

**N7405JV**  
**INSTRUCTION MANUAL**  
**IP CAMERA**



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# Index

<b>1</b>	<b>INTRODUCTION</b> .....	<b>1</b>
1.1	THE PACKAGE INCLUDES .....	1
1.2	FUNCTION AND FEATURES .....	1
1.3	FUNCTION AND FEATURES .....	2
<b>2</b>	<b>APPEARANCE AND INTERFACE</b> .....	<b>3</b>
2.1	APPEARANCE.....	3
2.2	EQUIPMENT INTERFACE.....	3
<b>3</b>	<b>CONNECT TO IP CAMERA OVER A LAN</b> .....	<b>4</b>
3.1	LAN CONNECTION.....	4
3.2	SEARCH AND SET THE IP ADDRESS OF THE IP CAMERA .....	4
3.3	VIEW IP CAMERA VIDEO FEED.....	5
3.3.1	<i>Video Display</i> .....	6
<b>4</b>	<b>CONNECT TO IP CAMERA OVER A WAN</b> .....	<b>7</b>
4.1	WAN (WIDE AREA NETWORK) CONNECTION.....	7
4.2	PORT FORWARDING .....	8
4.3	DDNS .....	8
4.3.1	<i>Manufacturer's DDNS</i> .....	9
4.3.2	<i>Third Party DDNS</i> .....	9
<b>5</b>	<b>OTHER SETTINGS</b> .....	<b>9</b>
5.1	NETWORK SETTING .....	9
5.1.1	<i>Basic Network Setting</i> .....	9
5.1.2	<i>WiFi Setting</i> .....	10
5.1.3	<i>ADSL Setting</i> .....	10
5.1.4	<i>UPnP Setting</i> .....	10
5.1.5	<i>DDNS Setting</i> .....	11
5.1.6	<i>MSN Setting</i> .....	11
5.2	ALARM SETTINGS .....	12
5.2.1	<i>Alarm Setting</i> .....	12
5.2.2	<i>Mail Service Setting</i> .....	14
5.2.3	<i>FTP Service Setting</i> .....	14
5.2.4	<i>Alarm Server</i> .....	15
5.3	ADVANCED .....	15
5.3.1	<i>User Settings</i> .....	15
5.3.2	<i>Multi Device Setting</i> .....	16
5.4	MAINTAIN.....	17
5.4.1	<i>Device Information</i> .....	17
5.4.2	<i>Time Setting</i> .....	17

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5.4.3	<i>Firmware upgrade</i> .....	17
5.4.4	<i>Restore Factory Default</i> .....	18
5.4.5	<i>User browsing Log</i> .....	18
<b>6</b>	<b>CENTRALIZATION CONTROL</b> .....	<b>18</b>
<b>7</b>	<b>FAQ</b> .....	<b>19</b>
<b>8</b>	<b>FCC STATEMENT</b> .....	<b>20</b>

# 1 Introduction

This IP Camera combines a high quality digital video camera with network connectivity and a powerful web server to bring clear video to your desktop from anywhere on your local network or over the Internet.

## 1.1 The package includes

- ✓ IP Camera \* 1
- ✓ IP Camera Utility CD \*1
- ✓ 5V Power Adapter \*1
- ✓ Mounting Stand\* 1
- ✓ LAN Cable \* 1

## 1.2 Function and Features

- ✓ There are three video resolution options: VGA, QVGA, and QQVGA. You can change parameters according to their demands and to satisfy their visual preferences. The video utilizes MJPEG format for compression purposes.
- ✓ The built-in microphone enables you to monitor the audio at the site and also supports two-way intercom function. You can also connect to an external speaker for added audio enhancement.
- ✓ This IP camera utilizes TCP/IP network protocols and also has an inner web server allowing you to view video through IE or other browsers. Data is transferred through one port making it is easier for the user to configure network setting.
- ✓ Supports 802.11b/g protocol for wireless monitoring.
- ✓ Supports UPnP allowing for port forwarding automatically with any router.
- ✓ The motion detection option can be modified for most environmental situations.
- ✓ Infrared LED's for night vision, covers a 5m area to enable 24 hour monitoring.
- ✓ Supports mobile phone remote viewing
- ✓ Supports three levels of user authority.
- ✓ Supports upgrading online.
- ✓ The IP Camera has a label the lists the Device ID and DDNS for easy reference to view the video during the setup process.
- ✓ Software is included which supports Multi-view, Long time recording, and video replay.

### 1.3 Function and Features

Item	Sub Item	Description
Image Capture	Sensor	CMOS sensor
	Total of pixel	300k
	Minimum illumination	IR on, 0 Lux
	Lens	f=3.6mm, F=2.0, Fixed Iris
Assistant	Lighting	Twelve 850nm Infrared LED's - 5m range
	Lighting Control	Auto control
Video and Audio	Resolution	640*480(VGA)/320*240(QVGA)/160*120(QQVGA)
	Compression	MJPEG
	Frame rate	30fps
	Bit rate	128kbps ~ 5Mbps
	Image Rotation	Mirror /Flip
	Audio Compression	ADPCM
Network	Basic Protocols	TCP/IP、UDP/IP、HTTP、SMTP、FTP、DHCP、DDNS、UPNP、NTP、PPPOE
	Other Protocol	802.11b/g
Other Features	Video control	Supports
	Dual way audio	Supports
	Motion Detection	Supports
	Triggered Actions	Email/FTP/ send message to alarm server
	User Setting	Three levels
	Date/ Time Setting	Supports
	Upgrade	Upgrade from network
	DDNS	Free DDNS provided by manufacturer
Hardware Interface	Ethernet	10Base-T/100base-TX
	Audio In	Internal microphone
	Audio Out	Audio Line-out interface x 1
Physical Specs	Weight	120g
	Main body	48mm(L)*85mm(W)*110mm(H)
	Power	DC 5V
	Power consumption	<6W
	Operating temperature	-20°C~50°C
	Operating Humidity	10% ~ 80% non-condensing
Software (PC Side)	OS Supported	Windows 98/2000/XP/Vista/ Win 7
	Browser	IE 6.0 and Above or Compatible Browsers: Firefox, Safari etc.
	Application Software	IPCMonitor

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## 2 Appearance and Interface

### 2.1 Appearance



Figure 1

LED Status Indicator: flashes to indicate it is connected to a wired network; rapid flashing (2~3 times per second) indicates it is connected to a wireless network.

### 2.2 Equipment interface



Figure 2

### 3 Connect to IP Camera Over a LAN

#### 3.1 LAN connection



Figure 3

#### 3.2 Search and set the IP address of the IP camera

Run "BSearch\_en.exe" from the included support CD, the setting interface is shown in figure 4.

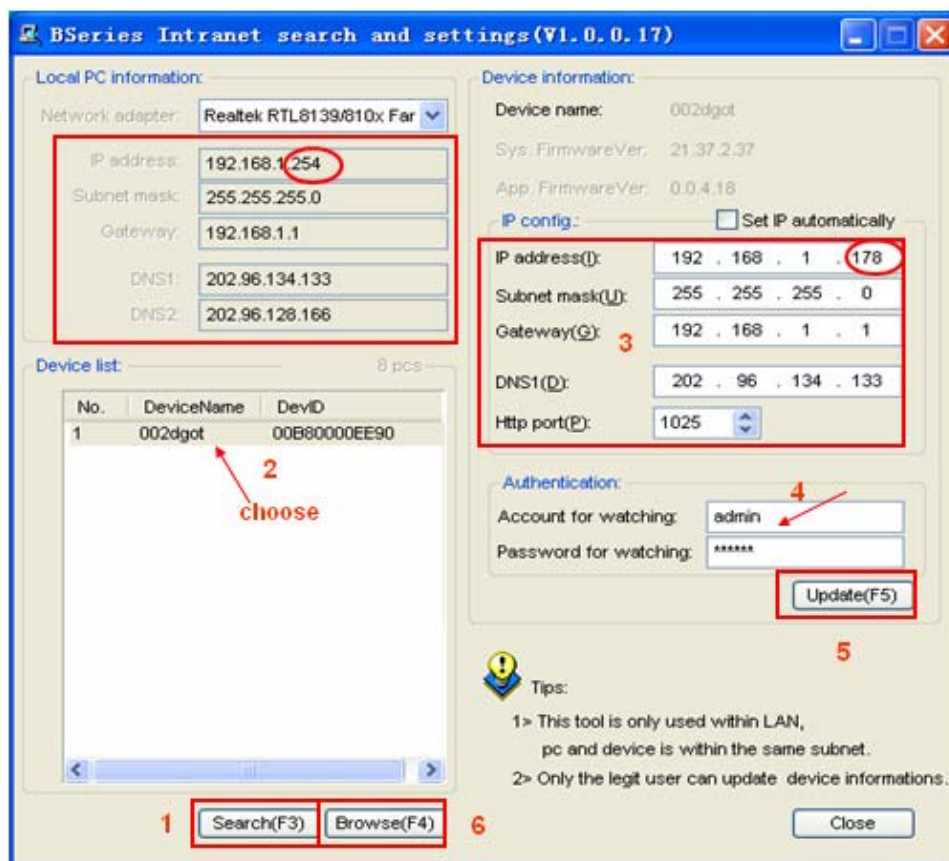


Figure 4

#### Operation Steps:

- 1) Click "Search (F3)
- 2) Choose the device
- 3) Change the IP address of the IP camera according to the IP Config (section 3)

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information in the Device Information section above. The numbers in the red circle should be set to coincide with the user's network.

- 4) Enter the user name and password into "Authentication" (***By default, the user name is: admin, password is: 123456***).
- 5) Click "Update"
- 6) After successfully updating, click "Search (F3)", choose the device and click "Browse (F4)". Then you can view the IP camera, as shown in Figure 5.

**NOTE:**

- 1) If you don't know how to manually configure the "IP Config", you can also check the "Set IP automatically" box to get the IP address from the router automatically.
- 2) If you have a firewall set up on your PC a window may pop-up to ask "whether you want to block this program or not", you should choose not to block.
- 3) The default IP address is 192.168.0.178 and default http port is 80.

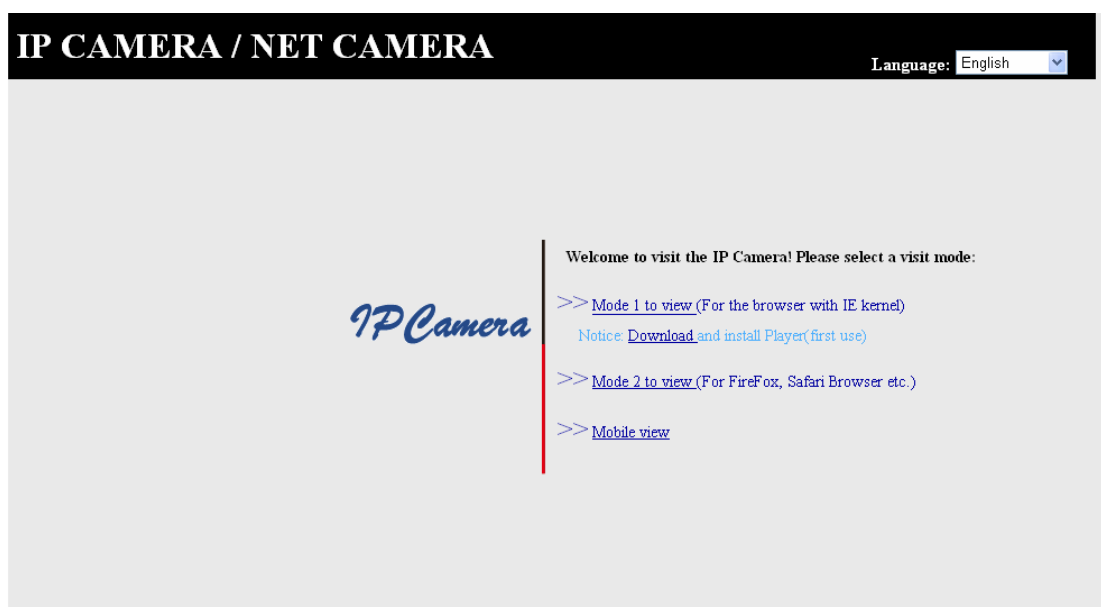


Figure 5

### 3.3 View IP Camera Video Feed

We suggest using Internet Explore to view the camera video feed (it provides more function capability) but you will need to install the Player software first. Click the "Download and install player (first use)" link, a dialogue box will open, as shown in Figure 6, click "Run" and it will automatically download Player and install it.





Figure 6

### 3.3.1 Video Display

After installing the software, click the “Mode 1 to view” link as shown in Figure 5 to view the camera video feed (see Figure 7).

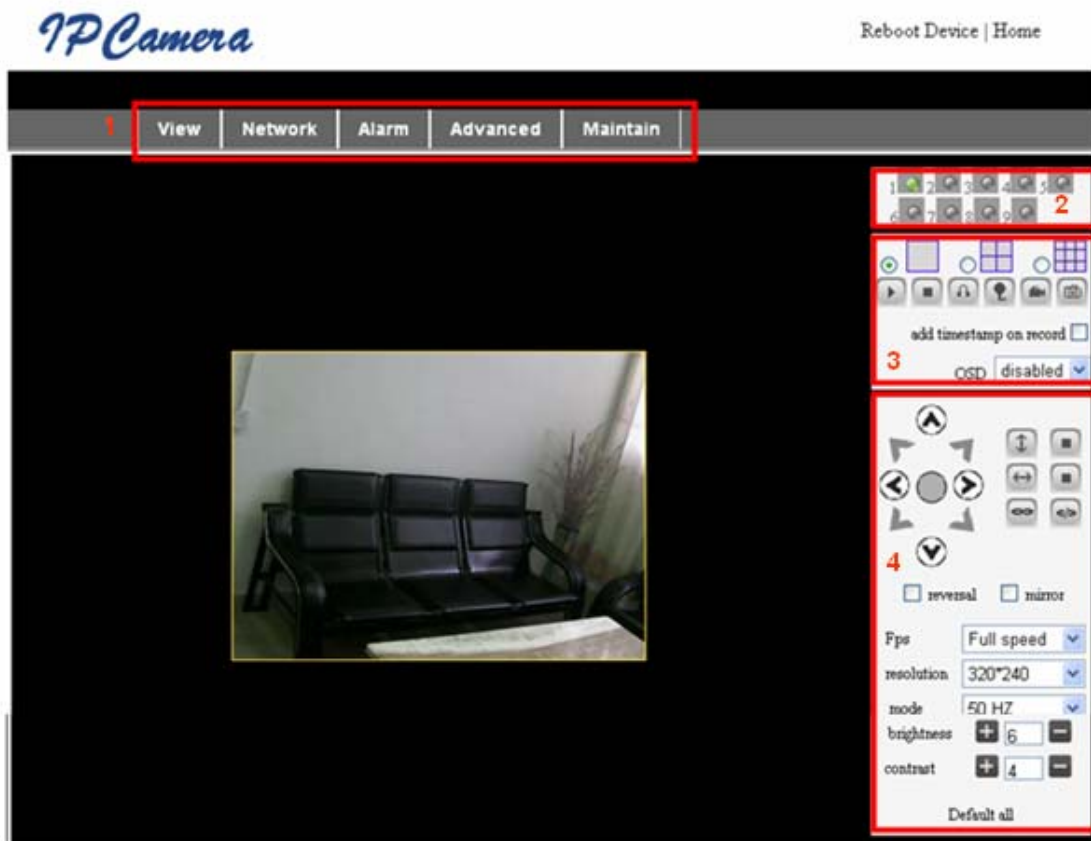


Figure 7

#### 1) Main Menu

The main menu includes the function settings of the submenus

#### 2) Status Display

The status display is in the upper right corner, it can show the status of up to 9 devices:

- ◆ if not connected, button will be shown as gray
- ◆ if connected, button will be shown as green
- ◆ If incorrectly connected, button will be shown as yellow
- ◆ If alarm is activated, button will be shown as red

### 3) Multi Device display area

If multiple devices are added and shifts to 4-Ch or 9-CH (refer to section 5.3.2, the additional devices will automatically be shown. You can select one device, and operate it using these keys: Play, Stop, and Record, Control Pan/Tilt, etc.

These buttons allow you to: start video, stop video , monitor audio, broadcast audio, record, and take snapshot.



**Note:** If you want to record video click this button  , please go to **Advanced—Other Settings** to set the Record Path first. Please see Figure 8 below.

Path Set	
Record Path	C:\Documents and Settings\All Users\Documents <input type="button" value="Browse.."/>

Figure 8

You can also set the device frame rate, resolution, brightness, contrast and other parameters.

**Note:** *This particular model does not have Pan/Tilt or Alarm I/O function, but you can control additional cameras that have these functions using the Multi-view feature of the IP Camera software.*

## 4 Connect to IP Camera Over a WAN

### 4.1 WAN (Wide Area Network) connection

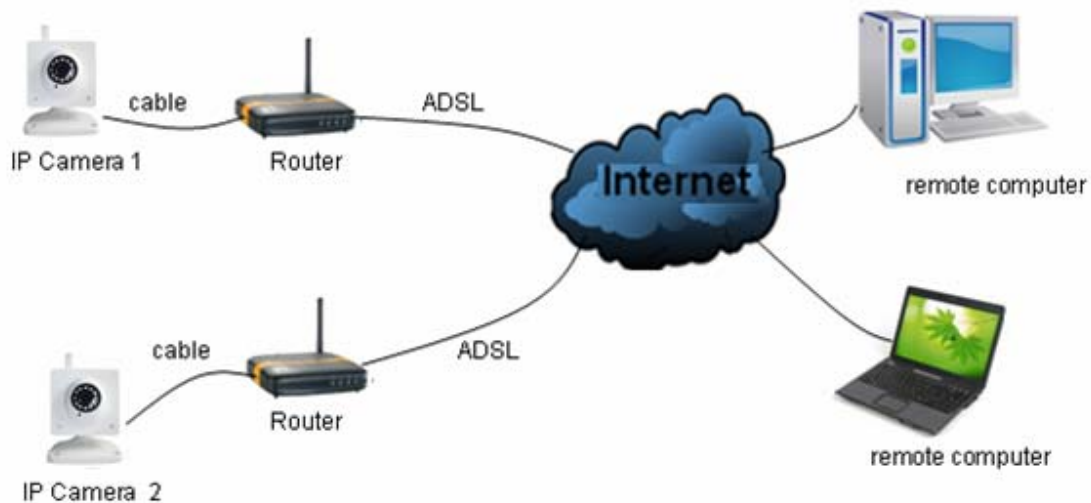


Figure 9

## 4.2 Port forwarding

To view an IP Camera's video feed from a WAN, you **must** enable port forwarding on the router that the camera connects to. A Netgear router is used as an example below:

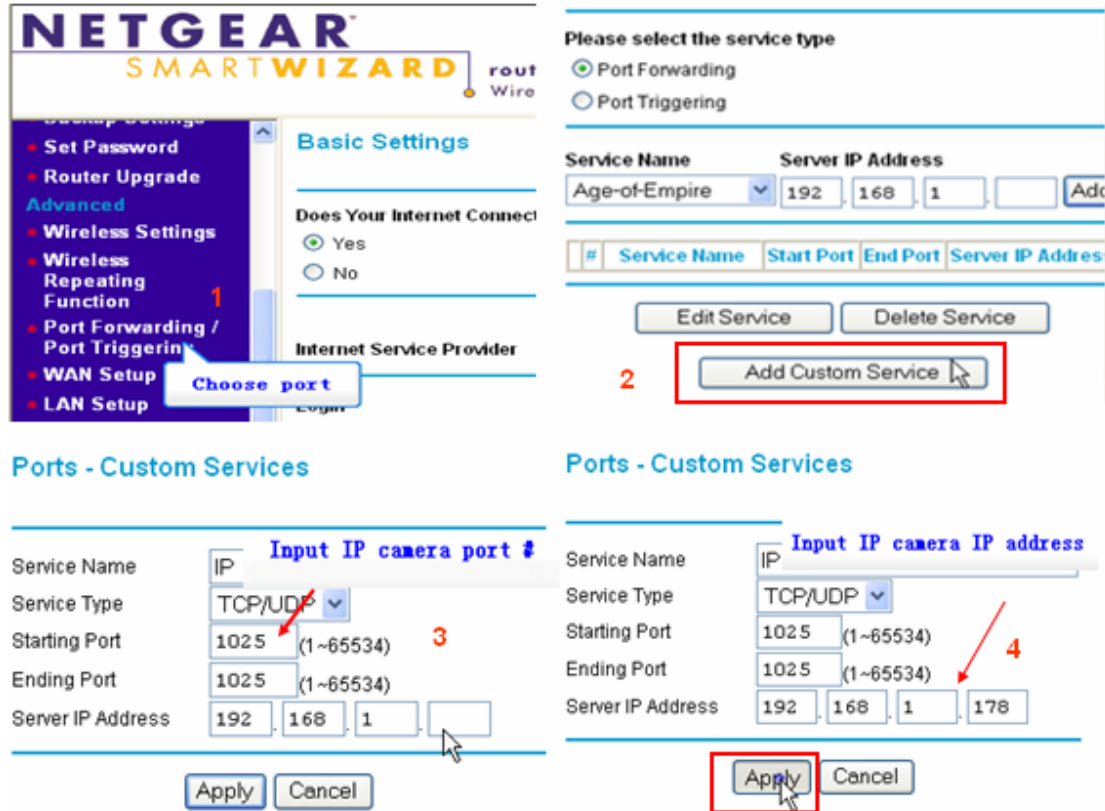


Figure 10

### Setting Procedure:

- 1) After logging in to the router interface, choose "Port Forwarding"
- 2) Choose "Add custom Service"
- 3) Input IP camera port.
- 4) Input IP camera IP address, click "Apply" (the http port and IP address should be the same as in Figure 4 which can be set manually or automatically)

**Note: Different routers have different settings for port-forwarding; please consult your router manual for instructions on how to enable port-forwarding.**

After port-forwarding is enabled, you can view the IP Camera video feed over a WAN.

## 4.3 DDNS

You can also use the manufacturer's DDNS to access the camera as long as port-forwarding is configured.

### 4.3.1 Manufacturer's DDNS

The device manufacturer has provided a free DDNS. You can find it in the Network menu, as shown in Figure 11.

Manufacture's DDNS	
Manufacture's Domain	002alcn.nwsvr.com

Figure 11

### 4.3.2 Third Party DDNS

You can also use a third part DDNS service, such as [www.dyndns.com](http://www.dyndns.com). User must apply for a free domain name from this website, enter the information for it and save the settings (see Figure 12). The domain name can then be used.

DDNS Service	DynDns.org(dyndns) ▼
DDNS User	btest
DDNS Password	●●●●●●
DDNS Host	btest.dyndns.biz

Figure 12

Note: Using a third party domain name, if the http port is not 80, the port number must be added to the domain name following a colon. Example: <http://btest.dyndns.biz:81>. ***With the manufacturer-supplied DDNS there is no need to add the PORT number.***

## 5 Other Settings

### 5.1 Network Setting

#### 5.1.1 Basic Network Setting

You can also enter the Basic Network Settings to set the IP address without using the search software. See Figure 13 below.

Network Settings	
Obtain IP automatically	<input type="checkbox"/>
IP Addr	192.168.0.139
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
DNS Server	192.168.0.1
Http Port	80

Figure 13

### 5.1.2 WiFi Setting

If the camera is using a WiFi connection, enter the Wireless Settings as shown in Figure 14 below. Click the “Scan” button, it will show you all detected wireless networks in the Wireless Network List box. Select one of them and check “Using Wireless LAN”, then the relevant data of the selected wireless network will be shown in the adjacent fields. Enter the “Share Key” access password and click “Set”, the WiFi access configuration is now completed.

Wireless Settings	
Wireless Network List	<div style="border: 1px solid black; padding: 2px;"><p>ChinaNet-Tbkr[00255e1e5d08] infra WPA/WPA2-PSK wifi[001e58f37857] infra WPA/WPA2-PSK netview[002586697046] infra WPA/WPA2-PSK</p></div> <div style="text-align: center; margin-top: 5px;"><input type="button" value="Scan"/></div>
Using Wireless Lan	<input checked="" type="checkbox"/>
SSID	<input type="text" value="wifi"/>
Encryption	<input type="text" value="WPA2 Personal (AES)"/> ▼
Share Key	<input type="text" value="8939038200"/>

Figure 14

Note 1: When the device is connected to both WiFi and wired networks, it will first try to connect to the wired network, if it doesn't succeed then it will try to connect to the WiFi. The IP address and port setting for both wireless and wired network should be the same.

Note 2: Before you configure a wireless network as shown above; please make sure the camera is connected to the network via a network cable. After configuration is successful, please reboot the camera and the wireless function will take effect.

### 5.1.3 ADSL Setting

User can enable ADSL Dialup according to the Figure 15 below (the ADSL provider will assign a user name and password to you when you apply for ADSL service). Connect the camera directly to the ADSL modem and it will be connected directly to the Internet.

ADSL Settings	
Using ADSL Dialup	<input checked="" type="checkbox"/>
ADSL User	<input type="text" value="szlgview@163.gd"/>
ADSL Password	<input type="text" value="••••••"/>

Figure 15

### 5.1.4 UPnP Setting

If UPnP is enabled, and the IP camera is connected to the LAN, it will communicate with the LAN router and set up port-forwarding automatically.

In Figure 16 below, check “Using UPnP to Map Port” and the setting is completed. You can check if the UPnP works or not in the System Maintenance interface.

UPnP Settings	
Using UPnP to Map Port	<input checked="" type="checkbox"/>

Figure 16

Before using the UPnP function, please make sure the router's UPnP function has been initialized. Not all routers support UPnP completely. Please test if the router works with the equipped IP camera, and if not, we suggest you disable this function and configure port-forwarding manually.

### 5.1.5 DDNS Setting

Please refer to the content in section 4.3.

### 5.1.6 MSN Setting

MSN Config	
User	test1@hotmail.com
Password	●●●●●●●●
MSN Friends List	friend1@hotmail.com

Figure 17

You will need to have, or apply for, an MSN account for this device first, for example: [test1@hotmail.com](mailto:test1@hotmail.com). Please enter this MSN account and its password, as shown in Figure 17 above. Then enter your own MSN account, for example: [friend1@hotmail.com](mailto:friend1@hotmail.com), in the 'MSN Friends List'. On your [friend1@hotmail.com](mailto:friend1@hotmail.com) MSN list, you can see [test1@hotmail.com](mailto:test1@hotmail.com) is online. You just send "URL?" to [test1@hotmail.com](mailto:test1@hotmail.com) and you will receive the WAN IP address of that IP camera. But please make sure [test1@hotmail.com](mailto:test1@hotmail.com) and [friend1@hotmail.com](mailto:friend1@hotmail.com) are setup as MSN friends before you enter the settings.

## 5.2 Alarm Settings

### 5.2.1 Alarm Setting

#### 1) Alarm Detect

Alarm Settings	
<b>Alarm Detect</b>	
Motion Detect Armed	<input checked="" type="checkbox"/> Motion Detect Sensibility 5 ▾
Alarm Input Armed	<input checked="" type="checkbox"/> <input checked="" type="radio"/> Open <input type="radio"/> Close
<b>Alarm Action</b>	
IO Linkage on Alarm	<input type="checkbox"/>
Send Mail on Alarm	<input checked="" type="checkbox"/>
Upload Image to FTP	<input type="checkbox"/>
Enable Alarm Server	<input type="checkbox"/>
<b>Scheduler</b>	
<input checked="" type="radio"/> All time	<input type="radio"/> Schedule(NOTICE:set the correct 'Device Clock')Device Clock
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Figure 18

If you select motion detection, and there is any motion, it will detect it and trigger an alarm. In Motion Detect Sensibility, the larger the number selected the more sensitive the motion detection. **Note: For particular model there are no Alarm I/O functions.**

#### 2) Scheduler

The camera device will trigger an alarm at a scheduled time. User can set the schedule to be “All Time” (all the time). Before you set the “Schedule”, please go to Date and Time settings to set the correct date and time, as shown in Figure 19.

**Alarm Detect**

Motion Detect Armed  Motion Detect Sensibility 5

Alarm Input Armed   Open  Close

**Alarm Action**

IO Linkage on Alarm

Send Mail on Alarm

Upload Image to FTP

Enable Alarm Server

**Scheduler**

All time  Schedule(NOTICE:set the correct 'Device Clock')Device Clock

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

Figure 19



## 5.2.2 Mail Service Setting

The camera will send an alarm email to you when an alarm is activated. You only need to enter your email address as shown in Figure 20. After entering the settings, click “Test” to confirm if it is working properly. You can check the “Report Internet IP by Mail” box to enable after a successful test. After every restart, the camera will send its Internet IP address to the assigned email address.

eMail Settings	
Sender	<input type="text" value="sendder@sohu.com"/>
Receiver 1	<input type="text" value="receiver@sohu.com"/>
Receiver 2	<input type="text"/>
Receiver 3	<input type="text"/>
Receiver 4	<input type="text"/>
SMTP Server	<input type="text" value="smtp.sohu.com"/>
SMTP Port	<input type="text" value="25"/>
Transport Layer Security Protocol	<input type="text" value="None"/> <input type="button" value="v"/> Gmail only support TLS at 465 port and STARTTLS at 25/587 port.
Need Authentication	<input checked="" type="checkbox"/>
SMTP User	<input type="text" value="sender"/>
SMTP Password	<input type="password" value="••••••"/>
<input type="button" value="Test"/>	Please set at first, and then test.
Report Internet IP by Mail	<input type="checkbox"/>

Figure 20

## 5.2.3 FTP Service Setting

Ftp Settings	
FTP Server	<input type="text" value="192.168.0.56"/>
FTP Port	<input type="text" value="21"/>
FTP User	<input type="text" value="test"/>
FTP Password	<input type="password" value="•••••"/>
FTP Upload Folder	<input type="text" value="/test"/>
FTP Mode	<input type="text" value="PORT"/> <input type="button" value="v"/>
<input type="button" value="Test"/>	Please set at first, and then test.
Upload Image Periodically	<input type="checkbox"/>

Figure 21

In alarm mode, the camera will take a still image and send it to an FTP server. Please make sure your FTP settings are correct. See Figure 21 for reference. When all the information has been entered, click “Test” to see if the settings are correct. After configuring an FTP server, you can use the “Upload Image Periodically” function. Even with no alarm, the camera will periodically send a still image to the FTP server.

In order to use the FTP function you should apply for a user name and password from the FTP server first. Also, please apply for data storage space and the authority to create sub-directories on the server.

### 5.2.4 Alarm Server

Alarm server	
Server Address:	192.168.0.78
Server Port:	1000
User Name:	test
Password:	•••••

Figure 22

Please confirm if you will connect to an alarm server. The alarm message format is as follows:

```
GET /api/alarm.asp?
  Username=username&
  Usurped=password&
  Rea=alarm type (1=Motion Detection, 2 =Alarm from Alarm in port) &
  io=0
```

You will need to develop and create the alarm server and you can extend other functions on this same server such as: SMS, MMS alarm, mobile phone, etc.

## 5.3 Advanced

### 5.3.1 User Settings

There are three levels of authority; Administrator, Operator and Visitor. Administrator status has the authority to make any setting changes. Operator can only operate the IP camera and can't change settings. Visitor status can only watch the video feed and can't operate the IP camera.

*By default, the administrator's User Name is admin & the password is: 123456.*

Users Settings		
User	Password	Group
admin	•••••	Administrator ▾
user	••••	Operator ▾
guest	•••••	Visitor ▾

Figure 23

### 5.3.2 Multi Device Setting

Multi-Device Settings	
Device List in Lan	anonymous(192.168.0.247) 002alcl(192.168.0.67) 002abyc(192.168.0.239) 002aqvc(192.168.0.241) <input type="button" value="Refresh"/>
The 1st Device	This Device
The 2nd Device	None
The 3rd Device	None
The 4th Device	None
The 5th Device	None
The 6th Device	None
The 7th Device	None
The 8th Device	None
The 9th Device	None
attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet. <input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Figure 24

You can add a maximum of 9 devices to view simultaneously, as shown in figure 24. Click the “Refresh” button to verify the device is on the LAN. When you click a device, a configuration dialogue box will open. Enter the device info, as shown in Figure 25 and click “Save”, afterwards, you must also click “Submit” to save.

The 2nd Device	None
Alias	<input type="text" value="002alcl"/>
Host	<input type="text" value="192.168.0.67"/>
Http Port	<input type="text" value="80"/>
User	<input type="text" value="admin"/>
Password	<input type="password" value="••••••"/>
<input type="button" value="Save"/> <input type="button" value="Remove"/>	

Figure 25

## 5.4 Maintain

### 5.4.1 Device Information

Device Info	
Device ID	002aaai
Device Firmware Version	21.37.2.37
Device Embeded Web UI Version	0.0.4.18
MAC	00:01:02:03:02:03
Alarm Status	None
Third Party DDNS Status	3322 Succeed http://robbicam1.3322.org:10540
UPnP Status	No Action
MSN Status	No Action

Figure 26

### 5.4.2 Time Setting

If the camera device is connected to the Internet, you can enable the NTP server to adjust the time and select the correct time zone or you can use your PC time setting to adjust the camera's time setting.

Date & Time Settings	
Device Clock Time	2010 - 3 - 29 20:08:20
Device Clock Timezone	(GMT +08:00) Beijing, Singapore, Taipei
Sync with NTP Server	<input checked="" type="checkbox"/>
Ntp Server	time.nist.gov
Sync with PC Time	<input type="checkbox"/>

Figure 27

### 5.4.3 Firmware upgrade

The device runs two kinds of software, one is system firmware, the other is application firmware. They can be upgraded separately.

Upgrade Firmware	
Upgrade Device Firmware	<input type="text"/> <input type="button" value="Browser..."/> <input type="button" value="Submit"/>
Upgrade Device Embeded Web UI	<input type="text"/> <input type="button" value="Browser..."/> <input type="button" value="Submit"/>

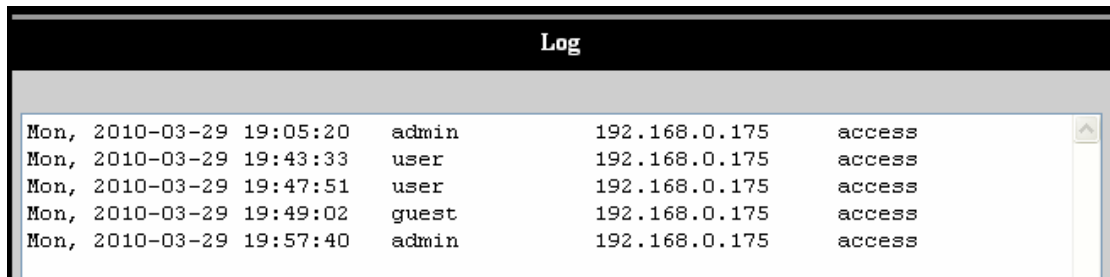
Figure 28

#### 5.4.4 Restore Factory Default

Click “Restore Factory Default”, and a dialogue box will open to confirm if you really want to restore to the factory defaults. After confirmation, the system will restore the IP camera to its factory defaults and then reboot.

#### 5.4.5 User browsing Log

After entering the log interface, you can view by whom and when the device was visited.



Log					
Mon, 2010-03-29 19:05:20	admin	192.168.0.175	access		
Mon, 2010-03-29 19:43:33	user	192.168.0.175	access		
Mon, 2010-03-29 19:47:51	user	192.168.0.175	access		
Mon, 2010-03-29 19:49:02	guest	192.168.0.175	access		
Mon, 2010-03-29 19:57:40	admin	192.168.0.175	access		

Figure 29

## 6 Centralization Control



Figure 30

IPC Monitor software is provided with the camera, and with it, several devices on a LAN and/or WAN can be browsed at the same time. The software also supports snap, video record, alarm and other features. Figure 30 shows the program interface.

For more information, please refer to the IPC Monitor User Manual on the support CD.

---

## 7 FAQ

### 1) Incorrect power adapter will damage the equipment or power adapter

When connecting a power adapter, please check the voltage carefully, it should be a 5V adapter for this equipment.

### 2) Slow browsing speed

This equipment uses an MJPEG compression format, it needs a lot of network bandwidth, less bandwidth will affect browsing speed. Typical bandwidth requirements are:

640x480@10fps : 4.0 Megabits ~ 5.0 Megabits

320x240@30fps : 1.2 Megabits ~ 1.6 Megabits

### 3) Color difference

The default mode is infrared lens, when viewing outdoor or strong infrared light scenes, there may be color distortion where the colors displayed do not match the actual colors. You can switch to the color mode lens to solve this problem, but the color lens can only be used in daylight.

### 4) Can't find the camera via search software after connecting to LAN

Make sure the camera and PC are on the same LAN. If a firewall is being used, please close or suspend it and try again.

### 5) Can find camera via search software, but can't view video feed

If the IP address of IP camera and PC are not in the same Network Segment, you should configure them on the same Network Segment before trying to view the camera feed. The Network Segment is the first three numbers of the IP address. For example, if the IP address of your PC is 192.168.0.100, it can only view cameras with IP addresses between 192.168.0.1 and 192.168.0.99.

### 6) Can connect to camera via public IP address, but can't connect via manufacturer's domain name

Make sure the DNS setting in the search tool is the same as your PC settings; the DNS 1 and DNS 2 settings for both should be same.

The screenshot displays two panels for network configuration. The 'Local PC information' panel on the left shows the following settings: Network adapter: Realtek RTL8139/810x Far; IP address: 192.168.0.175; Subnet mask: 255.255.255.0; Gateway: 192.168.0.1; DNS1: 192.168.0.1; DNS2: (empty). The 'Device information' panel on the right shows: Device name: 002alcn; Sys. FirmwareVer: 21.37.2.37; App. FirmwareVer: 0.0.4.18. Below this is an 'IP config' section with a checkbox for 'Set IP automatically' which is unchecked. The IP settings are: IP address(I): 192 . 168 . 0 . 78; Subnet mask(U): 255 . 255 . 255 . 0; Gateway(Q): 192 . 168 . 0 . 1; DNS1(D): 192 . 168 . 0 . 1. At the bottom left, a 'Device list' section shows '1 pcs'.

Figure 31

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## 8 FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.