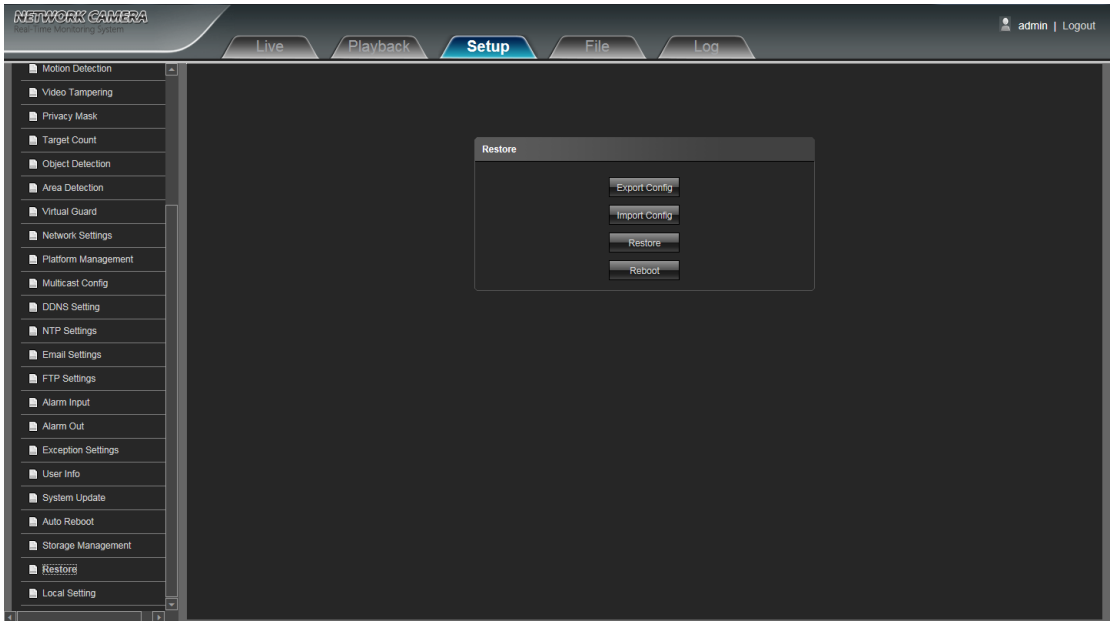
IP Camera Storage Management setting interface as below figure, you can check current TF card Capacity(MB)/ Free Spare (MB)/ Status, and format TF card. As shown in the follow figure:

Note: Please turn off the power supply, before you insert or take out the TF card.



4.28 Restore

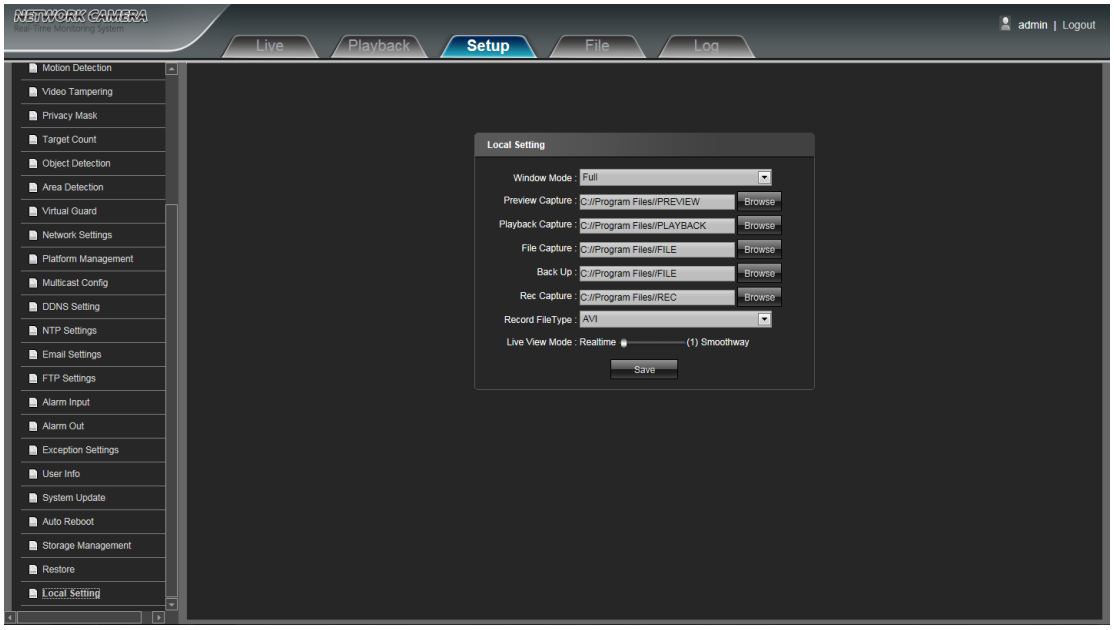
IP Camera Restore setting interface as shown in the follow figure:



- **Export:** Export all configurations to PC or USB
- **Import Config:**Import selected configuration to the system
- **Restore:** Restore the factory settings
- **Reboot:** Reboot the device

4.29 Local Setting

IP Camera Local Setting interface as shown in the follow figure:

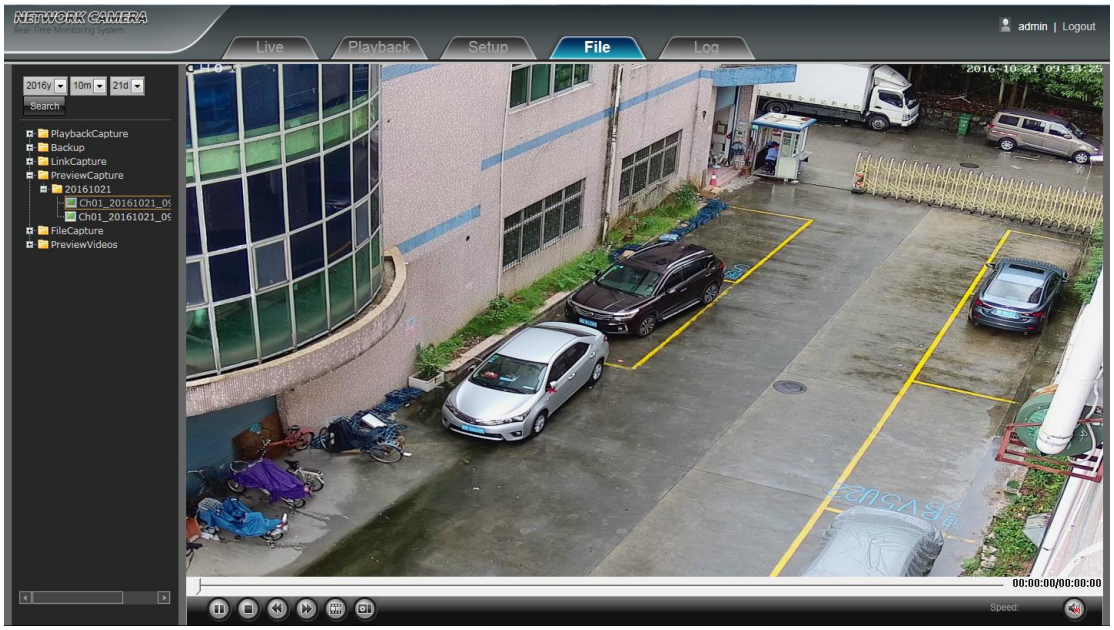


- **Window Mode:** Set the preview window mode(Full/ 4:3/ 16:9/ Original Image optional)
- **Preview Capture:** Select and modify the preview capture file storage path
- **Playback Capture:** Select and modify the video record capture file storage path
- **File Capture:** Select and modify the file management capture file storage path
- **Back Up:** Select and modify video record backup file storage path
- **Rec Capture:** Select and modify the preview interface video record file storage path
- **Record File Type:** Only AVI format one option for default
- **Live View Mode:** Realtime/ Smoothway two types selectable, the value of them can be adjustable

After complete all parameters settings, click Save and then the settings will take effect immediately.

5. File Management

Note:the inserted TF card is for full function display interface, otherwise, it's for simple type interface.

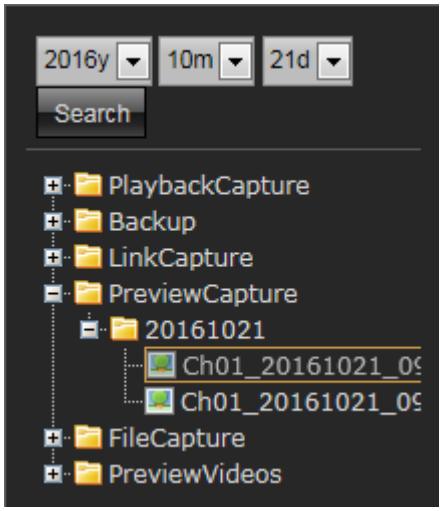


5.1 Search

Input the concrete time, and click the 

button, the lower part displays searched images and videos (double click to display files)

Note: It can modify video or image storage path, and later chapter will make a brief instruction (more details please refer to Setup➔Local Setting)



5.2 Playback Capture

To review video record playback capture files, search and double click the image files directly.

5.3 Backup

To review playback video files, search and double click the video files directly.

5.4 Linkage Capture

To review motion detection, tampering alarm, alarm output, ect. alarm linkage capture files, search and double click the image files directly.

5.5 Preview Capture

To review preview capture files, search and double click the image files directly.

5.6 File Capture

To review capture files in file management, search and double click the image files directly.

5.7 Preview Videos

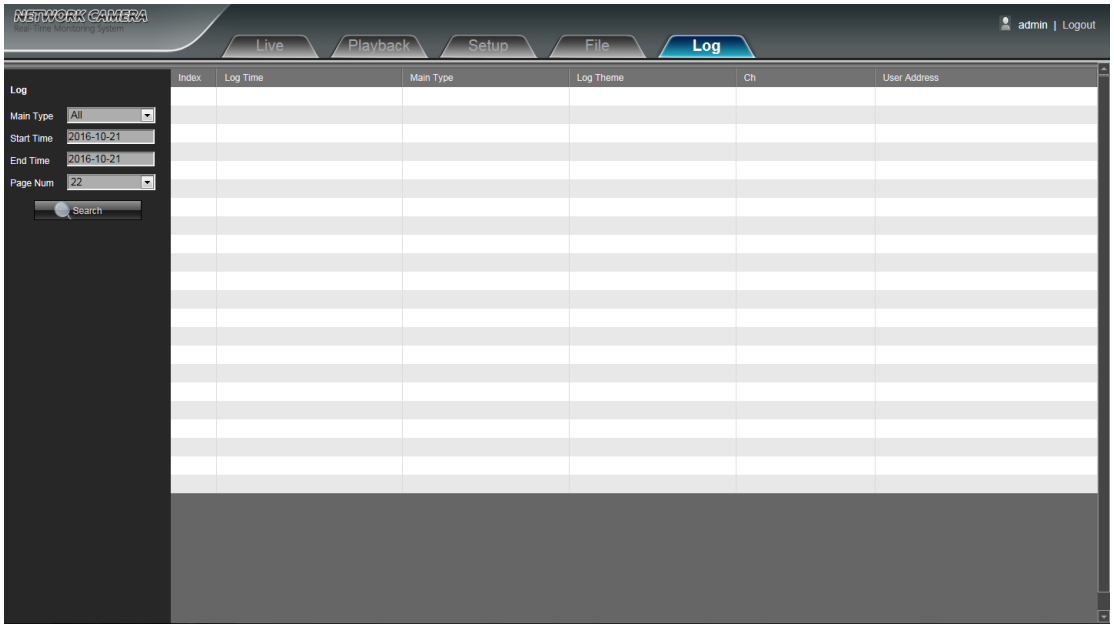
To review preview interface video record files, search and double click the video files directly.

5.8 Backup Video Play

- **Start:** Click  button to play the backup video image file
- **Stop:** Click  button to stop the play
- **Slow:** Click  button to slow play the backup video image file
- **Fast:** Click  button to fast play the backup video image file
- **Frame:** Click  button to play the backup video image file by frame
- **Capture:** Click  button to snap the backup video image during display
- **Voice:** Click  button to select turn on/ off the voice during backup video image display

6. Log

Click Search on the Log interface, check device log according to the video type and date time, as shown in the below figure:



- **Main Type:** Select the log type to check. There are Alarm/ Exception Settings/ Operation / Setup optional, or click All to check all types of them
- **Start Time/ End Time:** Select the time quantum of log to check
- **Page Num：** Select the log number of each page to display on the interface

After finishing all settings above, click Search and then the log information will display on the left blank area

7. Exit

Click Logout to log out, as shown in the follow figure: