

IP EQUIPMENT WEB

User manual

V1.0

Thank you for purchasing our products, please contact with us anytime if you have any question or requirement .

It is possible that there might be inaccurate places, inconsistencies between function and operation or print mistakes. We will update the manual according to the technical change, and shall not notify in advance with only renewing the manual contents.

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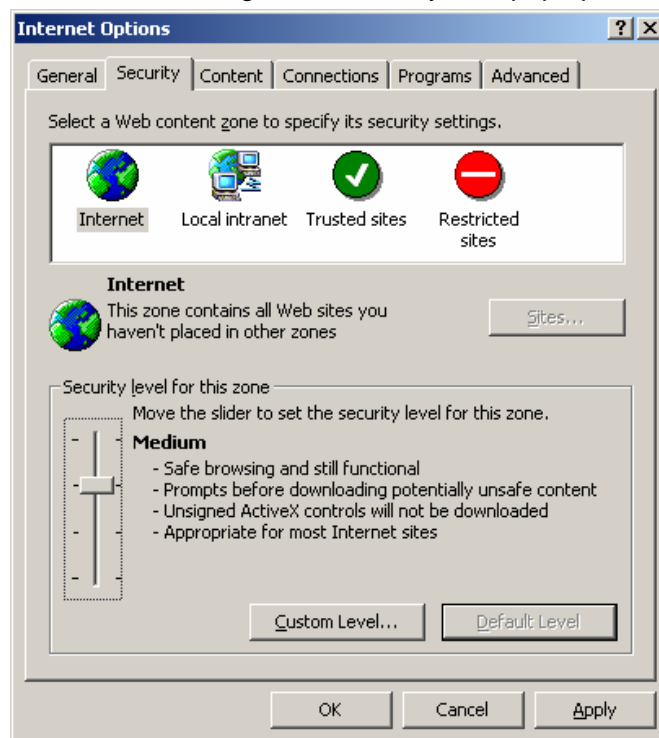
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First chapter web logging in

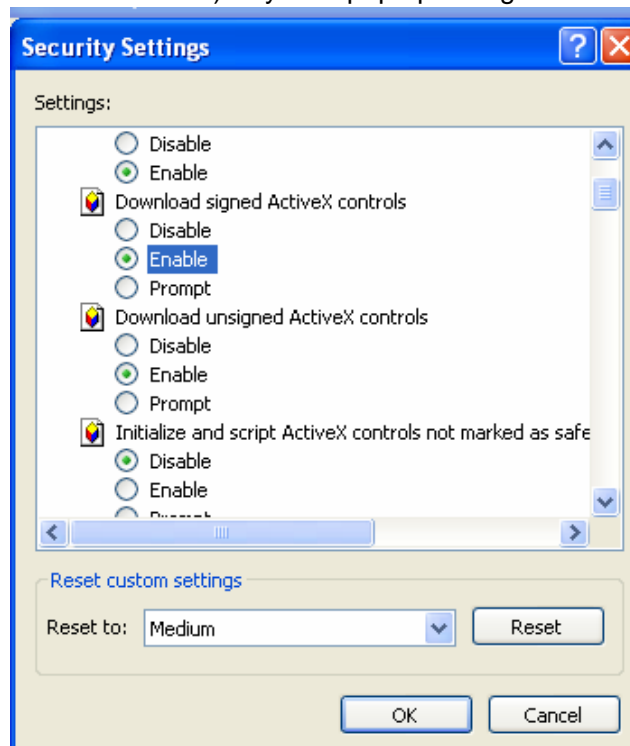
1.1 ActiveX control setting

Before the WEB log on, we need to set IE Activex controls first.

Clicking the right mouse , selecting "Attribute", system pop up dialog as follows:




Select "security" "Custom level"), system pop up dialog as follows:



Put options "download unsigned Actives control" to be enabled. Or directly put the Internet safety to a minimum.

1.2 WEB login

After ActiveX to be set ,click  icon on the desktop, open IE browser, input the IP address of the IP equipment which you want to land in the IE browser address bar. Press the Return Key (ENTER), and ensure be right to enter your user name and password in login dialog then you can access IP equipment. The default IP address of IP equipment is: 192.168.0.120, the default IP equipment user name and password are: admin



The second chapter device configuration

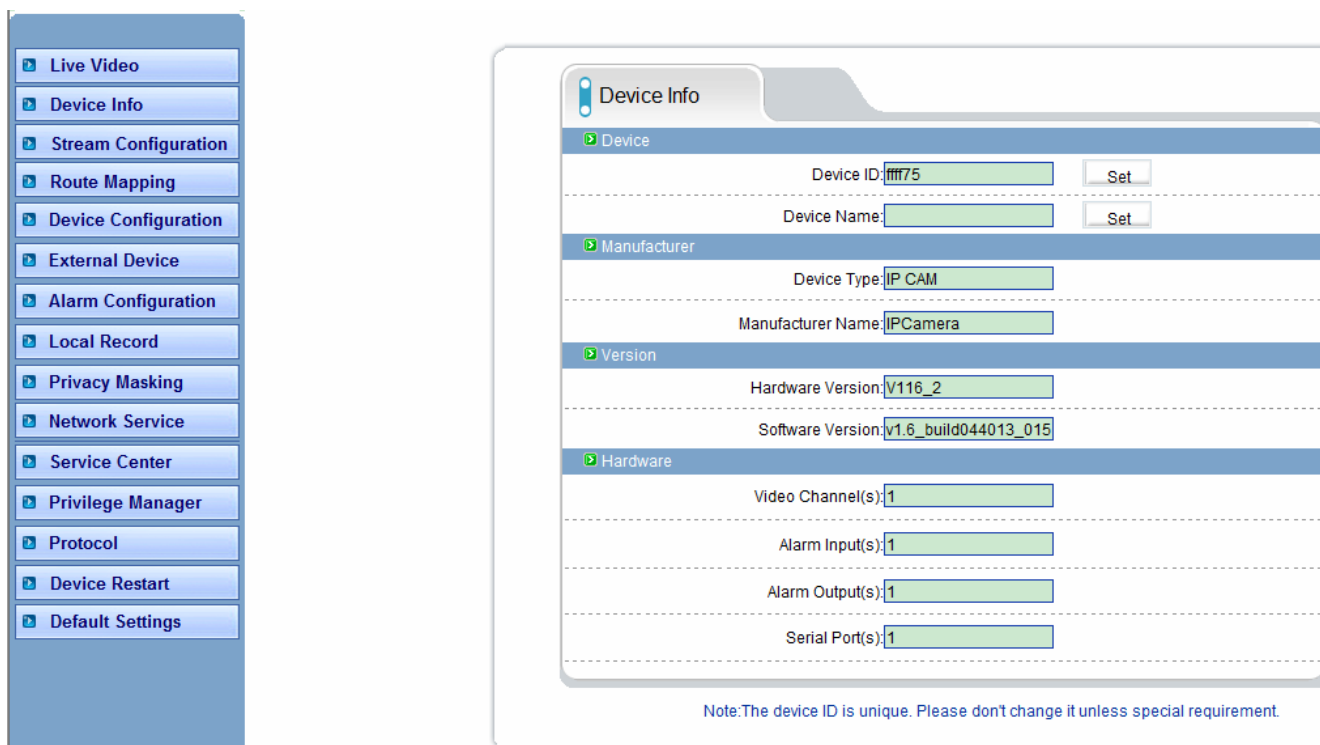
2.1 live video

After inputting the right user name and password of the IP equipment , namely into the "live video" interface of the IP equipment.

In addition to watch the live video, we still can set and control PTZ of IP equipment .Double-click the left mouse button can enter or exit full screen video.

2.2 Equipment information

Click features list no the left, select "equipment information", then can display the current IP equipment information such as hardware and software etc. as the following figure shows:



Device Info

Device

Device ID:

Device Name:

Manufacturer

Device Type:

Manufacturer Name:

Version

Hardware Version:

Software Version:

Hardware

Video Channel(s):

Alarm Input(s):

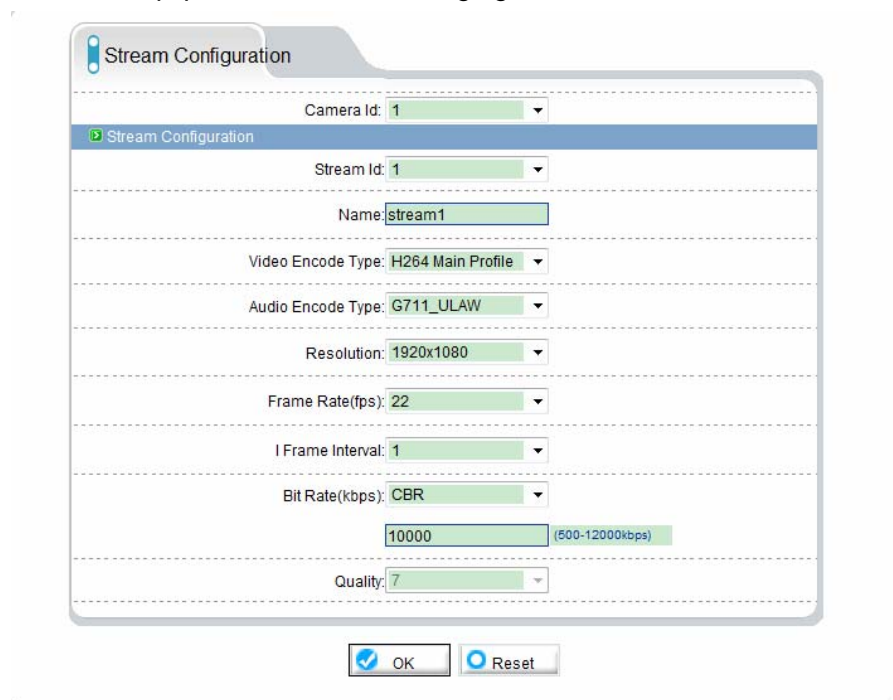
Alarm Output(s):

Serial Port(s):

Note: The device ID is unique. Please don't change it unless special requirement.

2.3 stream configuration

Click features list on the left, select "Stream configuration", then you can configure stream video for the current IP equipment. As the following figure shows:



Stream Configuration

Camera Id:

Stream Configuration

Stream Id:

Name:

Video Encode Type:

Audio Encode Type:

Resolution:

Frame Rate (fps):

I Frame Interval:

Bit Rate (kbps):

(500-12000kbps)

Quality:

Each device can be configured for different video stream; each device can be configured with up to three different video streams.

Resolution: According to the actual resolution to actual resolution of IP equipment divided :into :1280x1080/1280x960/1280x720/1600x1200/D1/CIF/QCIF etc.

Frame rate: the video formats of P frame rate the most up to 25 frames, the video formats of N frame rate the most up to 25 30 frames.

I Frame interval: time interval between I frames divided into 1/2/3/ seconds three types , for higher bit rate of the screen, should shorten frame spacing. The smaller frame interval, it is good to increase position accuracy of video return, and advantageous to the network video when the recovery of shaking. If frame interval become small, the video streaming will become big, so suggest using default value 2 seconds,

Bit Rate: including CBR and VBR two choices .CBR is fixed bit rate, and can manual input fixed bit rate values; VBR that is variable bit rate, can be in 1-9 choose within quality .The higher the quality values is, the clearer images will .VBR is bit rate for the limiting value, namely limit the numerical values of variable bit rate, such as the bit rate input for 10000,no matter how much is quality value, variable bit rate maximum values don't more than 1000.

2.4 Route Mapping

Through the routing mapping IP equipment can be realized to visit WAN nets through a router.

The router address :fill the router WAN address, support filling in domain name address, such as test.gicp.net。

Control mapping port should remain consistent with control ports of "device configuration"-“equipment port”

This function detailed please refer to the document “set instructions of IP equipment WAN nets visit”.

2.5 Device configuration

2.5.1 Local Network

Local Network

IP Protocol: IPv4

IP Address

Device obtain an IP address automatically

Device user the following IP address

IP Address: 192.168.0.117

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.1

DHCP IP:

DNS

Preferred DNS Server: 192.168.0.1

Alternate DNS Server: 192.168.0.2

OK Reset

It Can set the network IP camera address, subnet mask, gateway, DNS and other network parameters, If it is used in local area network You should be careful that not to set up the internal LAN IP address and computer IP address conflict .If you want to modify equipment IP protocol, the client must restart the selection of the corresponding IP protocol registry.

If you want to use the IPv6 protocol equipment, first in the IP protocol IPv6 protocol options to choose and modify the network parameters, click on the "Apply" button.

2.5.2 Device port

Device Port

Device Port

Control Port: 30001

Http Port: 80

RTSP Port: 554

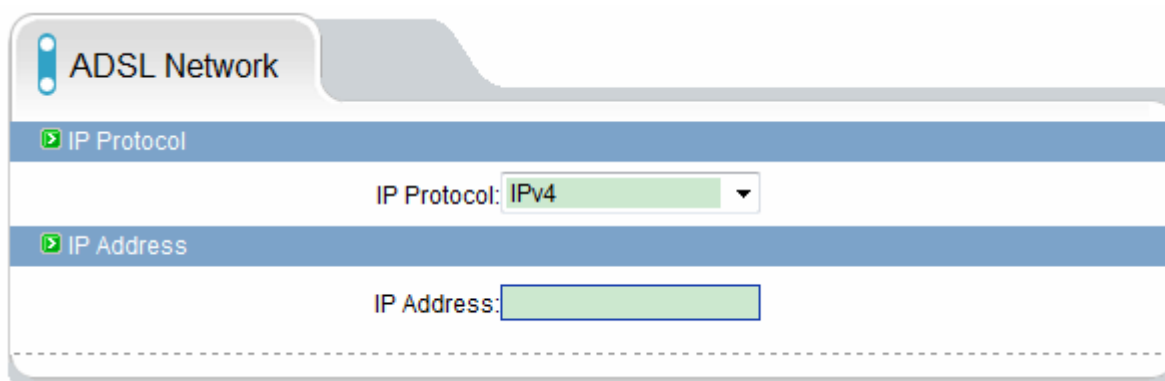
OK Reset

Control port: The default is 30001, including the parameters of reading and writing, PTZ control are both through this port to control;

TCP audio and video port: The default is 30002, for the TCP protocol under the audio and video transmission which needs of the port number.

Http Port: Default is 80, for Web access to use the port number. If you change it to another port number, you need add “: port number” in the address bar at the end. For example, the equipment which IP is 192.168.10.96 and the Http port is changed to “8080”, you could enter the http://192.168.10.96:8080 in the IE browser's address bar to access the network device through the Web.

2.5.3 ADSL Network



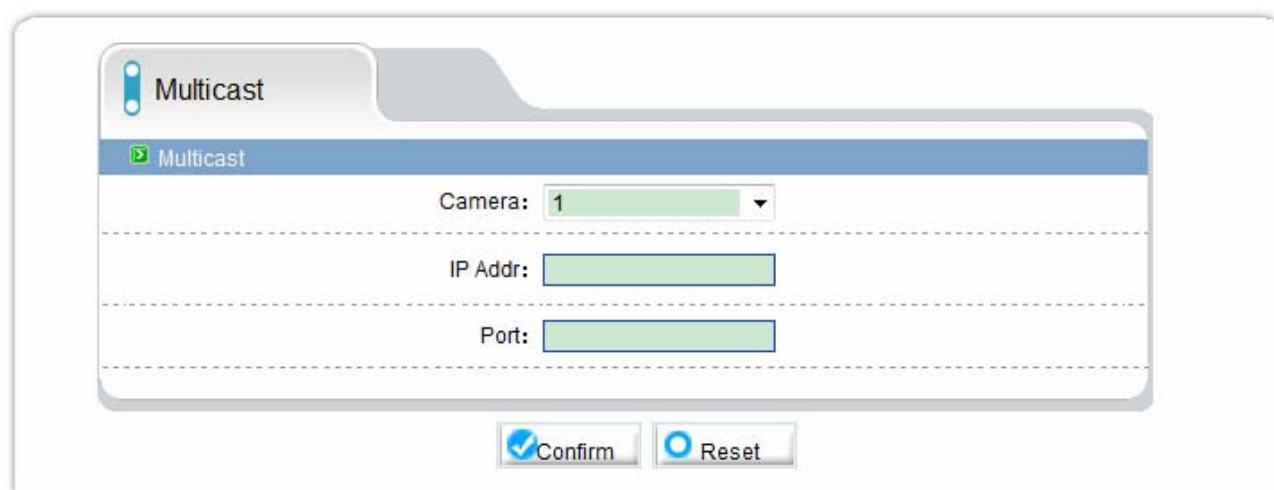
ADSL Network

IP Protocol: IPv4

IP Address:

When the user set "Network Service" "PPPoE parameters", after the success of dial-up equipment, Equipment's WAN network IP address will appear in the page.

2.5.4 multicast



Multicast

Multicast

Camera: 1

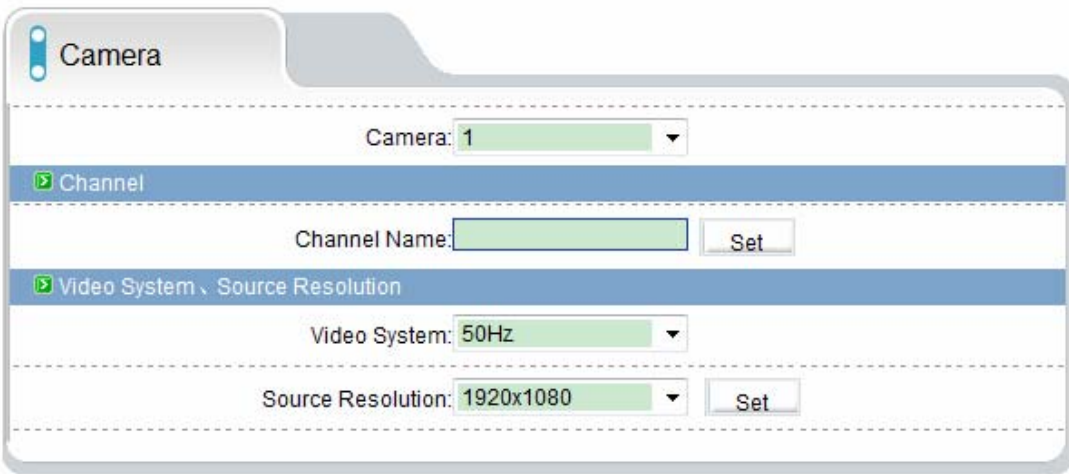
IP Addr:

Port:

Confirm Reset

This function can make a single flow provide more network receivers.

2.5.5 camera



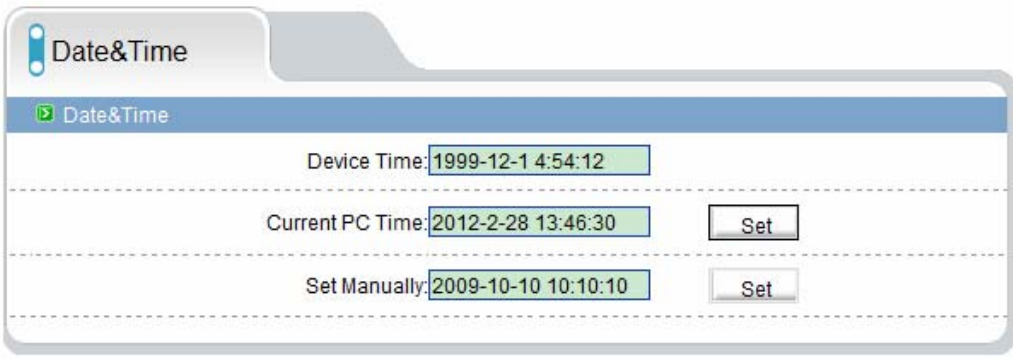
The screenshot shows a web interface for camera configuration. At the top, there is a tab labeled "Camera". Below the tab, there is a dropdown menu for "Camera" with the value "1" selected. Underneath, there is a section titled "Channel" with a sub-section "Channel Name" containing a text input field and a "Set" button. Below that is a section titled "Video System \ Source Resolution" with a sub-section "Video System" containing a dropdown menu with "50Hz" selected. At the bottom, there is a sub-section "Source Resolution" containing a dropdown menu with "1920x1080" selected and a "Set" button.

Camera name: option the camera that need to set up, you can set the camera both English and Chinese name. Name of the success of the camera settings will be displayed in real-time monitoring--Device list.

Video formats whether to modify the device's PAL/NTSC system is based on the device model support.

Source resolution: set video source resolution for the 4:3 or 16:9.usually D1 resolution for the 4:3,704x384 resolution for 16:9.

2.5.6 Date & time



The screenshot shows a web interface for date and time configuration. At the top, there is a tab labeled "Date&Time". Below the tab, there is a section titled "Date&Time". Underneath, there are three rows of configuration options. The first row is "Device Time" with a text input field containing "1999-12-1 4:54:12". The second row is "Current PC Time" with a text input field containing "2012-2-28 13:46:30" and a "Set" button. The third row is "Set Manually" with a text input field containing "2009-10-10 10:10:10" and a "Set" button.

Select the method to use for setting the time: one is to set the time according to the clock on your computer; another is to manually enter the time and date.

2.5.7 OSD settings

OSD

Camera: 1

OSD

Device Name

Row: 0 Column: 0

Channel ID

Row: 1 Column: 0

Channel Name

Row: 2 Column: 0

Time

Row: 3 Column: 1

Time Format: YYYY-MM-DD hh:mm:ss ww

Custom

Row: 4 Column: 0

Custom OSD:

Respectively for different resolutions of network device to set OSD parameters, including: device name, channel number, channel name, time and custom OSD. OSD settings will be held at the image on the overlay.

2.5.8 Microphone setting

Microphone

Camera: 1

Microphone

Enable Microphone

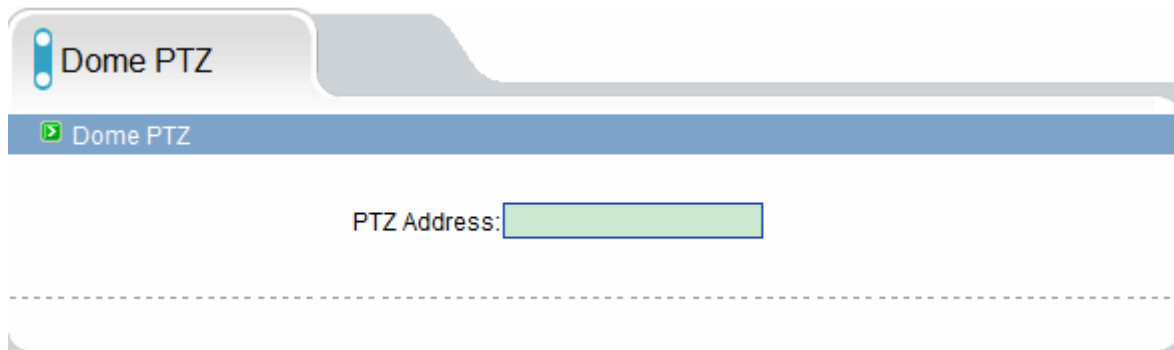
Microphone Type: Internal

Microphone Type:

internal: built-in microphone.

External: IP Camera equipment to the Audio In interface panel by the external microphone access.
Line in: conveying the voice signal of other equipment to the camera through signal transmission lines.

2.5.9 Dome PTZ



Dome PTZ

Dome PTZ

PTZ Address:

IP high-speed ball can set PTZ address bits through this function.

2.5.10 system service



System Service

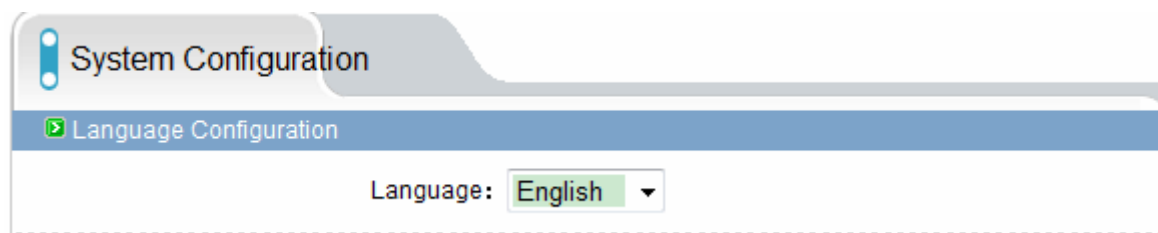
System Service

FTP Server

Telnet Server

Note: The IP Camera provides advanced functions that allows professional users to debug by themselves. We strongly recommend that you do not use this function unless you fully understand the consequences.

2.5.11 system Configuration



System Configuration

Language Configuration

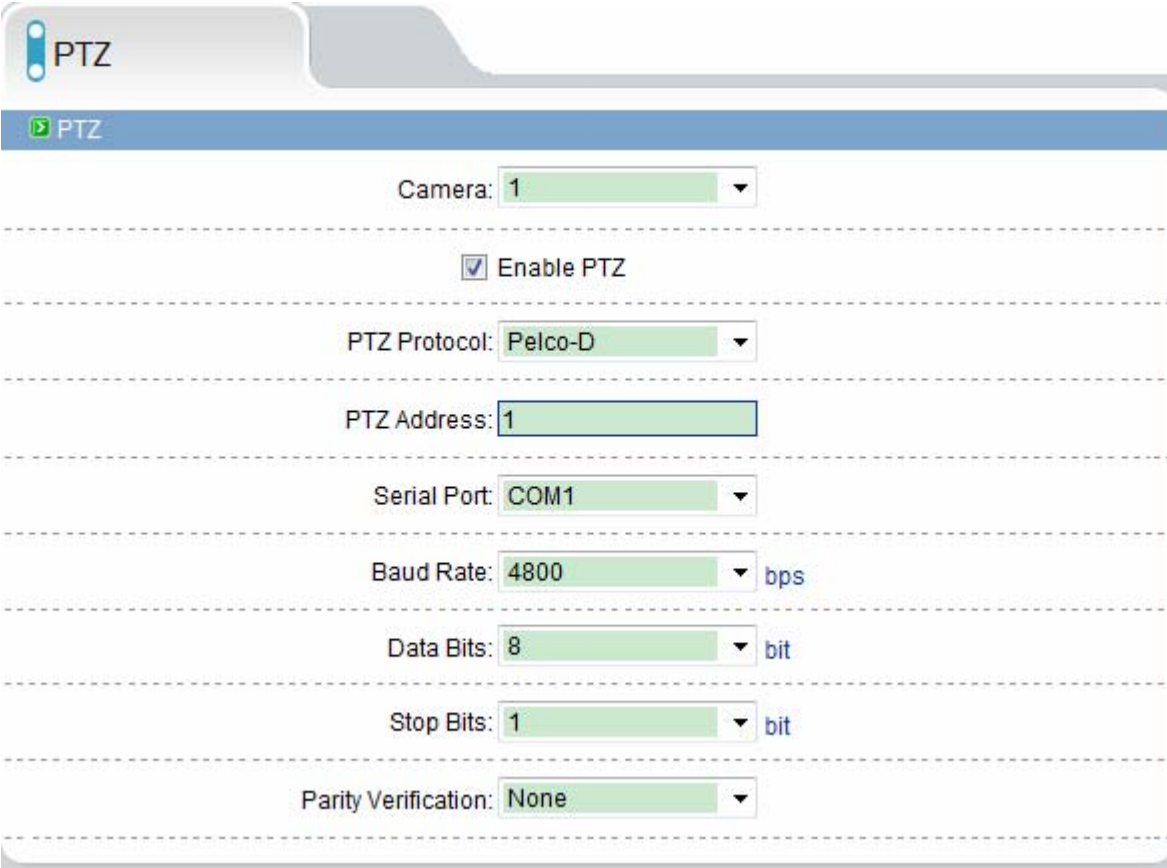
Language:

Change the language for week OSD and alarm E-mail of the IP device.

2.6 External Device

IP equipment can connect external equipment such as external PTZ、PTZ keyboard and currency counting.

2.6.1 PTZ



Camera: 1

Enable PTZ

PTZ Protocol: Pelco-D

PTZ Address: 1

Serial Port: COM1

Baud Rate: 4800 bps

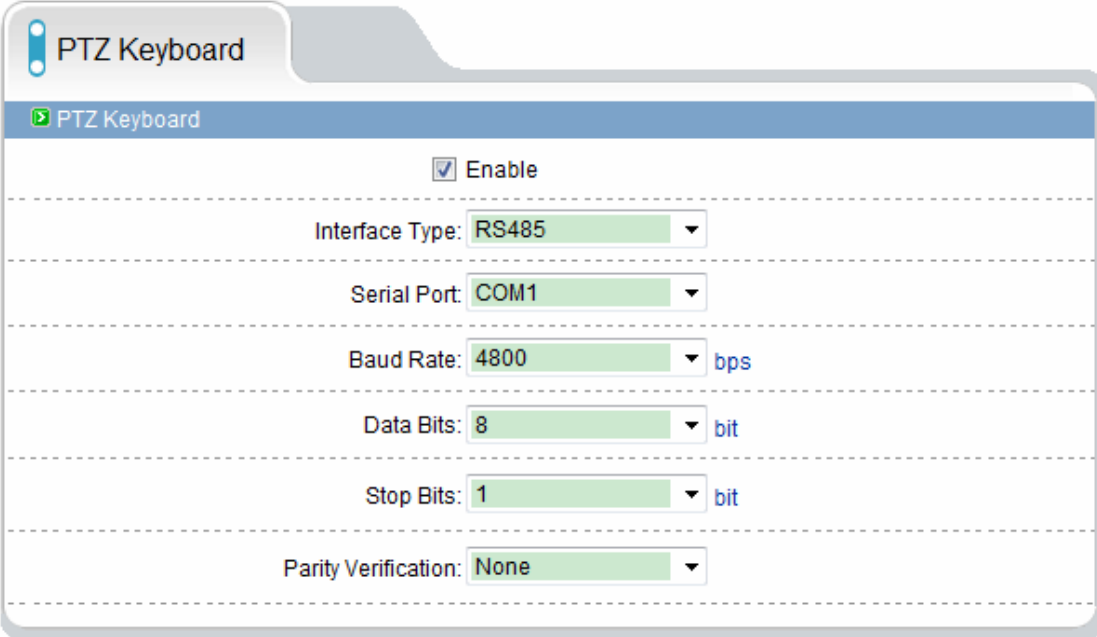
Data Bits: 8 bit

Stop Bits: 1 bit

Parity Verification: None

When connect external PTZ , you can configured PTZ agreement address、 bit rate 、 data bit .

2.6.2 PTZ Keyboard



Enable

Interface Type: RS485

Serial Port: COM1

Baud Rate: 4800 bps

Data Bits: 8 bit

Stop Bits: 1 bit

Parity Verification: None

When connect PTZ keyboard ,you can configure interface type、 serial ports、 bit rate、 data bit.

2.6.3 cash Registers

Cash Registers

Enable

Row: 0 Column: 0

Channel:
1

Interface Type: RS485

Serial Port: COM1

Baud Rate: 4800 bps

Data Bits: 8 bit

Stop Bits: 1 bit

Parity Verification: None

When connect external cash, can add the number that currency counting counts to the video though OSD.

Note: this function needs especial external equipment to support.

2.7 alarm configuration

Alarm configuration, including alarm I/O port configuration, Disk warning, I/O alarm linkage, and motion detection alarm..

2.7.1 Alarm I/O Parameter Configuration

Alarm I/O

Alarm In

Alarm In: 1

Name: one

Valid Voltage Level: High

Alarm Out

Alarm Out: 1

Name: one

Valid Signal: Close

Alarm Out Mode: Switch Mode

Frequency: 0 Hz

Alarm Time: 125634 ms (0:Alarm forever)

Alarm input: Select the alarm input configuration ID, the alarm can be chose the effective level. Effective level include: high and low two options. When you select high effective input port when access to high level alarm that is triggered by alarm signals, When you select low effective input port when the alarm signal that is triggered off high alert.

Alarm output: Select the alarm output configuration ID, the effective signal, alarm mode and alarm output timing parameters.

Effectively including closed and disconnects signals two options: Alarm output model, including switch-mode and square-wave mode, When the choice of square-wave mode, can fill in the frequency of square-wave output, unit is Hertz.

Note: the unit of Alarm Time is millisecond.

2.7.2 Disk Alarm configuration

Disk Alarm

Disk Full Alarm Configure

Disk Full Alarm

Max Disk Space: 30 %

Disk Error Alarm Configure

Disk Error Alarm

Disk Alert configuration including: disk error alarm and disk full alarm. Disk alarm will be recorded in the alarm log.

2.7.3 I/O Alarm Linkage configuration

Note: Before the opening of the record, we must first configure the "Local Record" "Record Policy" parameter.

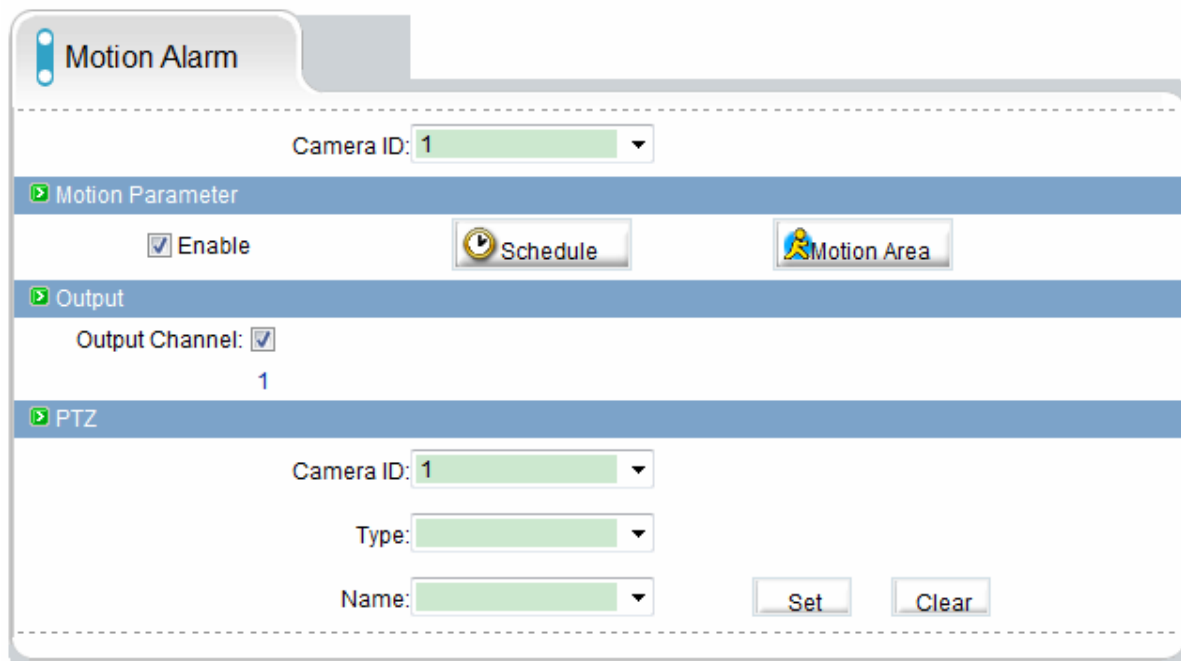
Options need to configure the alarm I/O of the ID number, can be configured in the Alarm I/O trigger the alarm when the linkage. Including whether the alarm output and whether or not such as the opening of PTZ.

First of all, check "Enable IO alarm ", and then click on the "Time Setting" set the I/O warning time of deployment:

Schedule Time Setting						
Week	Period 1		Period 2		Period 3	
	Begin Time	End Time	Begin Time	End Time	Begin Time	End Time
Monday	0:00	23:30	0:00	0:00	0:00	0:00
Tuesday	0:00	23:30	0:00	0:00	0:00	0:00
Wednesday	0:00	23:30	0:00	0:00	0:00	0:00
Thursday	0:00	24:00	0:00	0:00	0:00	0:00
Friday	0:00	24:00	0:00	0:00	0:00	0:00
Saturday	0:00	24:00	0:00	0:00	0:00	0:00
Sunday	0:00	24:00	0:00	0:00	0:00	0:00

2.7.4 Motion Alarm configuration

Note: Before the opening of the record, we must first configure the "Local Record" "Record Policy" parameter.



The screenshot shows the 'Motion Alarm' configuration page. At the top, there's a 'Camera ID' dropdown menu set to '1'. Below this are three main sections: 'Motion Parameter', 'Output', and 'PTZ'. In the 'Motion Parameter' section, there is a checked 'Enable' checkbox, a 'Schedule' button with a clock icon, and a 'Motion Area' button with a person icon. The 'Output' section has a checked 'Output Channel' checkbox and the number '1' below it. The 'PTZ' section includes another 'Camera ID' dropdown set to '1', a 'Type' dropdown menu, a 'Name' dropdown menu, and 'Set' and 'Clear' buttons.

Options the camera that need to configure ID number, can be configured to detect movement of the camera to trigger the alarm when the linkage. Including whether the alarm output and whether or not such as the opening of PTZ.

First of all, select "Enable Motion Detection", then click on the "Time Setting" set the camera to detect movement of the deployment time.

Schedule Time Setting						
Week	Period 1		Period 2		Period 3	
	Begin Time	End Time	Begin Time	End Time	Begin Time	End Time
Monday	0:00	23:30	0:00	0:00	0:00	0:00
Tuesday	0:00	24:00	0:00	0:00	0:00	0:00
Wednesday	0:00	24:00	0:00	0:00	0:00	0:00
Thursday	0:00	24:00	0:00	0:00	0:00	0:00
Friday	0:00	24:00	0:00	0:00	0:00	0:00
Saturday	0:00	24:00	0:00	0:00	0:00	0:00
Sunday	0:00	24:00	0:00	0:00	0:00	0:00

At the bottom of the table, there are 'OK' and 'Close' buttons.

Require the deployment of the week, and set the beginning and ending days of deployment time, click the "Add" button, click "OK" button.

Click on "Detection of regional Configuration":

Area Motion: Press and hold the left mouse button on the video in order to facilitate the sliding region configured to detect regions, when the need to remove the detection region can click the right mouse button. The most mobile region can not detect more than eight.

Area mask: Hold down the left mouse button within the region to add a mask area, when the need to remove the mask area, you can click the right mouse button.

Note: The maximum number of areas is 8.

2.8 local Record

Local recording settings is the SD card, NAS and FTP video parameters. Once configured, the device can record video directly to a SD card, NAS and FTP.

2.8.1 Record policy

recorded continued for 10 seconds, Trigger motion detection for the duration of 5 seconds, While recording the total length =10+5+10=25 seconds.

Days to keep video: Retain the largest number of days for 9999 days.

Stream: Recording selected video stream ID.

2.8.2 Record Directory

Three default directory include SD card, NAS and FTP when setting the video equipment directory.

The screenshot shows a configuration window titled "Record Directory" with a sub-header "Record Directory Information". The fields are as follows:

- Disk Name: SD1
- Disk Type: SD Card
- Group ID: 1
- Enable Flag: Yes
- Usable Space: 0 M
- Status: N/A
- File System: unknow

A "Modify" button is positioned at the bottom center of the window.

1. **SD card:** SD Card: Click on the SD card entry, click on the button "modify", you can format the SD card, the following figure:

The screenshot shows a dialog box titled "Record Path Modify". The fields and controls are:

- Enable
- Disk Name: SD1
- Group ID: 1
- Usable Space: 0 M
- File System: SDVideo
- Format button (with disk icon)
- OK button
- Close button

Disk name: can be set to directory name .

Disk group: the default into 1-8 group.

Available space: the directory can be equipped with video available space ,0 for not restrict the size.

File system: divided into Video and ext.

2、NAS: Click on the NAS entry, click on the button "modify", the following figure:

Record Path Modify	
<input checked="" type="checkbox"/>	Enable
IP:	192.168.0.177
Path:	/nas2
Accounts:	administrator
Password:
Confirm Password:
Group ID:	1
File System:	cifs
<input checked="" type="checkbox"/>	Use All Space
Free Space:	0 Megabyte(s)
<input type="button" value="OK"/> <input type="button" value="Close"/>	

Set the correct IP address of the NAS, path, username and password, Click enabled, you can record video directly to a device on the NAS.

3. FTP: Click on the FTP entries ,and click "modify" button ,pop-up below

Record Path Modify	
<input type="checkbox"/>	Enable
IP:	ip
Port:	port
Accounts:	user
Password:	
Confirm Password:	
Group ID:	1
File System:	
Free Space:	128 Megabyte(s)
<input type="button" value="OK"/> <input type="button" value="Close"/>	

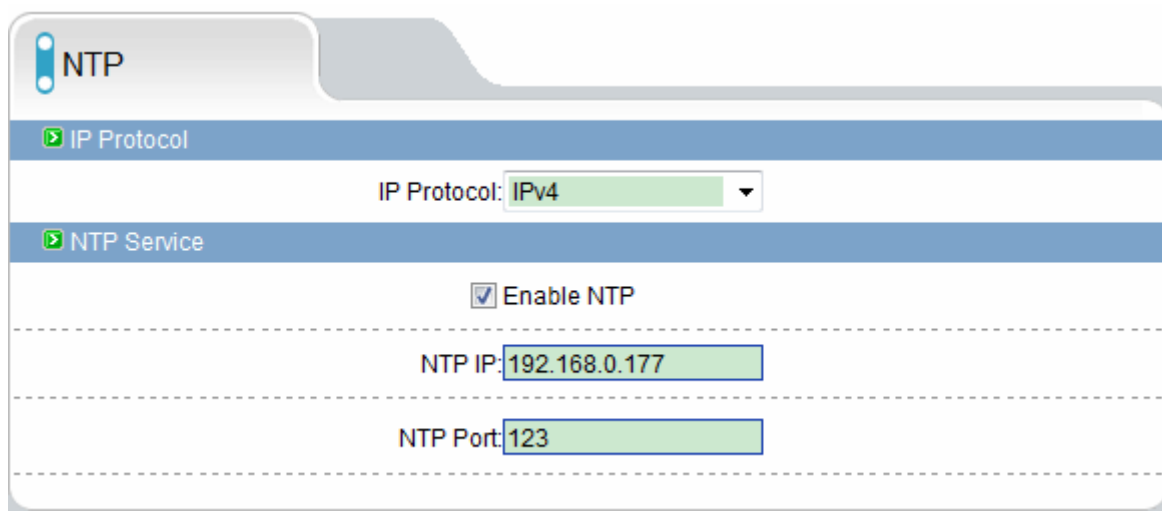
Set the right FTP IP address、 port、 account number and password, click the "opening" button, equipment video recording can directly record to the FTP.

2.9 privacy Masking setting

Though this function we can set video covered area, the biggest support covered area is no more than 8%.

2.10 Network Service

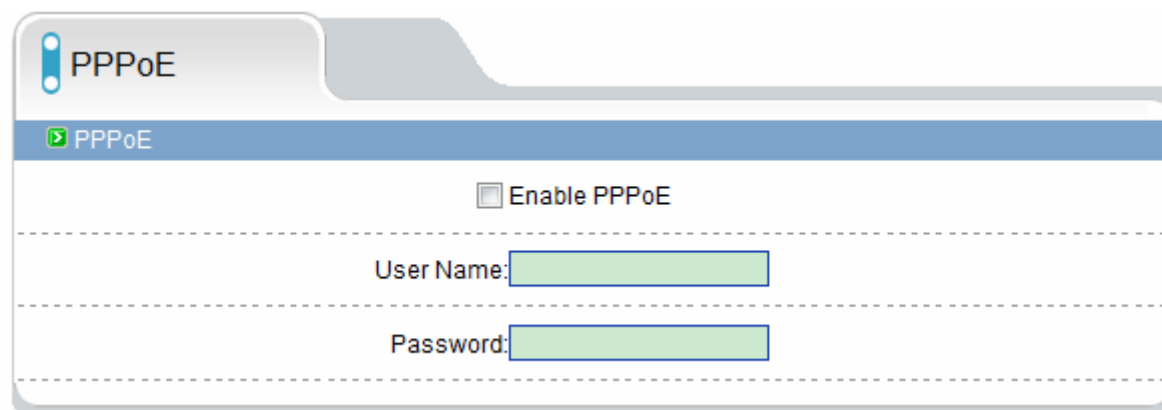
2.10.1 NTP



The screenshot shows the NTP configuration page. At the top, there is a tab labeled 'NTP'. Below it, there is a section for 'IP Protocol' with a dropdown menu set to 'IPv4'. Underneath, there is a section for 'NTP Service' with a checked checkbox for 'Enable NTP'. Below this, there are two input fields: 'NTP IP:' with the value '192.168.0.177' and 'NTP Port:' with the value '123'.

NTP: Network Time Protocol. Host can automatically adjust the clock of the computer and connect sync. Click "Apply" button and then automatically adjust the time, In addition, 12 o'clock everyday, the automatic adjustment of service start.

2.10.2 PPPoE



The screenshot shows the PPPoE configuration page. At the top, there is a tab labeled 'PPPoE'. Below it, there is a section for 'PPPoE' with an unchecked checkbox for 'Enable PPPoE'. Below this, there are two input fields: 'User Name:' and 'Password:'.

PPPoE: Network Camera support agreement based on the PPPoE WAN access. Through the client software is set up correctly PPPoE username and password, after every time you start Network Camera, PPPoE mode automatically establish a network connection, after the success of the network camera to obtain the dynamic WAN IP address.

Description: Make sure that ADSL Modem has been opened. PPPoE parameters set for the first time, the need to restart the equipment in order to establish a connection.

2.10.3 DDNS

DDNS

DDNS

Enable DDNS

Provider: 3322

Domain Name:

Accounts:

Password:

DDNS: Dynamic domain Name service: It is better to register a domain for avoiding input IP address, as IP address is difficult to remember. It is necessary to get a PC with stable IP address in Internet, and domain name service software need to be run on the PC.(The PC will be DDNS)

After connection to network through PPPoE successfully, it is available to get IP address of extensive area network, and send name and IP address to DDNS. When client-side software visits network camera, need to find network camera name and corresponding IP address, then send the address to client-side software; finally client-side software can build network connection with network camera to get video images.

The DDNS support the 3322 and DynDns domain name

2.10.4 Update

Update

IP Protocol

IP Protocol: IPv4

Update

Update Server IP: 192.168.0.195

Update Server Port: 10061

Update Period: 1 Minute

You can be set to upgrade the server IP address and port number as well as parameters such as the upgrade cycle.

Upgrade cycle: unit is minutes; the upgrade process for each time interval to upgrade the server asked whether there is a need to upgrade the new version. Specific steps to upgrade please refer to "Chapter III."

2.11 Service Center

2.11.1 Alarm center

Update

IP Protocol

IP Protocol: IPv4

Update

Update Server IP: 192.168.0.195

Update Server Port: 10061

Update Period: 1 Minute

Alarm center: when alarm triggered ,the alarm to the alarm center.

2.11.2 SMTP

SMTP

SMTP

Enable SMTP

SMTP Server Address:

SMTP Server Port: 25

User Name:

Password:

Sender E-mail Address:

Recipient_E-mail_Address1:

Recipient_E-mail_Address2:

Recipient_E-mail_Address3:

Recipient_E-mail_Address4:

Recipient_E-mail_Address5:

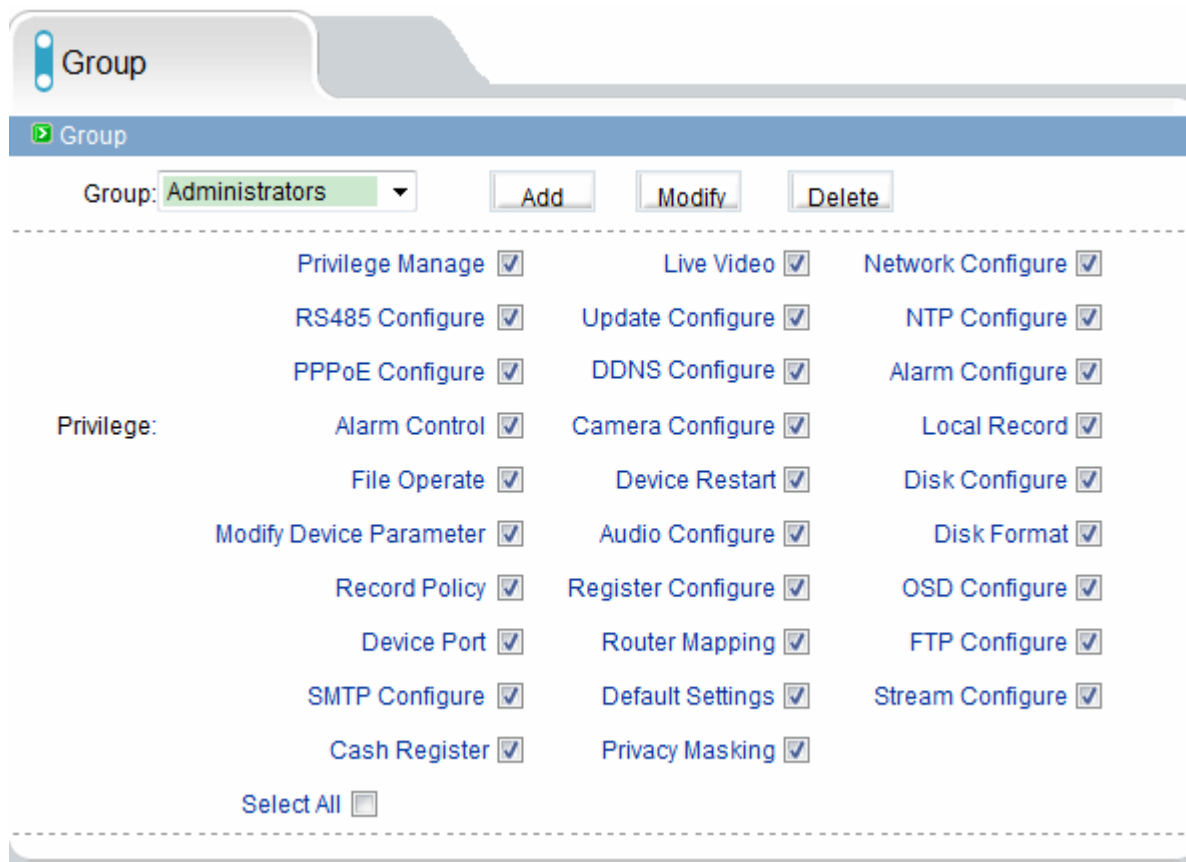
Attachment Image Quality: High

After SMTP is enabled, when triggered by motion detection, alarm and I / O alarm will be

automatically sent JPG pictures and alarm information to the recipient's mailbox.

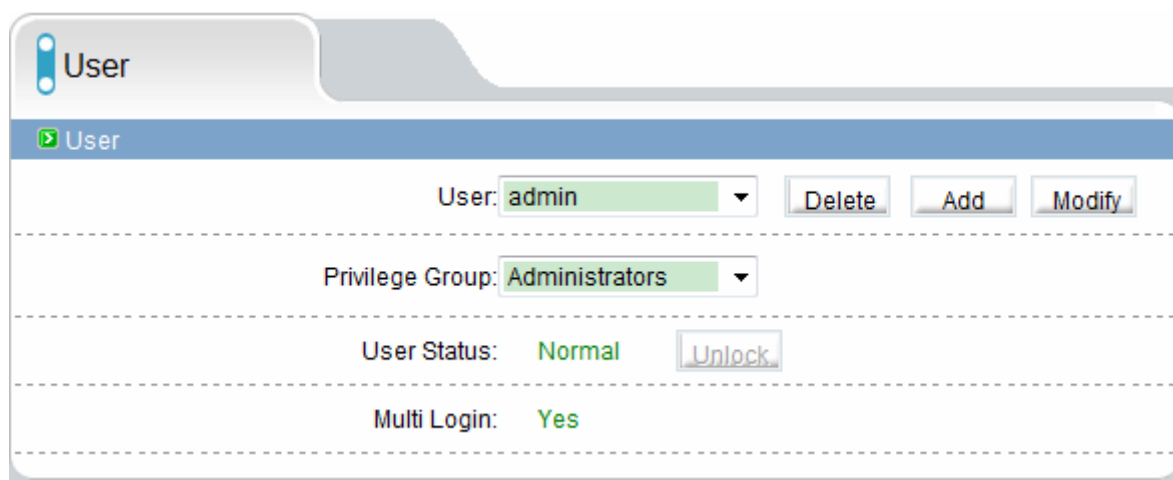
2.12 privilege Manager

2.12.1 Authority group setting



You can add, modify, or delete access group, but the default permissions group administrators can not to be deleted.

2.12.2 user setting



You can add, modify, delete a user, but the default user admin can to be deleted. The default user can unlock the customers which input wrong password for many times.

Support more login: when the user choice "yes" in Multi login, the user can land and user the equipment on different PC at the same time.

2.13 protocol

2.13.1 Protocol information

Protocol Info

Protocol

Protocol Name: onvif

Protocol Version: v1.01, v1.02

Protocol Software Version: v1.01&1.02build001027

Can see the current equipment agreement name and version number

2.13.2 Security

Security

Security

User Verification

When the equipment is Onvif protocol connect, you can choose whether security checks or not.

2.13 Device Restart

IP CAMERA to use remote control equipment, to resume operation.

Device Restart

Device Restart

Restart

2.15 Default settings

The parameter of the IP equipment will be restored to the factory value.

