**Network camera batch configuration system**

**Product Manual**

**V3.0**

**Statement**

Thank you very much for purchasing our products. If you have any questions or needs during the use, please feel free to contact us.

This manual is written according to the current software and hardware. Due to the update, modification and upgrade of the software version, and the upgrade of the hardware device, the technical problems described in the manual may be inaccurate or imperfect. Please understand. If you cannot solve the problem according to the manual during use, please call our technical department for relevant operation methods. The manual will be updated regularly. If necessary, please go to our official website for download without prior notice.

Tips

Recommended PC basic configuration: CPU quad core 3.0GHz, 4G memory, 512M discrete graphics, 2.1 sound card, Audio output, MIC input, WindowsXP/7/8/10

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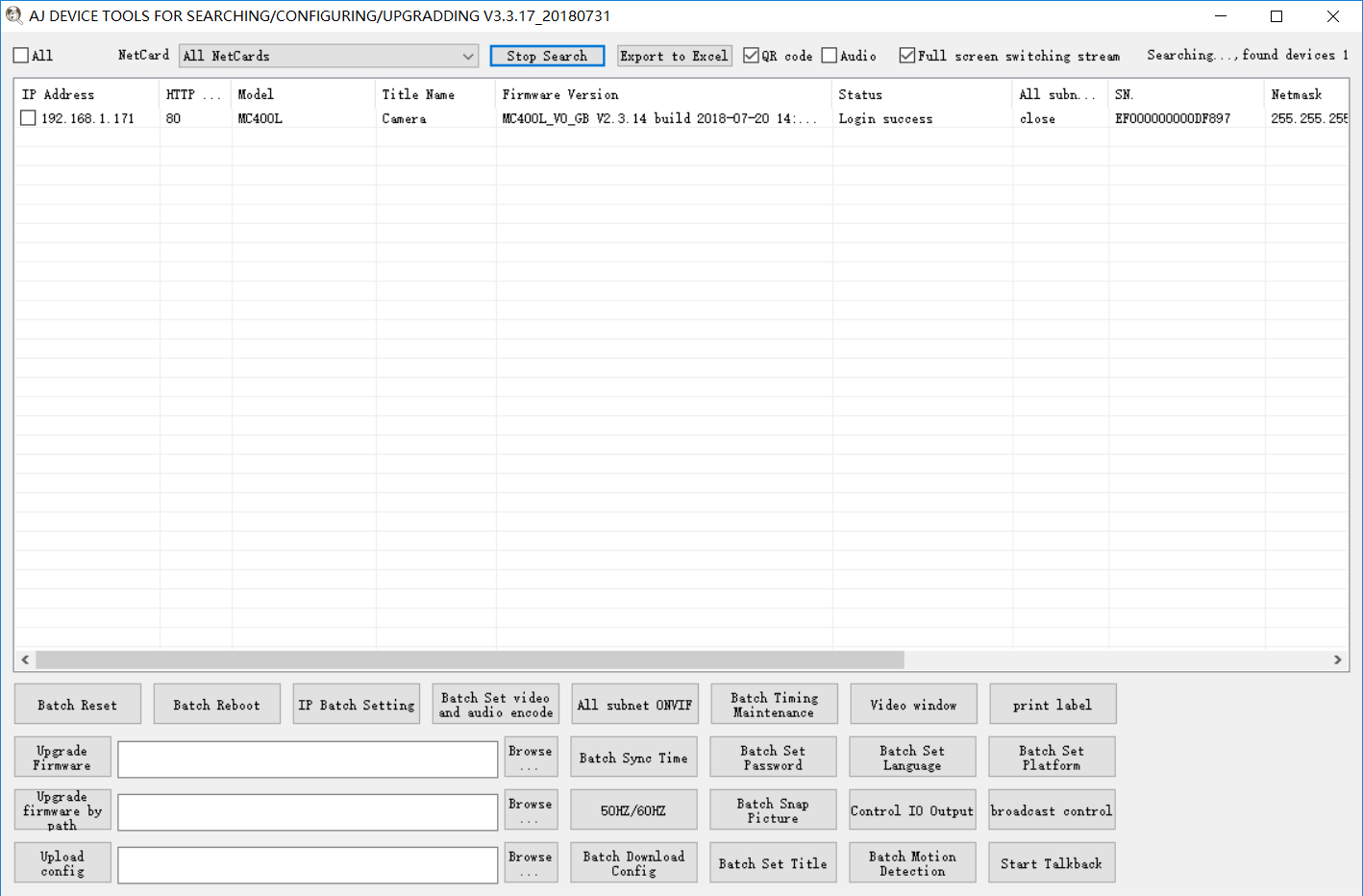
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# 

# Product Introduction

The network camera batch configuration system utilizes a control port or a data transmission port reserved by a network camera in the same local area network to conveniently and individually control the functions of the camera. The system uses the industry's most advanced coding technology to enable real-time preview playback of video at the lowest network bandwidth consumption. The product integrates camera control and video transmission, and is convenient, fast, easy to use, and full-featured.



**AJ device search / IP configuration / upgrade tool main interface schematic**

# system features and uses

## System composition and function characteristics

The system consists of one or more network cameras and PC client software. The PC client software searches for network cameras in the LAN and can remotely configure the network cameras to implement image preview, network settings, media settings, and alarm detection. , storage settings and other functions, with convenient, easy to use, full-featured features.

## Main uses

The configuration tool highly integrates LAN communication technology, high-definition audio and video acquisition codec technology, and realizes high-definition video capture, front-end monitoring visualization, and remote command real-time. Remote configuration software for mobile or fixed point monitoring equipment.

# Topology and main technical indicators

## Topology diagram



## Main function indicators

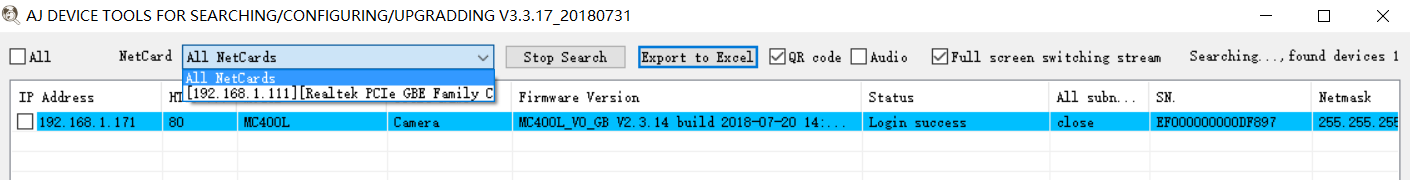
* Windows XP SP3 and above, support wired or wireless connection
* Webcam, ≥1 million pixels
* H264 encoding, the main code stream bit rate is 500-9999kbps, sub-stream bit rate 50-2000kbps

# Camera batch parameter configuration and firmware upgrade

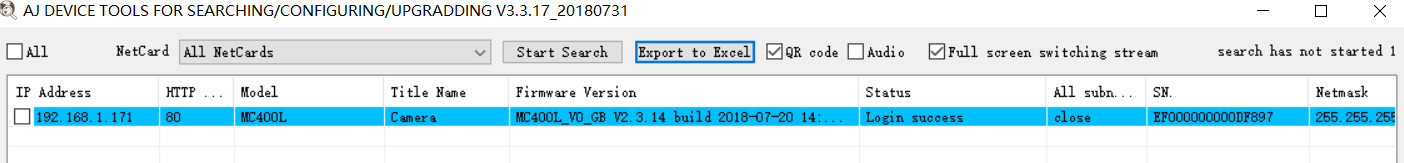
## Batch parameter setting

### Specifying NIC Device Search

Open the client software after the PC is successfully connected to the same network as the device. , Choose a network card or all network cards:

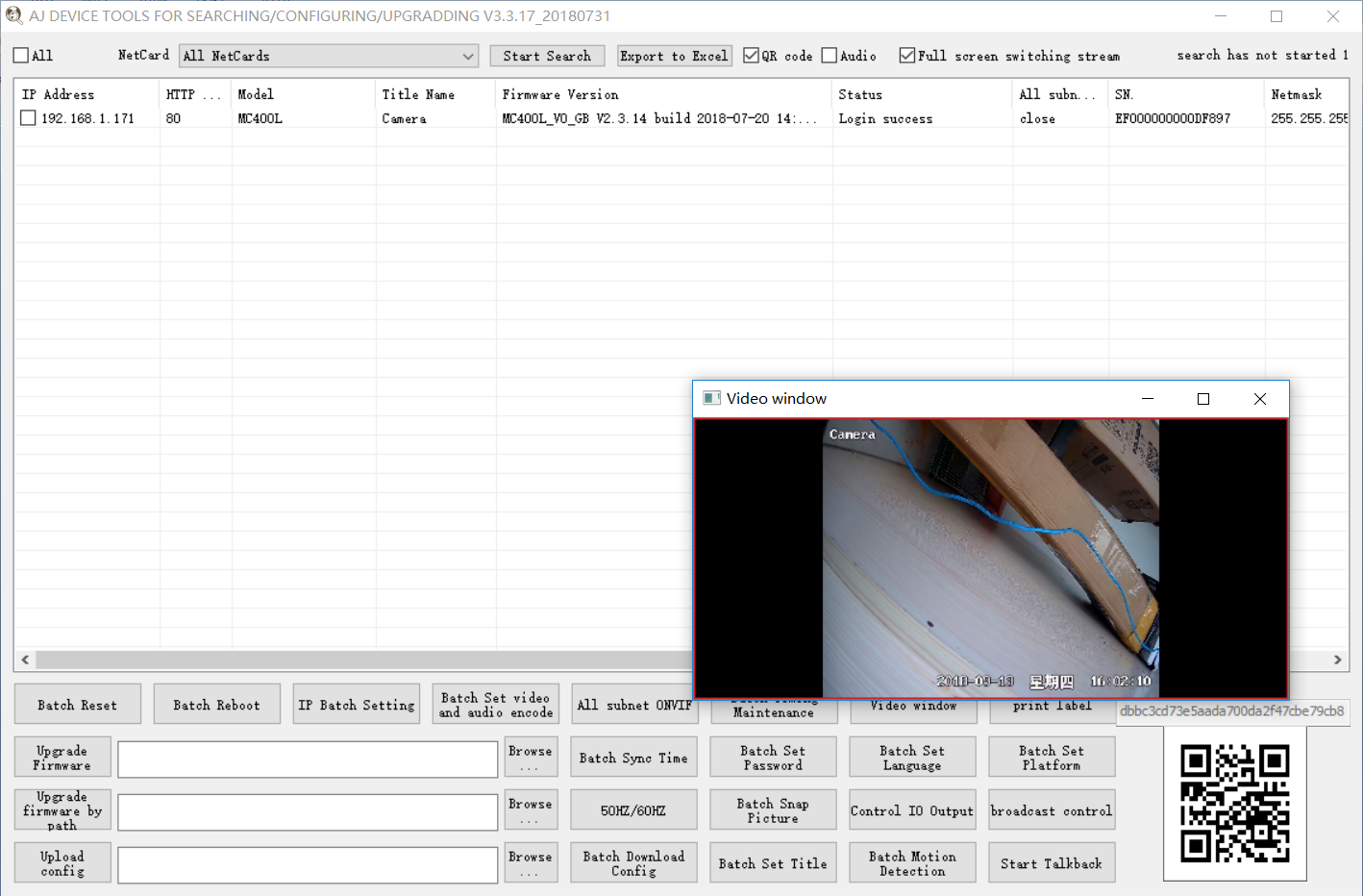


click It will automatically start searching for our equipment in the LAN where the network card is located. The search results are as follows:



### Device Preview

Double-click the device in the search result list to pop up the playback window of the video live stream corresponding to the device substream:

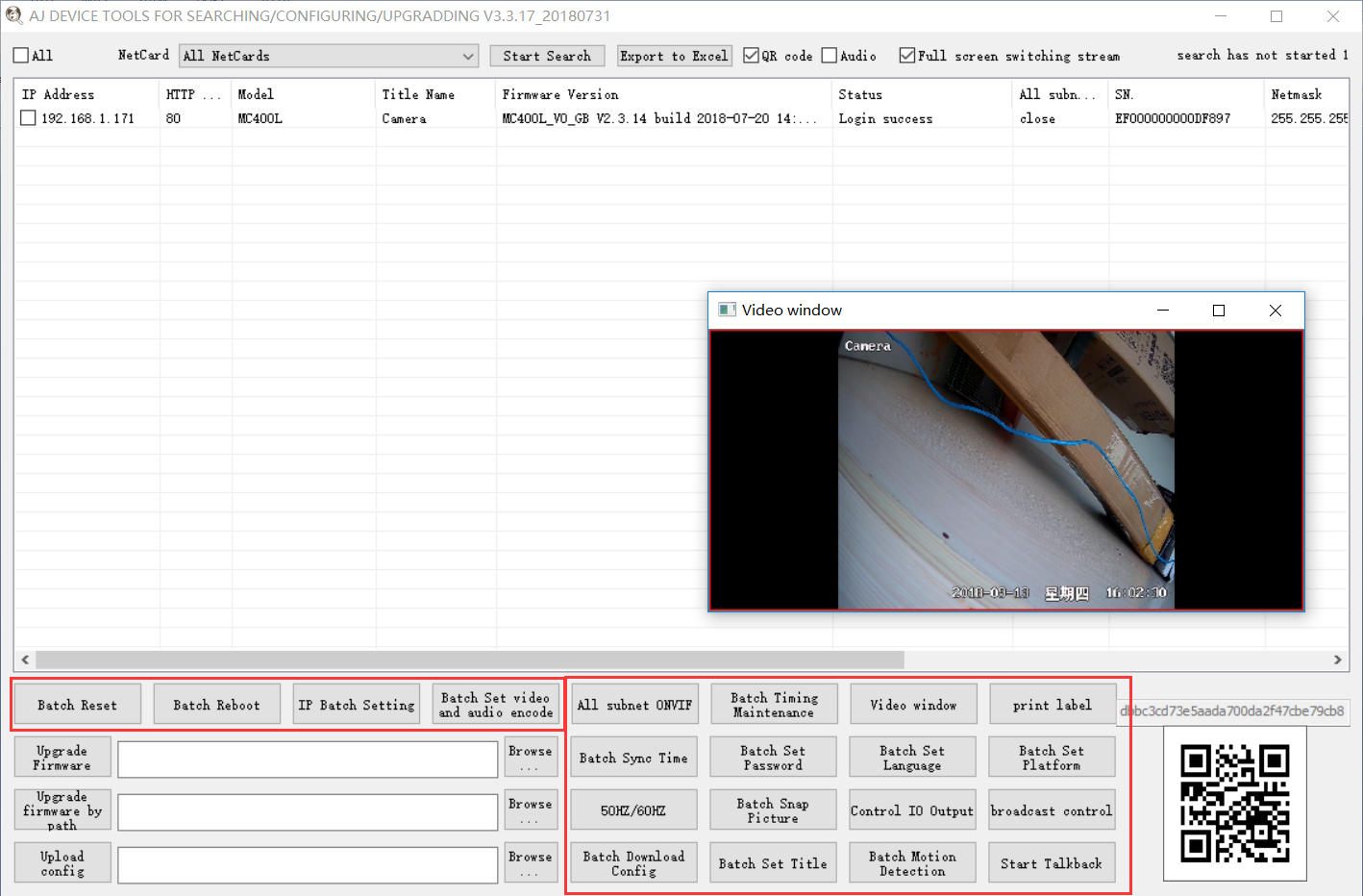


Double clicking on this window will switch to full screen display. If “Audio” is checked at the top of the software, there will be a sound preview effect; if “Full Screen Switching Stream” is selected, when switching to full screen, the video of the main stream will be displayed first.

In the blank area of the right button, you can select 2\*2 3\*3 4\*4 4\*5 5\*5 video window to play and play with one button.

### Batch Settings of Devices

In actual use, there may be multiple devices that need to be configured. After selecting multiple devices to be configured on the main interface of the AjDevTools tool, you can use these batch configuration function buttons to implement multiple configuration functions, such as batch recovery. Settings, batch restart, batch configuration of IP, etc. As shown in the red box:

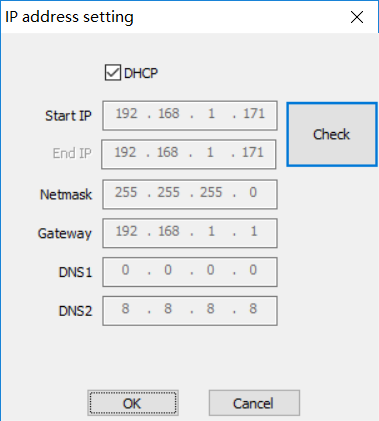


The left-to-right and top-to-bottom buttons in the red box function as follows:

1. ： Let the settings of the checked device be restored to the factory state.
2. ： Let the checked device restart.
3. ： Configure the IP address of the selected device

（1）Manually assign IP in batches

Let the selected device get an IP from the "starting IP" respectively. The setting interface is as follows:



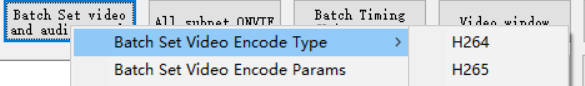
For example, the first device is assigned IP to 192.168.1.160, the second device is assigned to 192.168.0.161, and so on.

(Note: The first three buttons only work in the "search" device state, because the implementation of their functions is configured through broadcast packets, which is an unreliable way.)

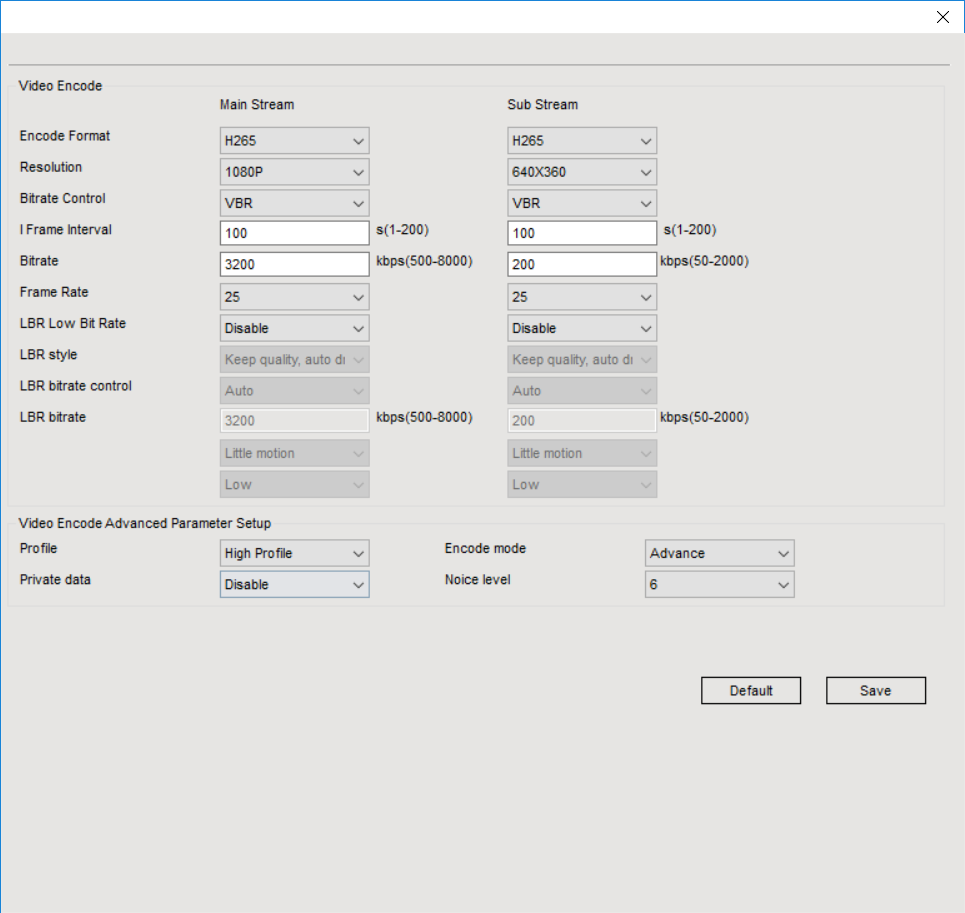
（2）This option allows you to automatically modify the IP address directly based on the router. (This item must be enabled by opening the DHCP function in the router)

1. Batch modify the encoding parameters for the selected device

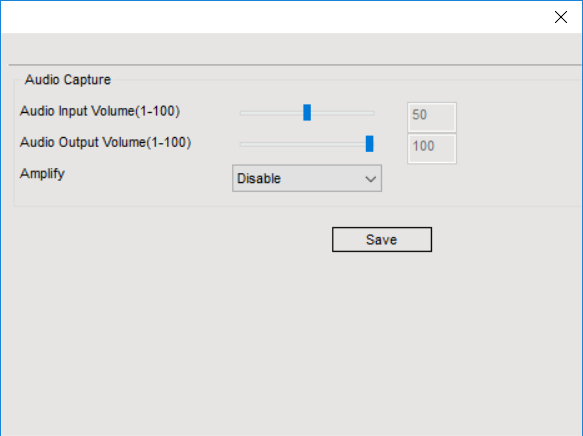
（1）Change video encoding type in bulk

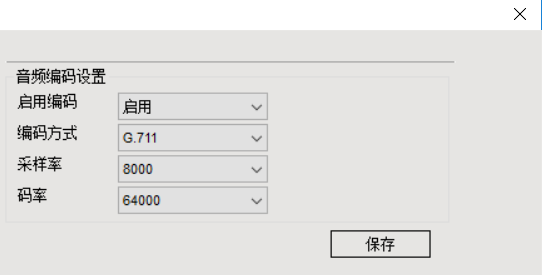


1. Configure the video encoding detailed parameters in batches. The setting interface is as follows:

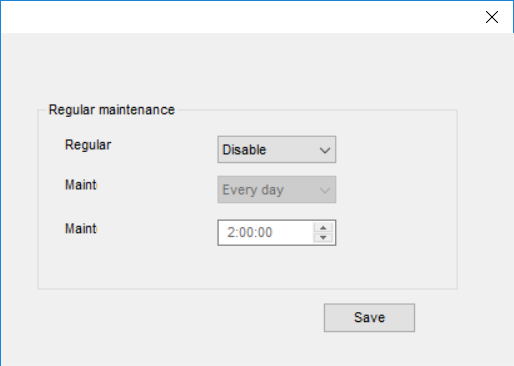


1. Batch configuration audio collection settings, parameters are as follows

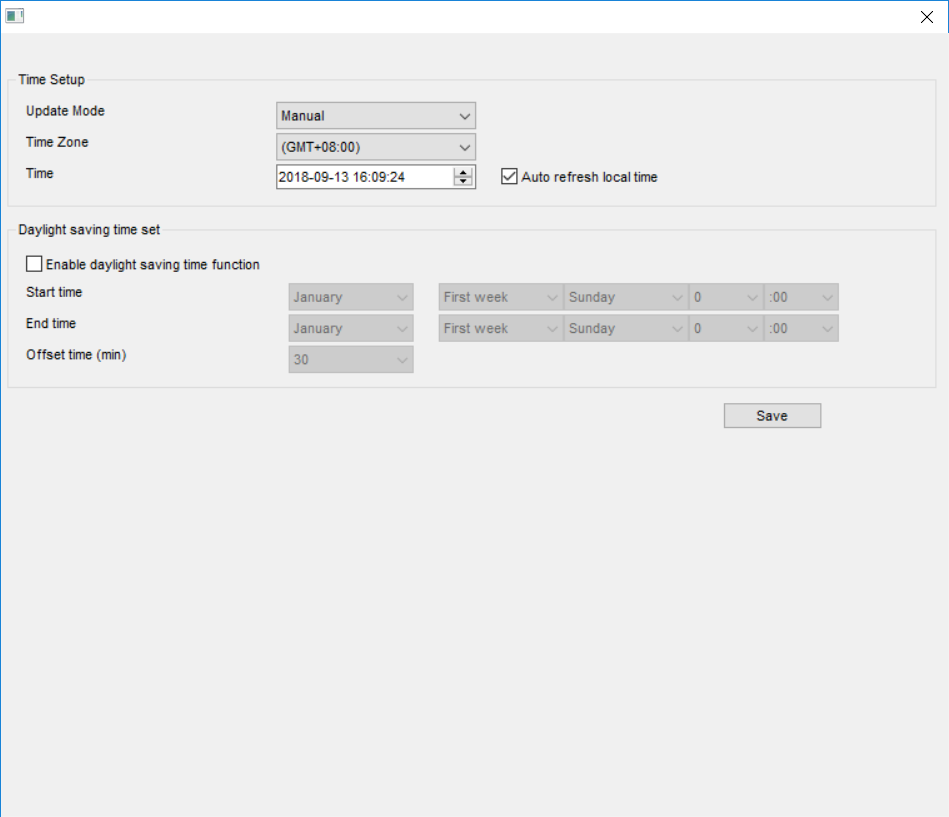


(4) Batch configuration audio coding settings, parameters are as follows

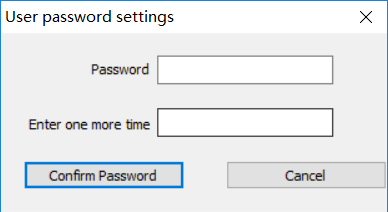
1. ： Enable or disable full Netcom in batches
2. ： Modify the automatic restart time of the device in batches for the selected device. The setting interface is as follows:



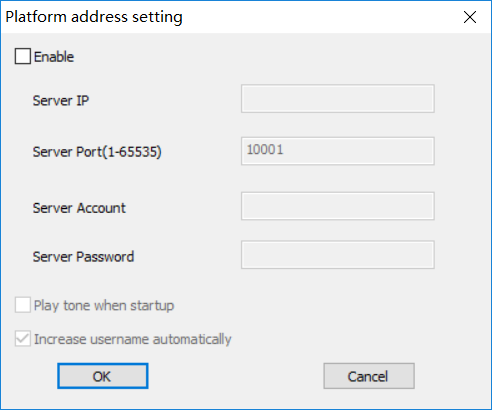
1. ： Modify multi-screen display
2. ： Print the label of a single device, set as follows
3. ： Batch setting the time of the selected device and synchronizing the local time



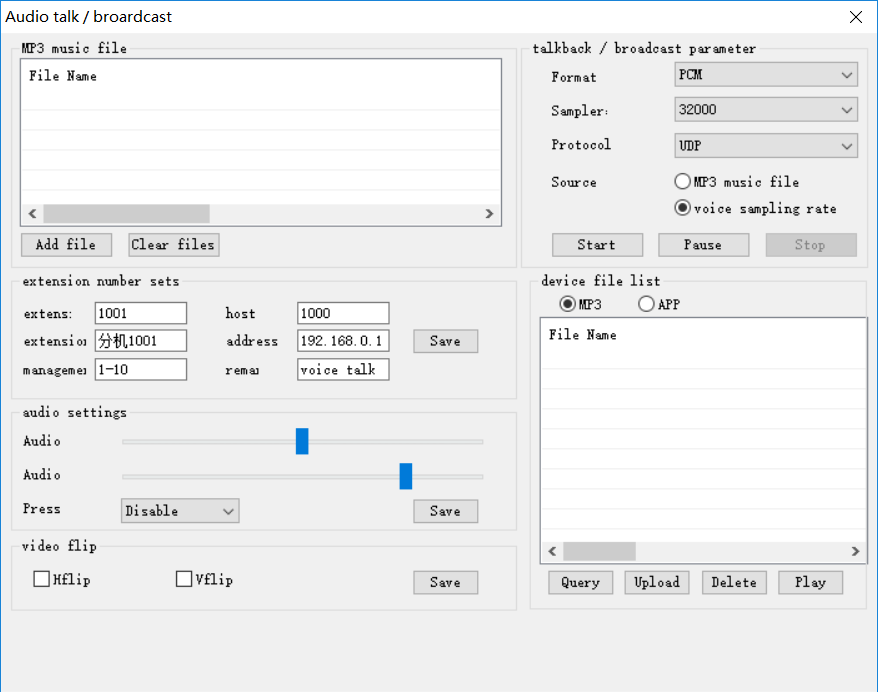
1. ： Modify the user password in batches, as shown below:



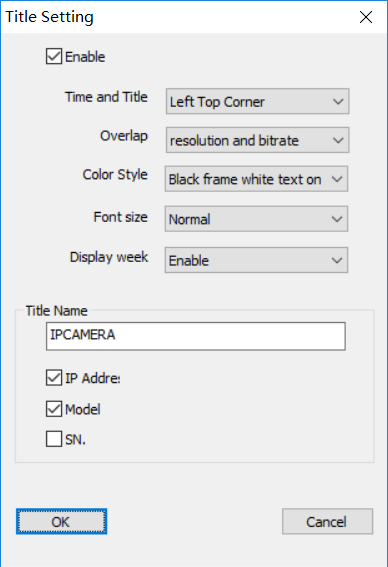
1. ： Configure the language of the selected device in bulk. They are English, Simplified Chinese and Traditional Chinese.
2. ： Set the platform address and port in batches for the selected device. The setting interface is as follows:



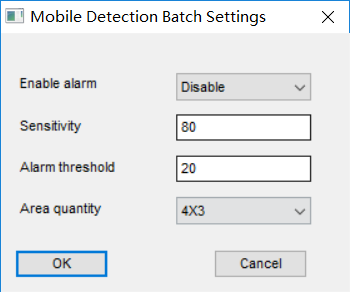
1. ： Batch configuration of the selected device's system P system and N system.
2. ： Capture real-time images of selected devices in batches.
3. ： Modify the selected device alarm output switch in batches.
4. ： Broadcast the device configuration, the parameters are as follows:



1. ： Download the webcam system's configuration file to the local.
2. ： Set the title display mode on the camera output video in batches. The setting interface is as follows:



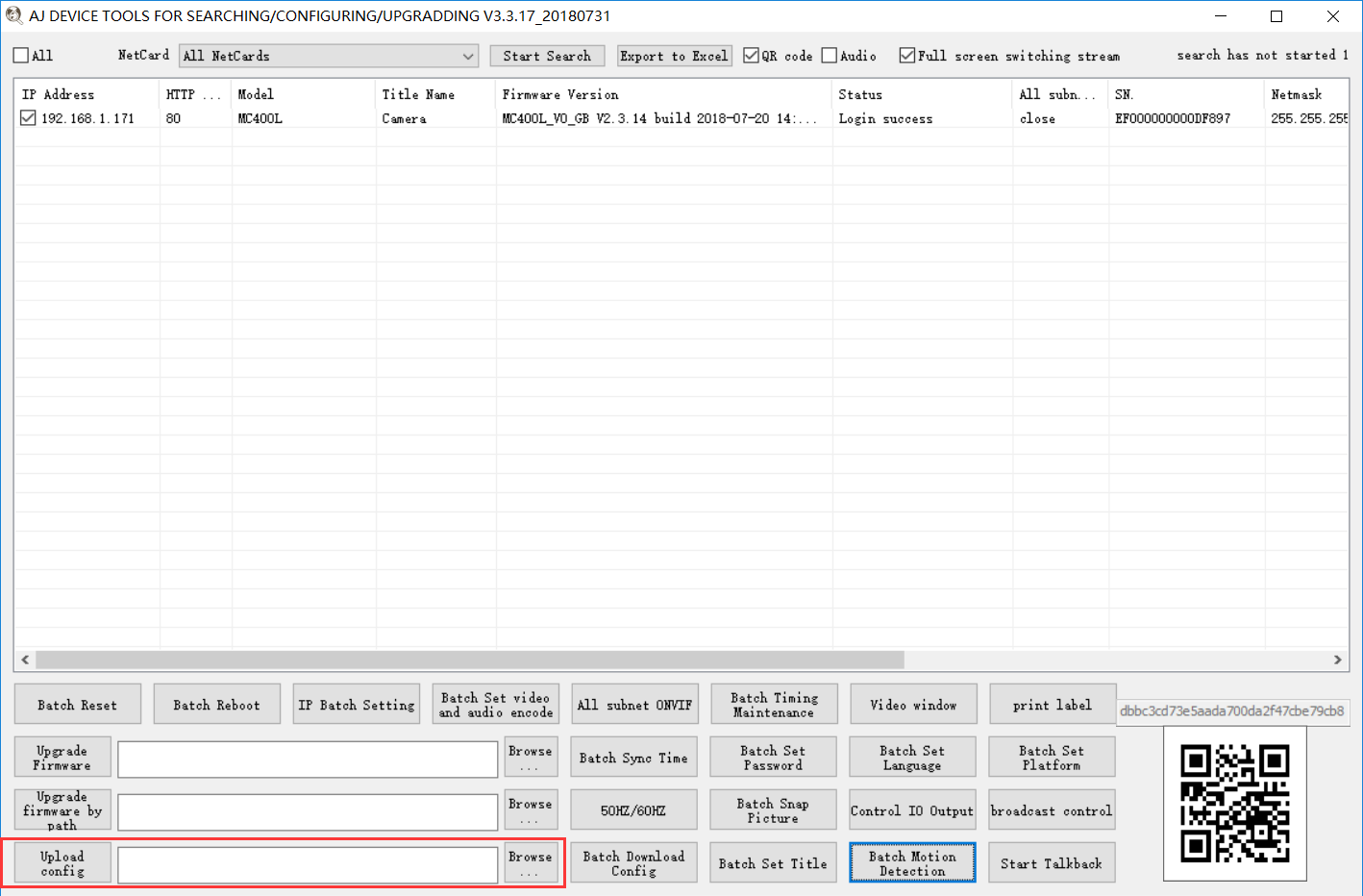
1. ： Modify the motion detection function of the selected device in batches, as shown in the following figure:



1. ： Select the corresponding video window to start the intercom

### Batch Configuration with Configuration Files

Check the devices that need to be configured in batches. Locate the settings at the bottom of the software main interface. The red box is as follows:

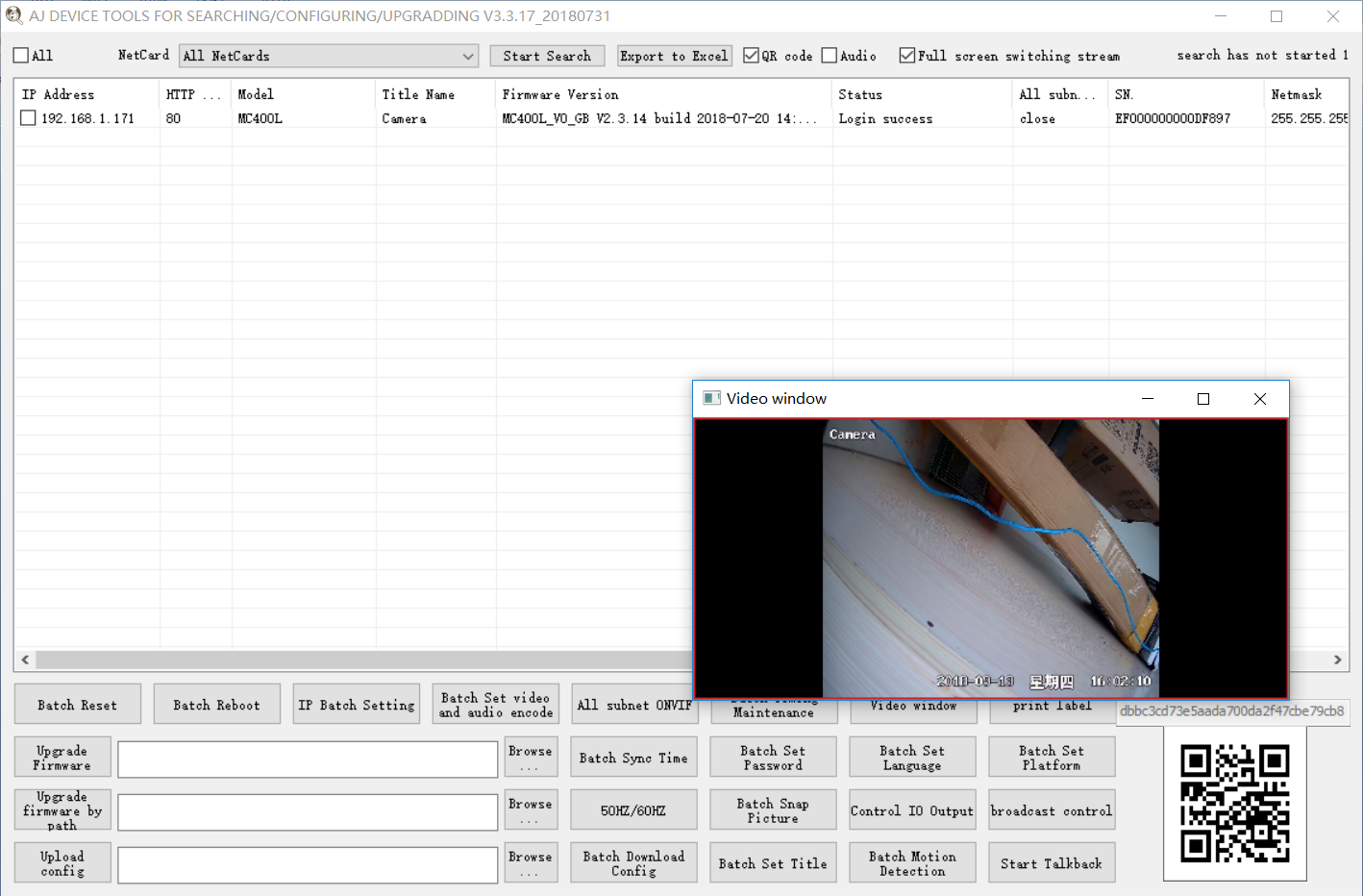


click ， Find the modified configuration file with xml and click on the left side. ，that will do。

## Firmware upgrade

### Select the device you want to upgrade

If you cannot identify the device that needs to be upgraded from the list, you can double-click an item in the list and the video of the corresponding device will appear in the video playback window. To stop the video playback, click the video playback window to close it.



### Directory Upgrade Method

The directory upgrade method is suitable for upgrading multiple devices of different models at the same time. If the latest firmware that needs to be upgraded is stored in the desktop folder，clickright button，choose the file，The result is as follows：



After selecting the device to be upgraded in the device list above，click button，A batch upgrade of the selected device is available.

### File Upgrade Mode

The file upgrade method is suitable for firmware upgrade of a single model device.Clickthe right button，Select the full path to the location of the latest firmware, and the final result is as follows:



After selecting the device to be upgraded in the device list above, click button，A batch upgrade of the selected device is available.

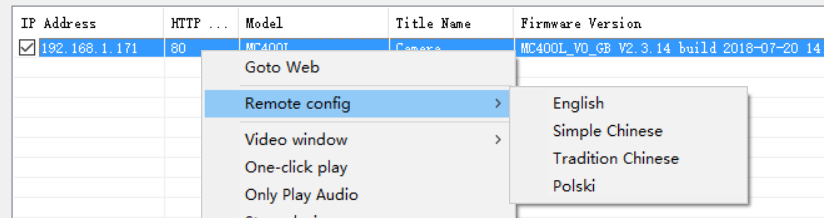
Note：

Before upgrading, be sure to ensure power supply to avoid equipment damage caused by power failure during the upgrade process.

# Single camera remote configuration

## Configuration Interface Entry

In the main interface of the configuration tool, right-click the device you want to configure and select the Remote Configuration item from the pop-up menu:



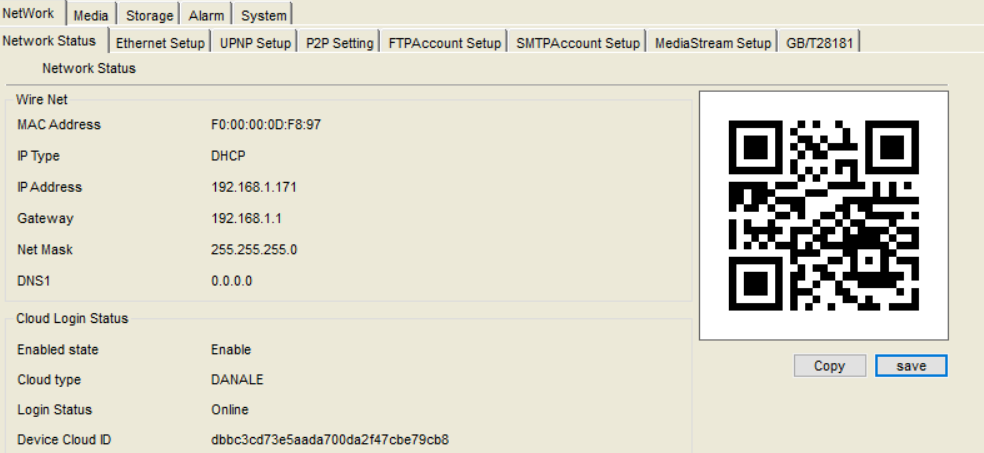
The following configuration interface pops up. The left page displays the current network status, and the right side displays the QR code image to be used when P2P connection:



## Network Settings

**Ethernet settings**

Click "Ethernet Settings" to enter this page, you can set the device's IP, gateway, DNS and other parameters, as shown below:



### UPNP Settings

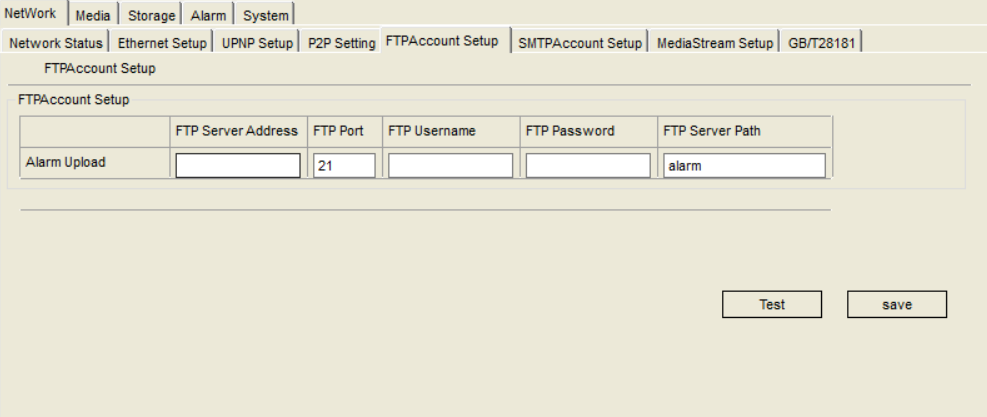
Click "UPNP Settings" to enter this page, you can set whether the device UPNP is enabled or not.

### P2P Settings

Click “P2P Settings” to enter this page, you can set whether the device P2P is enabled or not.

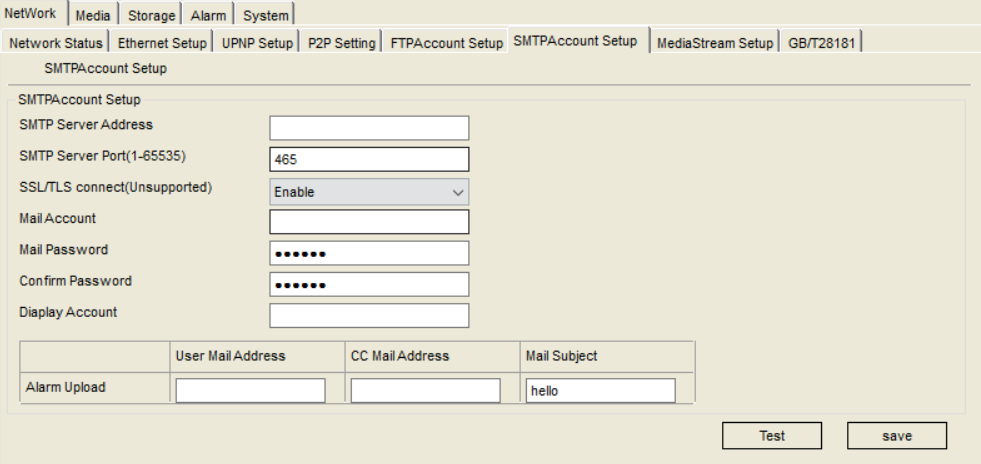
### FTP Settings

In this setting item, fill in the basic information of the FTP server, and then automatically upload the video or captured image, log, and configuration of the alarm to the FTP server. The configuration interface is as follows:



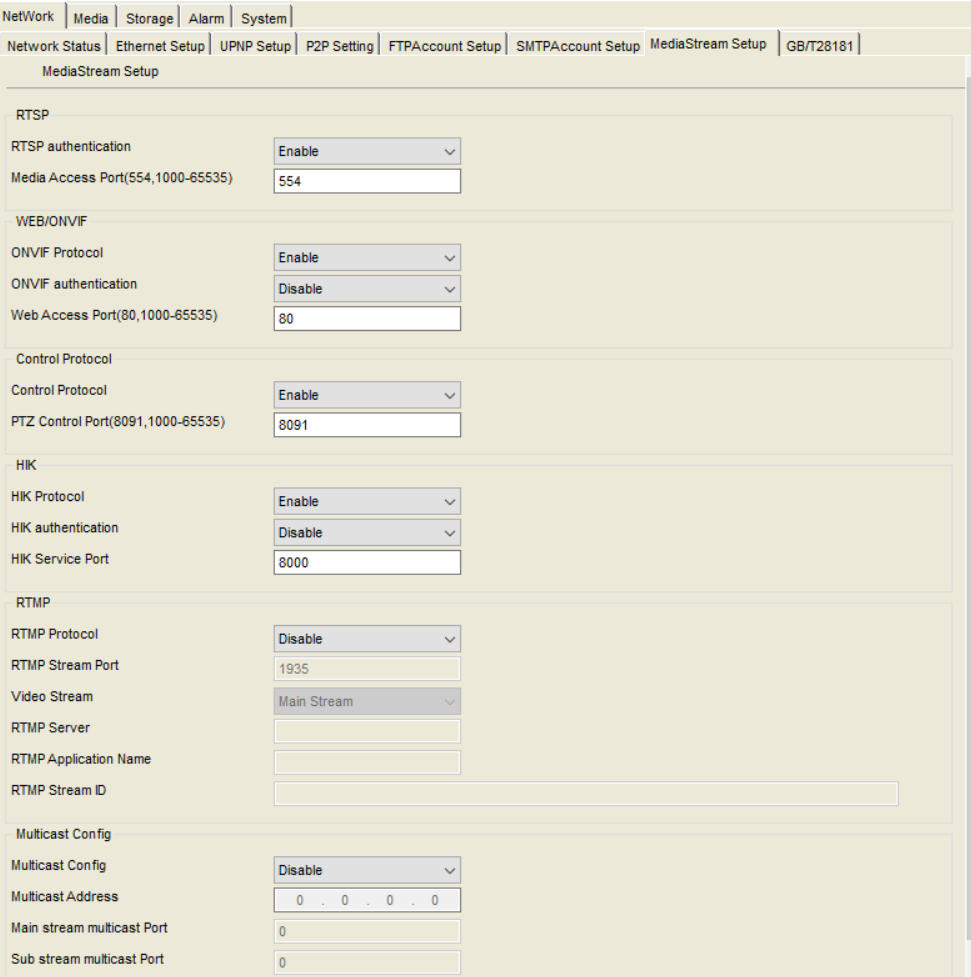
### SMTP Settings

This setting function is similar to the FTP upload function, except that the recorded content is sent by email. The interface is as follows:



### Streaming Media Settings

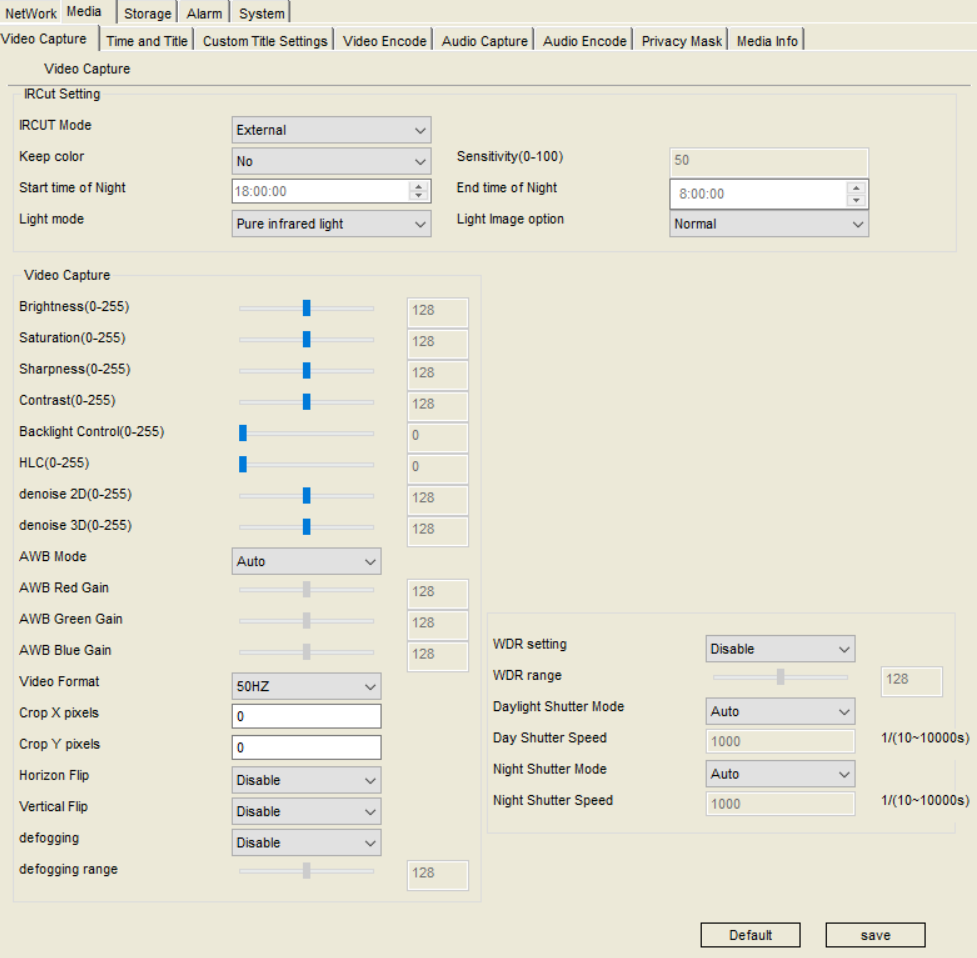
Click the “Streaming Media Settings” item to enter this page. Here you can set the streaming port, web access port, etc.:



## Media Settings

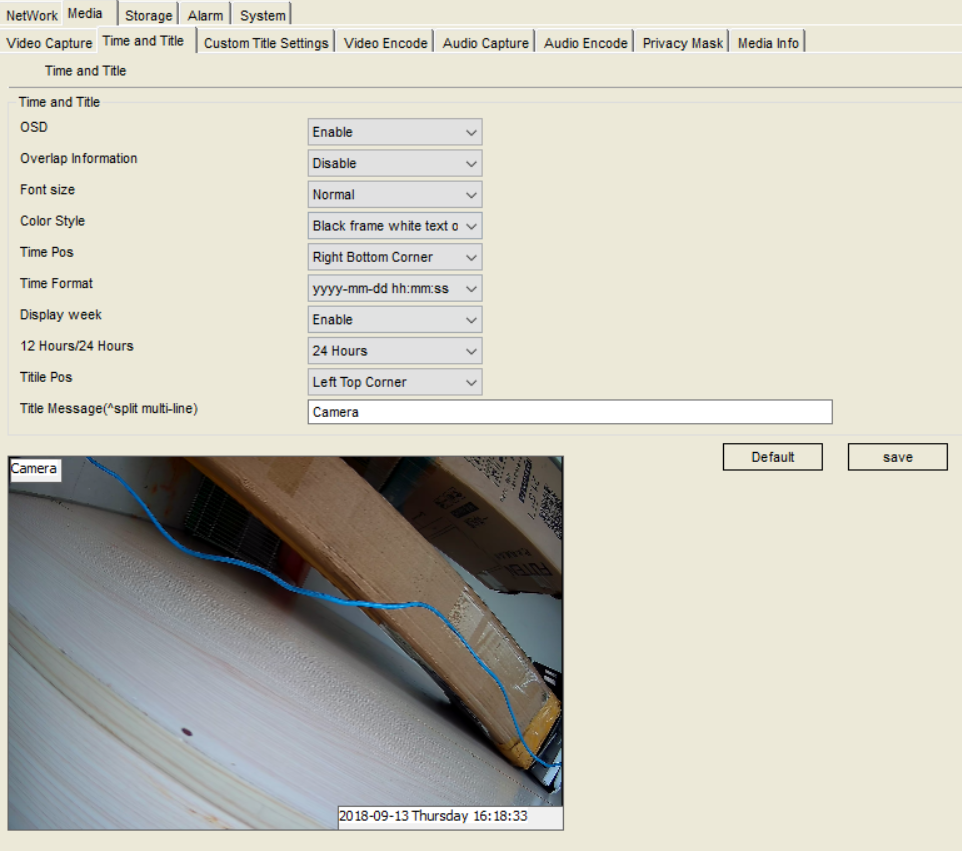
### Video Capture Settings

In this page, the working mode and sensitivity of IRCut can be adjusted. After saving, you can see the effect in the video output on the right. Others such as brightness, saturation, sharpness, etc. can be seen directly on the right after adjustment. . The working mode of the fill light and the operating mode of the image option are selected according to the corresponding light board and firmware.



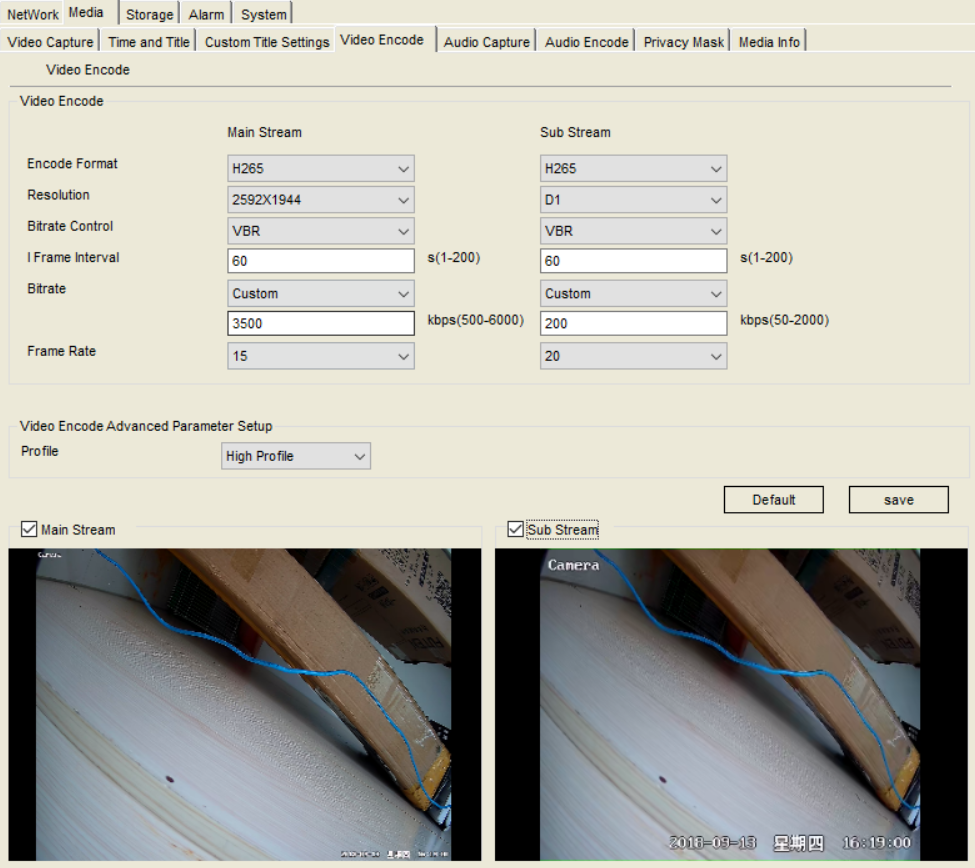
### Time and title settings

Click on “Media Settings” and then click on “Time and Title Settings” to set the content and format of the watermark displayed with the live video image:



### Video Encoding Settings

Click “Video Encoding Settings” to enter this page, you can set the main parameters of the device main/substream: resolution, bit rate, frame interval, etc., as shown below:

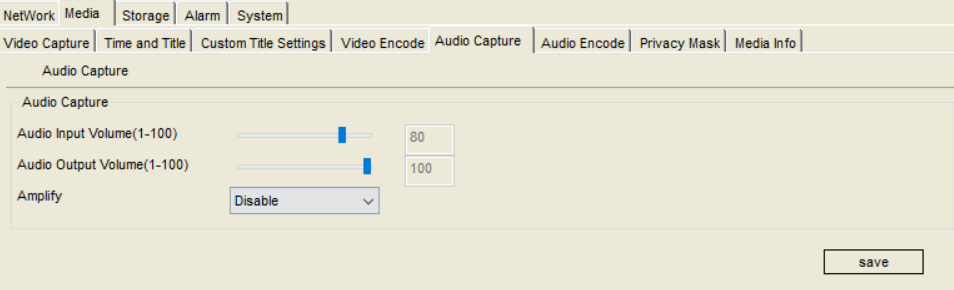


Note：

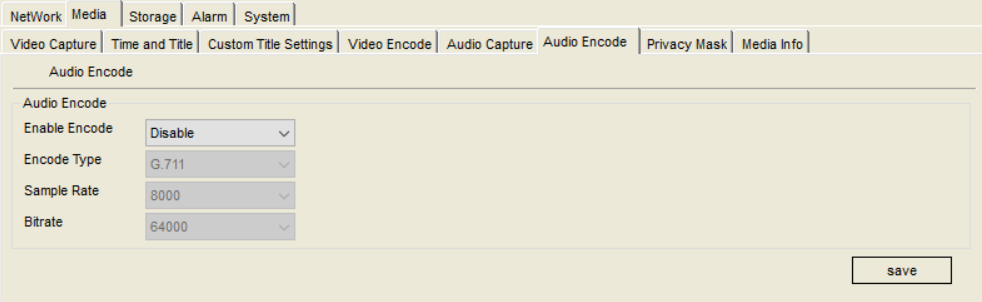
The default configuration of the device is to watch the video as the main stream, and the client to watch the sub-stream in real time. In theory, the larger the resolution and bit rate, the sharper and sharper the image is; the smaller the frame interval, the smoother the image. When configuring, please consider it according to the actual network conditions of your environment.

### Audio Collection Settings

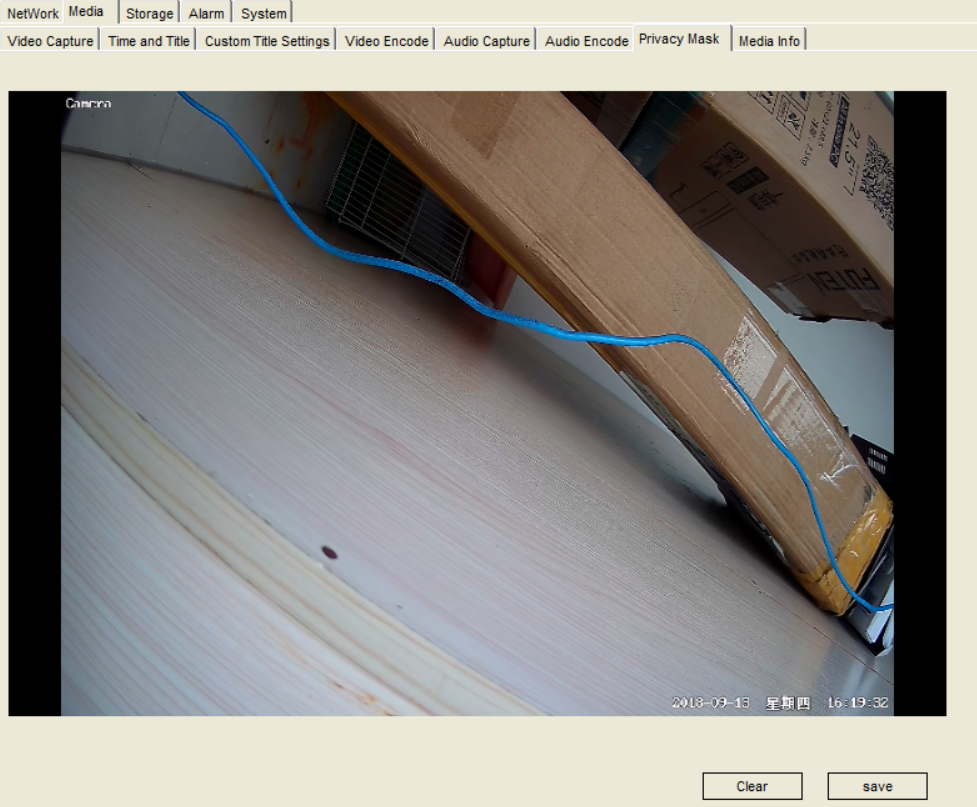
Click on “Audio Acquisition Settings” to enter this item, you can set the volume of the collected audio volume:



### Audio Encoding Settings

This item can be used to set the encoding mode, sampling rate and code rate of the collected audio, as shown in the figure. 

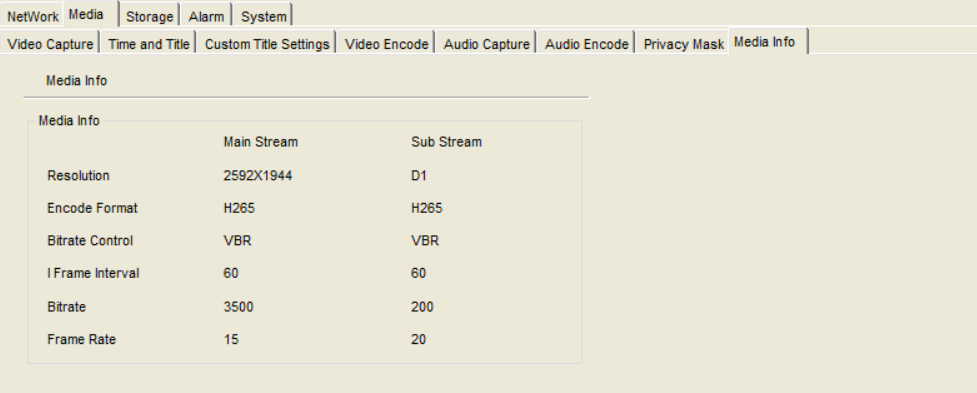
### Privacy Mask Settings



Click on "Privacy Mask Settings" to enter this item to set the area to be blocked.

### Media Status Information

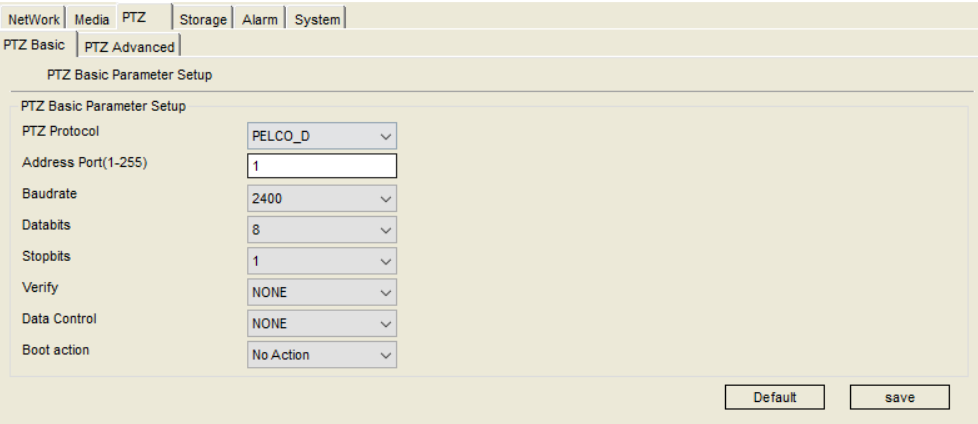
Click “Media Status Information” to enter the item, you can view the resolution and encoding format of the main stream and substream:



## PTZ setting

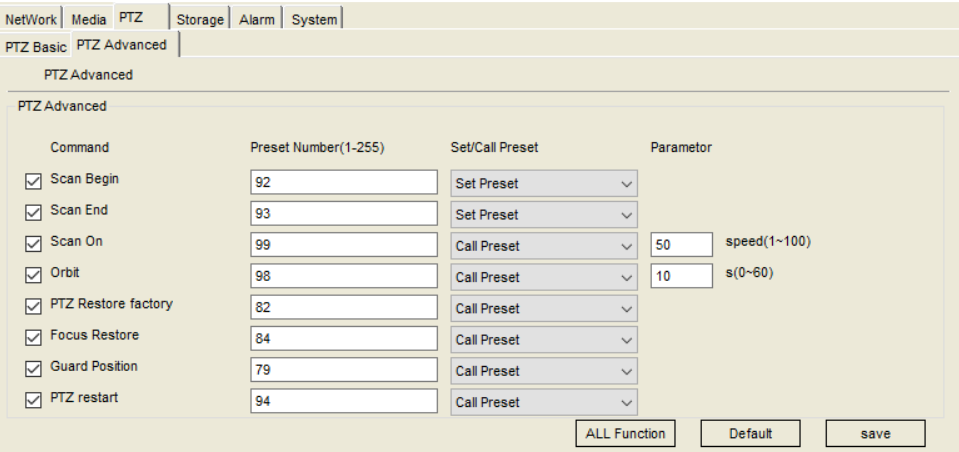
### PTZ setting

Click on the “PTZ Settings”->“PTZ Configuration” item to enter this page, you can configure the PTZ protocol, address code, baud rate and other items:

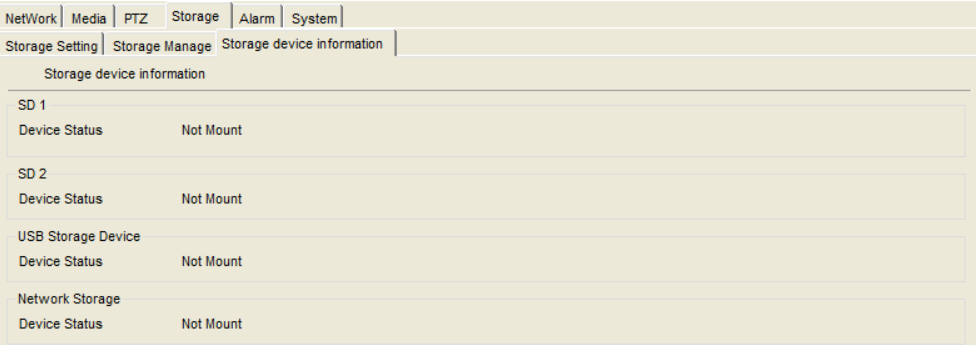


### PTZ Advanced Configuration

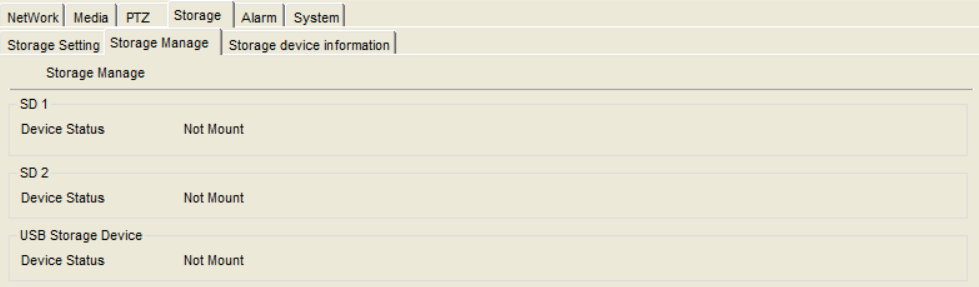
Click the “PTZ Settings”->“PTZ Advanced Configuration” item to enter this page, you can configure the preset point number corresponding to each command of the PTZ:



## Storage Settings

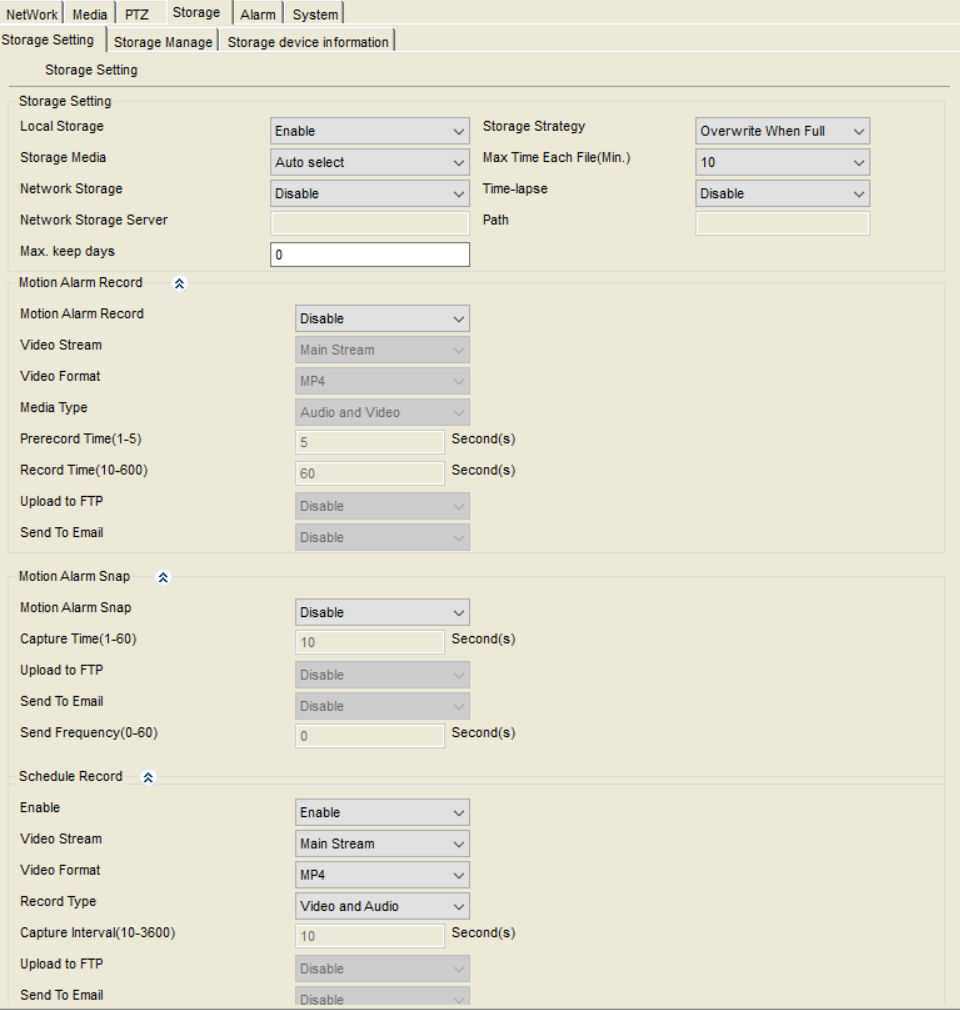


### Storage Device Management

You can uninstall and format the storage by going to this page from "Storage Settings" -> "Storage Management". 

### Storage Settings

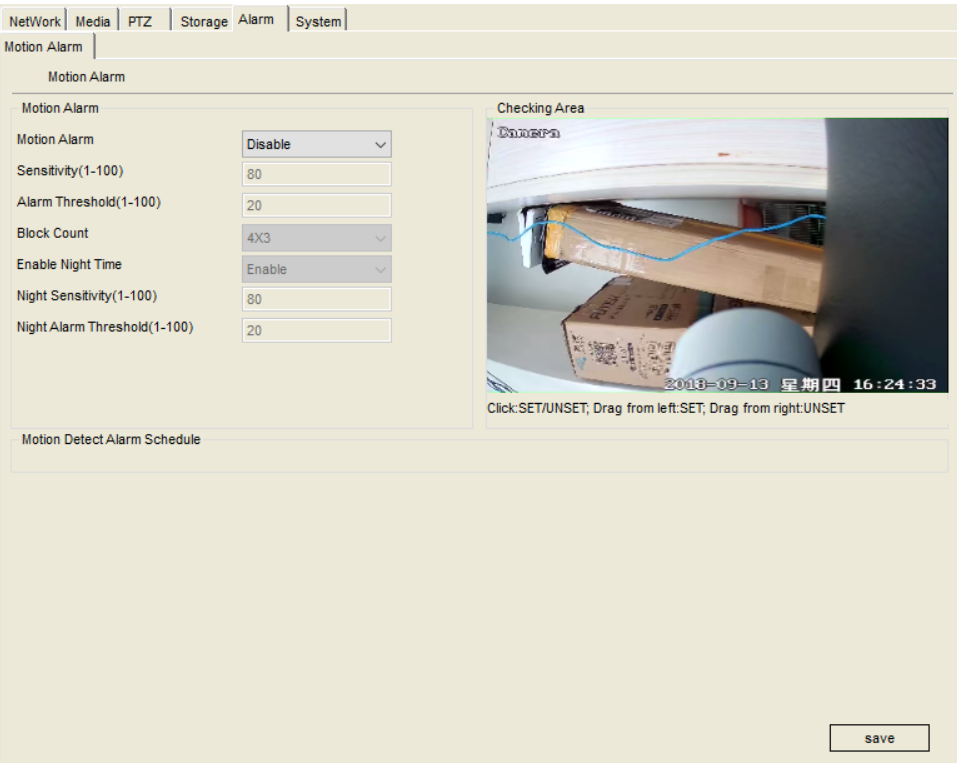
From the “Storage Settings”->“Storage Device Management” page, you can configure the motion detection alarm recording, snapshot or network disconnection recording, and timing recording:



## Alarm setting

### Motion Detection Alarm Settings

Click “Alarm Settings” -> “Motion Detection Alarm Settings” to enter this page. Here you can set the sensitivity of motion detection, alarm threshold, number of areas, etc.:



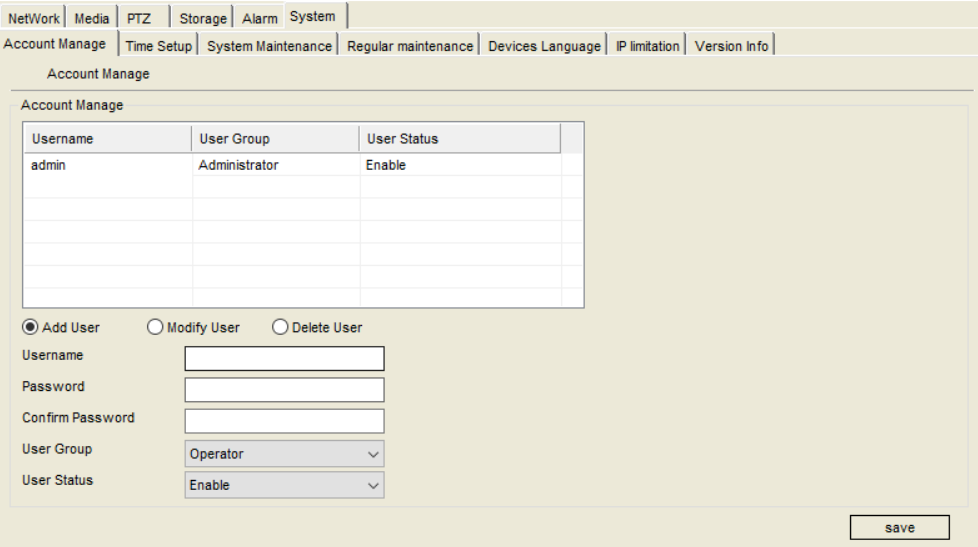
### Storage Space Alarm Settings

Click "Alarm Settings" - "Storage Space Alarm Settings" to enter this page, here you can choose whether to enable storage space alarm:

## System Settings

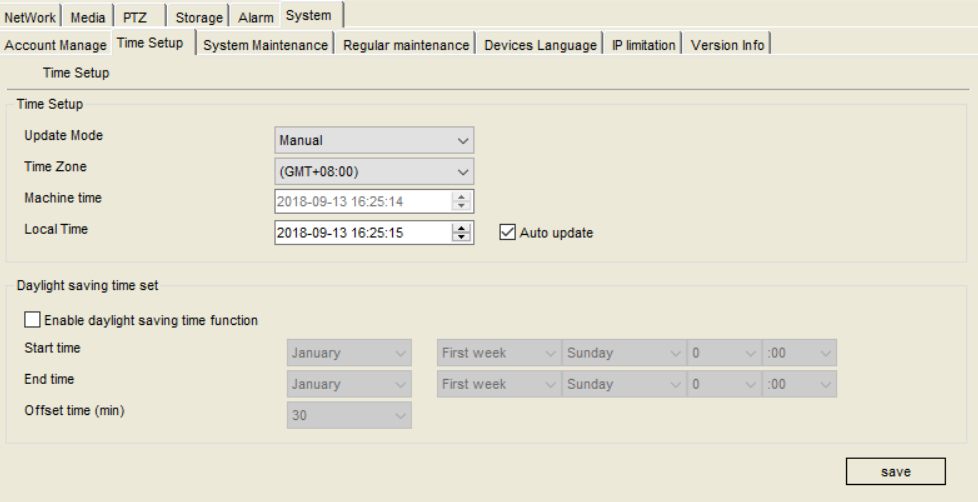
### Account Management

From the "System Settings" -> "Account Management" to enter this page, modify the account settings, add and delete, as shown below:



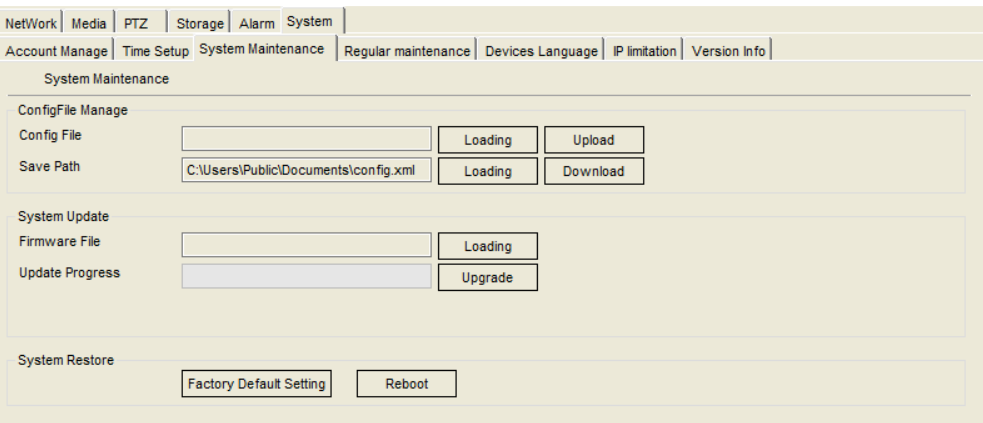
### Clock Settings

Click "System Settings" - "Clock Settings" to enter this page, here you can select the time update method, adjust the time zone, time, etc., as shown below:



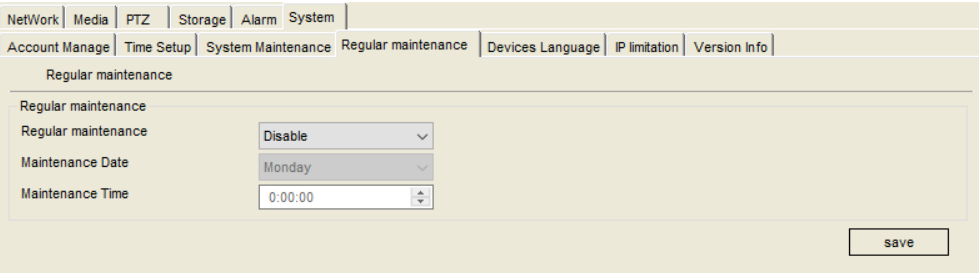
### System Maintenance

Click "System Settings" - "System Maintenance" to enter this page, where you can perform configuration file management, system upgrade and system recovery, as shown below:



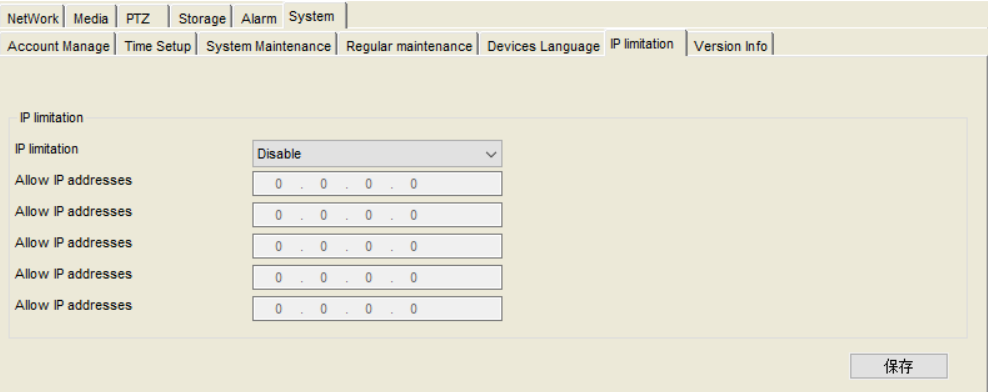
### Timed Maintenance

Click "System Settings" - "Timed Maintenance" to enter this page to modify the device automatic restart time, the settings interface is as follows:



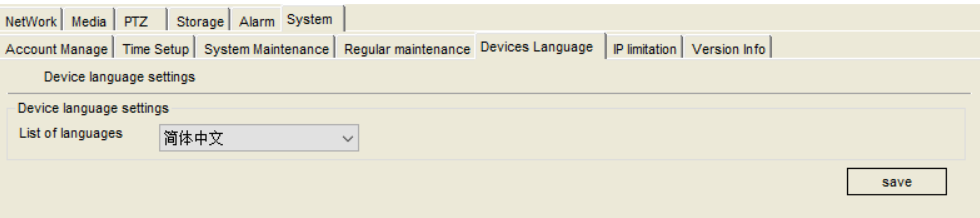
### IP restriction of visit

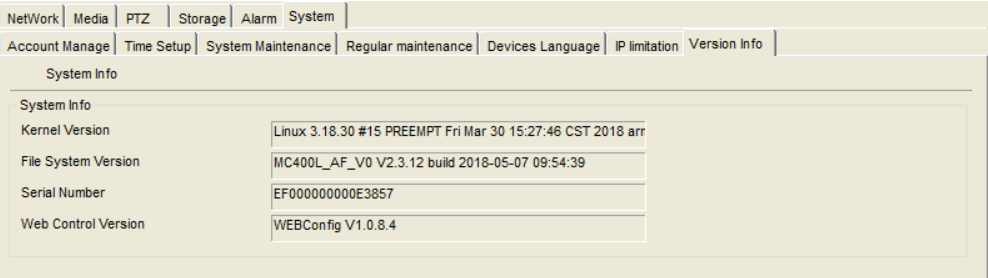
Click "System Settings" - "IP Access Restriction Settings" to enter this page, where IP access restriction settings can be made, as shown below



### Device Language and Version Information

Click "System Settings" - "Device Language" or "Version Information" to change the device language or view the device version information:

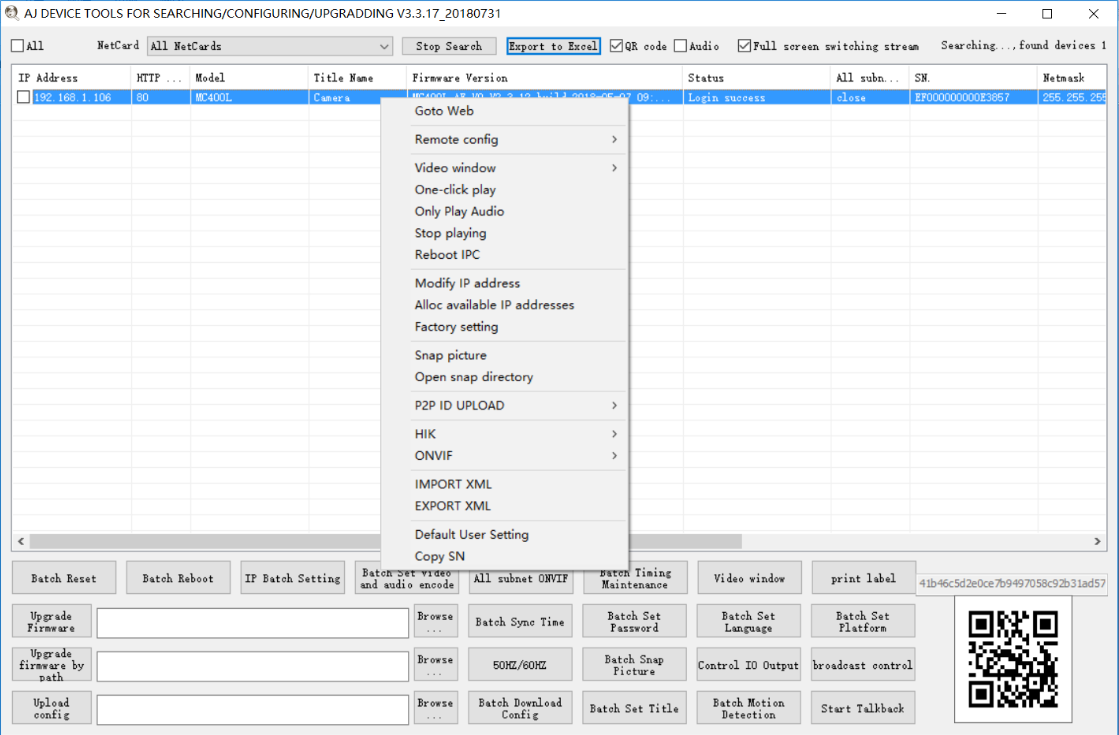


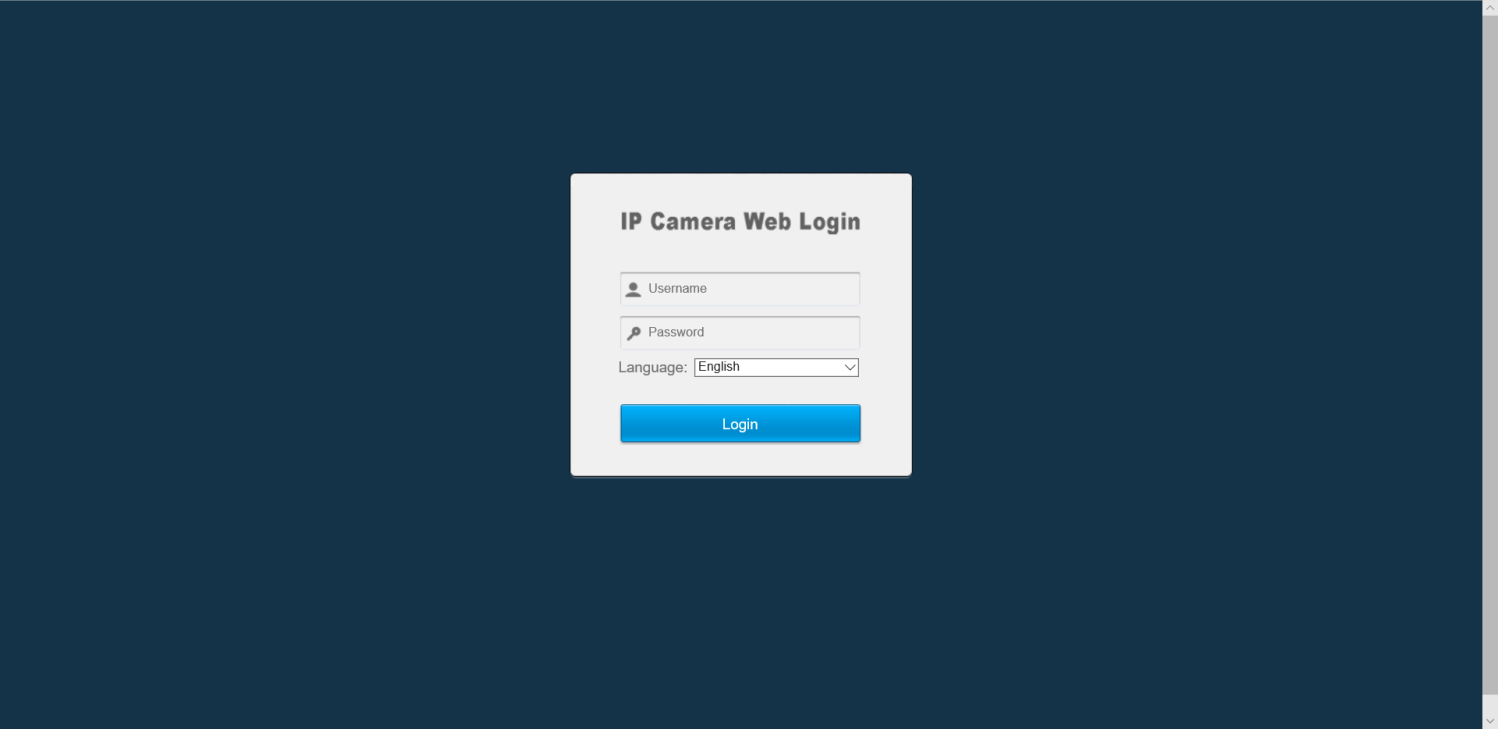


# Web access settings

## Enterthe web page

Right-click the device you want to manage in the device list, select "Go to Web" in the menu item, the software will invoke the browser to open the web login interface:





Enter the account name and password (the default username and password are admin, 123456) to enter the web page. For details, please refer to IPCAMERA V3.0.

**Technical support**

Thank you for your support and trust in our products, and providing our customers with quality technical support is our commitment. If you have any technical questions that cannot be resolved by this instruction, please call us.