

# Network Camera

## Operating Instructions

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# QSI NUFO



Please read this manual before using and save this manual for future reference.

## Introduction

Please check the following items when unpacking.

AC adaptor	— 1 pc.
I/O port link line	— 1 pc.
Category 5 cross cable	— 1 pc.
Setup CD-ROM	— 1 pc.
Operating Instructions	— 1 pc.

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## 1. Product Introduction

### 1.1 Getting to know the Network Camera

#### 1.1.1 Main features

- Using the Network Camera integrated web server, Motion JPEG, up to 15 frames per second, can be displayed.
- Pan/Tilt operation can move the lens horizontally 120° and downside 45°. This movable lens allows you to see the situation in the wide room where the object is. It can adjust the angle easily from the web browser.
- Using Multi-Camera screen you can simultaneously view up to four cameras at various location. Clicking on each Camera Name switches to the Single Camera screen from the Multi-Camera screen.
- The Network Camera allows the 15 users to view the image simultaneously.
- Authentication window requires you to enter the administrator/general user ID and password.
- I/O connector consists of the digital input/output terminal. The alarm/timer trigger can activate the Image Transfer feature which can send the images via e-mail or FTP (File Transfer Protocol).

## 1.1.2 System Requirements

The PC and the network must meet the following technical specifications for the Network Camera to work properly.

Item	Description
Operating System	Microsoft Windows 98 Microsoft Windows 2000, Microsoft Windows ME Microsoft Windows NT® 4.0, Microsoft Windows XP
Network Protocol	TCP/IP network protocol installed. (HTTP, FTP, SMTP, TCP, UDP, IP, ARP, ICMP)
CPU	Pentium® II 300 MHz or greater
Interface	10/100 Mbps Ethernet card and category 5 cables for your network connection
Web Browser	Internet Explorer 5.0 or later/Netscape Navigator® 4.7

## 1.2 Camera Feature Locations

### 1.2.1 Front View



Power Indicator:

During normal operation Power Indicator will be turned on in the default.

Blinking will occur during the following situation.

Audio input port.

## 1.2.2 Rear View



From left to right:

RJ45: 100 Base-T : Ethernet Indicator

I/O : Including two I/O inputs and two I/O outputs.

COMM port: including one RS-232 and one RS-485 and one LINE OUT.

BNC port: video output.

Reset key

DC IN jack: 12v 1A

Switch: BLC, IRIS, AGC, AWB

## 1.3 Network Camera Installation

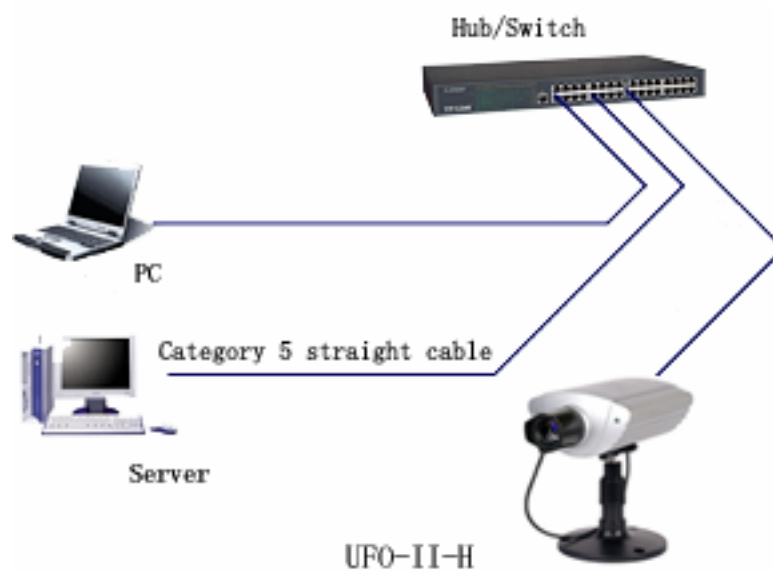
This section explains how you can install the Network Camera. Network Camera has an integrated web server. Various types of networking are available.

### 1.3.1 Connecting the Cable and the Power Supply

1. Connection of the Network Camera to the PC or network device is made with category 5 cable.

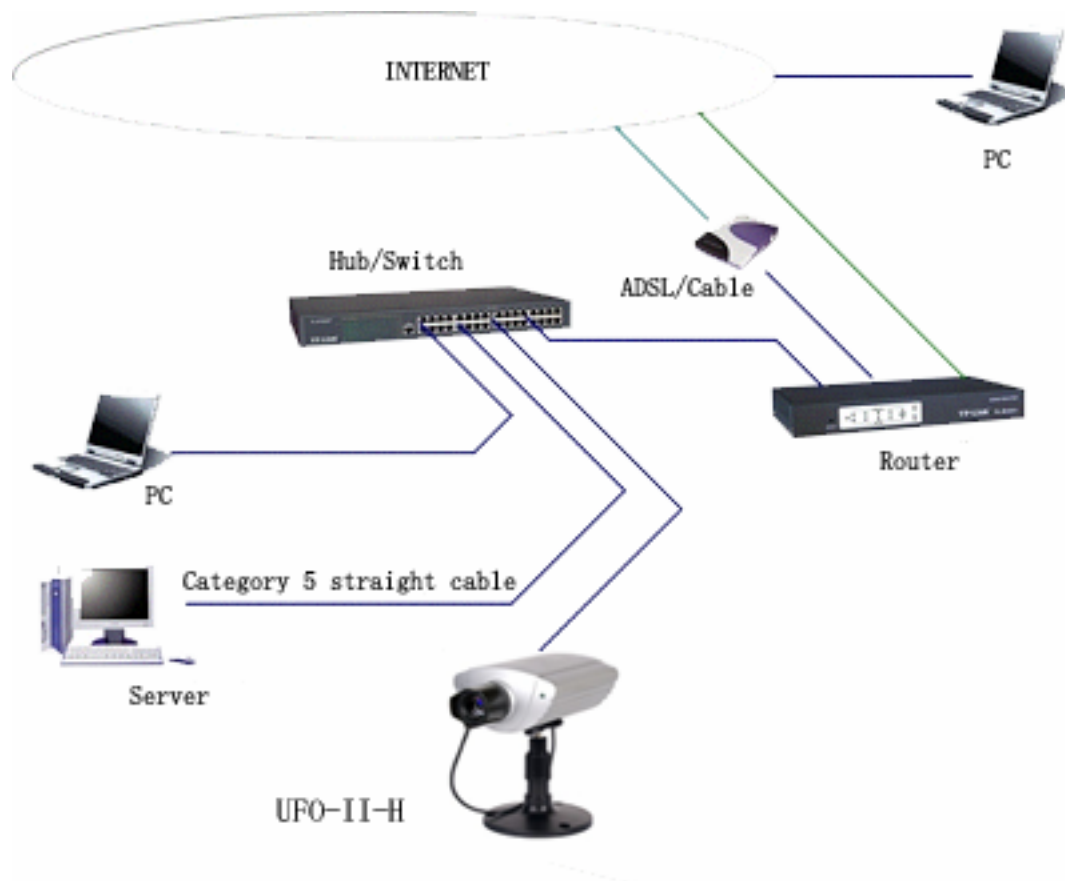


2. Hub Connection needs category 5 straight cable and PC Connection needs category 5 cross cable.



### 3. LAN (Intranet)、 Internet Connection with Ethernet Switching Hub

Network Camera can be installed on the LAN. Network Camera can be accessed through the Internet.



### 1.3.2 Confirming the Network Camera Setting

To confirm if the Network Camera is configured correctly, please access to Top Page. If the Top Page appears, your Network Configuration is completed.

1. Start up the web browser.
2. Enter "http://IP address : Port No." in the address field and press [Enter]. Top Page appears.

### 1.3.3 Setting Network Parameters

IP Network: PC, Network Camera and other IP devices can establish the network. Each device has an unique IP address of their own..

#### Note

#### MAC address

Ethernet defines a 48-bit addressing scheme. Ethernet hardware manufacturers purchase blocks of Ethernet addresses and assign them in sequence to their Ethernet interface hardware. No two hardware interfaces have the same Ethernet address. Ethernet address is sometimes called hardware addresses, physical addresses, Media Access Control (MAC) addresses, or layer 2 addresses. MAC address is used in this manual.

#### ActiveX Controls

If you are using Internet Explorer the first time the PC connects to the Network Camera, a pop up Security Warning window will appear. The window requests your



permission to download ActiveX Controls (OCX file) used to display motion video. Please allow the file to be installed. It is required and will not cause any problems with other applications on the PC.

### **Use reset key**

IP will be changed to 192.168.1.252. Blinking will occur during the following situation.

Press reset key until the electrical source blinking.

### **1.3.4 Use ARP command**

#### **Attention before assign IP:**

Confirm the network camera connected the web correctly, then cut off the power.

Get a single IP address from network manager

MAC address: Each Ball network camera has a single MAC address, MAC address is a

12byte figure, it is singed on the bottom of the Ball camera.(such

as 000ce8xxxxxx )

In the following example, the PC IP address is 192.168.1.6, the IP address of BALL

Network camera is assigned 192.168.1.61, MAC address is 000ce8000001,

Do not use the IP address demonstrated here, please consult with network manager

before you assign the IP address.

The IP address of BALL Network Camera must have the same subnet mask with PC. In

this example, the IP of PC is 192.168.1.6,the IP of network camera is 192.168.1.61,

subnet mask is 255.255.255.0 , if the subnet mask of PC is 255.255.255.128 or more high,

```
C:\>exit
```

```
C:\>arp -d
```

```
C:\>arp -s 192.168.1.61 00-0c-e8-00-00-01
```

```
C:\>ping -t 192.168.1.61
```

Pinging 192.168.1.61 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Reply from 192.168.1.61: bytes=32 time=5ms TTL=255

Reply from 192.168.1.61: bytes=32 time=4ms TTL=255

Reply from 192.168.1.61: bytes=32 time=4ms TTL=255

Reply from 192.168.1.61: bytes=32 time=4ms TTL=255

Ping statistics for 192.168.1.61:

Packets: Sent = 7, Received = 4, Lost = 3 (42% loss),

Approximate round trip times in milli-seconds:

Minimum = 4ms, Maximum = 5ms, Average = 2ms

**Control-C**

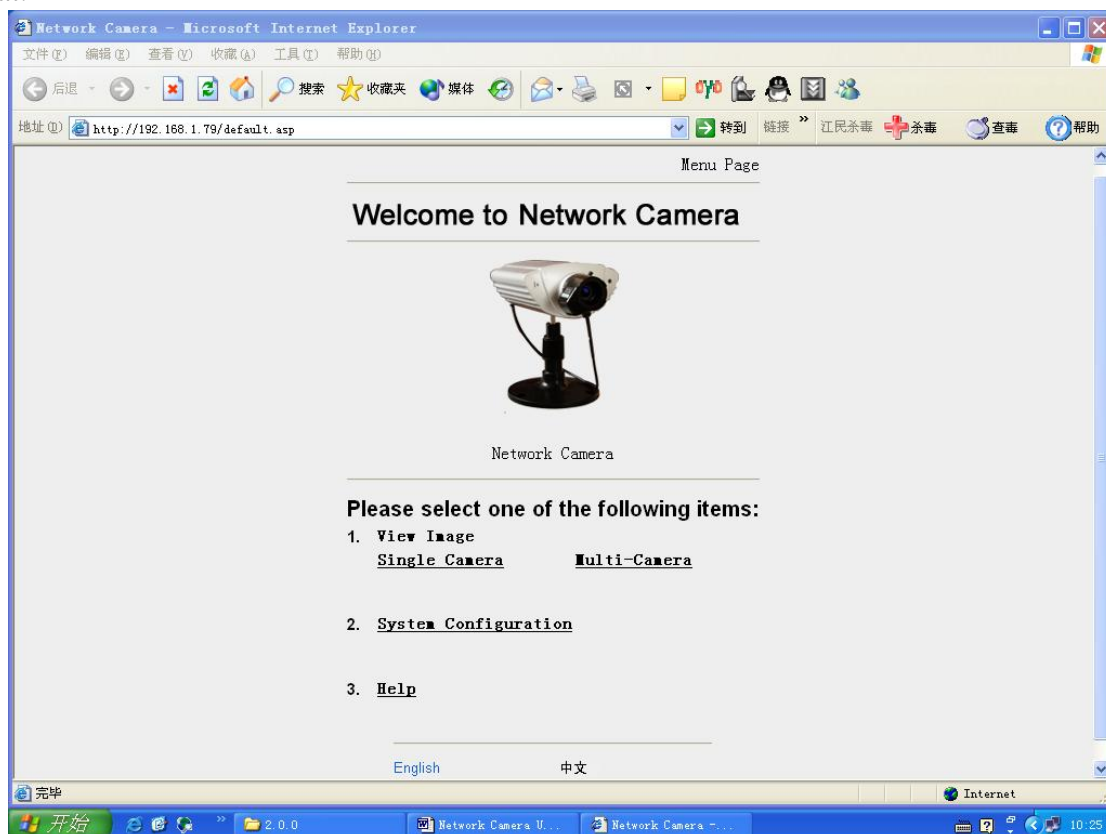
^C

```
C:\>arp -d
```

## 2. Network Camera Screen and Setup window

### 2.1 Network Camera View Image

The view image enables you to access to the Top View Image screen (Single Camera/Multi-Camera screen). Authentication window can set password for the link at.

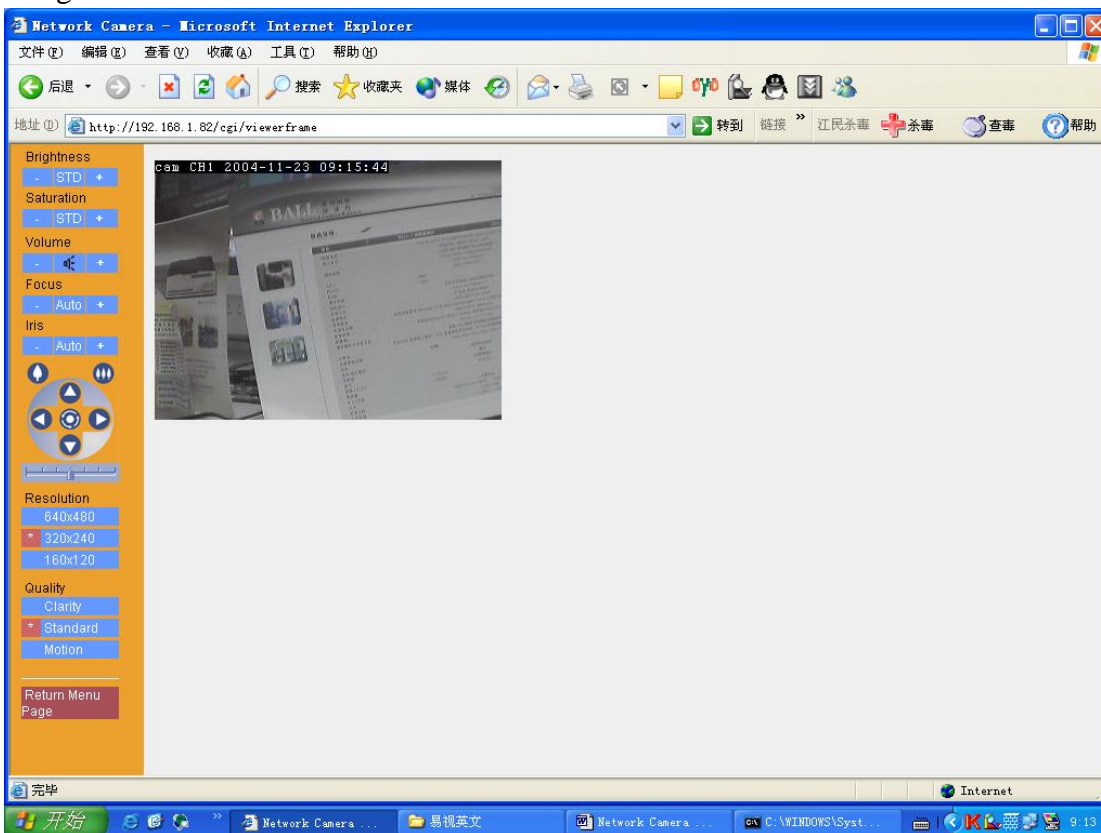


1. View Image  
Single Camera / Multi-Camera
2. System Configuration
3. Help
4. Language : English Chinese .

## 2.2 Viewing the Top View Image screen

The Top View Image screen consists of Single Camera and Multi-Camera screen.

Single Camera screen

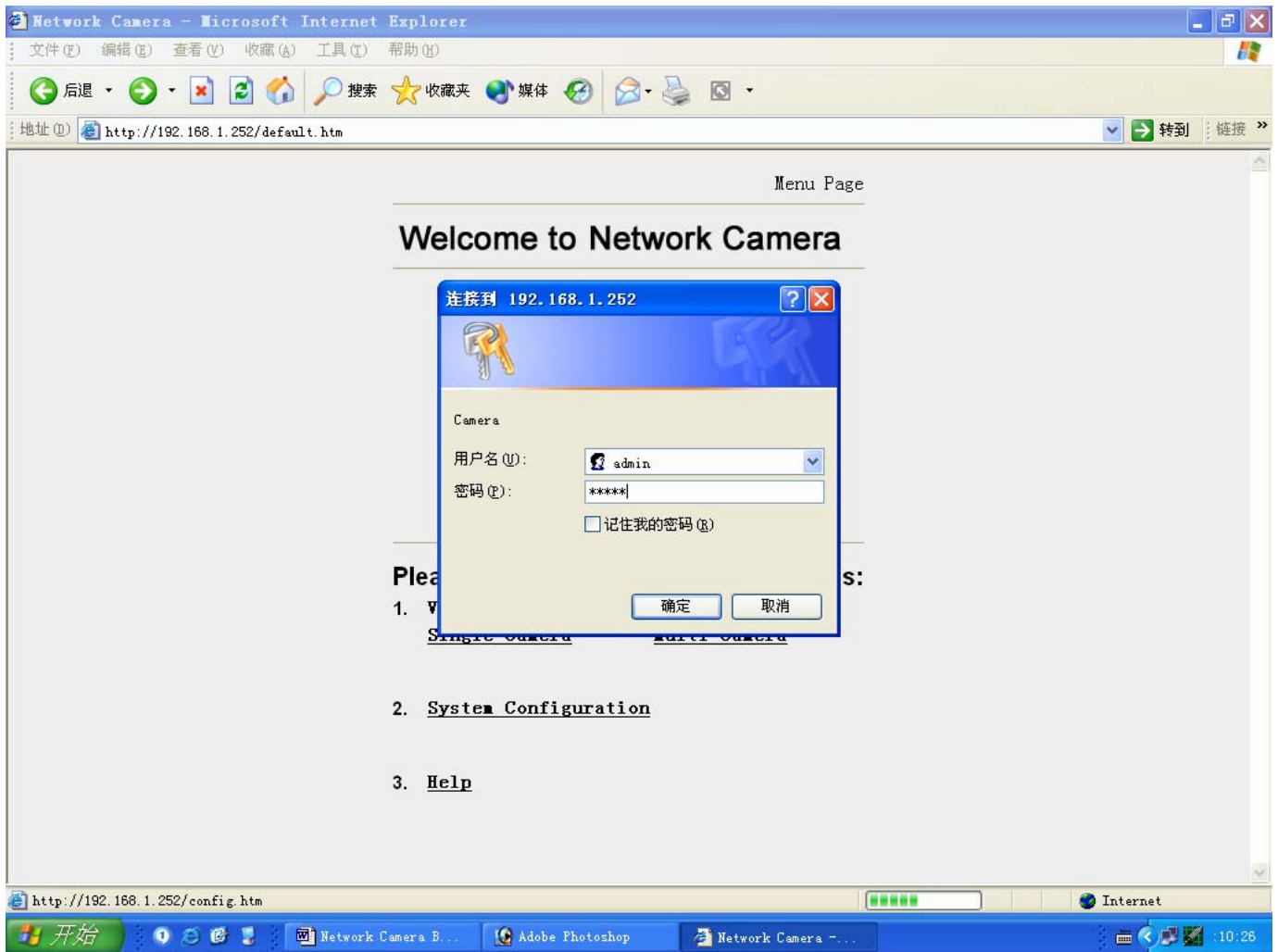


Item	Description
------	-------------

Brightness	Brightness control has 17 steps including
Saturation	Saturation control has 9 steps including
Volume	Volume control has 10 steps including
Iris	Adjust Iris
Resolution	Selects 640X 480, 320X240 (default) or 160X120.
Image quality	Favor clarity/Standard/Favor motion

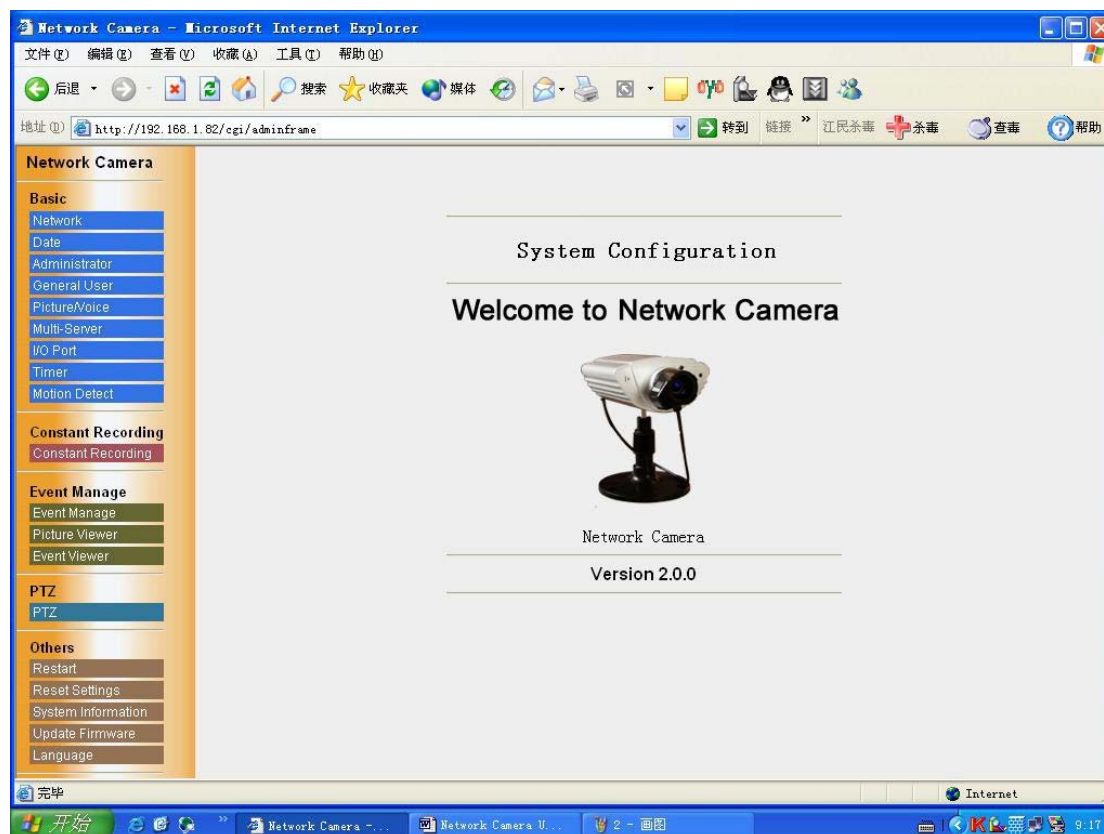
### **2.3 Setup window—System Configuration**

Setup Page controls all features of the Network Camera. The authentication window can keep the network security. It enables only administrator to access the Setup Page by entering ID and Password.



User: admin  
Password: admin

## System Configuration



Basic Setup	Network	Configures the network setting
	Date/Time	Sets the network Date and Time
	Administrator	Sets administrator ID and password for the security.
	General User	Sets General User ID and password for the security.
	Picture/voice	Setup image compression ration, voice input gain and select OCX.
	Multi-Server	Setup Multi-Server
	I/O port	Setup the alarm occur condition and the output ports status.
	Timer	Setup eight timers of alarm timer.
	Motion Detect	
Constant Recording	Constant recording	Constant recording to Ftp Server.
Event Manage	Event Manage	There are three modes: I/O ports occur, timer occur and motion detection occur.
	Picture Viewer	Show the event picture, alarm type. alarm id and alarm time.

	Event Viewer	Show the event properties: message type and alarm type, ID, time.
PTZ	PTZ	PTZ control settings.
Others	Restart	Restart the network camera.
	Reset Setting	Reset the video server form factory default.
	System information	Show system information.
	Update firmware	Update the system.
	Language	You can select Chinese or English. language

### 2.3.1 Network

Network window can set up the each parameter. Please restart the Network Camera when making the parameters effective.

**Network Camera**

**Network**

**1. Network Camera Name**  
Name (4-15 characters)

**2. Internet Connection**  
Port No.   
 Static  
 IP Address   
 Subnet Mask   
 DHCP  
 Current IP Address   
 Current Subnet Mask

**3. Default Gateway**  
 IP Gateway  
 IP Address   
 PPPoE Gateway  
 User ID   
 Password

**4. DNS**  
 DNS Server1   
 DNS Server2

**5. DDNS**  
 Login Dynamic DNS  
 Login Network Camera DDNS  
 Network Camera DDNS IP Address or Host Name   
 User ID   
 Password   
 Login Oray DDNS (www.oray.net)  
 Oray DDNS IP Address or Host Name   
 User ID   
 Password   
 Registration Domain

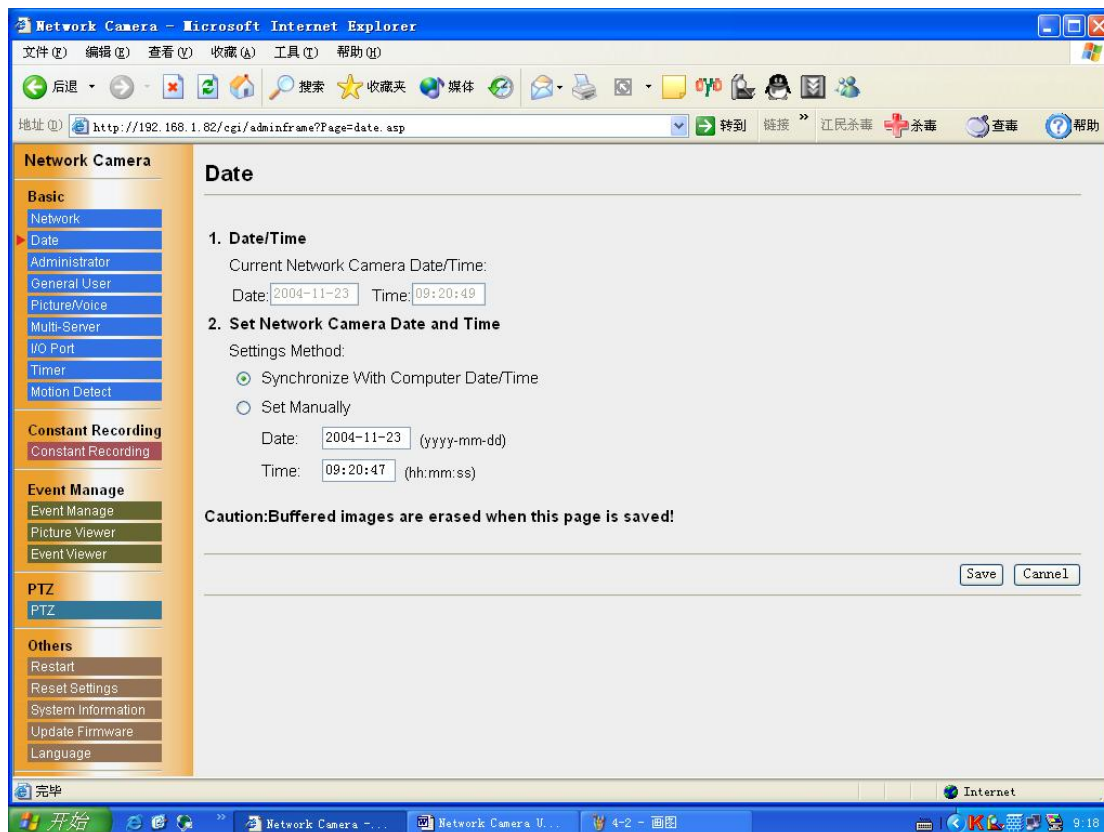
**6. MAX Bandwidth usage**  Mbps

**7. MAC**



Network Name	4 to 15 English letters , 2 to 7 Chinese characters	
Port No.	Set to 80. (Default)	
IP Address and Subnet Mask	Check Static and set Static IP address and Subnet Mask.	
DHCP	Please check DHCP when the ISP uses the DHCP server function that assigns an IP address to the Network Camera automatically.	
Default Gateway	IP Gateway	Enter it in gateway IP.
	PPPOE Gateway	Enter it in PPPOE user name and password.
DNS	You must enter the proper address when use the Host name of the e-mail or FTP function.	
DDNS	Network Camera Manage Server	log in management server of network camera to brows after input user name and password.
	DDNS	input domain name to directly remote brows after input user name and password and free domain name .
Max. Bandwidth Usage	It can restrict the transmit bandwidth. Select from 0.1 to Unlimited Mbit/s.	
MAC		

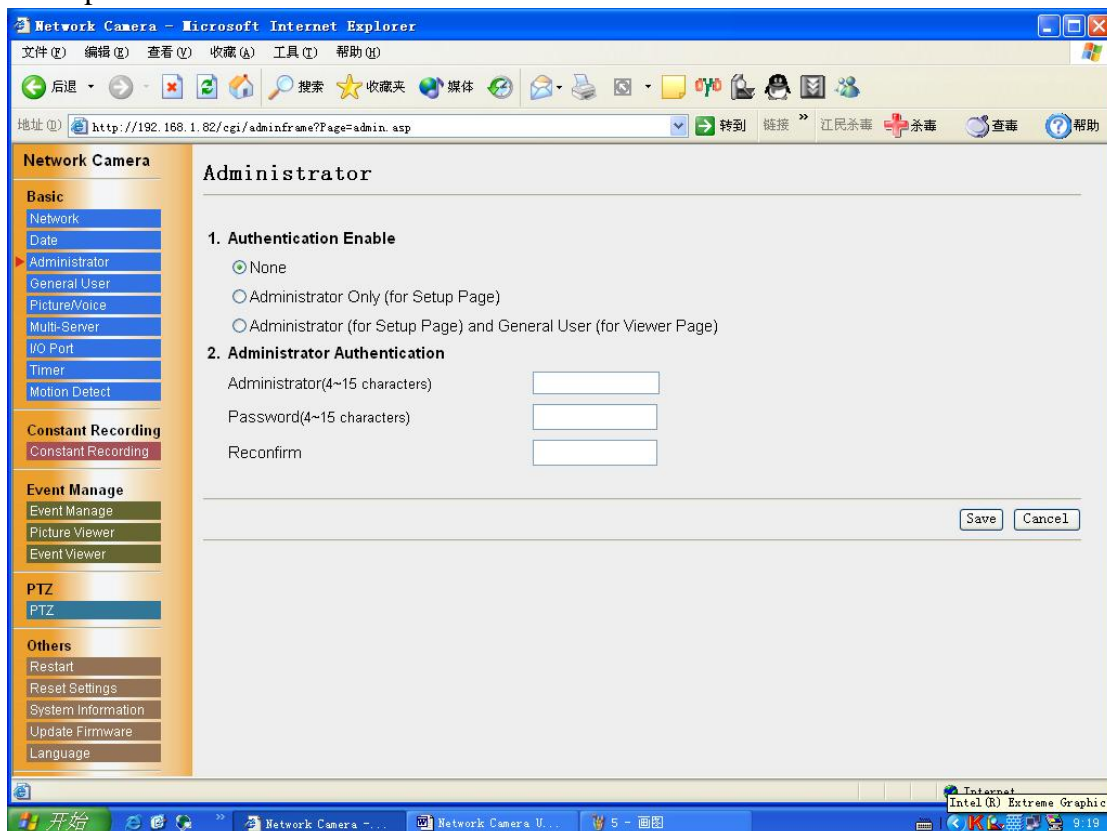
### 2.3.2 Date/Time



Item	Instructions	Limitation
<b>1.Date and Time</b>	Display current Camera date and time.	
<b>2.Set Network Camera Date and Time</b>	Network Camera can adjust the internal clock.	
<b>(1)Synchronize With Current Computer Time</b>	Make the Network Camera the internal clock together current the calculator clock is synchronous	
<b>(2) Set Manually</b>	Set time to adjust the internal clock.	<ul style="list-style-type: none"> <li>• The date is from 1970 to 2039 , according to yyyy- mm- dd.</li> <li>• Time is format that 24 hours system, according to hh: mm: ss.</li> </ul>

### 2.3.3 Administrator

Administrator window allows the administrator to limit or exclude the access to selected Network Camera feature. Individual levels of access can be defined for multiple users.



The administrator can select one of three security levels:

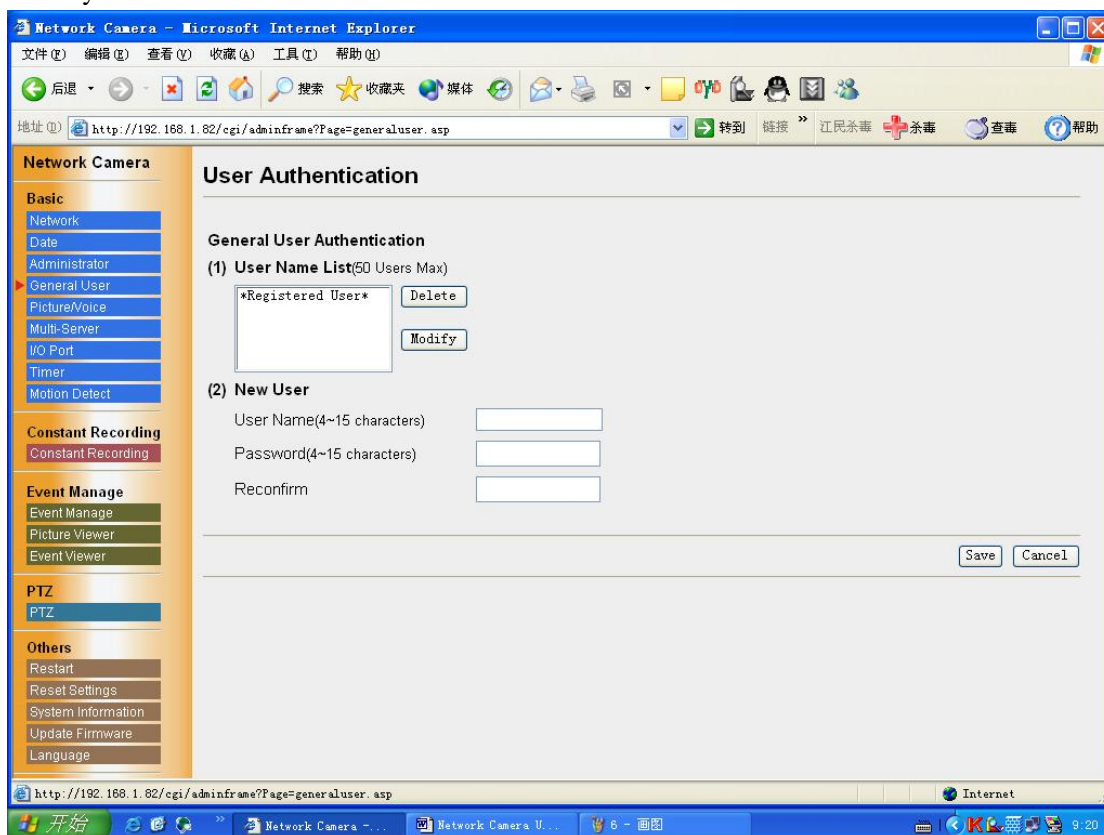
[None]

[Administrator only]: Setup Page for Administrator only

[Administrator and General User]: Setup Page for Administrator and Viewer Page for General User

## 2.3.4 General User

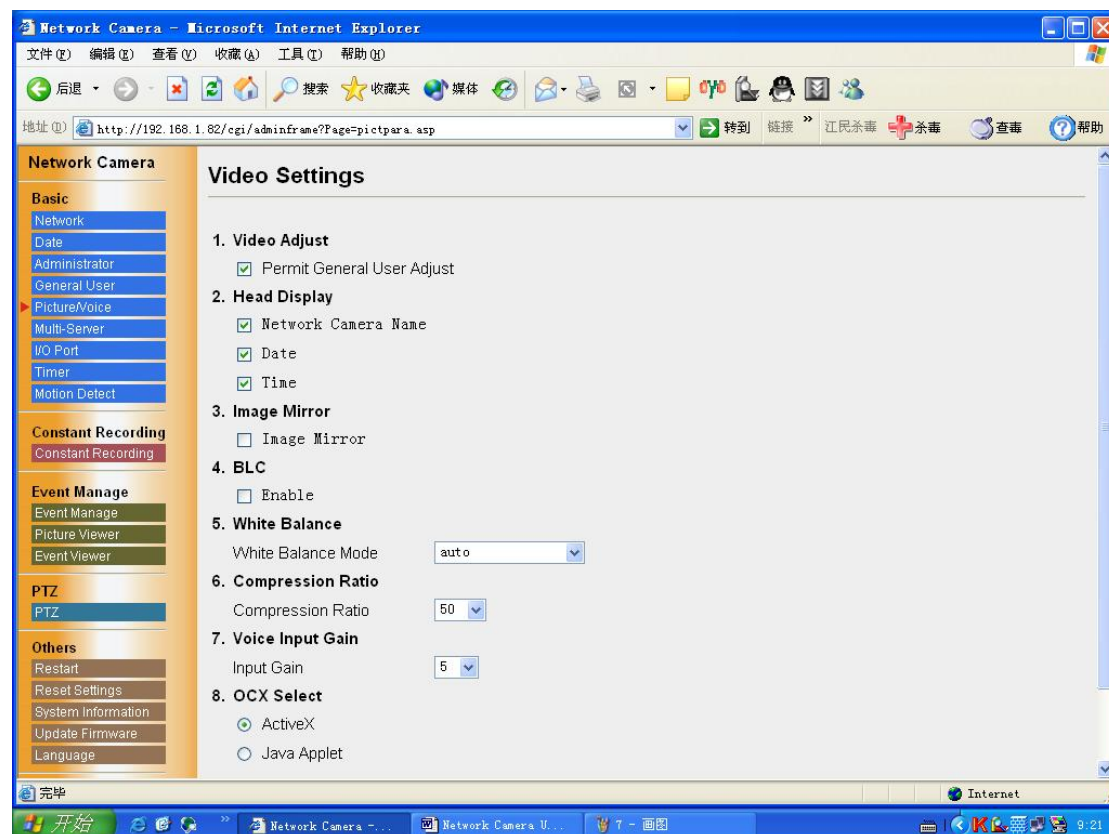
General User window allows the administrator to create the General User ID and password for the security level defined as General User.



User Name List: User Name List displays the registered user name.[Delete] and [Modify] deletes/modifies the General User in the list.

New User: Enter the General User Name, password to confirm.

## 2.3.5 Video Settings



[Video Adjust ]: Permit General User adjust.

[Header Display]: Display the network camera name, date and time.

[Image Mirror]:you can browse the image like look into the mirror.

[BLC Control]:enable BLC.

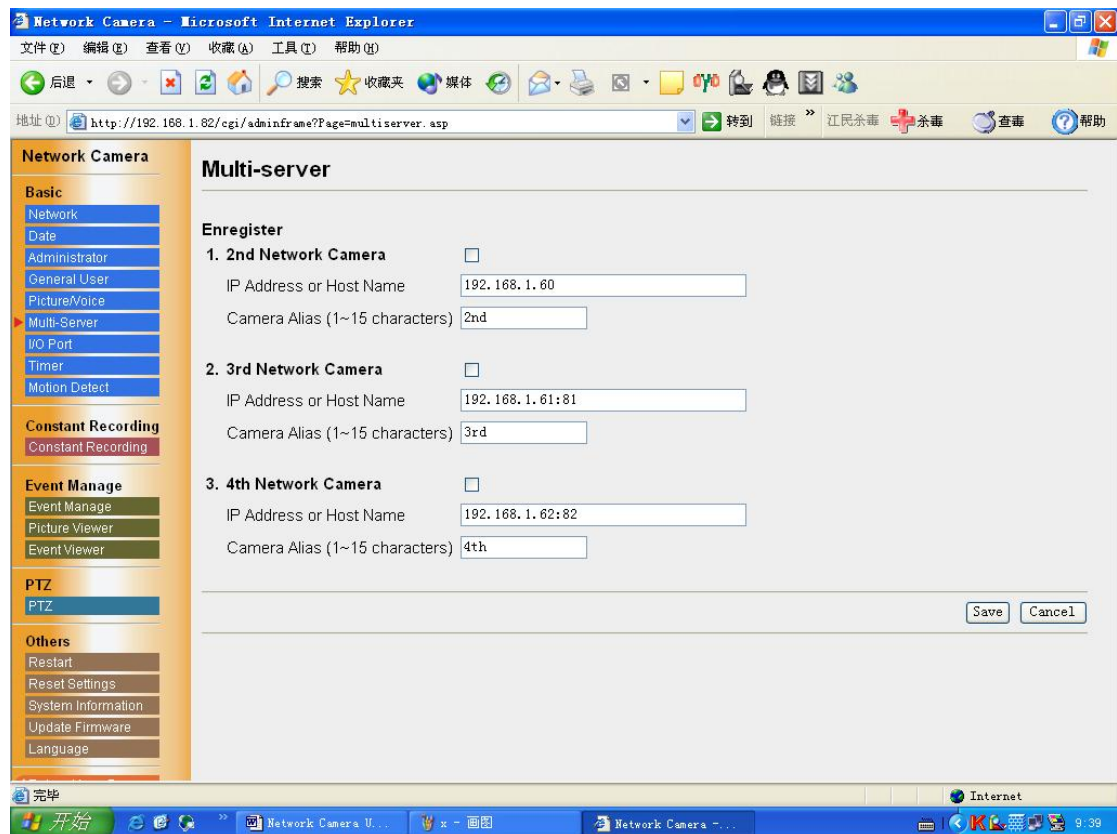
[White Balance]: Auto (default)、Electric Bulb、Natural fluorescent light、Solar light、Hold.

[Compression Ratio]: Compress the image and the ratio.

[Voice Input Gain]: you can adjust the volume. there are 10 steps including.

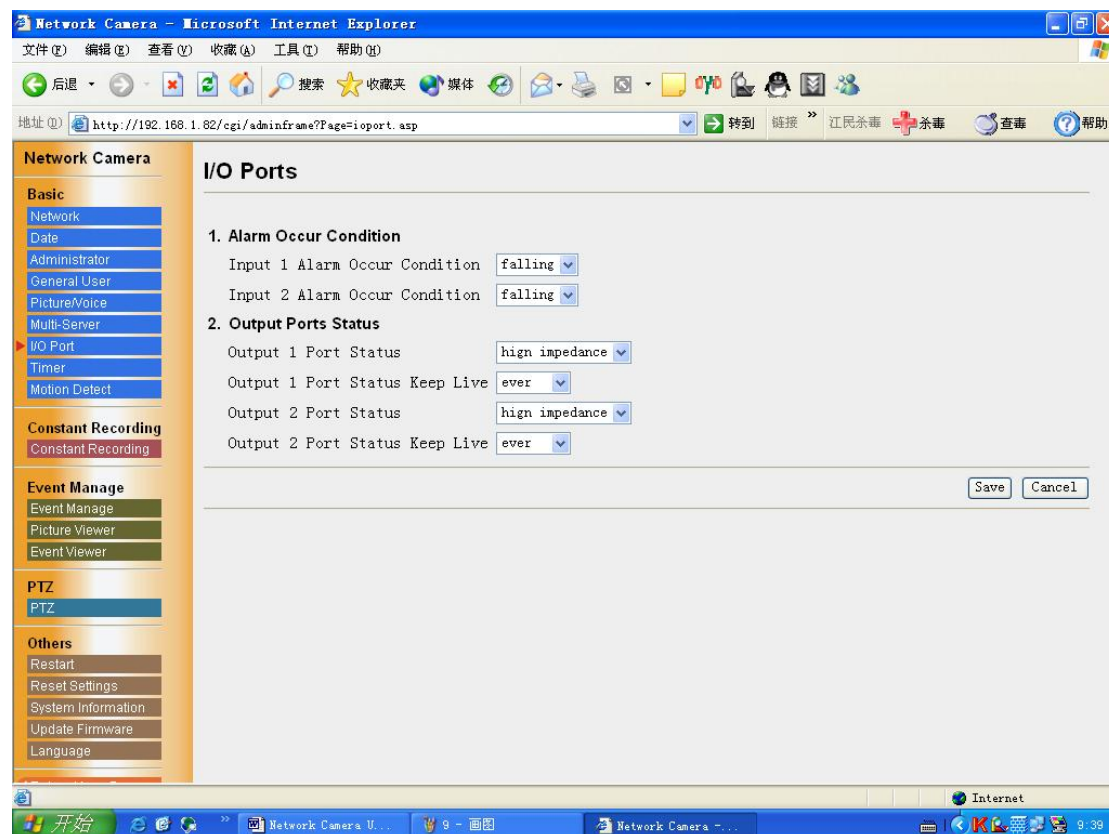
[OCX select]: select ActiveX or Java applet.

## 2.3.6 Multi-server



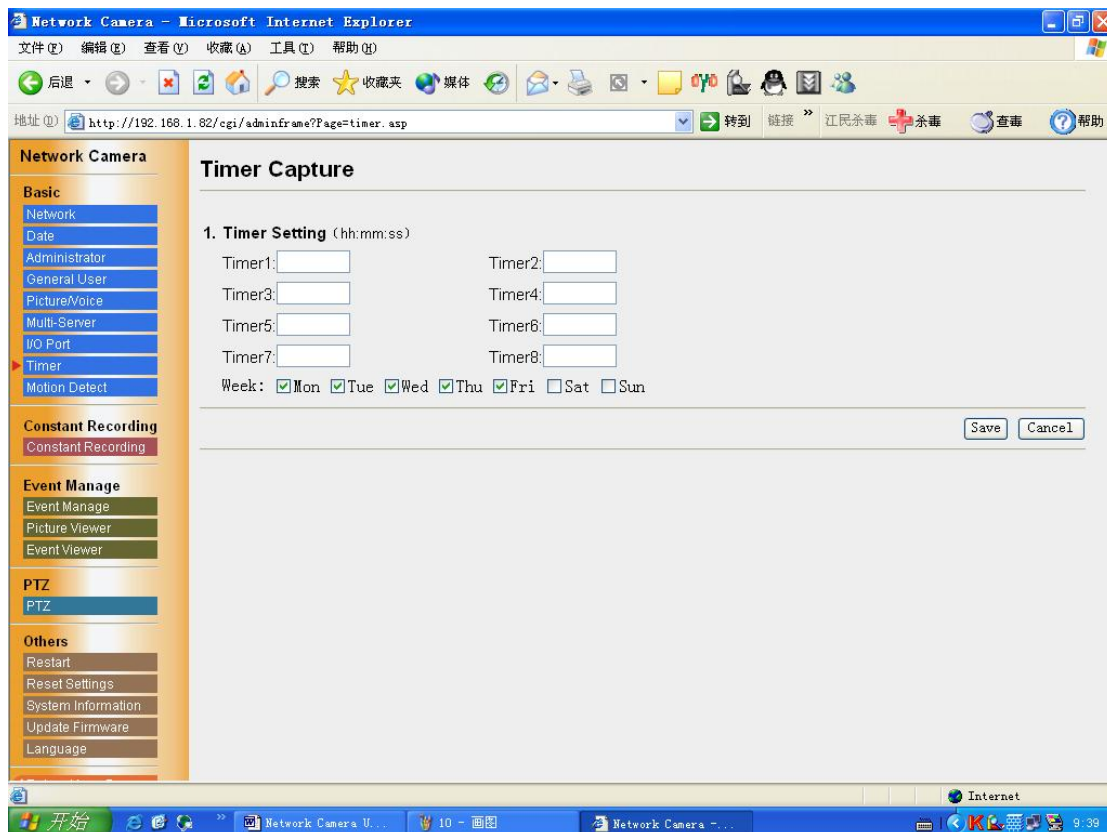
Multi-Camera window enables the setting of Multi-Camera screen. 2nd to 4th cameras are named on this Multi-Camera window.

## 2.3.7 I/O Ports



Setup alarm occur condition: when the electricity falling.  
when the electricity rising.  
output ports status :high impedance and low impedance.  
output port status keep live times.

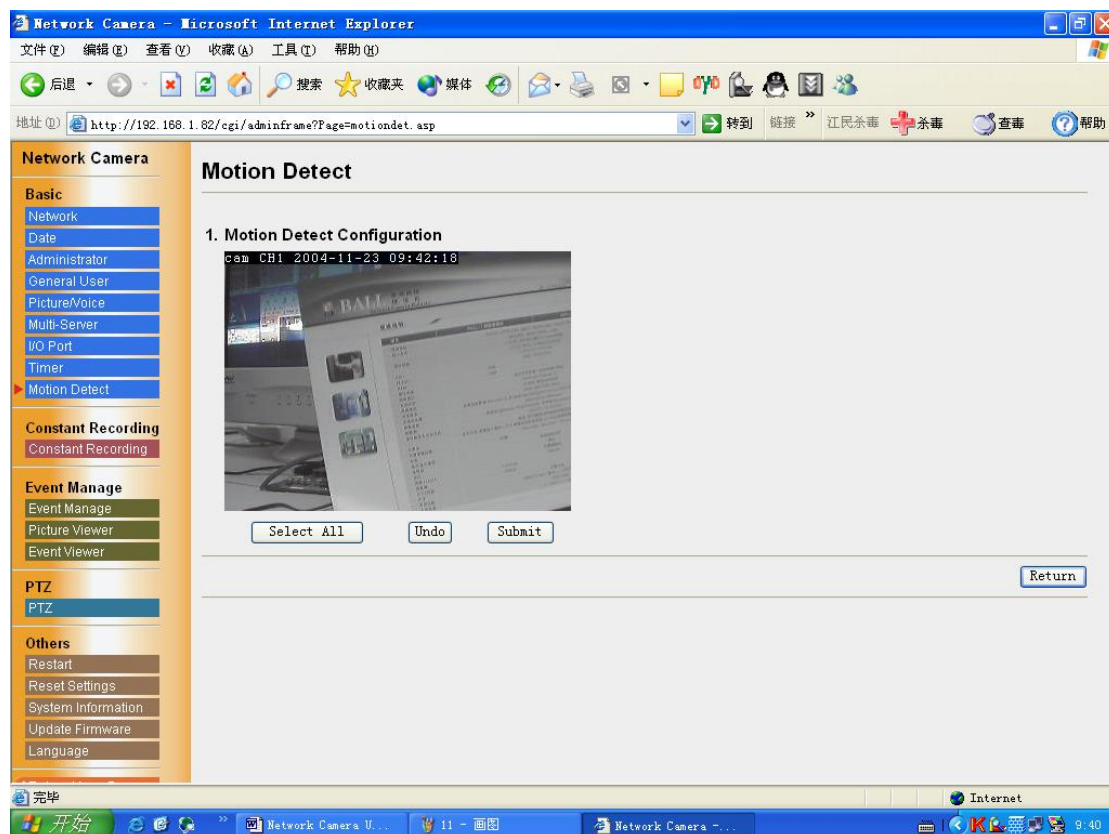
## 2.3.8 Timer Capture



The timer mode can be activated by entering the active time. You can set eight timers of every week.

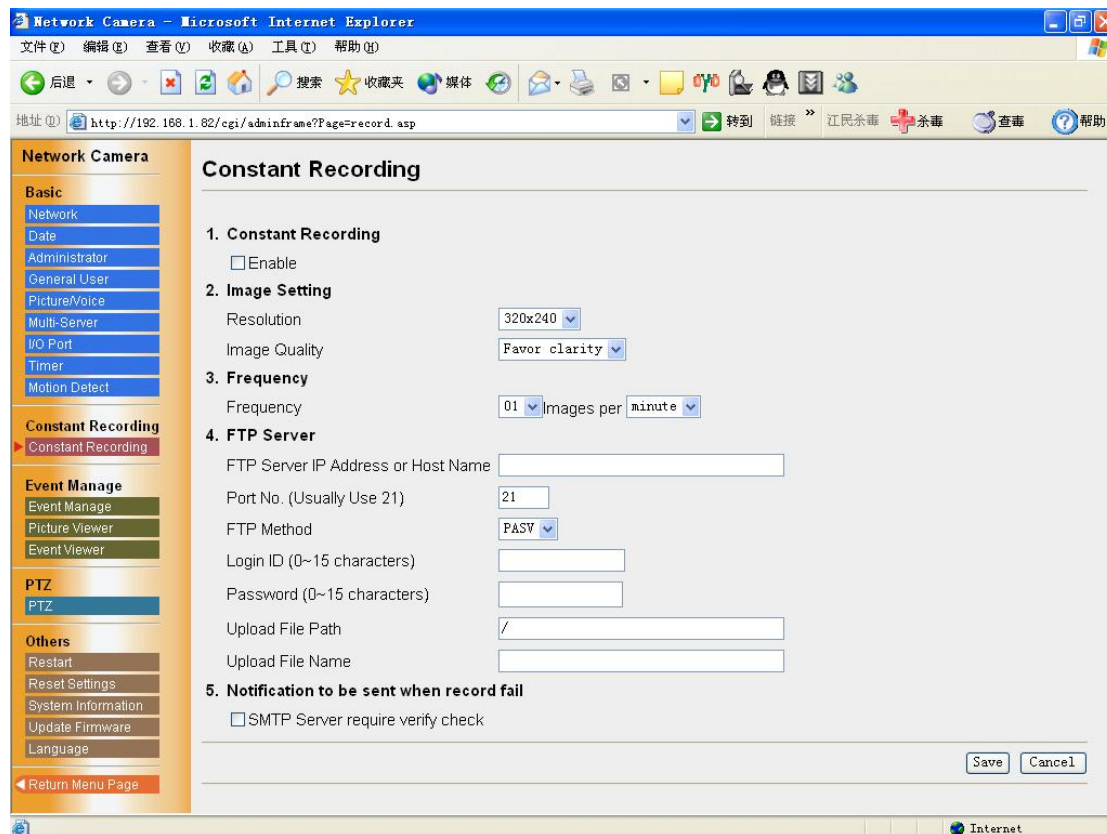


## 2.3.9 Motion Detect



Setup the alarm scope of motion detection.

## 2.3.10 Constant Recording



[Constant Recording]: Permit constant recording or not.

[Image Setting]: Set the image resolution and image quality.

Image resolution: 640 x 480/320 x 240/160 x 120

Image quality: Favor Clarity/Standard/Favor Motion

[Image Frequency]: Sets the interval to send the image.

[FTP Server]: Enters the server address or Host Name, Port no. (1–65535), Login ID and password to access the FTP server and upload file name including full path.

[Notification to be sent when record fail]: when constant recording fail, send the message to the SMTP Server.

## 2.3.11 Event Manage

**Network Camera**

**Basic**

- Network
- Date
- Administrator
- General User
- Picture/Voice
- Multi-Server
- I/O Port
- Timer
- Motion Detect

**Constant Recording**

- Constant Recording

**Event Manage**

- Event Manage
- Picture Viewer
- Event Viewer

**PTZ**

- PTZ

**Others**

- Restart
- Reset Settings
- System Information
- Update Firmware
- Language

[Return Menu Page](#)

### Event Manage

**1. Event Source Select**

(Event Execute)	Image Transfer	Server	I/O Output1	I/O Output2
I/O Port Occur	<input type="checkbox"/>	FTP	<input type="checkbox"/>	<input type="checkbox"/>
Timer Occur	<input type="checkbox"/>	FTP	<input type="checkbox"/>	<input type="checkbox"/>
Motion detection Occur	<input type="checkbox"/>	FTP	<input type="checkbox"/>	<input type="checkbox"/>

**2. Image Setting**

Image Resolution: 320x240

**3. Image Buffer Setting**

Image Buffer Frequency Setting: 01 Images per minute

Before Event Occur: 00 Images

After Event Occur: 00 Images

**4. Over Buffer setting**

Image Buffer Over: Don't over write

**5. FTP Server**

FTP Server IP Address or Host Name:

Port NO. (Usually Use 21): 21

FTP Method: PASV

Login ID (0~15 characters):

Password (0~15 characters):

Upload File Path:

Upload File Name:

**6. SMTP Server**

SMTP Server require verify check

SMTP Server IP Address or Host Name:

From:

User ID:

Password:

To:

Subject (0~15 characters):

Text (0~100 characters):

**7. Network Camera Manage Server**

Manage Server IP Address or Name:

Save Cancel

[Event Source Select]: I/O port Occur Transfer in the Alarm Mode  
 Timer Occur Transfer in the Timer Mode  
 Motion Detection Occur

The Alarm mode and the motion detection mode can transfer the image via e-mail or FTP when the alarm trigger is active. To activate the alarm trigger, the digital input terminal of the I/O Connector must be connected with the external sensors/devices. The Alarm mode can send the e-mail without transferring the image.

The timer mode can be activated by entering the active time, the image setting, frequency setting and the transfer method on the Image Transfer window. Buffered Image can also be transferred via e-mail or FTP.

[Image Setting]: Set the image resolution

Image resolution: 640 x 480/320 x 240/160 x 120

[Image Buffer Setting]:

[Over Buffer Setting]:over write the buffer or not when the buffer is full.

[FTP Server]: Enters the server address or Host Name, Port no. (1–65535), Login ID and password to access the FTP server and upload file name including full path.

[SMTP Server]:

SMTP Server IP address or host name: Sets the SMTP server address or Host Name.

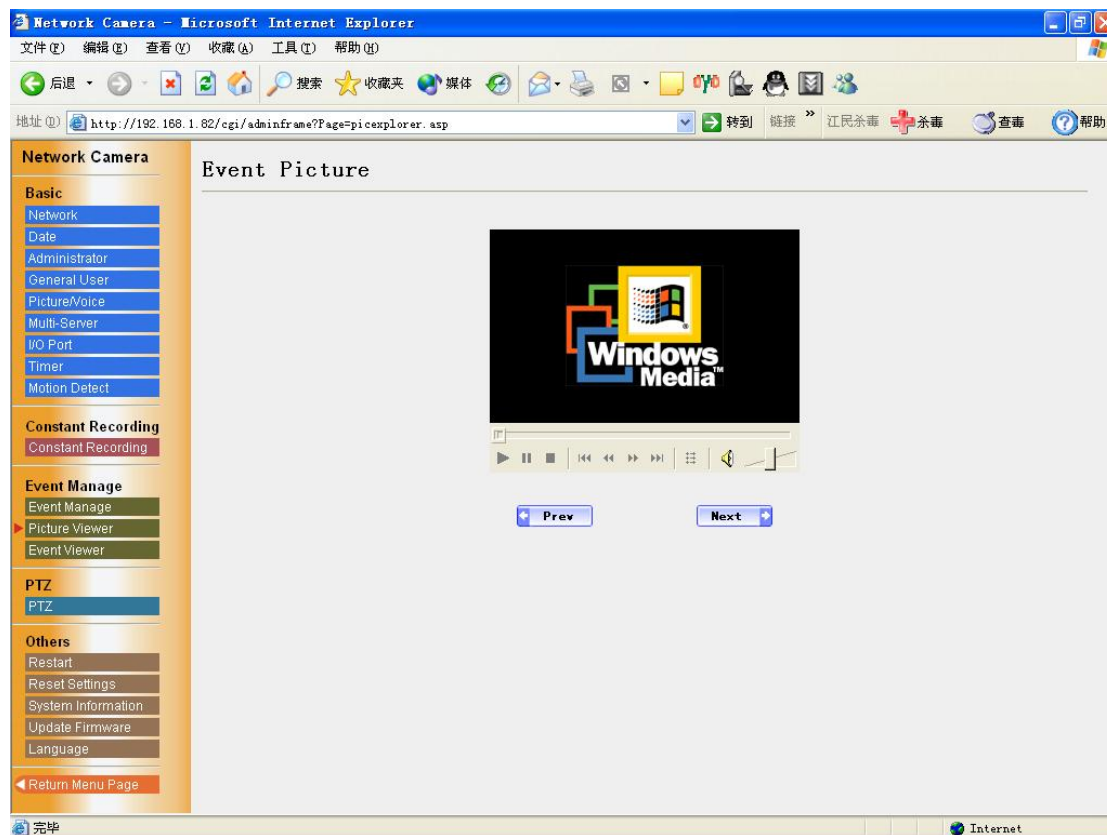
From (Reply): Enter the e-mail address of [Reply-to]. [To] can be the same address as From (Reply).

To : Enter the e-mail address of receiver.

Subject & Text : Sets the subject and text of the e-mail.

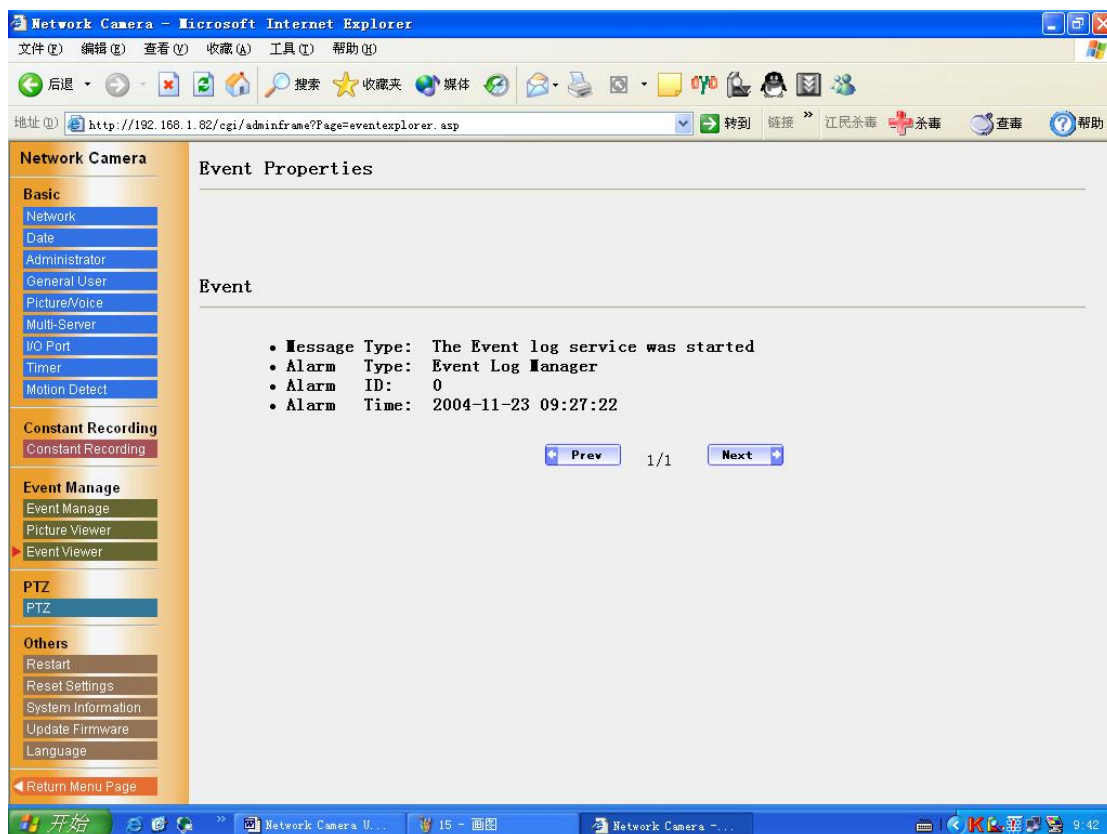
[Network Camera Manager Server]:set the manager server IP address or name .

## 2.3.12 Event Picture



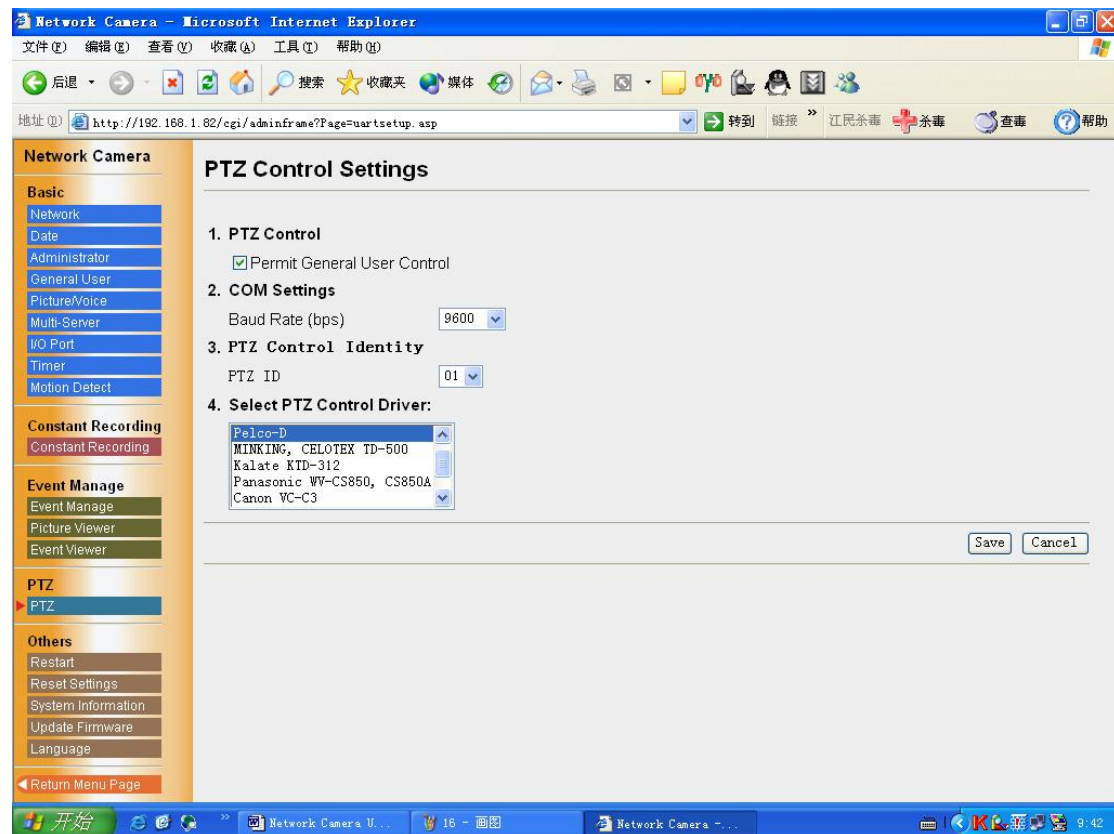
Show the event picture.

### 2.3.13 Event Properties



Show the event properties. Message type ,alarm type , alarm id and alarm time.

## 2.3.14 PTZ Control Settings



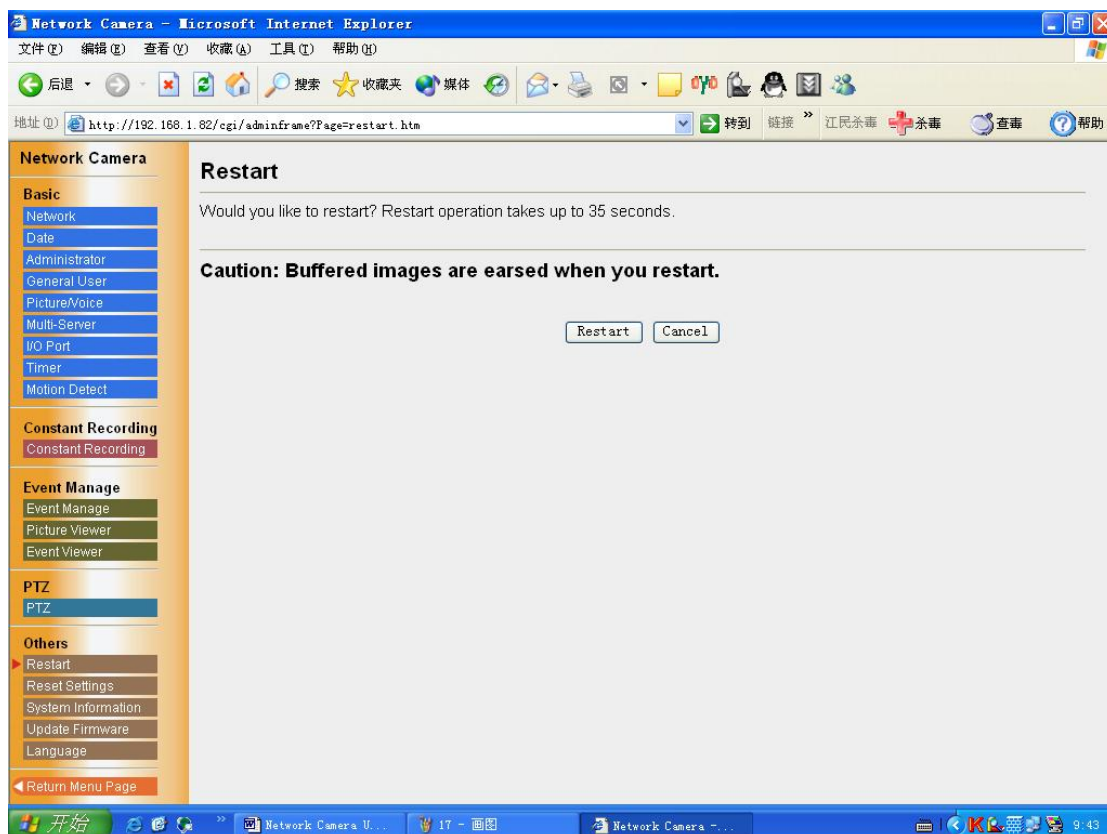
[PTZ Control]: Permit General User control or not.

[COM Settings]: Sets baud rate.

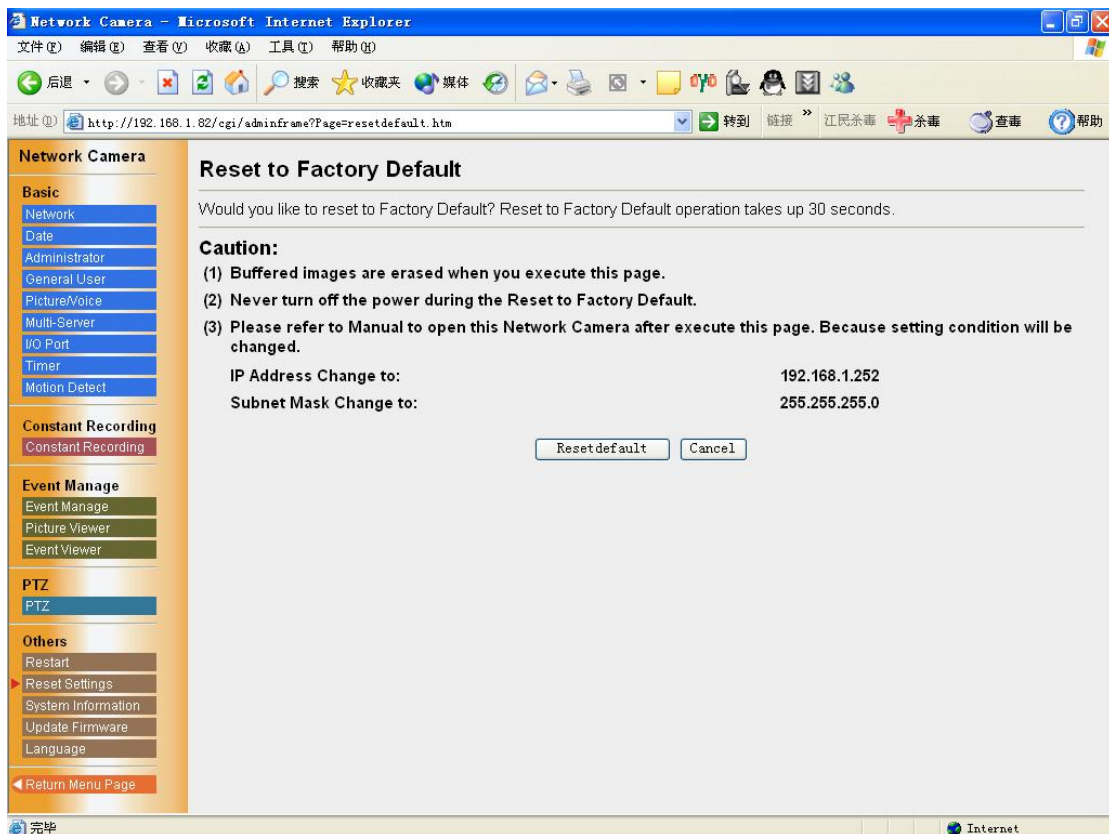
[PTZ Control Identity]: Sets PTZ ID.

[Select PTZ Control Driver]: Select PTZ protocols.

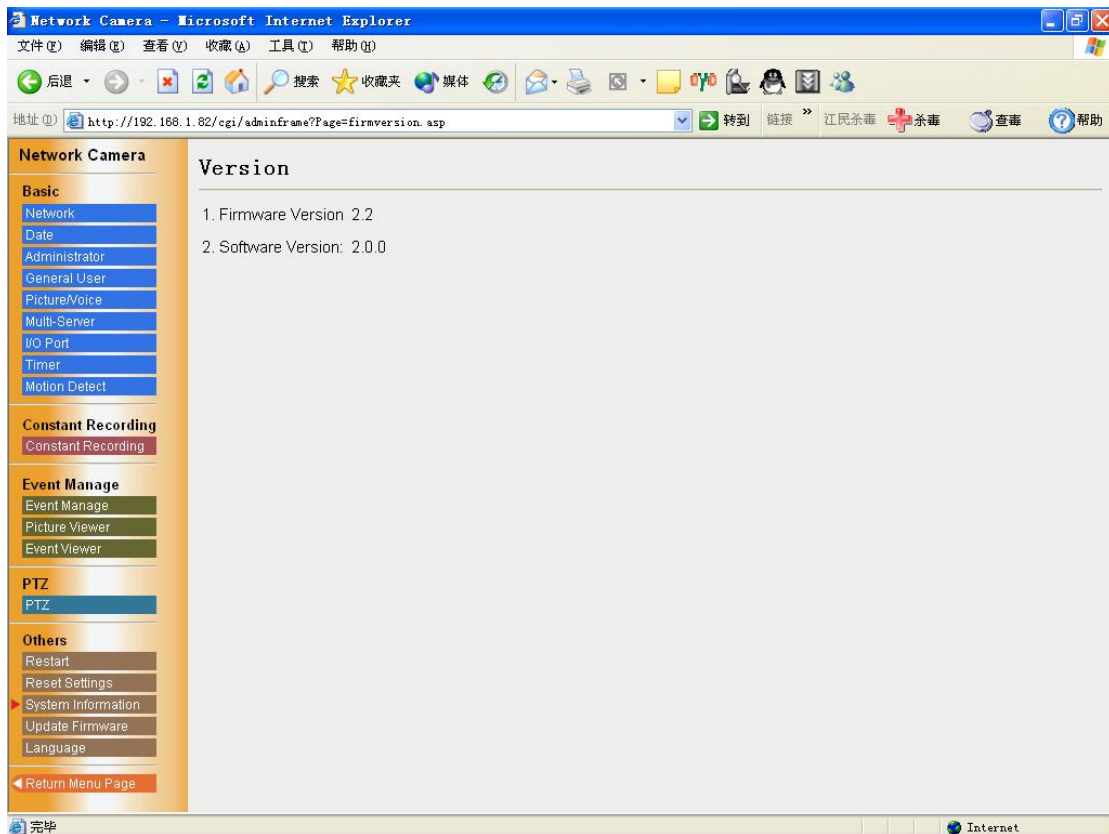
## 2.3.15 Other settings



Restart the network camera.

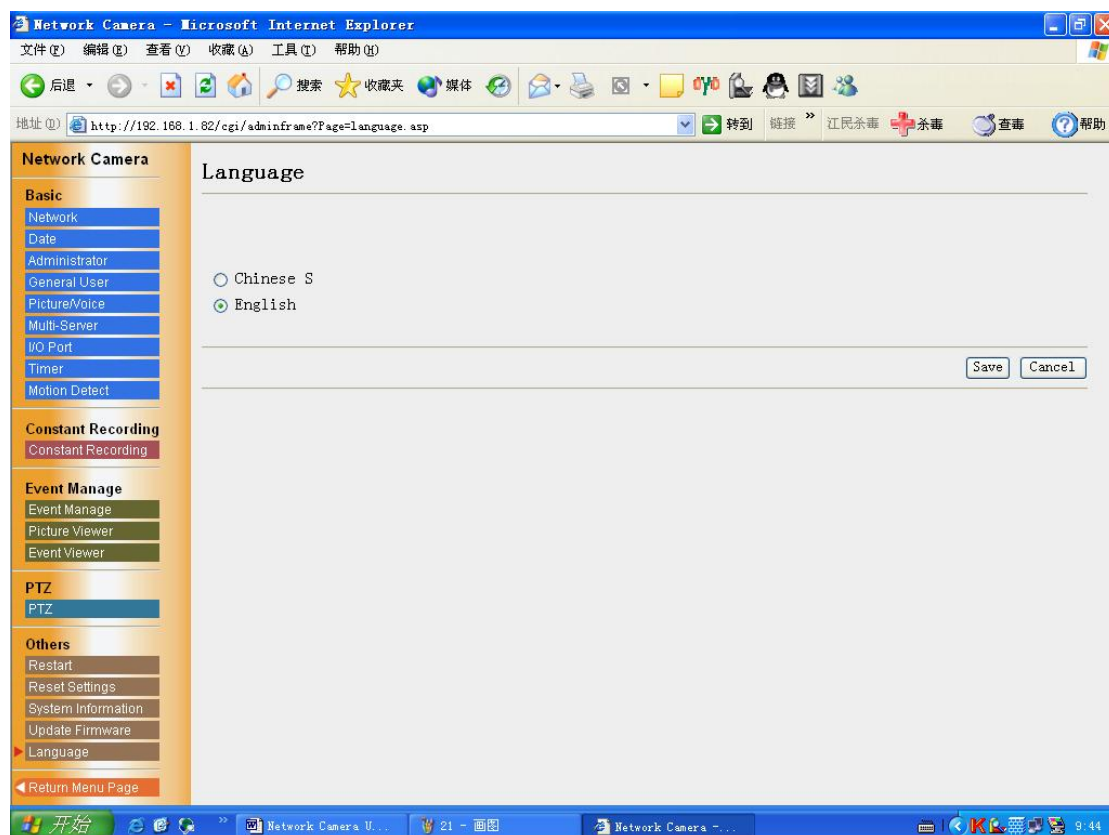
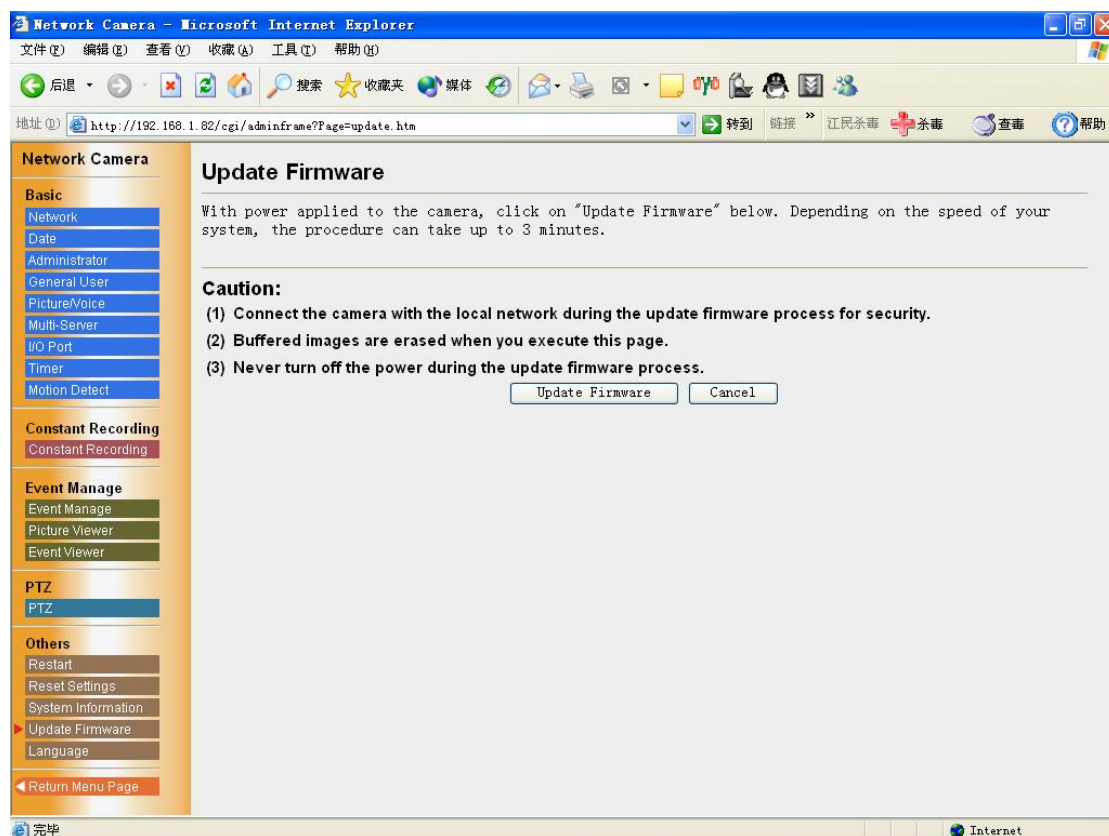


Reset the video server form factory default. The IP will be changed to 192.168.1.252.



Show the system information: firmware version and software version..





Select the language : Chinese or English.

## 5. Technical Guides

### 3.1 Maintenance

To keep the Network Camera in the good condition, maintenance plays an important part. Please keep maintenance when using the Network Camera.

#### Network Camera

- Network Camera is intended for indoor use only. Prolonged exposure to direct sunlight or halogen light may damage the CMOS sensor.

#### The Fixed Focused lens

- Do not touch the movable lens part around the Fixed Focus Lens even in the power off state. If you touch the movable lens part in the front of the Network Camera, it may damage the Network Camera.
- Do not touch the Fixed Focus Lens. It may leave a fingerprint and can cause the image to be out of focus. This can also take away the protective coating on the Fixed Focus Lens.
- Clean the lens with a Lens Cleaning paper.

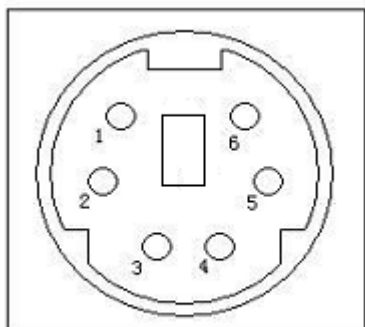
### 3.2 Interfacing to the I/O Connector

The Alarm mode in the Image Transfer feature requires the external sensors/devices to be connected to the digital input terminal of the I/O Connector. The sensor is customer provided and can be a door sensor or infrared ray intruder sensor. In most applications a simple contact closure is all that is required.

### 3.3 I/O

#### 1. I/O

I/O ports have two I/O inputs and two I/O outputs

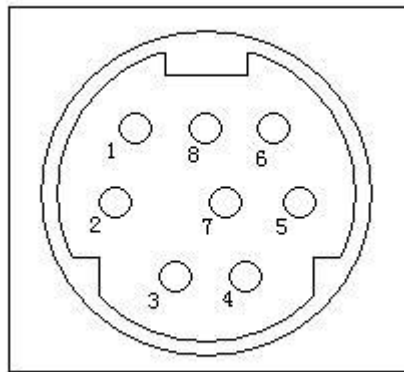


**Explanation of I/O Connector :**

Pin	Function
1	I/O-IN (1)
2	I/O-OUT (1)
3	+12V (<100mA)
4	DGND
5	I/O-IN (2)
6	I/O-OUT (2)

**2.COMM**

COMM ports have one RS-232 , RS-485 and one LINE OUT.



**Explanation of COMM Connector ::**

PIN	Function
1	232/(RXD UFO-II-H ←)
2	DGND
3	232/(TXD UFO-II-H →)
4	DGND
5	LINE OUT
6	AGND
7	485/(B UFO-II-H ←)
8	485/(A UFO-II-H →)

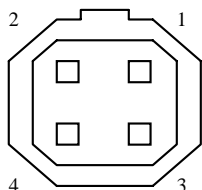
**3.switch**

**Explanation of Connector : :**

Pin	Function
1	BLC
2	IRIS
3	AGC

4	AWB
---	-----

#### 4. LENS



#### Explanation of Connector : :

No.	名称
1	DAMP-
2	DAMP+
3	DRIVE+
4	DRIVE-

## 6. Specifications and Troubleshooting

### 6.1 Network Camera reset procedure—default settings

If the user forgets the settings or passwords, the Network Camera can be easily reset to the default settings.

### 6.2 Specification

<b>Item</b>	<b>UFO-II-L network camera</b>
<b>Network Protocols</b>	TCP/IP, HTTP, FTP, SMTP, DDNS, DNS , DHCP, PPPOE
<b>Network Connection</b>	MODEM、ISDN、XDSL、LAN
<b>CPU</b>	32 bits , RISC CPU
<b>FLASH</b>	4MB
<b>RAM</b>	32M
<b>Operation system</b>	Embedded real time operation system
<b>Image Compression</b>	JPEG, MOTION-JPEG
<b>System Requirements</b>	Microsoft IE, Netscape
<b>Performance</b>	25(SIF),15(VGA)
<b>Resolution</b>	640×480 , 320×240 , 160×120
<b>Alarm image buffer</b>	80frames
<b>Event trigger &amp; Action</b>	I/O Trigger , timer Trigger , motion detection
<b>I/O ports</b>	2 I/O in & 2 I/O out
<b>indoor/outdoor</b>	indoor
<b>Audio(optional)</b>	G.711,G.726,G.723.1,G.729
<b>Sensor</b>	1/3,SHARP, CCD
<b>plane definition</b>	480 line
<b>LUX</b>	1.0 Lux(F1.2)

<b>Video control</b>	<ul style="list-style-type: none"> <li>• AWB: White Balance (ATW/Push/Indoor/Outdoor)</li> <li>• AGC: Automatic Gain Control (On/Off)</li> <li>• Manual Electronic Shutter (1/50 or 1/60 when AES off)</li> <li>• Auto DC IRIS</li> <li>• Auto Electronic Shutter (AES on/off, BLC on/off)</li> <li>• Day/Night feature (Color/B.W. auto switch in low illumination)</li> <li>• BLC: Back light compensation</li> </ul> <p style="text-align: center;">Direct Drive Lens; Build-in VR for DC level adjustment</p>
<b>LENS</b>	Auto DC Iris F1.2~64 Lens
<b>Serial port</b>	One RS-232 Serial port
<b>P/T/Z</b>	One RS-485 Serial port for PTZ camera control
<b>Size</b>	110X102X54mm(expect bracket)
<b>Power supply</b>	12DC/4W
<b>Operating Temperature</b>	( - 20°C ) — ( + 50°C )

### 6.3 Troubleshooting

Problem	Cause and Remedy
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When the Top Page does not appear.	<ul style="list-style-type: none"> <li>• Enter the correct IP address set up to the Network Camera.</li> <li>• IP address of the PC and the Network Camera must be in the same class of the private IP address on the LAN.</li> <li>• Confirm if the Ethernet, the hub and the LAN card indicators are on. If any indicator is off, check the network connections.</li> <li>• The network congestion prevents the Top Page from appearing quickly. Please wait for a while.</li> <li>• The proxy server may prevent you from connecting directly to the Network Camera, please set up not to use the proxy server.</li> </ul>
When forgetting the password to access the Setup Page.	<ol style="list-style-type: none"> <li>1. Reset the Network Camera by pressing the CLEAR SETTING button.</li> <li>2. Reconfigure the Network Camera.</li> </ol>

## 4.4 Important Safety Instruction

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

- a) Read and understand all instructions.
- b) Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- c) Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
- d) Place this unit securely. Serious damage and/or injury may result if the unit falls.
- e) Use proper power source. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- f) Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
- g) To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltage or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
- h) Unplug this unit from the wall outlet and refer servicing to an authorized serviette when the following conditions occur:
  - 1) When the power supply cord or plug is damaged or frayed.
  - 2) If liquid has been spilled into the unit.



- 3) If the unit has been exposed to rain or water.
- 4) If the unit does not work normally by following the operating instructions.
- 5) If the unit has been dropped or physically damaged.
- 6) If the unit exhibits a distinct change in performance.

**WARNING**

TO PREVENT RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

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