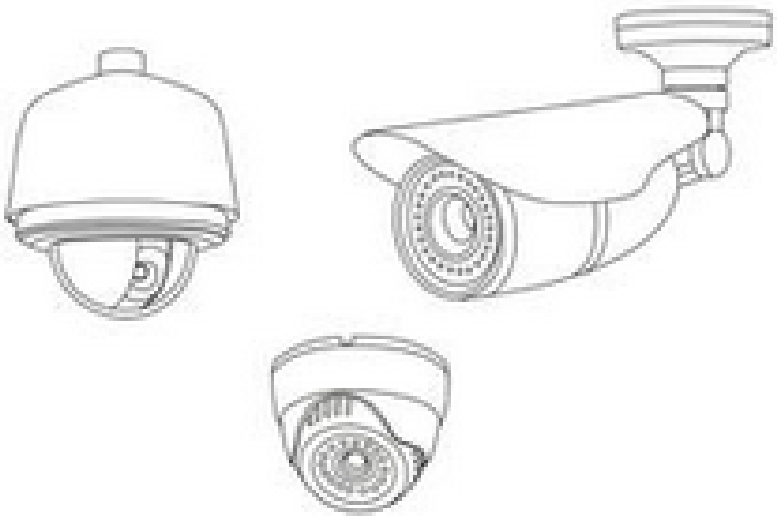
# Network HD Camera Manual

**V1.2**



Statement:

Thanks for purchasing from us. Please feel free to contact our service whenever you need help.

This is universal product manual for Network HD Cameras. Features and functions vary with different products; please refer to our physical commodity and the fast manual.

This manual is your reference for operations and encodings. Related functions, specific orders, detailed menu-tree as well as fast manual are included. Please read it before installation or use.

This manual might contain some technical or print errors. Any enhancement in product features shall be added into the manual consistently without further notice.

**Safety Instruction**

This manual is intended to ensure that user can use the product properly without danger or any property loss. Please read it carefully and take care of it for further reference.

Precaution measures are divided into “warnings” and “cautions”,as below:

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

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

| | |
|---|---|
| Warning **Follow these safeguards to avoid death or serious injury** | Caution **Follow these precautions to prevent potential injury or property loss** |

Warnings

Electrical safety regulations of the nation and the region must be strictly followed during installation or use.

1. Please use the matched power adapter from standard company.
2. Do not connect multiple IPCs with one single power adapter (Overload for adapter may lead to over-heat or fire hazard.
3. Shut down the power while connecting or dismounting the device. Do not operate with power on.
4. The device should be firmly fixed when installed onto the wall or beneath the ceiling.
5. Shut down the power and unplug the power cable immediately when there is smoke, odor or noise rising from the IPC. Then contact the dealer or service center.
6. Please contact the local dealer or latest service center when IPC works abnormally. Do not attempt to disassemble or modify the device yourself. (We shall shoulder no responsibility for problems caused by unauthorized repair or maintenance.

Cautions

1. Do not drop anything onto the dome, avoid it from physical strike. Keep it away from high electromagnetism radiation surroundings. Do not install it at vibration surface or places subjecting to strike.(Ignorance can cause equipment damage).

2. Do not aim the camera at ultra-bright objects, such as the sun, filament lamp, or will damage the camera.

3. Use it inside and keep it away from rain and moisture

4. Avoid exposing to direct sunlight, poor-ventilation or heat source such as heater, radiator (Ignorance can cause fire hazard)

5. To avoid physical damage, extreme environment such as lampblack, water vapor, too hot or dusty are not allowed.

6. Please use soft and dry cloth to clean the shell. Use neutral cleaner instead of alkaline when the dirt is difficult to get rid of.

# Catalog

**CHAPTER 1 PRODUCT INTRODUCTION** ..... **8**

**CHAPTER 2 FUNCTIONAL CHARACTERISTICS** ..... **8**

**2.1. NETWORK MANAGEMENT** ..... **8**
**2.2. USER MANAGEMENT** ..... **9**
**2.3. ALARM LINKAGE FUNCTION** ..... **9**
**2.4 STORAGE FUNCTION** ..... **9**
**2.5. COLOR/BLACK AND WHITE CONVERSION FUNCTION** ..... **9**

**CHAPTER 3 WEB LOGIN** ..... **10**

**3.2 LOG ON TO THE WEB CLIENT** ..... **10**
**4.1. PLAYBACK** ..... **15**
*4.1.1. Remote playback* ..... *16*
*4.1.2. Local playback* ..... *18*
***4.1.3 Replay control bar*** ..... *19*
**4.2 LOG** ..... **20**
**4.3 CLIENT CONFIGURATION** ..... **21**
**4.4. PTZ CONTROL** ..... **24**
***4.4.1 PTZ Horizontal And Vertical Movement*** ..... *26*
***4.4.2 Step Settings*** ..... *26*
***4.4.3 Lens Control*** ..... *26*
***4.4.4 Add and Call Preset*** ..... *28*
***4.4.5 Add and Call Cruise between Points*** ..... *28*
**4.5. COLOR SETTINGS** ..... **29**
*4.6. Other Settings* ..... *30*

**CHAPTER 5 NETWORK CAMERA CONFIG** ..... **31**

**5.1. RECORD ..... 32**
*Only the camera which has TF card support this function ..... 32*
*5.1.1. Record settings ..... 32*
*5.1.2. Snapshot Storage ..... 34*
**5.2. ALARM FUNCTION ..... 35**
**5.2.1. MOTION DETECT ..... 35**
*5.2.2． Video Blind ..... 38*
*5.2.3． Video Loss ..... 39*
*5.2.2． Video Blind ..... 40*
*5.2.3． Video Loss ..... 41*
*5.2.4． Alarm Input ..... 42*
*5.2.5． Alarm Output ..... 44*
*5.2.6. Abnormal Handle ..... 45*
*5.2.7． Intelligent Analysis ..... 46*
**5.3.SYSTEM SETTING ..... 48**
*5.3.1． General ..... 49*
*5.3.2． Encode ..... 51*
*5.3.3． Network ..... 53*
*5.3.4． Network Service ..... 55*
*5.3.5. Output mode ..... 59*
*5.3.6. PTZ config ..... 61*
*5.3.7. Series port config ..... 62*
*5.3.7. Camera parameters ..... 63*
**5.4. MANAGEMENT TOOL ..... 66**
**5.4.1. HDD MANAGEMENT ..... 67**
*5.4.2. User Management ..... 68*
*5.4.3. Auto Maintenance ..... 70*
*5.4.4. Restore Default ..... 72*

*5.4.5. Import and Export* ..... *73*
*5.4.6. Restart* ..... *74*
*5.4.7. System Upgrade* ..... *74*
**5.5. SYSTEM INFO** ..... **76**
*5.5.1. HDD info* ..... *77*
*5.5.3. Version Info* ..... *80*
**CHAPTER 6 AFTER-SALE SERVICE & MAINTENANCE** ..... **82**
**6.1. INSTALLATION AND SERVICE** ..... **82**
**6.2. PRODUCT REPAIR** ..... **82**

# Chapter 1 Product Introduction

Network camera is easy to install and use, without cumbersome integrated wiring and can carry real-time compressed image and transfer through the network to different users at the same time. You can browse the real-time image, storage and control by connecting to the network camera at any places of network coverage in the world. Support for multiple network protocols such as HTTP, TCP, UDP and FTP, etc. Using a remote centralized management platform, can easily from the remote to manage and control more than one network camera. The built-in WEB server, as long as a normal browser can monitor, support for multiple users to browse the images at the same time.

The features of network camera make it suitable for large area, moving target surveillance in all walks of life, and it is widely used in monitoring situation, such as electric power systems, telecommunications sector, bank security, factories and mines enterprises, intelligent building, intelligent community, urban roads, airports, stations, as the image monitoring equipment of security and fire monitoring system.

# Chapter 2 Functional Characteristics

## 2.1. Network management

By Internet explorer to browse WEB page or centralize managing software, can realize remote network management; It can be set through the network to implement all the features of network cameras. In addition, the network camera's biggest advantage is that it does not need too many other devices, as long as there is a PC machine and cables which will connect computer and network camera to the network, through IP address access control the network camera directly, so that make it simple to operate and easy to manage, access by IP address is convenient for centralized control management of network cameras.

2.2. User management

Each group has different administrative authority and can edit, each user belongs to a group. In the condition of no user login, monitoring permissions can be set freely. Configuration user group and user information can have multiple users log on to the same network cameras at the same time, according to the set of permissions to control the operating of network camera.

2.3. Alarm linkage function

The network camera has 2 roads of grounding alarm input, 1 road of relay output. In addition of the alarm linkage PTZ control, it also can be linked to video, screenshots, alarm output and play the function of the network, send email to linkage, and the functions such as uploading files Settings.
Attention: see detailed setting method in the specific Settings of fourth and fifth chapter.

2.4 storage function

According to user's configuration and strategies, such as through alarm and timing set make the storage of corresponding video data set to the center server, the user can according to the need to video by local WEB side, video files can be stored in the WEB client of the running computer. Network camera video can also be stored in the front end of TF card.

2.5. Color/black and white conversion function

It can be set to automatic low illumination conversion and manual low illumination conversion, in the automatic conversion mode, the camera according to the variation of environmental light convers sensor illumination automatically. Manual conversion mode is through the button to

select the color or black and white display.

2.6. Back light compensation function

When there is a highlight in background, objects will become dark, like a shadow. Backlight compensation function is the camera under the background of strong light can be automatically on a dark target brightness compensation, to adjust brightness of background, avoid the background brightness is too high to cause the whole picture of a ball of light, the target is because of the dark and invisible, so as to get a clear image.

2.7. Dual-Stream output

Support main/sub stream output, main stream is for real-time video preview in good network condition, sub stream is for preview in bad network condition or some mobile device application

2.8. Mobile device surveillance

Realize remote control through Ethernet by XMEye apps.

2.9. Cloud service

Realize NAT penetration by cloud server， no need complex router port mapping.

# Chapter 3 WEB Login

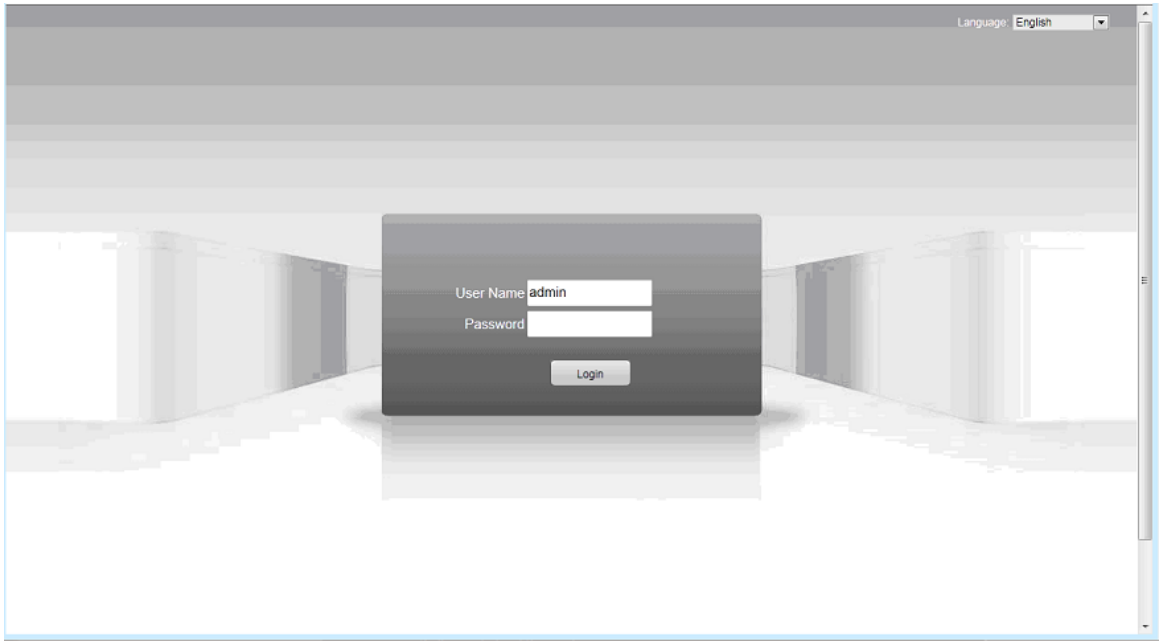
**3.1** Installation preparations

Connect the camera with Local network, power the camera (DC12V power supply or Power over Ethernet if support).Use default IP address 192.168.1.10 to access the camera, or get IP address through DeviceManage software.

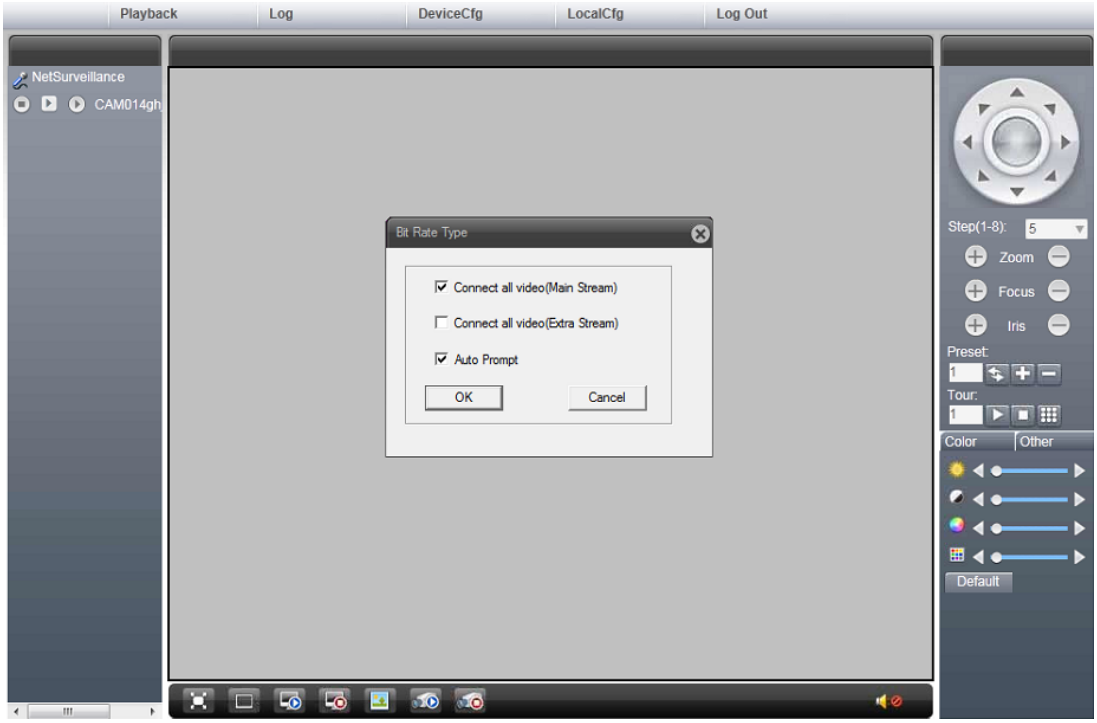
**Mark: Please contact supplier to get DeviceManage software**

3.2 Log on to the WEB client

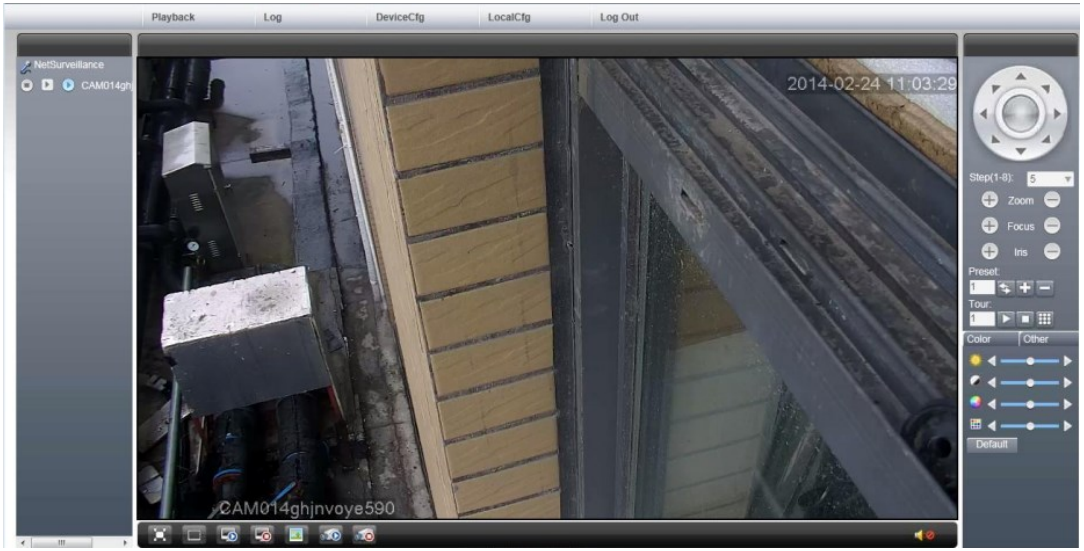
Open web browser, enter the IP address. Default IP is 192.168.1.10, default subnet mask is 255.255.255.0. If connect succeed, it will display below login interface



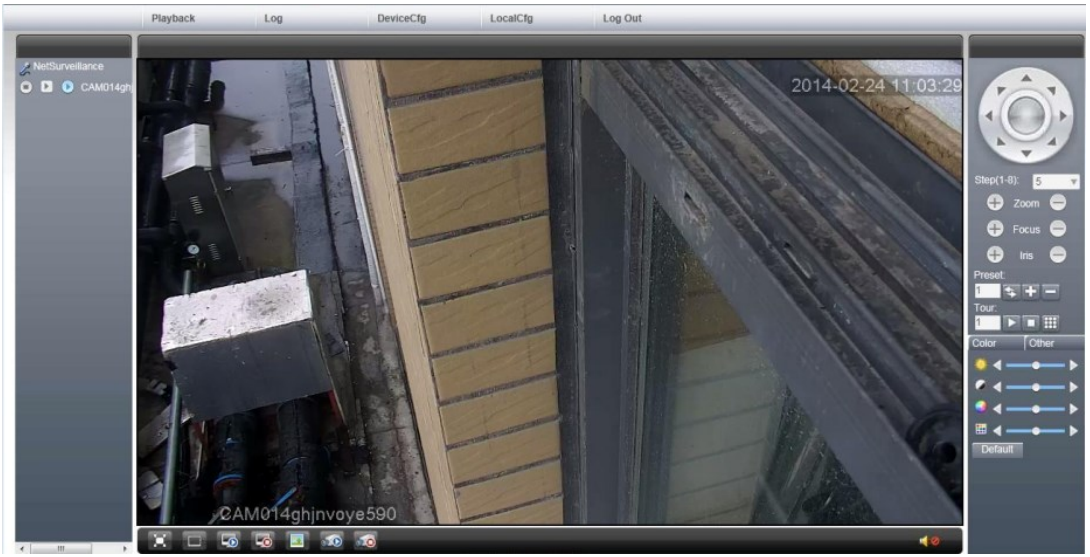

Default user “admin”, password is empty. Admin is super user, can change the password but cannot be deleted. If there is invalid login account or password error, it will have a corresponding hint. Use the admin user login, the pop-up dialog box to choose the main stream or extra stream join preview screen, as shown
be




Select main stream connection preview screen, click show preview picture to confirm




## *4.Shortcut menu*




Playback: Local and remote video replay, screen shot picture review

Log: Check the alarm and operation information

DeviceCfg : Camera side parameter configuration

LocalCfg: WEB client configuration

LogOut: log out

Color: WEB side real-time video color Settings

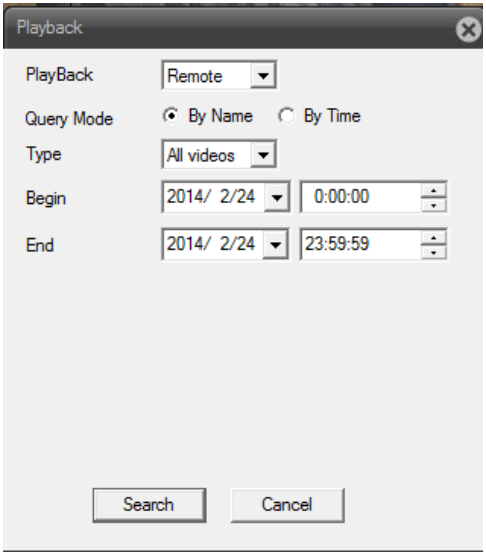
Other: Camera side color Settings, image flip and ratio, reboot

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | intercom | | client video | | Auxiliary stream | | main stream |
| | audio | | client screenshots | | Close all channel | | Full screen |
| | Close all channel video | | All channel video | | Open all channels | | |

PTZ control: When the camera connects with PTZ control its directions, speed, preset other ICONS functions.

4.1. Playback

Click the Playback pop-up 【replay】dialog box, as shown below. It has remote and local two options.




4.1.1. Remote playback

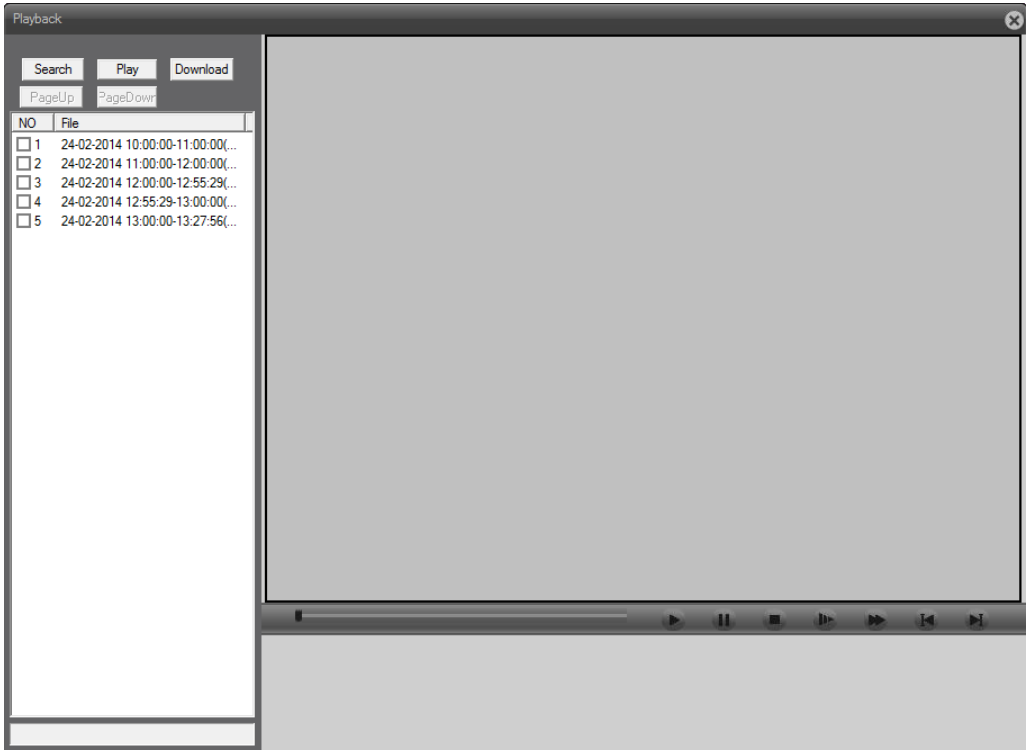
**Mark: This function only suitable for the camera support SD card**

【Playback modes】:There are two playback modes according to the time and the document.

【type】: classified according to the selected query video capture file, containing all the videos, external alarm, video detection, ordinary video, video manual, all images, alarm capture, video detection capture, manual capture type, etc.

【The start and end time】: Query the video capture file of the time period.

1. According to the file query, as shown below




4-8

【video query】: Return to the video query dialog box.

【play】: Select needed playback file, click the play button to start the file playback.

【Attention】: Double click needed playback file, also can play back the file.

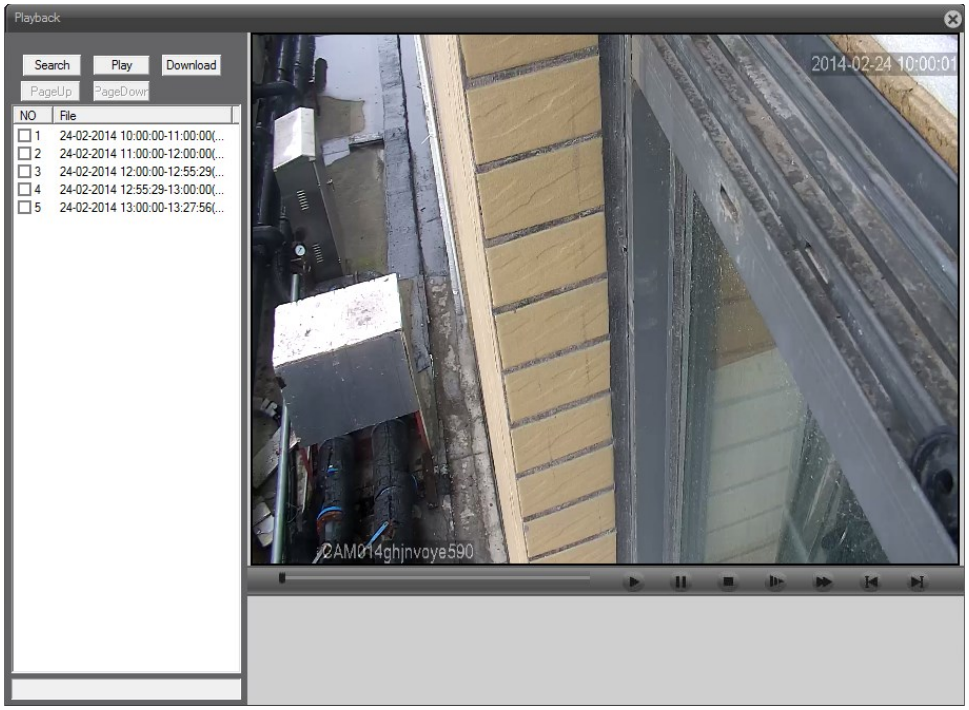
【Download】: Select the needed downloading file, click the download button, pop-up download file storage path setting box and download format selection box, with AVI and H264 both formats are optional.

Attention: support to select multiple files to download in order.

【Prev, Next】: When video file number is more than 64, it will automatically page, flip through the function for operation.

2. Query by the time

Display a video file, it at most can only query one day of the video file, double click the query to the video file to start playback, then double click on the timeline can replay the corresponding video files in a certain time. As shown in figure 4-9.

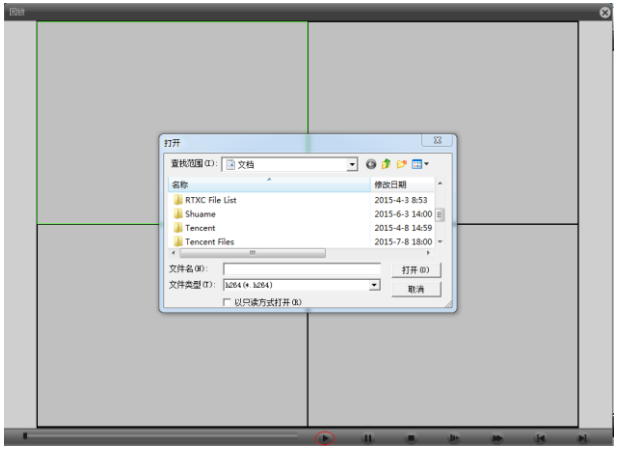



Note: the file queried according to its time on time axis color display respectively: red for external alarm video, blue for manual videos, green for the common video. Yellow for detect video (including mobile detection, video screening, and loss of video footage).

4.1.2. Local playback

The playback mode selects local playback, and playback client videos and screen shot file.

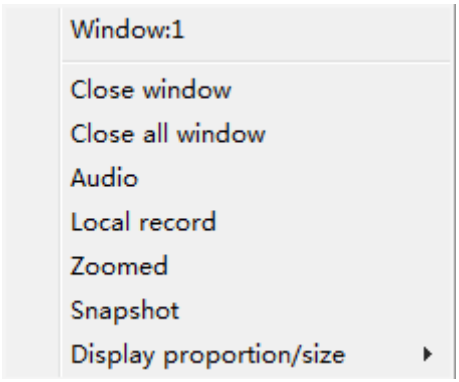
Click the play button to select the file path, the rest of the operating see.




### 4.1.3 Replay control bar

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Play | | Pause | | Stop | | Slow |
| | Fast | | Last frame | | Next frame | | |

Right click to pop up more functions :




【Window： 1】Window selected

【Close window】Close specific play back window

【Close all window】Close all the play back windows

【Audio】Audio available option

Mark: only works when the video contains audio file

【Local record】record the video in play back procedure， video file will be saved in local

【Zoomed】Digital zoom for specific region

【Snapshot】Capture the picture in play back procedure， picture will be saved in local

【Display proportion/size】Switch between 4:3 and 16:9

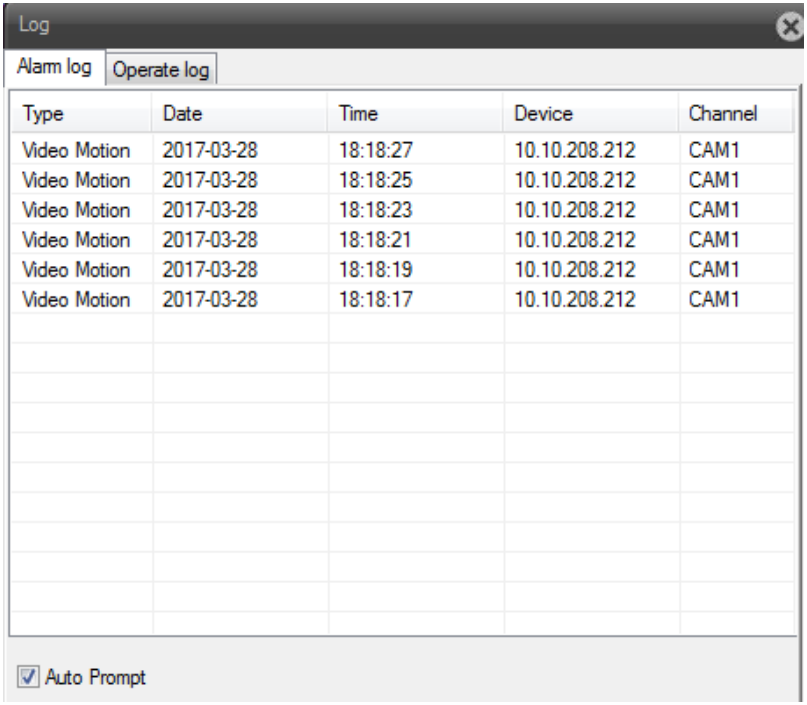
## 4.2 log

WEB log information is including the alarm log and log operation.

[Alarm log]: records the camera alarm information;

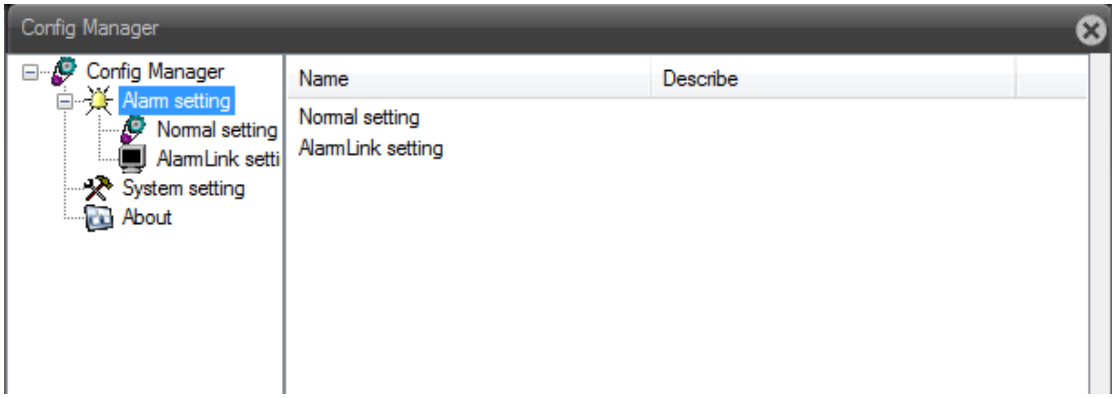
[Login operation]: Records user login information.

Attention: in the alarm log interface can choose whether to enable logging automatic reminders.




4.3 Client configuration

1. The alarm Settings: set the external alarm, mobile detection alarm linkage set, such as linkage alarm monitoring, alarm prompt, and other functions




2. The system Settings: set the client information such as video capture.

【Record DIR】: Set up the client video storage paths.

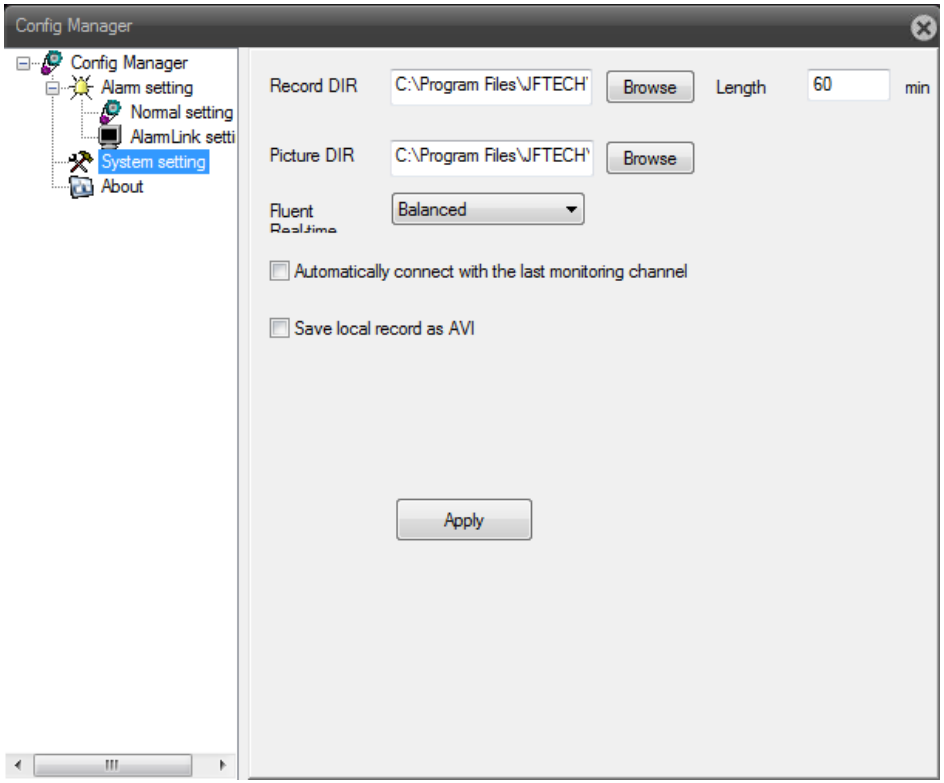
【Picture DIR】: The length of a single client video file can choose between 1-120 minutes.

【the images directory】:Set the store path of the client.

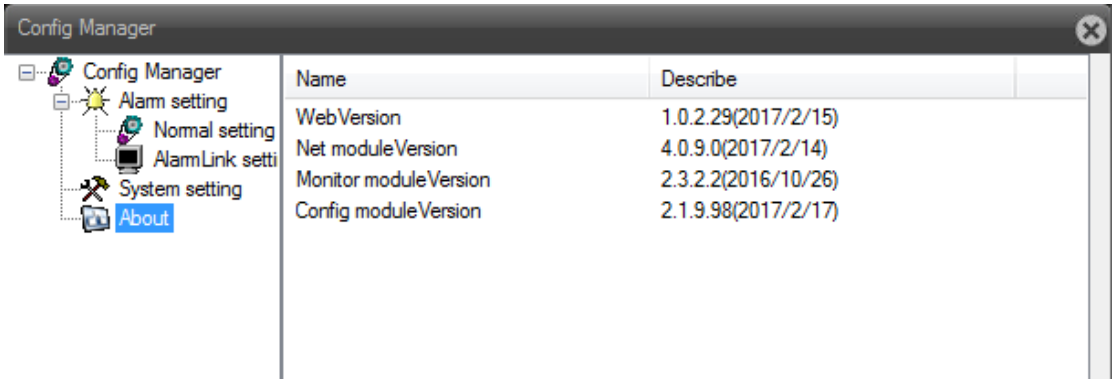
【Fluent real-time】:Fluency policy switch

【Auto connection】:Connect with the channel closed last time automatically

【Save local record as AVI】: Set up the local video saved as AVI format, for H264 format by default.




3. About: display the version of the WEB control module information.

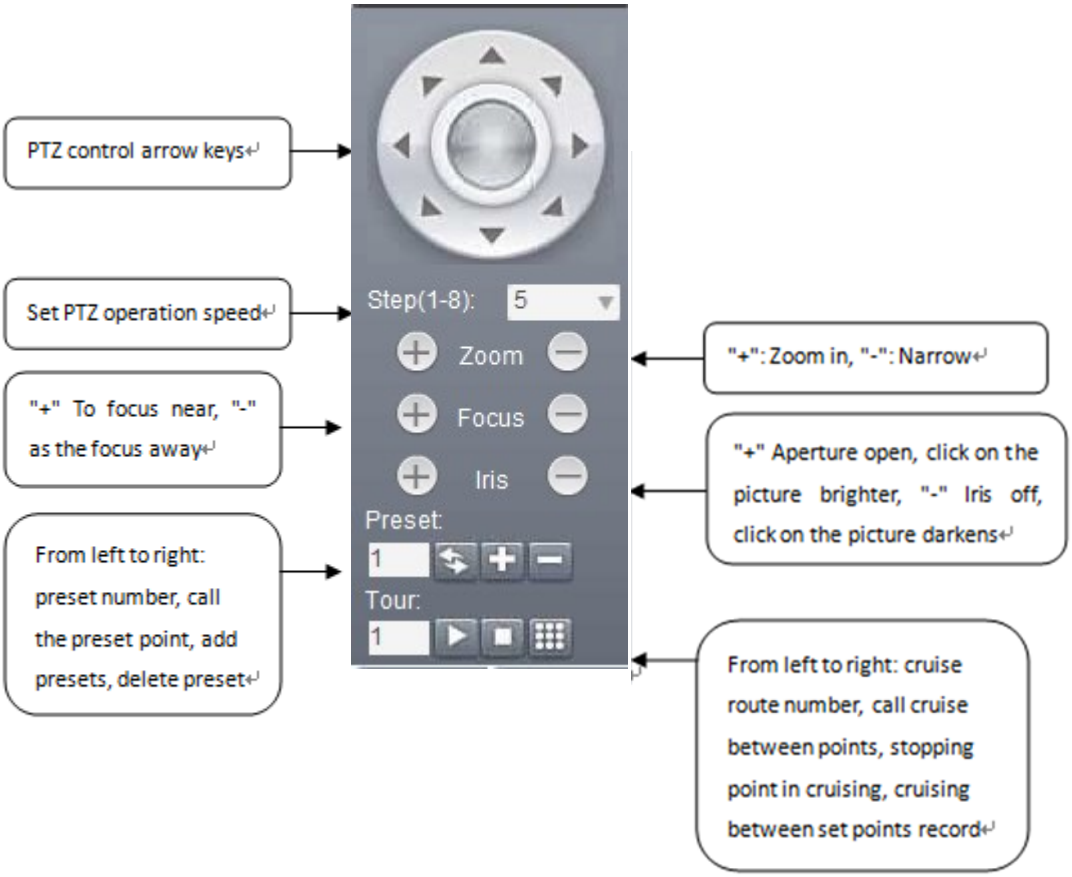



### 4.4. PTZ control

This chapter is for IP Speed Dome only.

PTZ control interface is shown in Figure 4.4.

Note: PTZ control, please enter System Settings - PTZ configuration settings to set correct protocol, address, baud rate, data bit of information, otherwise it will not control the PTZ.




**PTZ control can achieve the following functions:**

## 4.4.1 PTZ Horizontal And Vertical Movement

Users can operate up, down, left and right to control the image above and oblique direction so up and down arrow keys to control PTZ turning left and upper left, lower left, upper right, lower right direction of rotation. The speed can be modified in step settings.

## 4.4.2 Step Settings

Step is mainly used to control PTZ operation speed, the greater the greater the PTZ operation step magnitude smaller step size smaller magnitude PTZ operation; There are eight steps of 1-8 grades to choose from, step 1 is the lowest, the highest step 8.

## 4.4.3 Lens Control

PTZ camera control functions through the focus, zoom, iris to control the network camera's lens.

a. Zoom Control

Users can control the focal length by the zoom control buttons, click left “+” to enlarge, click right “-” to narrow. Adjust the focus distance; get a panoramic view of the screen or close-range required.

b. Focus Control

Hold down the left button “+”, distant objects or scenes clear up, blurred objects from the past; if you hold down the right button “-”, then the object or scene from nearly clear, distance blur. Initialization and network camera horizontally or vertically as well as zoom operations, focusing both auto focus mode.

When any of the following situations will not be on the network camera auto-focus camera goals: Target is not the center of the screen

At the same time distant and close observation of the target, while ensuring that the front and rear are clearly not.

Targets are light objects.

Target moves too fast.

Target is a large area of monotonous goals. Such as walls

Target is too dark or fuzzy.

c. Iris control

Aperture is used to adjust the brightness of the PTZ screen. When holding down the left button "+" preview screen is lit, hold down the right "-" preview screen dimmed, by clicking on the left and right keys to adjust screen brightness. When initialization and head for horizontal or vertical position of the operation or operations carried zoom, aperture are automatic state, that is, through automatic Senses ambient light changes, make quick

adjustments, so that the output image brightness and stability.

## 4.4.4 Add and Call Preset

Network camera preset function is the current position and lens focal length, aperture and other parameters are stored in memory, you can quickly call these parameters will be adjusted to the head and camera function of the position when needed.

Turn a network camera to the preset operating position, fill preset number, and click "+" to add this preset, can add up to 255 preset points.

Enter a preset point has been added successfully preset number, click " " to call the preset point.

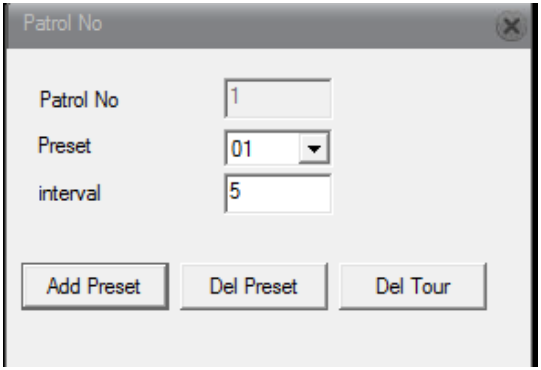
Enter a preset point has been added successfully preset number, click "-" to delete this preset.

## 4.4.5 Add and Call Cruise between Points

Inter cruise features multiple points preset network cameras will have been added to the composition of a route stored in memory, you can quickly call when needed, in order to make the network camera can be added after the preset points along the route and at each preset dwell time length settings.

Enter a cruise number to be added in the cruise between points box.

Click “ ” will pop up settings box, to add the already exists preset point to cruise line.




[Preset]: Select the preset number you want to add to the cruise line (the preset point should have been set).

[Interval]: When cruising, the time interval between two preset points.

[Add Preset]: Select preset to increase the number of cruise lines.

[Clear Preset]: delete the number selected in the preset cruise route point.

[Clear cruise line]: delete the whole number of cruise lines.

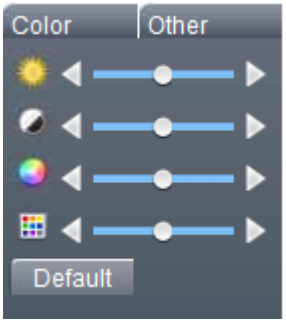
Select a line which has been set, click “ ” to call this cruise line.

Select a number of cruising line, click “ ” to stop cruise.

## 4.5. Color Settings

Set the picture color of the WEB side, as shown in figure 4-5.

Attention: this function is only to adjust the picture color of the current WEB side, it will not affect the picture color on the camera.

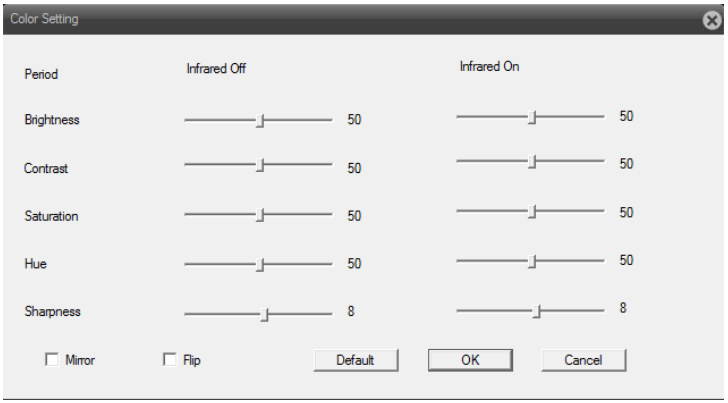



4-5

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Brightness sdjustment | | Contrast adjustment | | Saturation adjustment | | Tone adjustment |
| Restore defaults | | Restore the brightness, contrast, saturation and tone to the default values | | | | | |

4.6. Other Settings

1. Resume: soft reset the camera by client.
2. Switch scale: preview images showing proportional to switch between 4:3 and 16:9.
3. The image color: set the camera preview screen display effect, as shown in figure 4 to 6.




【Brightness】: Adjust the light or dark of the preview picture shows.

【contrast】:Adjust the permeability of the preview picture.

【saturation】: Adjust the color of the preview picture.

【color】: Adjust the tone changes in temperature of the preview picture.

【infrared lamp open】: The corresponding brightness, contrast, saturation, color and other effective when open the lamp.

【Mirror】: Enable preview screen to turn around.

【Flip】: Enable preview picture to turn upside down.

【Restore default】:Image color configures to the default state.

4.7 Exit

Exit current user, back to login interface

# Chapter 5 Network Camera Config

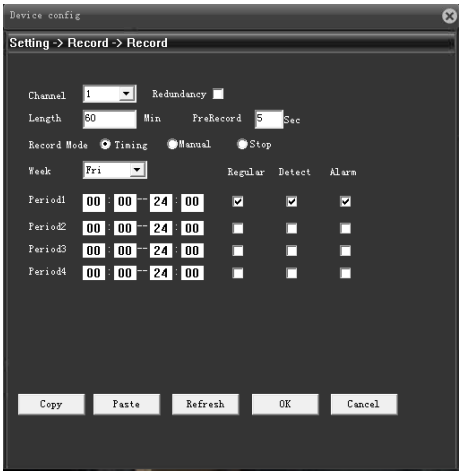
Click DeviceCfg, as follows:

5.1. Record

Only the camera which has TF card support this function

5.1.1. Record settings

Click , as follows:




This function allows you to config the time length and pre-record time for each record. We have three settings: Configuration, manual or stop.

Configuration: Record according to the set video type (common, detection and alarm). Max. Four different time interval can be set per day.

Manual: Enable this function, network camera starts record consistently.

Stop: Network camera stops recording.

Note：1. Detect and alarm recording should match with recordings.

2. Record end time should be longer than start time,

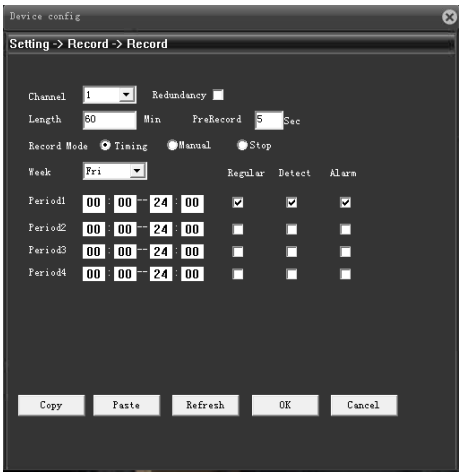
3. Record files are stored into TF card, make sure TF card is plugged in and confirm it.

4. TF card should have enough space for cycle overwrite.

5. Default open, plug TF card, boot up, then record starts.

5.1.2. Snapshot Storage

Click , as follows:




Configure the number of snapshot pictures. We have three snapshot modes: configuration, continuous, close.

1. configuration：Configure timing capture among different dates. Timing capture include common snapshot, detect snapshot and alarm snapshot. User can configure four different time interval snapshot at most.

2. continuous：Network camera captures pictures non-stop.

3. close： Network camera stops capturing pictures.

Note：1. Detect and alarm snapshot should match with capture functions.

2. Snapshot end time should be longer than start time,

3. Snapshot files are stored into TF card, make sure TF card is plugged in and define it as snapshot disk.

4. TF card should have enough space for cycle overwrite.

5. Default closed, enable it first.

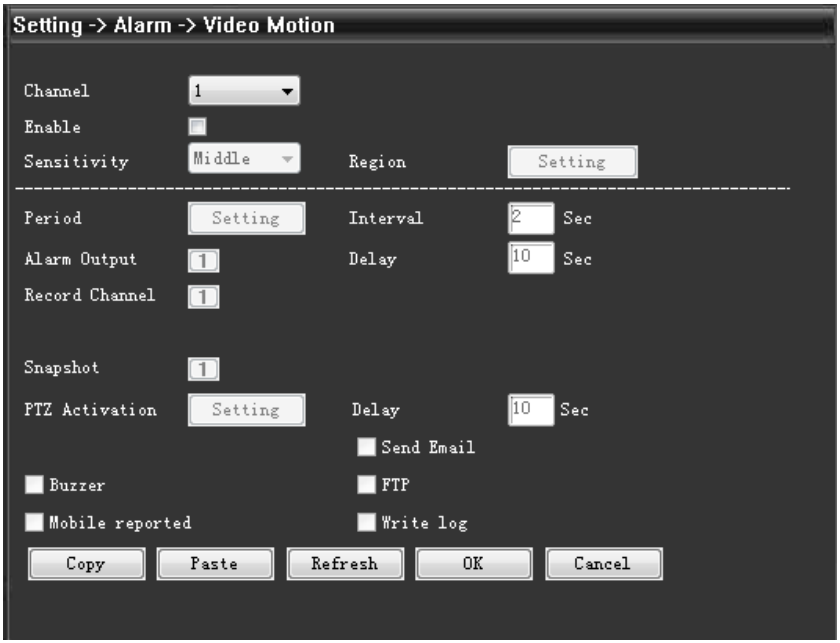
## 5.2. Alarm Function

Click , as follows:

Alarm functions include: motion detect, video blind, video loss, abnormal handle.

### 5.2.1. Motion Detect

Click , as follows:




5-5

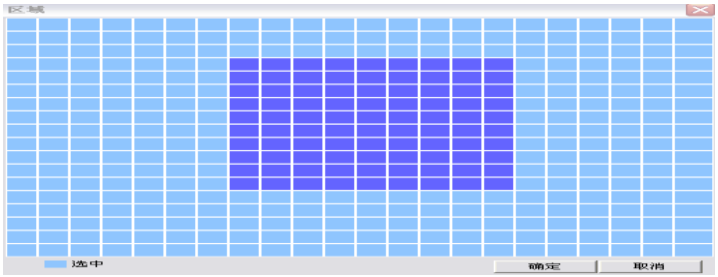
【Channel】Choose the set motion detect channels, default is one channel.

【Enable】means that the motion detect function is on.

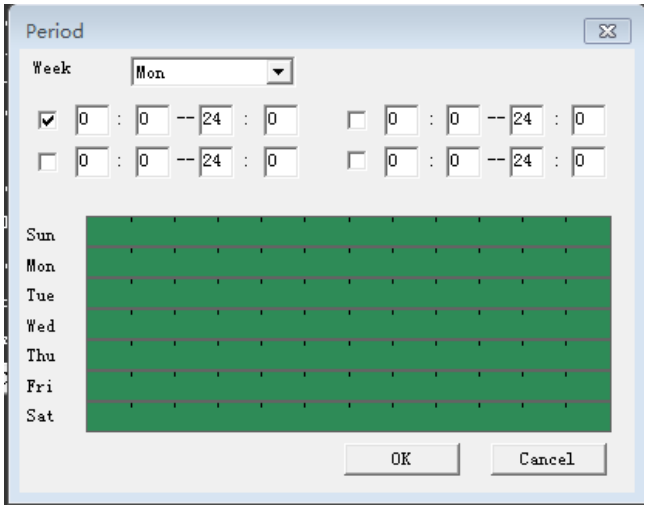
【Sensitivity】Choose in the six options according to the sensitivity:

Lowest/lower/medium/high/higher/highest.

【Region】Config the trigger region. Max.396 regions can be set.



【Period】You can set four periods each day per week. Motion detect alarm won't be triggered when time is beyond the period.




【Interval】： Shortest time interval between two alarm. The range is 0~600seconds.

【Alarm output】： Enable to link alarm output.

【Delay】Delay a few moments and stop when the alarm state is turned off. The range is 10~300 seconds.

【Record channel】：Local recording starts when triggered. Record detect would be enabled.

【Tour】： Not supported now.

【Snapshot】： Local capture starts when triggered. Snapshot detect would be enabled.

【PTZ Activation】： Link to PTZ or presets or cruise when alarm is on.

【Delay】When alarm is over, recording will last some seconds(10~300sec),then stop.

【Send EMAIL】: Alarm emails will be sent to configured email address when triggered. Email address config refer to network service.

【Buzzer】:Buzzer will be activated when alarm is triggered

【FTP】： Snapshot pictures and record files will be sent to configure FTP server when triggered. FTP config refer to network service.

【Mobile reported】: The alarm information will be sent to configure FTP server when triggered.

【Write log】Once checked in System Information - query log information to police information, log shows the type of alarm, start and end times.

### 5.2.2. Video Blind

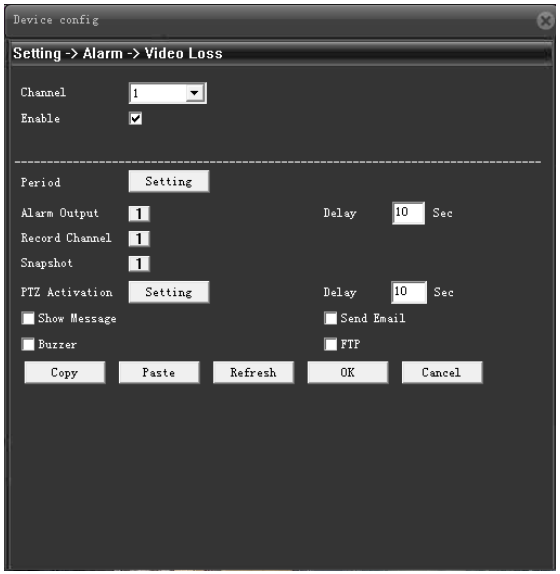
Click ， as follows:

5-6

Set method: refer to chapter5.2.1.”Motion detect”

### 5.2.3. Video Loss

Click , as follows:




5-7

Set method: refer to chapter 5.2.1. video loss.

### 5.2.2. Video Blind

Click【Video Blind】， popup【Video Blind】config menu， as following：

Chart Video Blind

Refer “5.2.1 Motion detect” to set Video Blind configuration.

### 5.2.3. Video Loss

Click【Video Loss】， popup【Video Loss】config menu， as following：

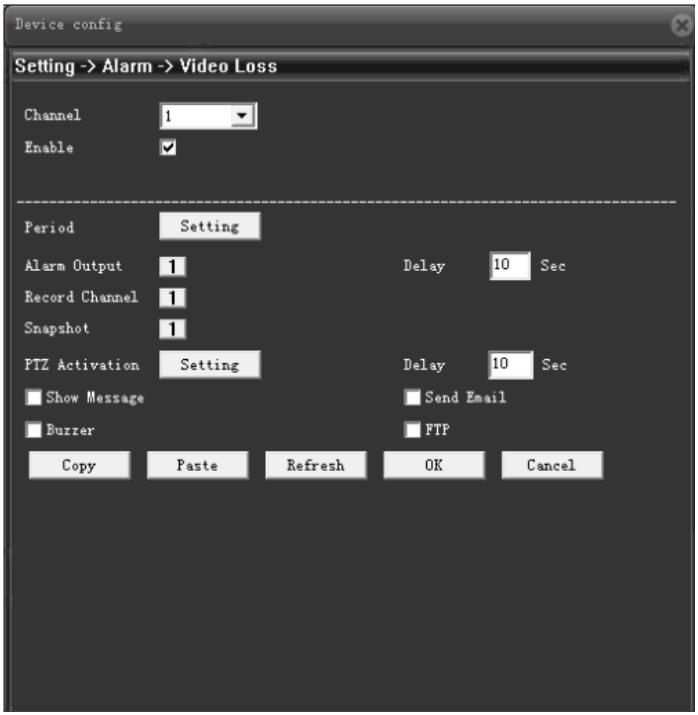



Chart Video Loss

Refer “5.2.1 Motion detect” to set Video Loss configuration.

### 5.2.4. Alarm Input

Click【Alarm Input】， popup【Alarm Input】config menu，as following：

Chart Video Input

【Channel】Choose the channel which need be set up ；

【Type】Alarm input is the switching value. It has two statuses including normally open and close. You can choose the corresponding status based on the type of alarm device.

Normally open: alarm channel is open circuit, when trigger the alarm, it will form the path to output alarm information.

Normally close: alarm channel accesses, when trigger the alarm, it will form open circuit to output alarm information.

Refer “5.2.1 Motion detect” to set other config.

### 5.2.5. Alarm Output

Click【Alarm Output】, popup【Alarm Output】config menu, as following:

Chart Alarm Output

Alarm output can be external light, alarm warning devices and so on. Alarm function linked alarm output, when trigger the alarm, the device output the warming.

【Configuration】: According to the alarm configuration to choose whether output alarm information.

【Manual】: Operate alarm output manually, after enable it the alarm signal will always output.

【Stop】: Stop alarm output, never get alarm output.

【Status】: Display the status of alarm output, √ means alarm output.

### 5.2.6. Abnormal Handle

Click【Abnormal Handle】， popup【Abnormal Handle】config menu， as following：

Chart Abnormal Handle

【Event Type】Support 5 kinds of abnormal events alarm.

[No TF Card]: Alarm when the camera doesn't inset TF card or TF card cannot be recognized.

[Insufficient storage space]： Alarm when the free space less then set value.

[Storage error]: Camera can recognize TF card, but still has errors. Alarm when TF card cannot use normally.

[IP conflict]: Alarm when the camera IP is same as others in LAN.

[Network disconnect]： Alarm when camera disconnects the network.

【Send EMAIL】Send alarm email to the designated mailbox after trigger the alarm.

【Mobile Report】Send alarm information to designated PMS server and server send this to mobile phone.

### 5.2.7. Intelligent Analysis

Click【Intelligent Analysis】， popup【Intelligent Analysis】config menu，as following：
Note: only a part of models support this function.

Chart Intelligent Analysis

【Channel】： Network cameras default channel 1.

【Enable】： Enable intelligent analysis function.

【Algorithm】： Choose the intelligent type.

【Rule】： Click “Setting”, popup “rules Settings” menu. As following:

[Trace show]: Enable to display the moving trace of objects.

[Sensitivity]: Set the analysis sensitivity, you can choose high/medium/low three levels.

[The minimum target size]: Set the minimum target size of object.

[Alert way]: You can choose “cordon or warning area”.

[Line]: Click “Setting” to set the alert line. Draw a line with 2 points. And you can only set one line.

Alert line can be horizontal and vertical.

The banned direction including “from top to bottom”, “from bottom to top” and both banned when alert line set as horizontal.

The banned direction including “from top to bottom”, “from bottom to top” and both banned when alert line set as vertical.

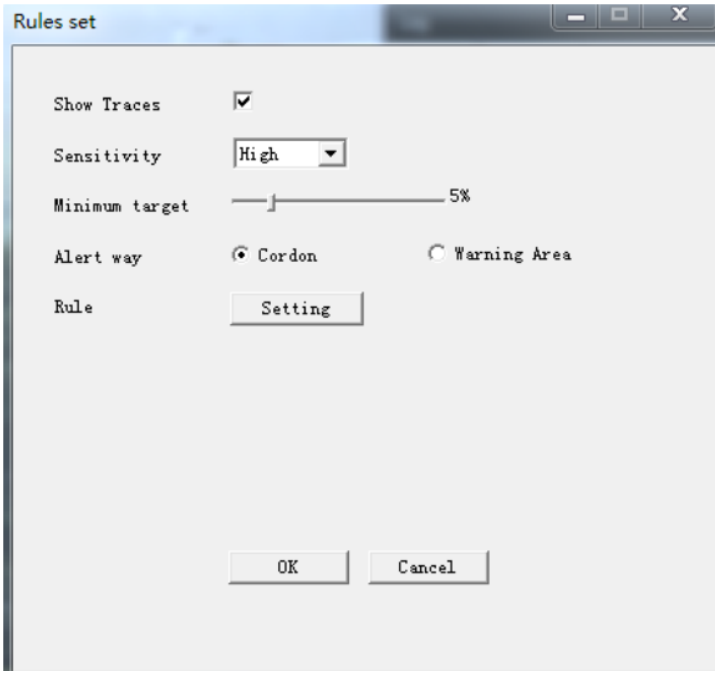



Chart Rule set

[Warning Area]: Click “Setting” to set the alert area, for now you can only set one warning area with 4 points.

Right click to set the direction, including enter, leave and both banned.

[Save]: Click "ok" to save all config.

Refer “5.2.1 Motion detect” to set other config.

## 5.3.System Setting

① ② ③ ④ ⑤

Click【③System Setting】, as the following: you can set General, Encode, Network, Service,GUI,PTZ,RS232,Camera Parameters.

Chart System Setting

### 5.3.1. General

Click【General】，popup【General】config menu，as following：

【System time】Adjust system time manually；

【Time Zone】Set the time zone for camera based on different position. Default is UTC + 8；

【Date format】You can choose one data format from YMD, MDY and DMY；

【Date mark】You can choose one data mark from "—""/"and ".";

【Time format】You can choose one time format from 12-hour and 24-hour.Default is 24-hour；

Chart General

【Language】Set system language，including Simplified Chinese, Traditional Chinese, English and so on.

【HDD full】Measures taken by the camera when the HDD is full.

Overwrite： TF card file overwrites the oldest file when video or snapshot is full.

Stop record：Record and snapshot stop when TF card is full.

【Video format】You can choose video format from PAL and NTSC.

【DST】Set the activate and stop time by week or date, as following:

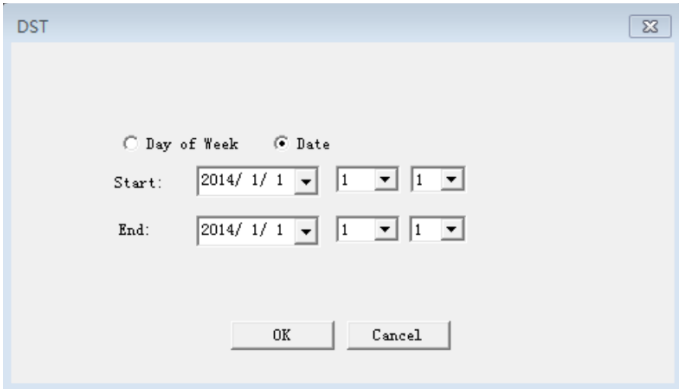



Chart DST

### 5.3.2. Encode

Click【Encode】， popup【Encode】config menu，as following：

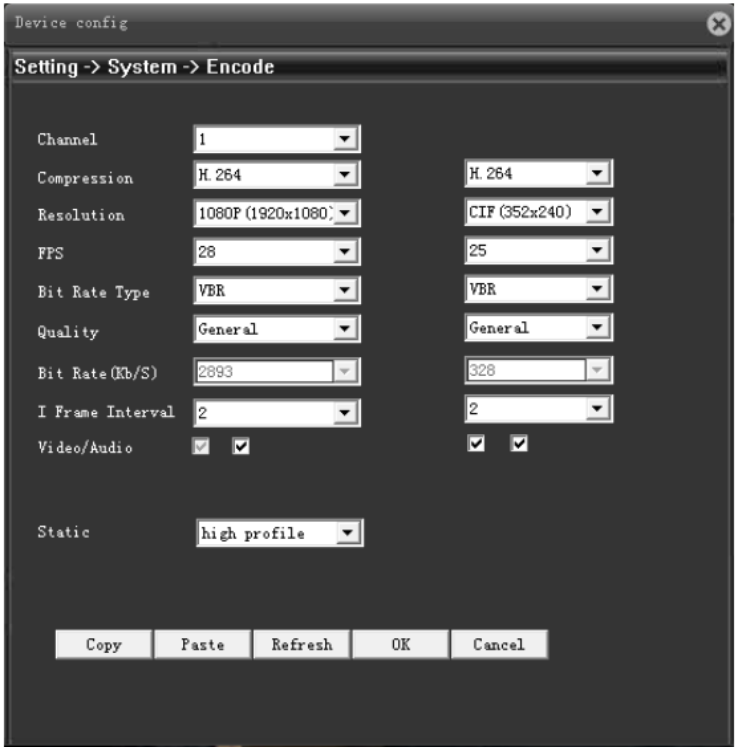



Chart Encode

Config main stream in the left, config extra stream in the right

【Compression】Support H.265 or H.264 based on the camera.

【Resolution】Different based on different cameras.

【FPS】P:1 fps~25 fps, N: 1 fps~30 fps

Note： Low frame rate will lead to image stumbled and reduce transport stream；

【Bit Rate Type】You can choose limited code stream or variable code stream.

VBR：stream changes based on the image quality, the 【Quality】 level is higher, the stream will be larger.

LMR：stream is fixed, correspond to【Bit Rate(Kb/s)】.

【Image quality】When the stream is VBR, you can change the quality between worse/bad/general/good/better/best, the quality level is higher, the stream rate will be larger.

【Bit Rate】When the stream is LMR, you can change the bite rate, bite rate is larger, the image quality will be better.

【I frame interval】You can set key frame interval between 2-12s.Increase the interval, image will stumble, the quality will be lower.

【Video/Audio】Main stream video cannot be modified but extra stream need open video manually as well as audio of all stream. Only enable audio, you can monitor audio.

【Encoder static configuration】：Set the camera coding level between baseline/main profile/high profiles. The level is higher, the stream is larger, the preview quality will be better.

### 5.3.3. Network

Click【Network】，popup【Network】config menu，as following：

【DHCP】Camera connect the router which enable DHCP, enable this function you will get IP address automatically.

【IP address】IP of camera to login in website；

【Subnet mask】Set subnet mask. Should same as PC；

【Gateway】Set gateway. Should same as PC；

【DNS】Set DNS server. Should same as DNS server of PC；

【TCP】Set IPC TCP port ,default is 34567；

【HTTP】Set HTTP，default is 80；

Note：When you use PPPOE,3G or port map to connect IPC with Ethernet, the port should not be 80；

【ONVIF】Set IPC ONVIF port，default is 8899；

【MAC】Show IPC MAC address，for ARSP function ；

【Transfer Policy】

Set transfer policy strategies: Adaptive / Quality Priority / Smooth priority /Network

transmission Priority.

Adaptive: when network bandwidth is small, the preview screen automatically changes to sub-stream to ensure smooth preview.

Quality Priority: Whether the network bandwidth is large enough, the preview is always in the main stream. When the bandwidth is not large enough, screen will not smooth.

Smooth priority: Change encoder settings and lower the stream without reducing frame rate to ensure the smooth screen.

Network transmission priority: When multiple users login the same camera, limit the user with the smallest bandwidth.

【High-speed download】high-speed download；

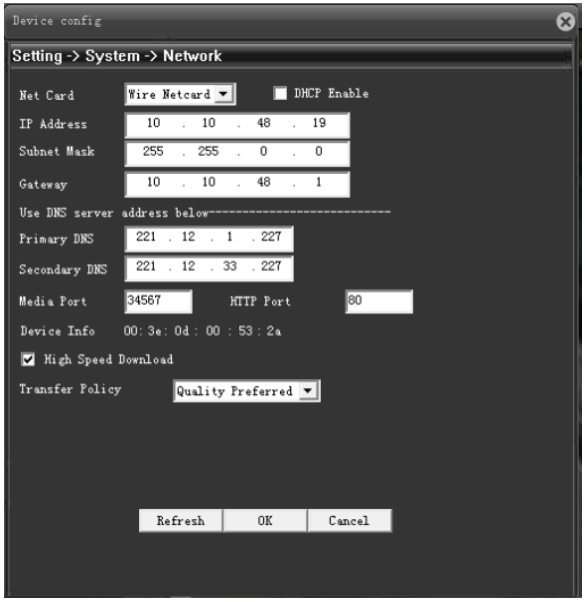



Chart Network Setting

### 5.3.4. Network Service

Click【Network Service】, popup【Network Service】config menu, as following:

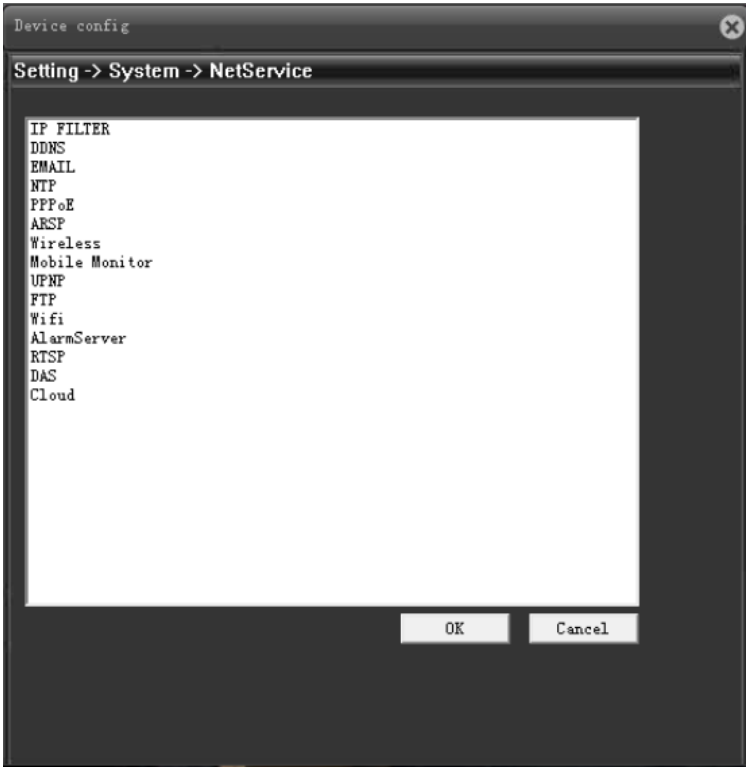



Chart Network Service

【IP Authority Config】Set blacklist and white list.

Blacklist: Address under blacklist cannot access to the camera. Max to 64 addresses.

White list: Address under white list can access to the camera. Max to 64 addresses.

Note: Same IP address cannot add into black and white list at the same time.

【DDNS】Set DDNS, support CN99, Oray and other main free domain names;

Note：You need register CN99 and other website to get your account and domain before you test this function.

【Email】Set email of alarm push, support qq, sina, Gmail, mobile email, netease mailbox. Please enable SMTP before you test this function.

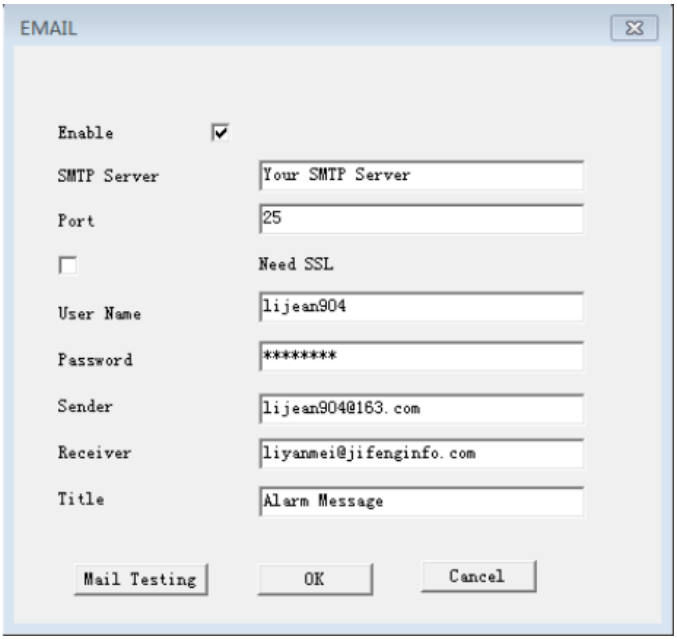



Chart Email

[SMTP]：Find SMTP server format in email config.

[SSL]：It's same as email config. You can login email to check.

[User Name]：Input the e-mail address before @；

[Password]： password for this user；

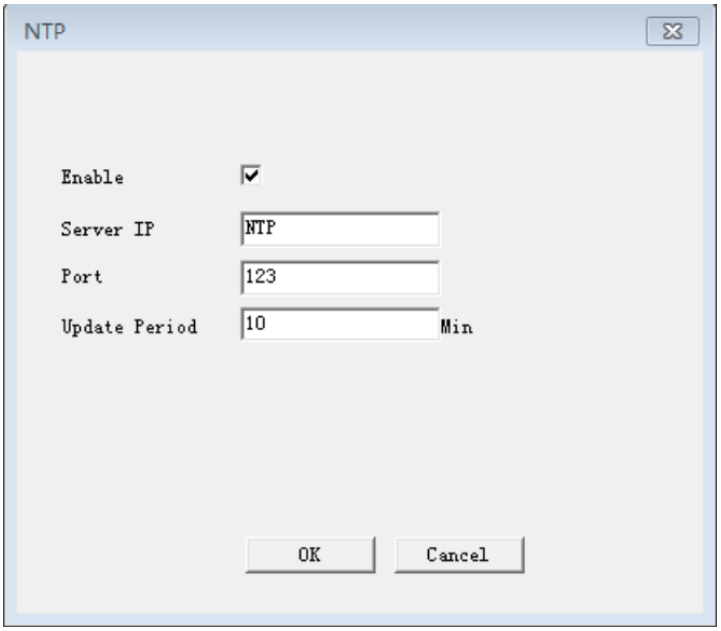
[Sender]：Set EMAIL address of sender；

[Receiver]：You can set max to 3 email addresses, separated them by a " ； ", can be the same as sender；

[Theme]：Set email theme, can be modified；

[Mail Test]：After set Email click“Mail test” to check；

【NTP】System time of IPC will synchronize with the designated time server, enable the NTP server before use this function.




[Server address]：The domain or IP address of designated server.

[Port]：Default NTP is 123，you can change it based on the NTP server.

[Update cycle]：Same as NTP server correct time interval, default is 10 minutes；

【PPPOE】Set PPPOE to connect network，get account from your network operator, After successful dialing, public IP address will be displayed.

【ARSP】We provide domain name service; user can setup their own DNS server or use our free DNS server, server address： http://xmsecu.com:8080. Register at website to get user name and password.

【UPNP】Router goes port mapping and fixed port automatically towards the camera.

Note： Make sure UPNP is enabled; camera and router share the same network.【FTP】Upload the alarm recording or capture to designated FTP server；

[Server address]：IP address of FTP server in local or public network；

[Port，username，password]：Contact FTP server administrator to get them；

【WIFI】Connect router by WIFI；

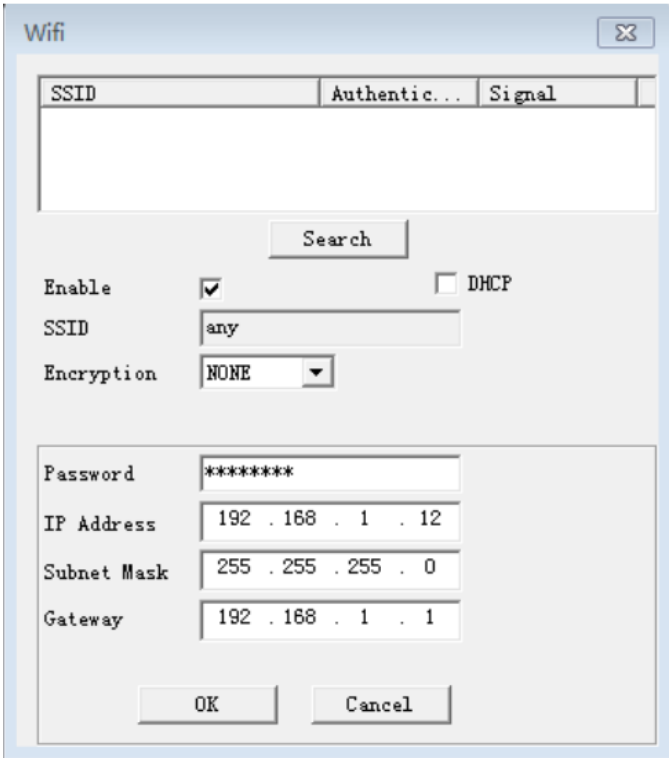



Chart WIFI config

[Search]：Click search to get wireless router nearby and display these info above；

[DHCP]：Get IP address automatically；

[SSID]：Specify the name of the wireless router；

[Password]：Password of wireless router；

[IP address]：Set the camera wireless IP address；

Encryption mode, subnet mask, default gateway should same as the wireless router.

【3G】Install 3G card to connect network, support China mobile, China Telecom , China Unicom and other operators of 3G network.

【Alarm Center】Upload alarm info to designated alarm center；

【RTSP】Support preview multi-Brower (Safari, Google, Firefox) and VLC to preview.

Note： Install QUICKTIME plug-in before use Safari, Google, Firefox.

【DAS】Compatibility MYEYE after enable it，refer Appendix II MYEYE monitoring platform instruction to check more details；

【Cloud Service】Refer Appendix III cloud instructions to check more details；

【Mobile report】Alarm information push, the speed dome can push alarm info to mobile with XM Cloud after enable it.

### 5.3.5. Output mode

Click【Output mode】， popup【Output mode】config menu，as following：

Chart Output mode

【Chanel name】Click to set channel name of IPC, support max to 42 characters；

【Region Cover】Set the camera coverage area number, location and size, can set up four coverage area.

【Time Title, Channel Title】Set whether the time title and channel title displayed and set the display area.

### 5.3.6. PTZ config

Click【PTZ config】， popup【PTZ config】config menu，as following：

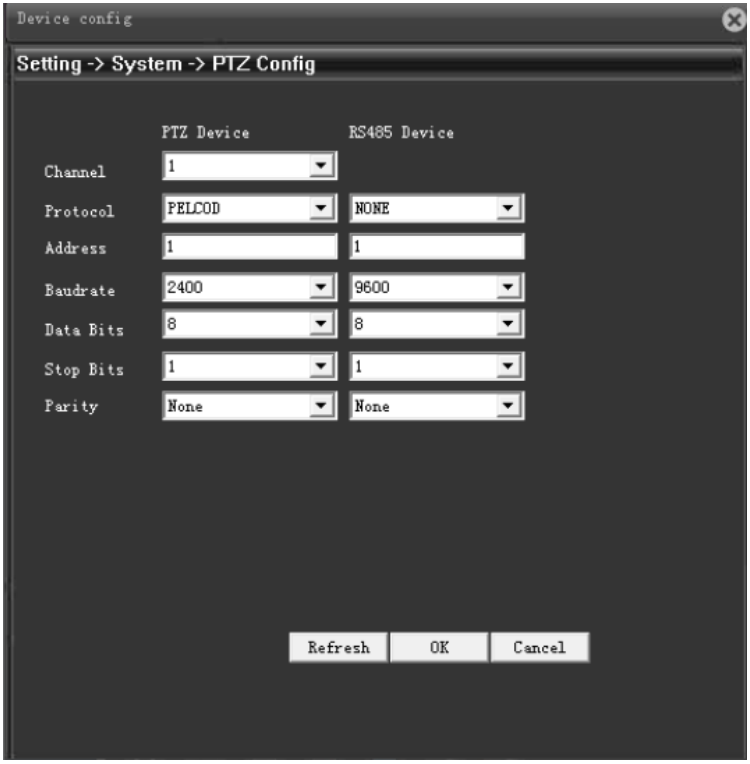



Chart PTZ

【Protocol】Choose the protocol which your PTZ support；

【Address】Set the PTZ address, default is 1；

【Bitrate】Set bitrate which your PTZ support, default is115200；

【Date Bits】You can choose 5-8， default is 8；

【Stop Bits】You can choose 1 or 2， default is 1；

【Parity】You can choose old parity、even parity、mark parity、null parity，default is none.

Note：PTZ might break down when any of the following mismatch with the PTZ: protocol, address, bitrate.

### 5.3.7. Series port config

Click【Series port config】， popup【Series port config】config menu， as following：

PTZ might break down when any of the following mismatch with the PC: protocol, baud rate, bitrate.

Chart Series port

### 5.3.7. Camera parameters

Click【Camera parameters】， popup【Camera parameters】config menu，as following：

【Exposure Mode】Config the exposure time, can be switched between auto/manual,1/50 to 1/10000S.The shorter the exposure time, the darker the preview screen；

【Day/Night Mode】Modify day/night mode manually：

Auto: The camera automatically controls color of the preview screen according to the actual lightness.

Color: The camera remains color preview screen instead of turning black and white when there is insufficient light.

Black/white: Camera preview turns black/white even there is sufficient light.

【BLC】Turn off or turn on. After enable BLC, main scenery of the center can be seen under bright environment.

【Auto Iris】Turn off or turn on. This function acquire the lens of camera should be auto Iris；

【Profiles】Automatic, indoor and outdoor；

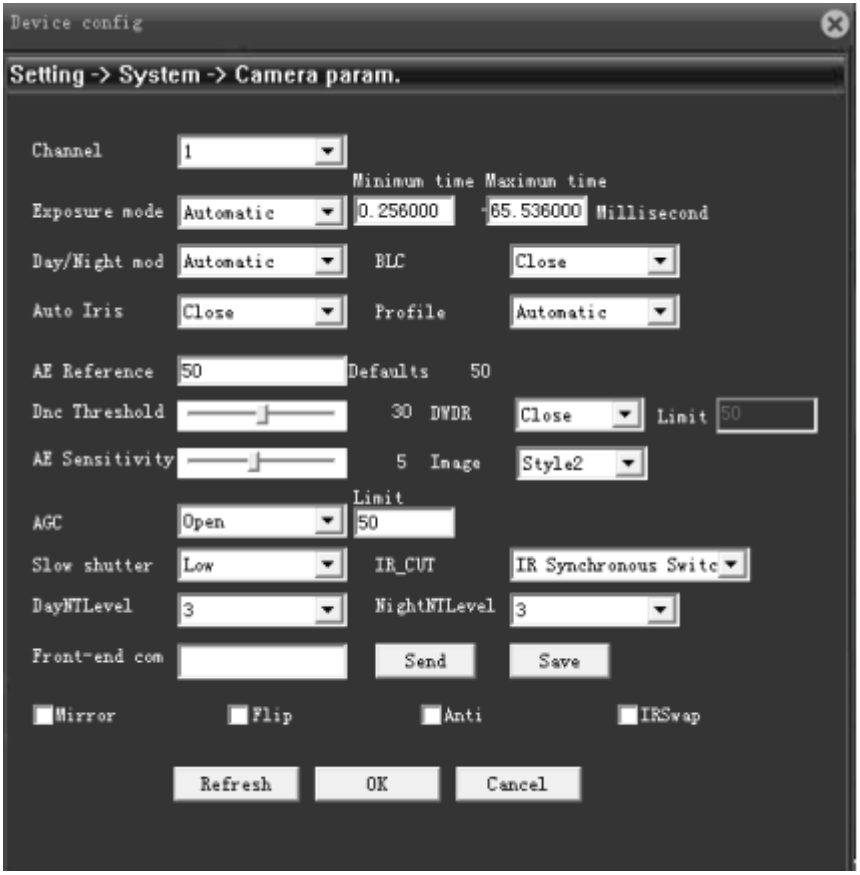



Chart Camera Parameter

【Auto Exposure Reference】 Set the camera's exposure, select between 0 and100, the larger the reference value, the brighter the preview screen, whereas darker.

【Day & Night Threshold】Associated with IR_CUT switching modes：

IR_CUT automatic switching mode: automatic day and night mode is the critical point, the threshold greater the higher the brightness, whereas lower.

IR_CUT IR synchronous switching mode: anti-shake function, in case IR CUT switch frequently according to the lightness changed.

【WDR】: Set the WDR closed or open. When WDR is on, adjust the cap under bright background to see the main scenery clearly.

【Fog】: Set fog closed or open. When in fog day, enable this function will improve the image quality. The level is higher the effect is better.

【AE Sensitivity】 When light dramatically changes, the length of time the camera takes to adapt to the light changes. The sensitivity is higher, the shorter time to adapt.

【AGC】Set AGC closed or open. Automatically adjust the sensitivity of the camera according to the light changing to adjust the screen brightness.

【E Slow Shutter】Set the electronic shutter off, weak, medium or strong to increase the brightness by accumulation, to prolong the exposure time to enhance the image sensor under low light illumination.

【IR_CUT】Set as automatically switch or infrared synchronous switch:
Automatic switch: IR CUT switch according to the brightness level of the actual environment.
Infrared Salvos: IR CUT switch is determined by the state of infrared light.

【Day Noise level】Eliminate the screen lit when the light is sufficient, the higher the level, the better the reduction;

【Evening Noise level】Eliminate the preview screen noise level when there is insufficient light, the higher the noise level, the better.

【Mirror】When you enable it, the preview screen flip around 90 °.

【Flip】When you enable it, the preview screen turn upside down 90 °.

【Fluorescent anti-flash】To get rid of the horizontal fluorescent stripes of preview screen with fluorescent lamp.

【IR lens reverse order】Enable it when IR_CUT reverse order.

## 5.4. Management Tool

Click【Management Tool】, popup【Management Tool】 config menu，as following：

You can HDD management, user management, automatically maintain, restore default, import and export, restart, system upgrades and other functions.

Chart Management Tool

### 5.4.1. HDD management

Click【HDD management】, popup【HDD management】 config menu, as following:

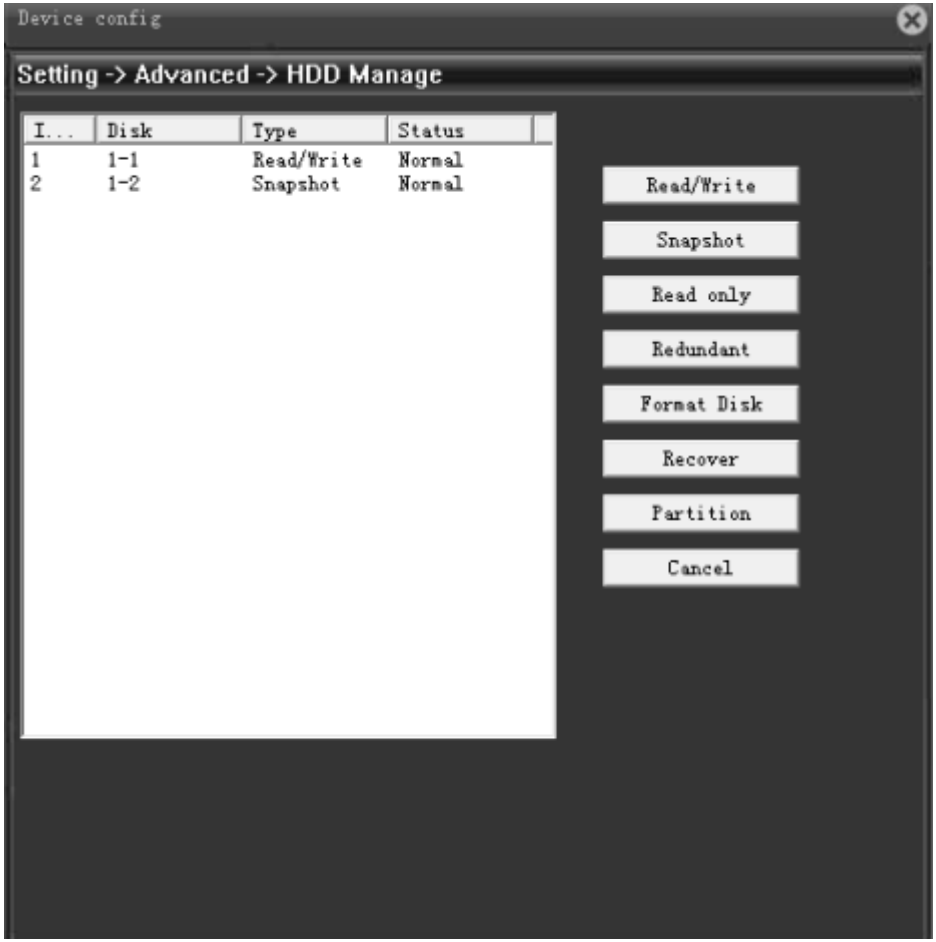



Chart HDD management

【Set to read-write】: The partition or TF card can be used for recording only.

【Set to snapshot】： The partition or TF card can be used for capture only.

【Set to read-only】: New recordings or capture files cannot be written in the partition or TF card, can playback only.

【Format the disk】： Format the partition or TF card and delete all

【Partition】： TF card for partition. Can be divided into read-write and snapshot.

Attention：①We recommend Genuine Kingston TF card, capacity greater than or equal 4G.
②Make sure that each partition larger than 1024M.
③Format TF card before partition, data will be lost.

**5.4.2. User Management**

Click【User Management】, popup【User Management】 config menu，as following：

Chart User Management

【Modify User】： Modify the added user name, whether reuse, notes, group, class, and permissions.

【Modify Group】： Modify the added group name, notes and permissions.

Note: Admin group and user name cannot be modified.

【Change Password】： Change the password.

【Add user】：Set new user name, password, notes, owning group, permissions and other information, can add up to 64 user names.

【Add Group】：Configure the name, notes, permissions and other information of added group.

Note：The characters of user name and group cannot larger then 8, Spaces in the beginning or ending is invalid, you can input Spaces in the middle. Legal characters: letters, numbers, underline, minus sign and point. Others are not allowed.

【Delete user】： Delete the selected user, cannot delete the registry.

【Delete group】: Delete the selected user group, when the group contains the user, it cannot be deleted.

Note: Admin user and combined user cannot be deleted.

### 5.4.3. Auto Maintenance

Click【Auto Maintenance】，popup【Auto Maintenance】 config menu，as following：

Chart Auto Maintain

【Automatic restart】: Set the camera automatically restart at some point during the day, the default restart 1:00 Tuesday

【Automatically delete old files】: System will automatically delete videos and drawings within 1-255 days, the default is never deleted.

### 5.4.4. Restore Default

Click【Restore Default】, popup【Restore Default】 config menu，as following：

Chart Default

It is available for general configuration, encoding settings, video settings, alarm settings, network settings, etc. Single, multiple or all the settings can be restored by default.

### 5.4.5. Import and Export

Click【Import and Export】, popup 【Import and Export】 config menu，as following：

Chart Import Export

【Configuration Export, Import】： Export current config file, the CFG file format can be imported into another camera with same configuration.

Note: Import one config file into multiple cameras, the IP address are the same, user need to modify the IP address manually.

【Export Log】： Export camera log information.

### 5.4.6. Restart

Click【Restart】，popup 【Restart】 warming tip，click ok, IPC will reboot.

### 5.4.7. System Upgrade

Click【System Upgrade】， as follows， Select the correct upgrade file via browsing, click Upgrade to begin the upgrade, the upgrade process will be displayed, pop-up dialog box when upgrade is successful, the camera automatically soft reboot when the upgrade is complete.

Chart System Update

## 5.5. System Info

Click 【System Info】, as follows, HDD info, log info, version info can be searched .

Chart System Info

### 5.5.1. HDD info

Click 【HDD info】, as follows， total capacity, remaining capacity, begin and end recording time and other information can be searched.

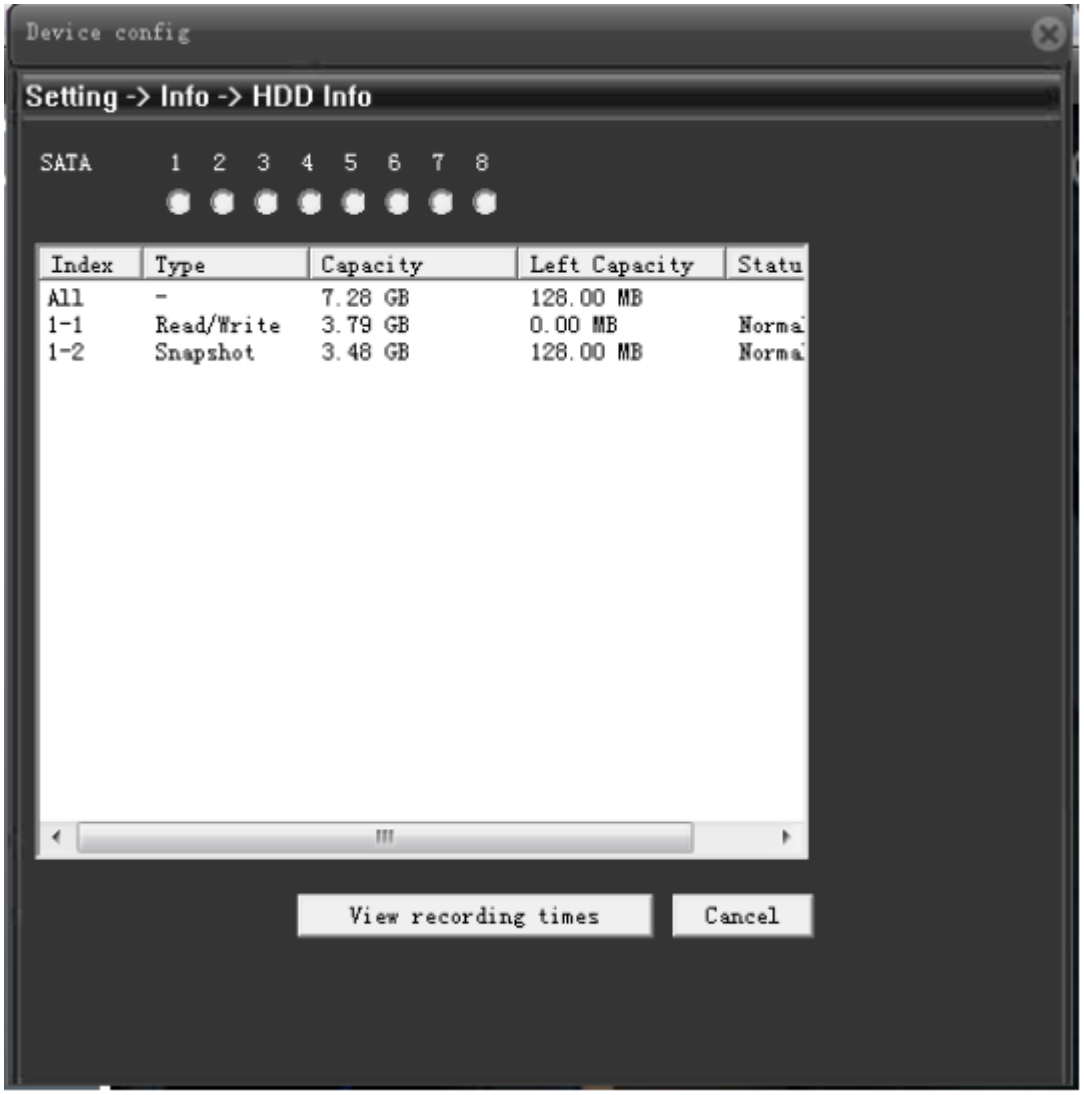



Chart HDD info

【Drive type and capacity】：Check the partition type, total capacity, remaining capacity, and status information.

【DVR time】： Check start time and end time of the recordings and capture. 5.5.2. Log info

Click 【Log info】as follows， all info or parted info can be searched

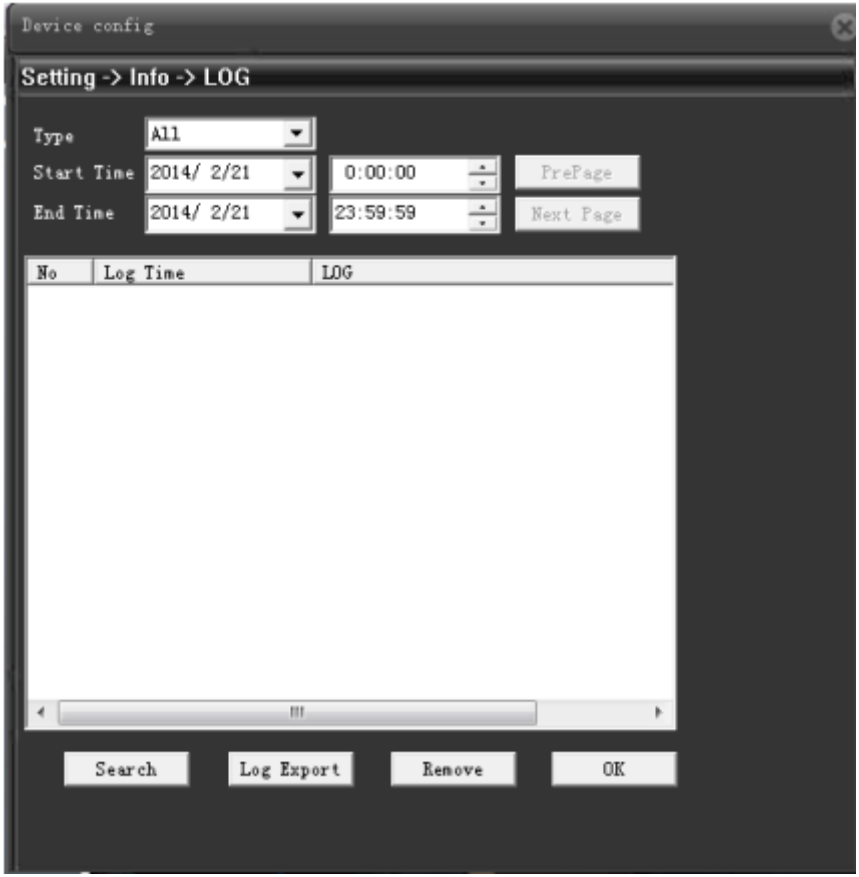



Chart HDD info

【Type】：Check the log info, including all, system operation, configuration operations, data management, alarm events, recording operation, user management, file operations.

【Start, end time】：Check the start time and end time of the log. Results show only the log information within time period

【Query】： Query all logs.

【Previous/Next】It can show 128 items in one page, click previous/next to operate.

【Export Log】： Export log information.

【Empty】： Clear all log information.

### 5.5.3. Version Info

Click 【Version Info】as follows， HDD info, program version and serial number can be searched

5-31

【Video channel, extended channel, alarm input, alarm output】： Display the current camera hardware, support alarm input and output.

【System Version】： Display the camera model and other information.

【Release Date】： The current program release time.

Note: Contact company's technical staff, provide system version and release dates for technical
support.

【System uptime】：The total running time after power is on.

Note: After reset, the system uptime is cleared.

【Serial number】： 16 bit serial number for cloud services.

【NAT Status】：When the camera is connected to cloud server, it shows “connected”, otherwise shows “probing DNS”.

【NAT Code】：Camera connects to cloud services, displays IP address of the server.

# Chapter 6 After-sale Service & Maintenance

## 6.1. Installation and service

Contact our maintenance department when you have questions during installation. Barcode should be well kept for fast and convenient service.

## 6.2. Product Repair

Please return the product in accordance with the relevant provisions of the transport of the product, ensure that the product suffers no damage during the way back, avoiding unnecessary disputes. Remember not to try to dismantle the cover and repair yourself to avoid electric shock or other risks. We recommend that all maintenance services done by professionals. Warranty Information

Warranty period： One year. The warranty card work for the products you bought from us.

1. Within warranty period, when there is breakdown under normal conditions, we will provide free repair service with the warranty card and purchase bills you have;

2. The following situations need extra pay during the warranty period：

（1）Physical damage；

（2）Beyond the warranty expiration date or free maintenance period;

（3）Any failure or damage caused during use, maintenance or custody against the manual book;

（4）Abnormal situations caused by illegal copy, non-standard, self-written or third-party software.

（5）Abnormal situations caused by falling, squeezing, high temperature, corrosion, poor electrical environment or other non-normal reasons.

（6）Breakdown or damage caused by natural disasters, war and other force majeure factors.

（7）Breakdown caused by unauthorized service agencies or disassemble, repair their personnel.

（8）Without company name, company address, production date, serial number, warranty card, or serial number and stickers blurred, damaged, unknown.

**warranty card：**

| | | | |
|---|---|---|---|
| Product Name | | Model | |
| Product Date | | Dealer | |
| Purchase Market | | | |
| Customer Name | | Profession | |
| Telephone Number | | Zip Code | |
| Work Units | | | |
| Current Address | | | |

1. Please send the device back with the

warranty card and bill if you need Warranty and maintenance, transportation costs are on the user.

2. Plus take care of the card for better service.