

WinBook[®] *SECURITY*

N7405JV

INSTRUCTION MANUAL

IP CAMERA



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1 Introduction

The 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
- ✓ RJ45 Cable * 1
- ✓ Mounting Screws with wall anchors * 4
- ✓ Quick Guide* 1

1.2 Function and Features

- ✓ The video is compressed by MJPEG. There are three video resolution options, VGA, QVGA, and QQVGA. User can change some parameters according to their demands to satisfy their visual preferences.
- ✓ With built-in Microphone, it enables the User to monitor audio at the site. User can also connect this equipment to a speaker, and it supports two-way intercom function.
- ✓ It uses TCP/IP network protocols and has an inner web server. Users can browse video through IE or other browsers. Data is transferred through one port; it is easy for user to configure the network setting.
- ✓ Supports 802.11b/g protocol, can build up wireless monitoring.
- ✓ Supports UPNP, port forwarding automatically on the router.
- ✓ Motion detection can detect the environmental situation.
- ✓ Infrared LED for night vision covers 5m area, to enable 24 hour monitoring.
- ✓ Supports mobile phone remote viewing
- ✓ Supports three levels of user authority.
- ✓ Supports upgrading online.
- ✓ A label on the bottom of each IP Camera lists the Device ID and DDNS. When IP Camera is connected to the internet, this URL can be used to visit the device.
- ✓ Manufacturer provides free software which supports Multi-view, Long time recording, video replay etc.

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	12 850nm Infrared LEDs, 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 mic
	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 etc.
	Browser	IE 6.0 and Above or Compatible Browser, Firefox, Safari etc.
	Application Software	IPCMonitor

2 Appearance and Interface

2.1 Appearance



Figure 1

Status Indicator: when device is running, flashes one or twice per second to indicate the wired network is connected; rapid flashing (2~3 times per second, indicates wireless network is connected).

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 support CD, the setting interface is as figure 4.

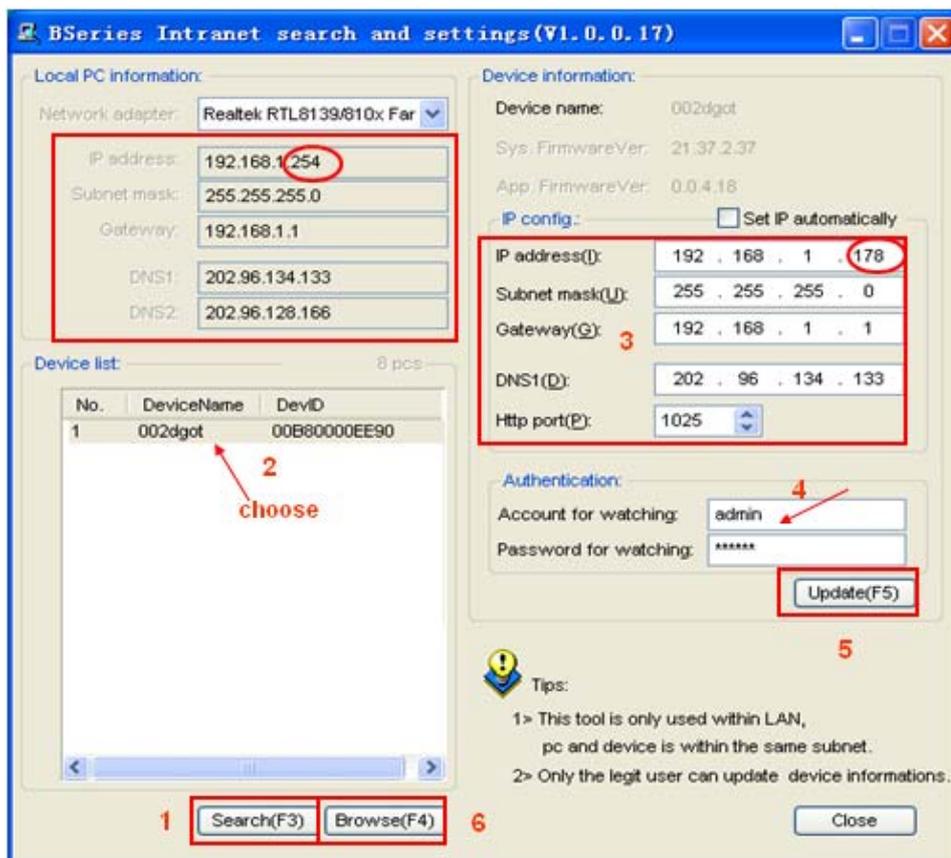


Figure 4

Operation Steps:

- 1) Click "Search (F3)
- 2) Choose the device
- 3) Change the IP address of the IP camera according to the information in the red frame on the left. The numbers in the red circle should not be the same.

- 4) Put 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 may view the IP camera, as shown in Figure 5.

NOTE:

- 1) If you don't know how to manually configure “IP config”, you can also tick the “Set IP automatically” box to get the IP address from the router automatically.
- 2) If you have firewall software on your PC, when you run BSearch_en.exe, it may pop up a window to ask “whether you want to block this program or not”, then you should choose not to block.
- 3) The default IP address is 192.168.0.178 and default http port is 80.

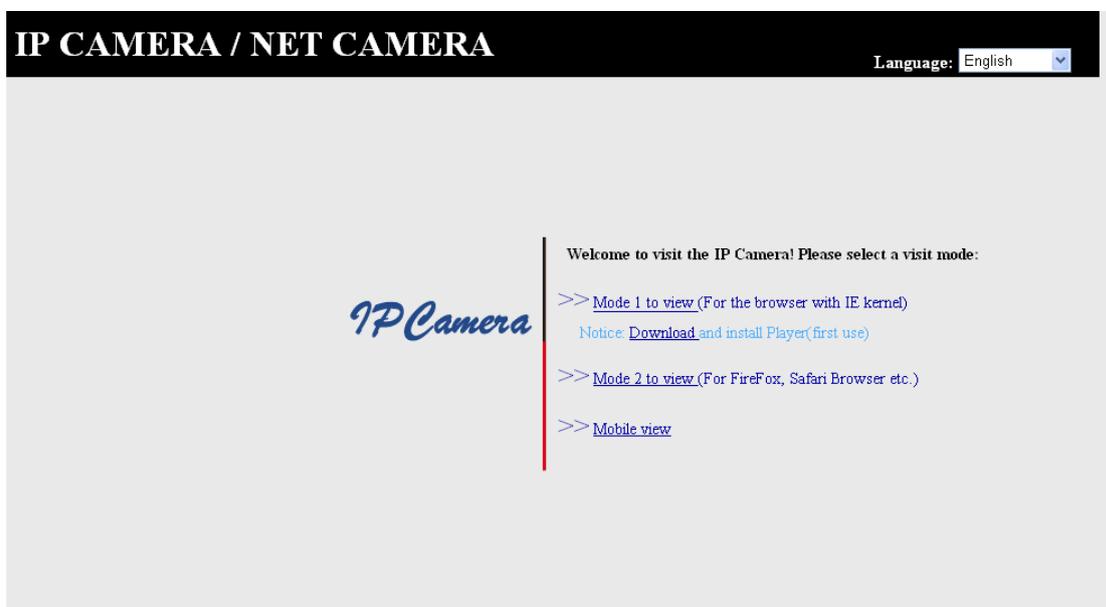


Figure 5

3.3 View IP Camera Video Feed

We suggest using the Internet Explore to view the camera video feed (it provides more functions, but User will need to install the Player software first. Click the “download and install player (first use)” link, it will pop up a dialogue box as in Figure 6, click Run, 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 in Figure 5 to view the camera video feed (see Figure 7).

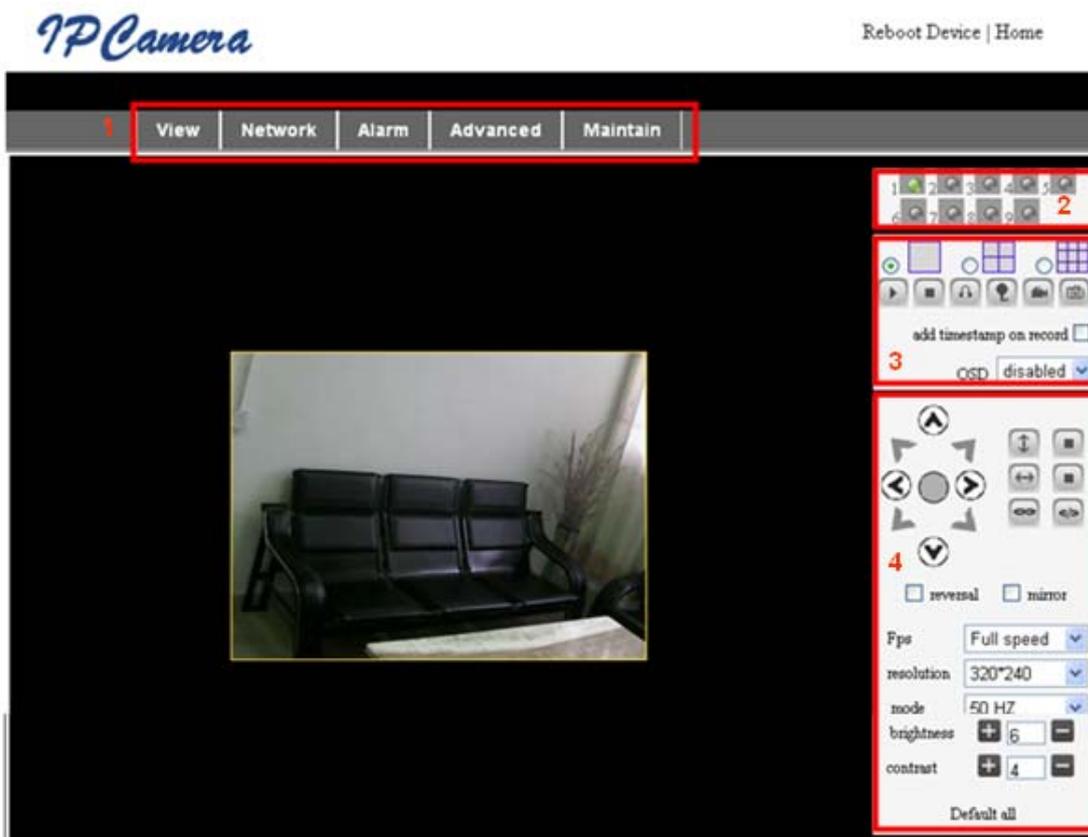


Figure 7

1) Main Menu

The main menu includes the function settings of the submenus

2) Status Display

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

- ◆ if not connected, button is gray
- ◆ if connected, button is green
- ◆ If wrongly connected, button is yellow
- ◆ If alarm, button is red

3) Multi Device display area

If User adds multiple devices (refer to section 5.3.2), when shifting to 4-Ch or 9-CH, it will automatically show additional devices. You select one device, and you can operate it using these keys: Play, Stop, and Record, Control Pan/Tilt, etc.



These buttons mean start video, stop, monitor, talk, record and snapshot.

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

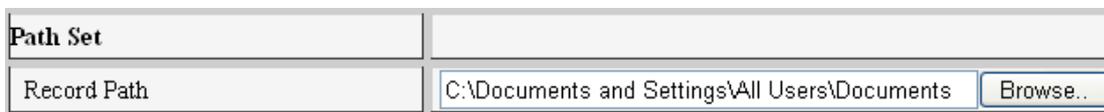


Figure 8

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

Note: This model has no Pan/Tilt or Alarm I/O function. You can control additional cameras 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

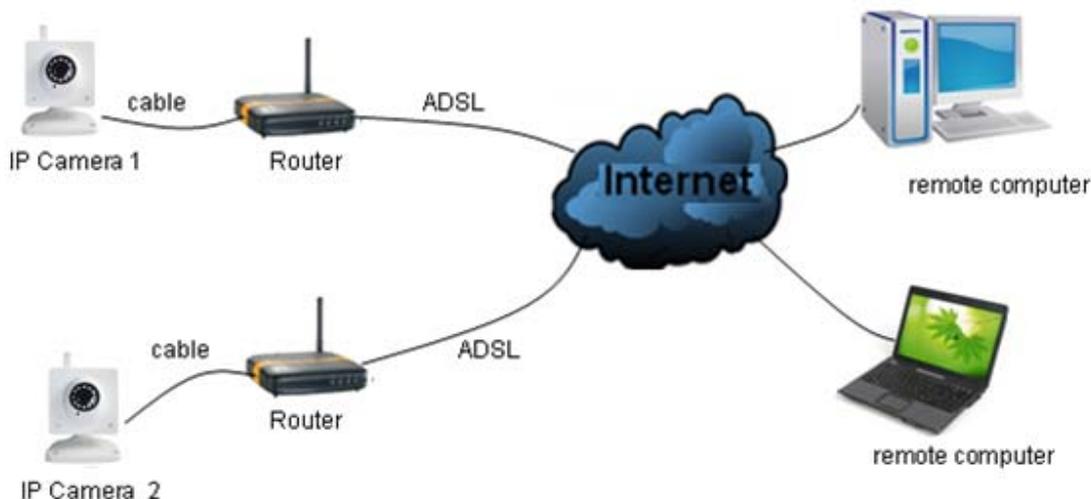


Figure 9

4.2 Port forwarding

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



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 for it is configured.

4.3.1 Manufacturer's DDNS

The device manufacturer has provided a free DDNS. The User 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

User can also use a third part DDNS service, such as 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

The user 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 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 tick “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 complete.

Wireless Settings	
Wireless Network List	<div style="border: 1px solid black; padding: 2px;"> ChinaNet-Tbkr[00255e1e5d08] infra WPA/WPA2-PSK wifi[001e58f37857] infra WPA/WPA2-PSK netview[002586697046] infra WPA/WPA2-PSK </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	WPA2 Personal (AES) ▾
Share Key	<input type="text" value="8939038200"/>

Figure 14

Note1: When the device is connected both WiFi and wired networks, it will firstly try to connect to the wired network, if it doesn't succeed, it will then try to connect to the WiFi. The IP address and port for both wireless and wired network are the same.

Note2: 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 succeeds, please reboot the camera and the wireless function takes 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 is then connected 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="password" value="••••••"/>

Figure 15

5.1.4 UPnP Setting

If you enable UPnP, once 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, tick “Using UPnP to Map Port” and the setting is complete. 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 well with the camera equipment, 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	<input type="text" value="test1@hotmail.com"/>
Password	<input type="password" value="••••••••"/>
MSN Friends List	<input type="text" value="friend1@hotmail.com"/>
	<input type="text"/>

Figure 17

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

5.2 Alarm Settings

5.2.1 Alarm Setting

- 1) Alarm Detect

Alarm Settings

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

Figure 18

User can select motion detection. If there is any motion, it will detect the motion and trigger an alarm. In Motion Detect Sensibility, the larger the number selected, the more sensitive the motion detection. **Note: For this 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 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. You only need to fill in your email address as shown in Figure 20. After the entering the settings, click Save and Test to confirm it is working properly. If so, User can tick the “Report Internet IP by Mail” box to enable it. After every restart, the camera will send its Internet IP address to User’s email address.

eMail Settings	
Sender	sendder@sohu.com
Receiver 1	receiver@sohu.com
Receiver 2	
Receiver 3	
Receiver 4	
SMTP Server	smtp.sohu.com
SMTP Port	25
Transport Layer Security Protocol	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	sender
SMTP Password	••••••
<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	192.168.0.56
FTP Port	21
FTP User	test
FTP Password	•••••
FTP Upload Folder	/test
FTP Mode	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 work.

After configuring an FTP server, you can use the “Upload Image Periodically” function. Even with no alarm, the camera can periodically send a still image to the FTP server.

In order to use the FTP function, User 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 have connected to the 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
```

The Alarm server needs developing by user. User can extend other functions on this server, like SMS, MMS alarm, and mobile phone etc.

5.3 Advanced

5.3.1 User Setting

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) <div style="text-align: right;"> <input type="button" value="Refresh"/> </div>
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. <div style="text-align: center;"> <input type="button" value="Submit"/> <input type="button" value="Refresh"/> </div>	

Figure 24

As Figure 24, User can add a maximum of 9 devices to view simultaneously. Click the Refresh button to check the device on the LAN. When you click a device, a configuration dialogue box will pop up. Enter the device info, as in Figure 25 and click Save. After that, 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 Embedded 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 right time zone. Or you should use the PC's 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 Embedded 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”, it will pop up a dialogue box to confirm if you really want to restore the factory defaults. After confirmation, the system will restore the factory defaults and reboot.

5.4.5 User browsing Log

After enter the log interface, you can view by whom and when the device is 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

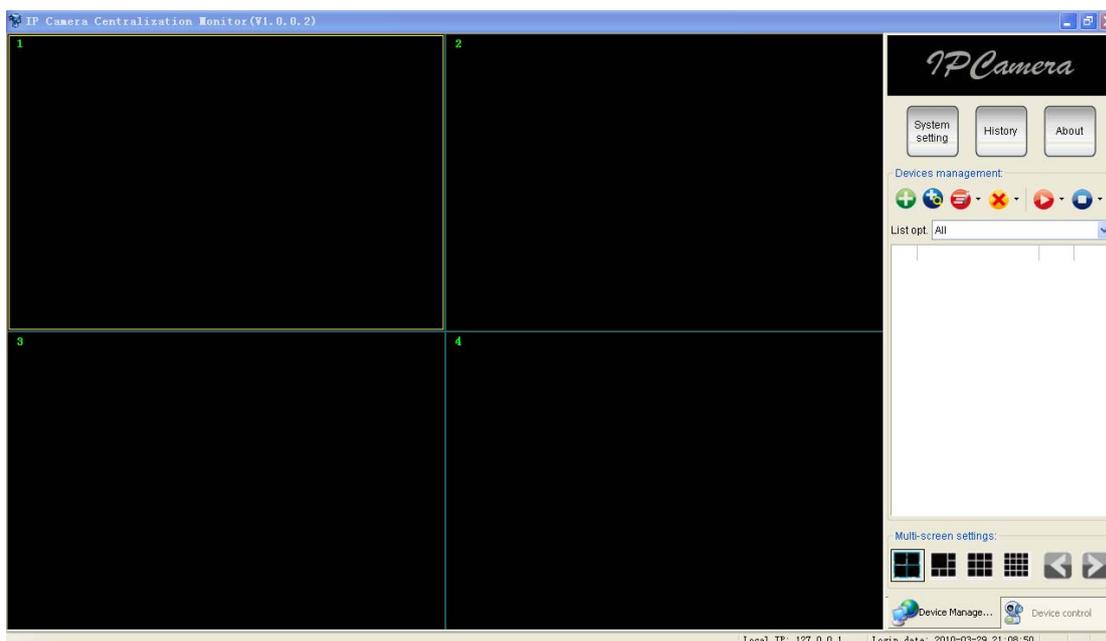


Figure 30

IPC Monitor software is provided with the camera. 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) **Slowly browse 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. User 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 camera via search software after connecting to LAN**

Make sure the camera and PC are on the same LAN. If firewall software is installed, 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 192.168.0.255.

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.

Local PC information:		Device information:	
Network adapter:	Realtek RTL8139/810x Far	Device name:	002alc0
IP address:	192.168.0.175	Sys. FirmwareVer:	21.37.2.37
Subnet mask:	255.255.255.0	App. FirmwareVer:	0.0.4.18
Gateway:	192.168.0.1	IP config:	<input type="checkbox"/> Set IP automatically
DNS1:	192.168.0.1	IP address(I):	192 . 168 . 0 . 78
DNS2:		Subnet mask(U):	255 . 255 . 255 . 0
Device list: 1 pcs		Gateway(G):	192 . 168 . 0 . 1
		DNS1(D):	192 . 168 . 0 . 1

Figure 31