



B Series——Waterproof Model

NC543 NC543W

User Manual

V1.0

WANSVIEW
IP Camera www.wansview.com

Index

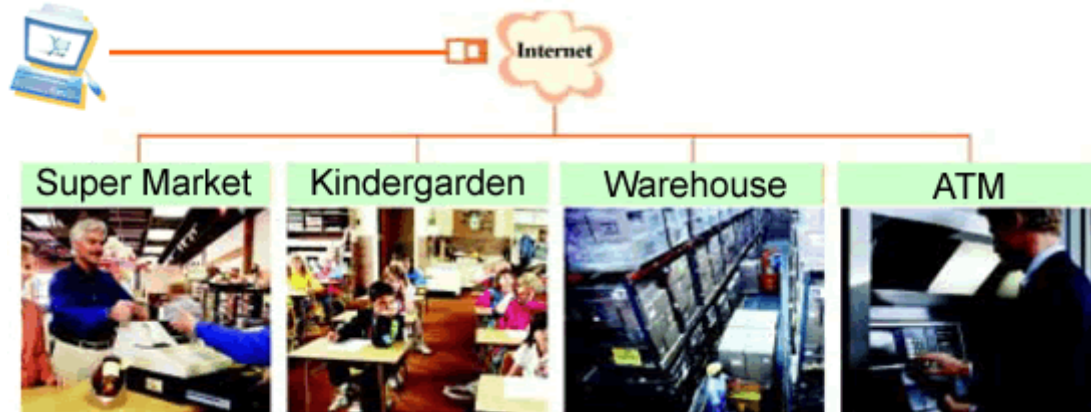
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1 Introduction

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.



	Your IP Camera package should contain the following items, If any of the listed items are missing, please contact your reseller from where you purchased the camera for assistance.
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The package includes:

- ✓ IP Camera * 1
- ✓ IP Camera Utility CD *1
- ✓ 5V Power Adapter *1
- ✓ Stand of plastic * 1
- ✓ Cable * 1

2 Function and Features

- ✓ The video is compressed by M-JPEG. There are VGA/QVGA/QQVGA three video resolutions optional. User can change some parameters according to their demands to satisfy his own visual prefer.
- ✓ It adopts the TCP/IP network protocols and has inner web server. Users can browse video through IE and other browsers. Data is transferred through one port; it is easy for user to do the network setting.
- ✓ Infrared LED for night vision covers 25m area, to realize 24 hours monitoring.
- ✓ Provide IP66 waterproof grade, more suitable for outdoors application.
- ✓ Support 802.11b/g protocol, can build up wireless monitoring.
- ✓ Supports UPNP, port forwarding automatically on the router.
- ✓ Motion detection can find alarm.

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- ✓ Alarming record can be sent by email, FTP server. It also sends alarm info to the alarm server.
- ✓ Support three level of user authority.
- ✓ Support upgrading online.
- ✓ A free DDNS provided by manufacturer, and written in the device.
- ✓ Manufacture provides free software, support Multi-view, Long time recording, video replay etc.

3 Appearance and interface

3.1 Appearance



Figure 1

3.2 Interface of Equipment



Figure 2

- 1) **Power Input Socket:** Connect DC adaptor, its output should be 5V power

specification.

- 2) **RJ45 Ethernet Socket:** RJ45 Ethernet socket is 10/100M self-adjust. The equipment can connect to all kinds of network equipments, such as hub, router, switch, etc.

NOTE: Factory setting IP is 192.168.0.178, the http port is 80, the username is admin, the password is 123456.

- 3) **RESET Button:** Press it and hold on more than 10 seconds, the equipment will restart and recover to the factory default settings.

4 Network Connecting

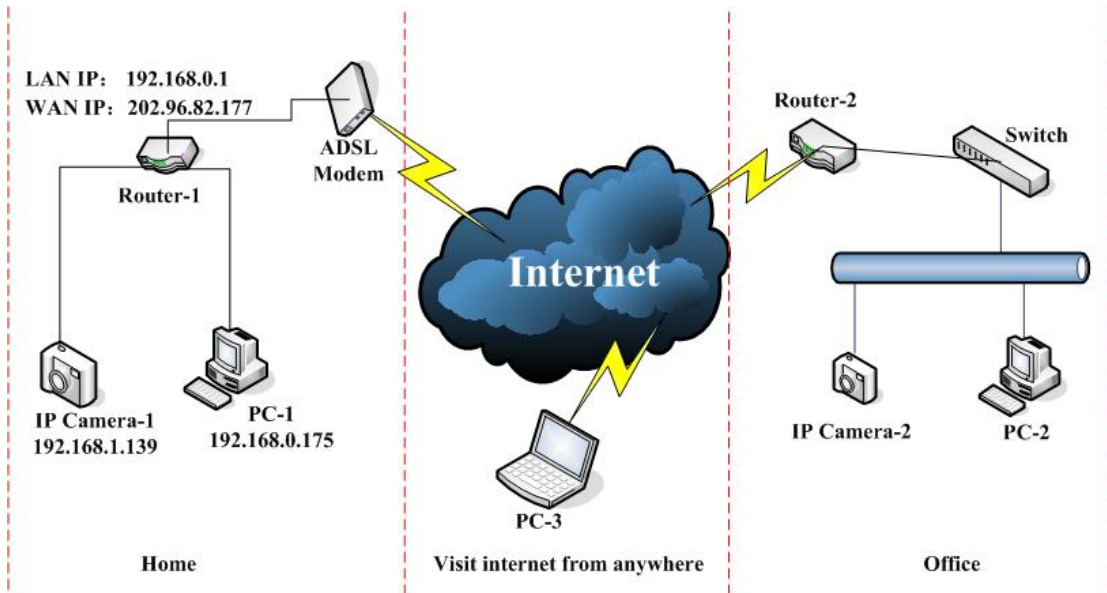


Figure 3

4.1 Connection Instruction

Before visit the IP Camera, you should firstly connect it to the Network, supply the power to it, and check if the light of RJ45 Socket is normal to make sure all of the communication links are fluent. The connection method is like as Figure 3.

- 1) IP Camera-1 and IP Camera-2 are connected separately to 2 different LANs.
- 2) And these 2 LANs are already connected to the Internet. In order to get the LANs to be connected to the Internet, they are required to be equipped with router and to apply for the communication link from the local Internet Service Provider (ISP) and connect to it by ADSL or optical fiber, etc.
- 3) PC-3 is connected to the Internet.

4.2 Visit Instruction

To visit the IP Camera, you should do some settings of IP Camera and Internet besides

getting the communication link fluency.

- 1) **The PC and IP Camera are in the same LAN.** If you want to use this PC to visit the IP Camera, you need to make sure their IP address is at the same segment. Otherwise you need to do the reset of the IP Camera's IP address. For example, the IP Camera-1's IP address in Figure 3 is 192.168.1.139 (at the segment of 192.168.1), while the PC-1's IP address is 192.168.0.175 (at the segment of 192.168.0), then you will be not able to visit the IP Camera through the PC-1. You need to change the IP Camera-1's IP address to 192.168.0.139 firstly.
- 2) **The PC and IP Camera are in different LANs, but they are all connected to Internet.** For the IP Camera-1 and PC-2 in Figure 3, if you want to visit IP Camera-1 by PC-2, you should firstly do the setting as 1) to make sure that you can visit IP Camera-1 through PC-1 and then do the setting of router-1 (do the port forwarding from the router). The PC-2's visit application could be sent through router-1 to IP Camera-1. Normally, PC-2 could only send the information to router-1, if you don't do the setting of router-1, then PC-2 could not visit IP Camera-1.

5 Visit IP Camera from LAN

5.1 Set IP Address

The IP addresses of IP Camera and PC should be at the same segment, for Figure 3, the IP Camera-1 can't be visited. Run the BSearch_en.exe in the CD, click Search button, and then select the IP Camera-1 to reset the IP address, as the Figure 4.

Setting Instruction:

- ✓ Please carefully check the "Local PC information" on the top left corner which lists the PC configuration. If there are several network adapters in the PC, please select the one you are using and make sure the IP address of IP Camera is as the same segment of the PC.
- ✓ Change the content of "IP config" on the right to make sure the content is the same as "Local PC information". Only the last section of the IP address which needs setting by yourself, you can set it as 139 just like Figure 4.
- ✓ **If you don't know how to fill out the content of "IP config", you could also tick the "Set IP automatically" to get the IP address from the router automatically.**
- ✓ Put the user name and password into "Authentication" (**By default, the user name is: admin, password is: 123456**). Click "Update". The setting will take effect now. Select the device in list box, click "Browse" button, it will open the Browser automatically and pop up a window at the same time which requires to inputting the user name and password. Then you see the home page of the IP Camera-1, click "English" on the right-top corner, just as below Figure 5. On the right corner of the interface, user can choose the language.

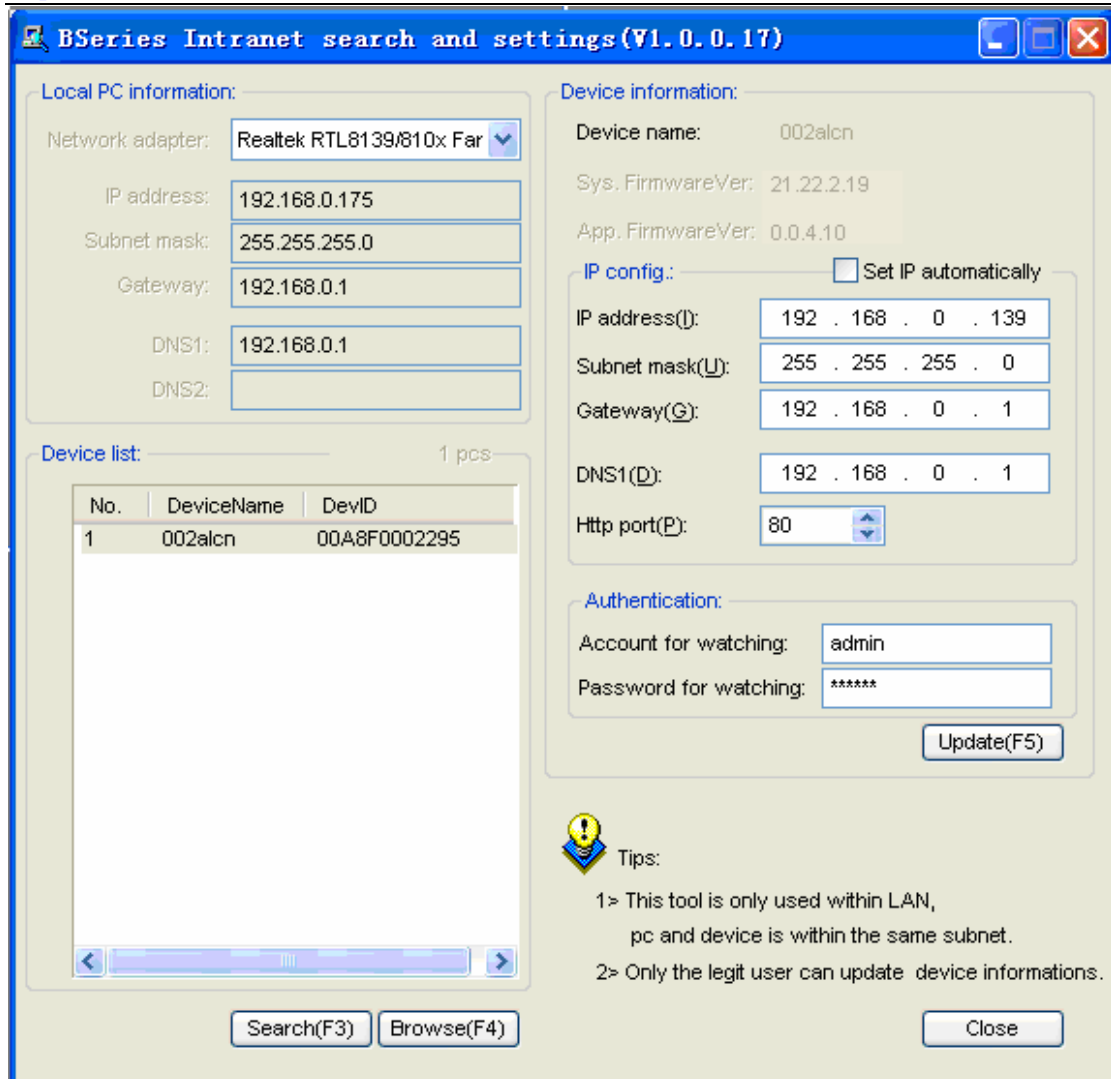




Figure 4

 If you have the firewall software in your PC, when you run the HSearch_en.exe, it may pop up a window to say if you want to block this program or not, then you should choose not to block.

 IP Camera by default use fixed IP address 192.168.0.178 and fixed http port 80. If you don't have this software, you could also press down the reset button to go back the factory setting. Then you could use this defaulted IP address to visit the IP Camera.

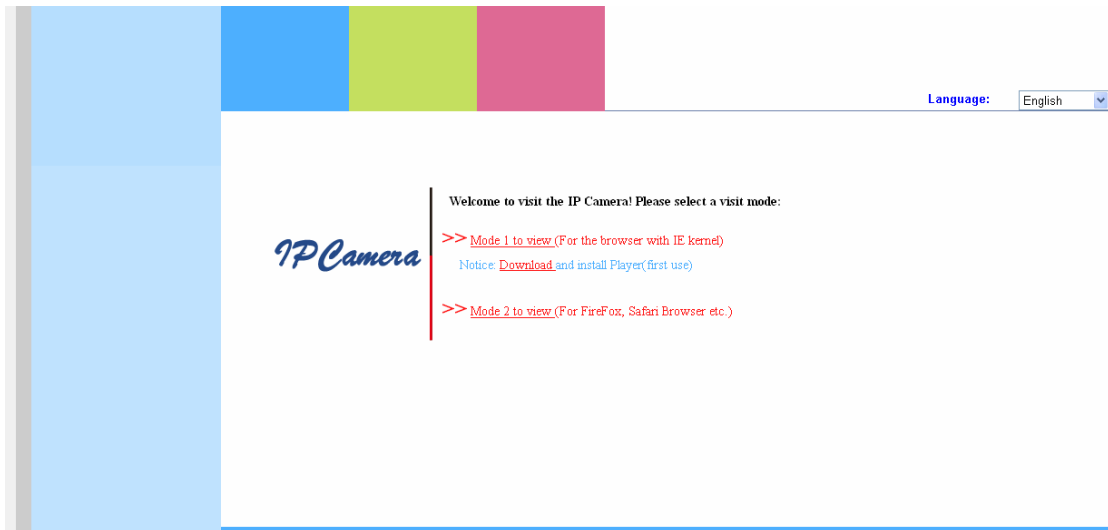


Figure 5

5.2 Visit IP Camera

We suggest using IE kernel browser to view the video (it can provide more functions), but user need to install Player before viewing the video. Click “download and install player (first use)” link, it will popup dialogue box as Figure 6, click Run, it will automatically download player and install.



Figure 6

After install the plug-ins, click “Mode 1 to view” link in Figure 5 to view the video (video as Figure 7).

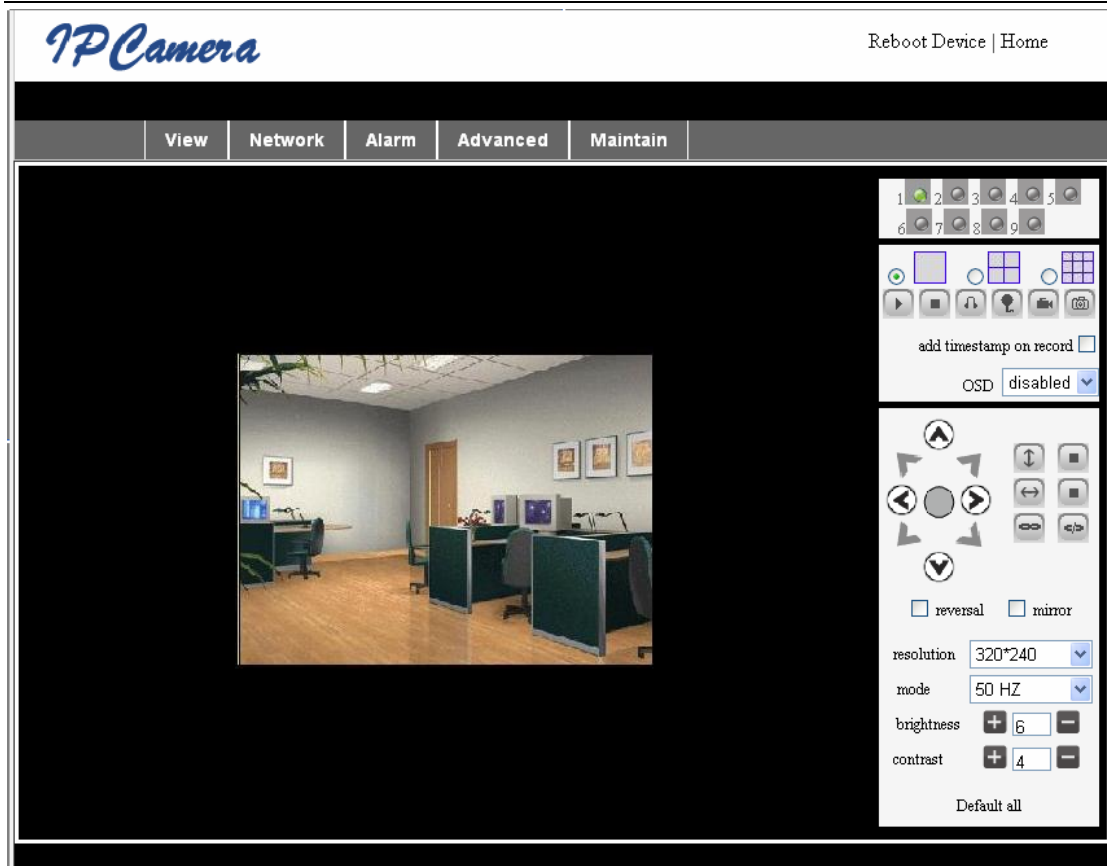


Figure 7

1) Menu column

There are 2 kinds of menu, one is main menu, and the other is submenu. The main menu lies at the top of the interface, including View, Network, Alarm, Maintain; Submenu lies on the left of the interface, and different main menu is in line with different submenu.

2) Video Displaying Area

Video display area is according with resolution, the higher resolution, and the larger display. Double click left mouse in the video display area, it will show full screen, and double click again, it will go back to original size. Double click right mouse in the video display area, it will show green icon, click the left mouse, Pan/tilt will remote according to arrow signs.

3) Status Displaying Area

Right up corner is the status displaying area, to show the 9 device's status:

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

4) Multi Channel displaying area

If user add multi channel (refer to 7.3.2) , when shift to 4-Ch, 9-CH, and will automatically to show other device. On the showing area, if choose the image, you can do play, stop, record, control Pan/tilt and other operation.



These buttons mean start video, stop, monitor, talk, record and snapshot. Click button to choose the functions.

5) PTZ and video control

If device has the Pan/Tilt, in Pan/Tilt control area, user can control the position according to the arrow sign: up, down, left, right, middle, horizontal cruise, vertical cruise, and stop etc.



Means open IO output and Close IO output.

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

6 Visit IP Camera from WAN

6.1 Port forwarding

Follow the “Visit IP Camera from LAN” steps; make sure PC-1 can visit IP Camera-1. In Figure 3, before the computers in WAN (PC-2, PC-3) can visit the IP Camera-1, must put the IP Camera -1 into WAN. You can set port forwarding on Router-1 to put IP Camera-1 into WAN.

Open the Router Setting interface on PC-1. The interfaces for different routers are different, and the port forwarding settings are different, please refer the router manual to set. For most routers, “Virtual server” option can be found in setting interface. Fill the IP address and port of IP Camera-1 into corresponding blank. Figure 8 is an example.

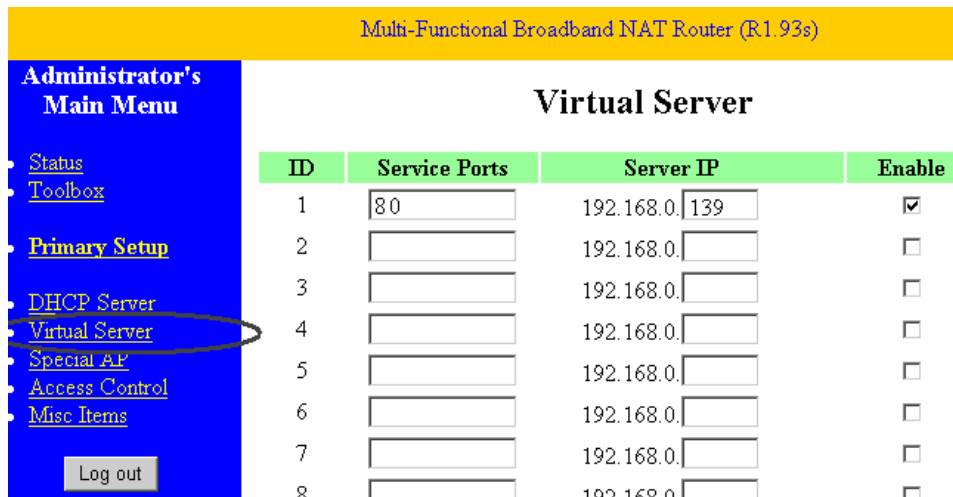


Figure 8

Select “status” option and remember the WAN IP address, enter the IP address in browser of PC-1, if IP Camera-1 can be visited via PC-1, the port forwarding is success. And PC-2 and PC-3 can also visit the IP Camera-1.



WAN IP address is allotted by ISP, please make sure it's an available WAN IP address. As WAN IP address is lack, many WAN IP address are available in limited area. If PC-2 and PC-3 are not in this area, the IP Camera-1 won't be

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	visited by them.
	If user wants to put several IP Cameras into WAN, every device should set the port forwarding. In order to distinguish these devices, every device should set a different port. If the port of the device is not 80, should add the port to IP address with colon to visit the IP Camera. Example: http://202.96.82.177:81 .

6.2 DDNS

In Figure 3, Router-1 get WAN IP address via ADSL, these WAN IP address is always changing, so, the IP address can't be confirmed when visit the device in WAN. We need the dynamic domain name server (DDNS). IP Camera-1 send IP configuration to DDNS every few time, DDNS can recognize the WAN IP address of the router-1 which connected with IP Camera-1. The WAN IP address can be searched on DDNS by domain name. Herein, domain name substitute the dynamic IP address. If the device can't be visited by IP address, this domain name is also unavailable.

6.2.1 Manufacturer's DDNS

Device manufacturer has established a DDNS, and allotted a dynamic domain name to every device, the domain name has been integrated into devices when producing. For example, enter domain name of Figure 9, the browser will connect the device and display the IP address.

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

Figure 9

	The domain name is realized by forward manner, the domain name will change into the IP address and port number of the device when visit by domain name.
--	---

	If the device can be visited by IP address but can't be visited by manufacturer's domain name, please check the DNS info is available or not and make sure the DNS setting is the same with the DNS setting of PC in LAN.
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6.2.2 Third Party DDNS

User can also use third part DDNS, such as www.3322.org. User should apply a free domain name from this website and fill the info into the below blanks (Figure 10) and save the settings. Then the domain name can be used.

Third Party DDNS	
DDNS Service	3322.org
DDNS User	btest
DDNS Password	••••••••
DDNS Host	btest.3322.org

Figure 10

	<p>The third party domain name is realized by analysis manner, the domain name will be displayed in the browser all the time when visit camera. If the port is not 80, the port number should be adding to the domain name with colon. Example: http://robbicam2.3322.org:81</p>
--	---

7 Other Settings

7.1 Network Setting

7.1.1 Basic Network Setting

The user can also enter the Basic Network Settings to set the IP address except using the search software. See below Figure 11.

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 11

7.1.2 WIFI Setting

If the device is with WIFI, enter the Wireless LAN Setting, just as below Figure 12 shown, click the “Search” button several times, it will show you the wireless network detected in the Wireless Network List column. Select one of them and tick “Using Wireless Lan”, then the relevant data of the selected wireless network will be shown in the following blanks. Put in the password and click “Set”, then the WIFI setting is finished.

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

Figure 12

Note: When the device is connected both WIFI and wired, after it starts up, it will firstly connect to the wired network, if it can't connect to it, then it will change to connect the wifi. The IP address and port is the same, either wireless or wired network.

7.1.3 ADSL Setting

User could enable the ADSL Dialup according to the below Figure 13 (The Telecom Operators will assign the user name and password to you when you apply for ADSL service.) Connect the device directly to the ADSL modem and it is connected to the Internet, but don't need to do the port forwarding.

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

Figure 13

7.1.4 UPnP Setting

UPnP stands for universal plug and play, if you start UPnP, once the IP camera is connected into the LAN, it will communicate with the router in the LAN automatically. It will request the router to open a port to forward its own port. It is no need for the users to log in the router to set the port forwarding. Below Figure 14, tick "Using UpnP to Map Port" and the setting are completed. You could check the UpnP succeeds or not in the interface of System Maintenance.

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

Figure 14

Before using UPnP function, please make sure the router's UPnP function has been triggered. Because there are so many different routers, and not all of them can support UPnP. Please test if the router work well with the equipment, if not, we would suggest you don't enable this function.

7.1.5 DDNS Setting

Please refer to the content in 6.2.

7.2 Alarm Settings

7.2.1 Alarm Setting

1) Alarm Detect

User can select the motion detect to enable monitor a certain area, if anything happens in that area, it will trigger the alarm. In the motion detect sensibility, the smaller the figure, the more sensitive it is.

2) Alarm Action

After every trigger of alarm during the scheduled time, the device can trigger alarm in several ways.

- Send alarm info by email.
- Send the site pictures to the FTP server, user can also set the break time between two pictures.
- Send alarm info to the alarm server.

3) Scheduler

Device will trigger alarm in scheduled time. User can set schedule time to be “all the time”. Please set the system time, time zone, and select the scheduled time. Please refer to the Figure 15.

Alarm Settings

Alarm Detect

Motion Detect Armed	<input checked="" type="checkbox"/> Motion Detect Sensibility <input style="width: 50px;" type="text" value="5"/>
Alarm Input Armed	<input type="checkbox"/>

Alarm Action

IO Linkage on Alarm	<input checked="" type="checkbox"/>
Send Mail on Alarm	<input type="checkbox"/>
Upload Image to FTP	<input checked="" type="checkbox"/> Upload Interval (Seconds) <input style="width: 50px;" type="text" value="5"/>
Enable Alarm Server	<input type="checkbox"/>

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 15

7.2.2 Mail Service Setting

The device will send alarm email to the email address was filled in. Please do the mail settings properly first, Figure 16 is a mail setting page for your reference. After the setting, please click save and test to check if it works properly.

If have already set the mail server properly, user can tick to enable “Report Internet IP by mail”. After every restart, the device will send its Internet IP address to user’s email address. If this device has been port mapping to the Internet, then users can view the device’s video through the Internet IP address.

eMail Settings	
Sender	<input type="text" value="sender@sohu.com"/>
Receiver 1	<input type="text" value="receive@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"/>
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 16

	<p>Please make sure your email server open POP3 functions, or the mail can't be sent.</p>
--	---

7.2.3 FTP Service Setting

Ftp Settings	
FTP Server	192.168.0.56
FTP Port	21
FTP User	test
FTP Password	••••
FTP Upload Folder	/
FTP Mode	PORT
<input type="button" value="Test"/> Please set at first, and then test.	
Upload Image Periodically	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	60

Figure 17

When alarming, device will snap and send the image to FTP server, please make sure the FTP setting is correct. Above Figure 17 of FTP setting for your reference, click setting to store the setting info and click test to check the setting.

After correct setting FTP server, you can use “upload Image Periodically” function. Even no alarm, device can also send the snap image to FTP periodically.

	<p>In order to use FTP function, user should apply username and password on the FTP server first. And please apply some storage, and the authority to write and create sub-category into it.</p>
--	--

7.2.4 Alarm Server

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

Figure 18

Please confirm if you have connected to alarm server. The alarm message format as follow:

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

Alarm server need develop by customer , user can extend other functions on this server , like SMS , MMS alarm , and mobile phone etc .

7.3 Advanced

7.3.1 User Setting

There are three levels of authority; they are Administrator/Operator/Visitor. Administrator have the highest authority, it can do any change to the settings. Operator account only can operate the IP camera, can't do changes to the settings, and please refers to Figure 20. Visitor account only can watch the video, can't do any operation to the IP camera, and please refers to Figure 21. **By default, the administrator's user name is admin, password: 123456.**

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

Figure 19

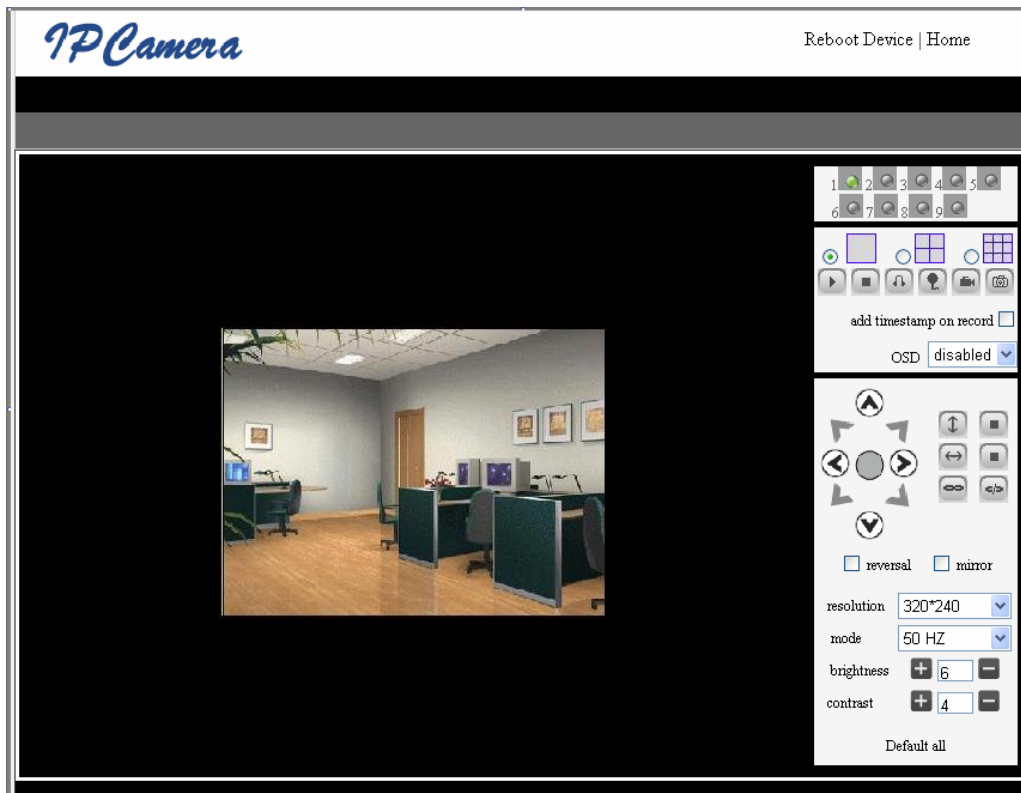


Figure 20

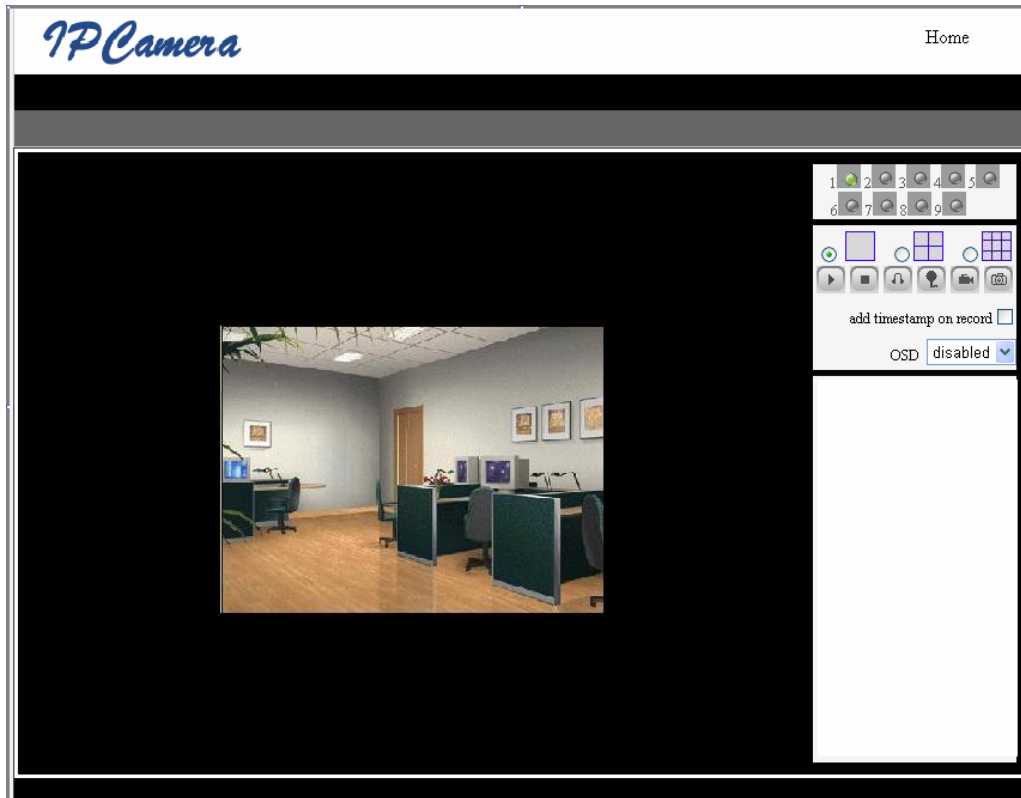


Figure 21

7.3.2 Multi Device Setting

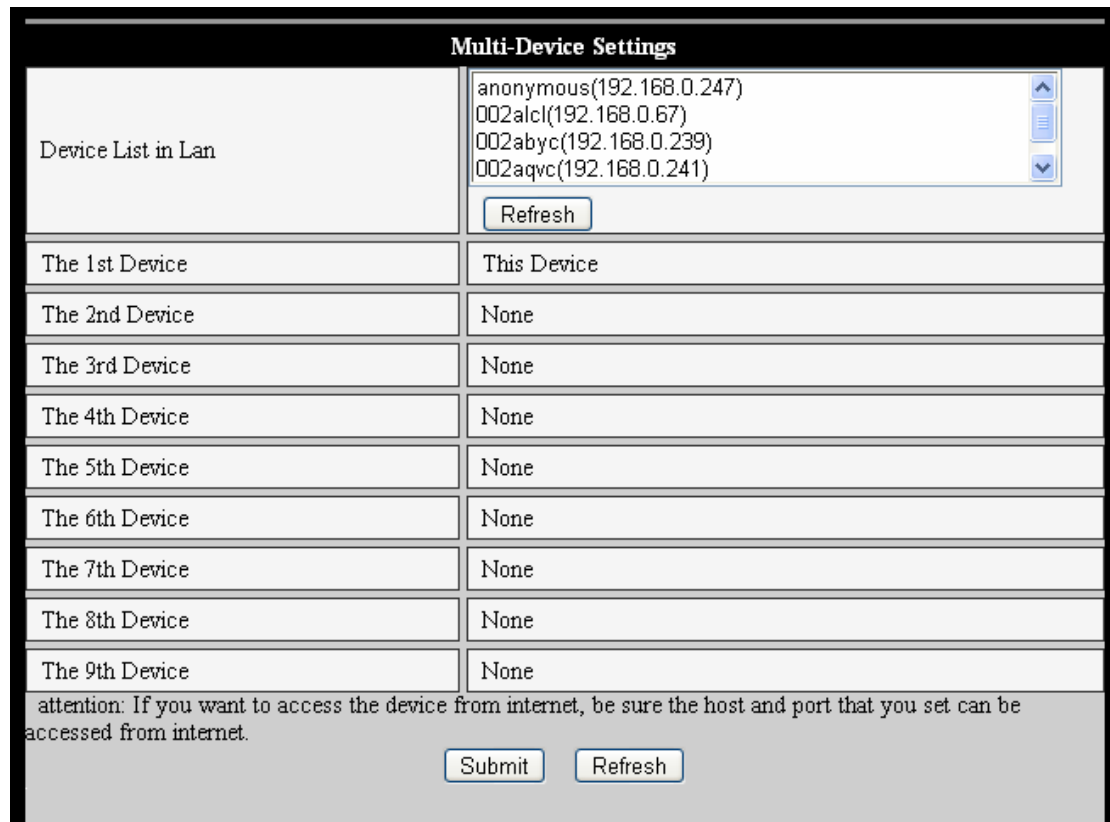


Figure 22

<http://www.wansview.com>

As Figure 22, User can maximum add 9 devices to view the device simultaneously. Click refresh button to check the device in the LAN. When click the device, will popup setting dialogue box and input the device info, as figure 23 and click save. After that, must click submit button 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 24

7.4 Maintain

7.4.1 Device Information

Device Info	
Device ID	002abyc
Device Firmware Version	21.22.2.19
Device Embeded Web UI Version	0.0.4.10
MAC	00:A8:F0:00:1A:C6
Alarm Status	None
Third Party DDNS Status	No Action
UPnP Status	No Action

Figure 24

7.4.2 Time Setting

If the device is connected to the Internet, you enable the NTP server to correct the time and select the right time zone. Or you should use the PC's time to correct its time.

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

Figure 25

7.4.3 Firmware upgrade

The device runs 2 kinds of programmer, one is system firmware, the other is application firmware. They could be upgraded separately.

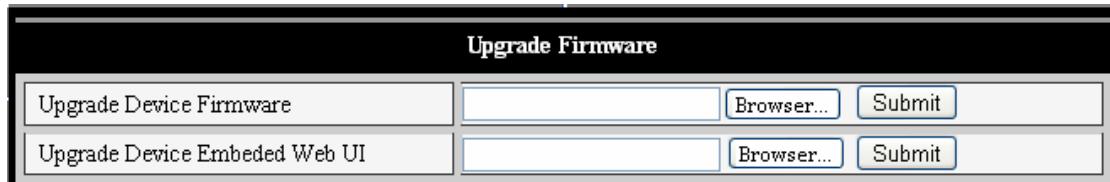


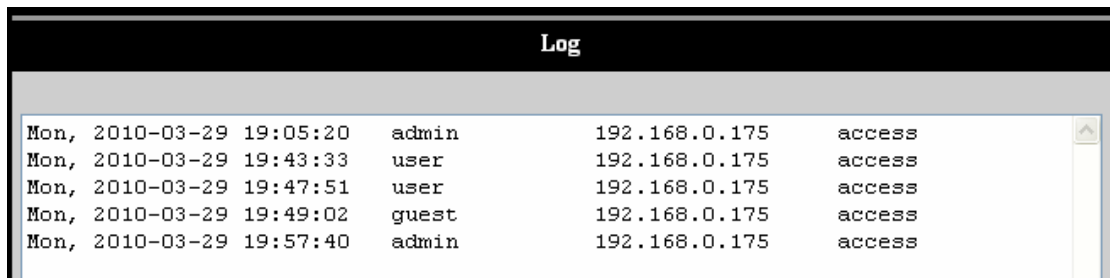
Figure 26

7.4.4 Restore Factory Default

Click "Restore Factory Default", it will pop up a dialogue to confirm if you really want to restore the factory default. After confirmation, the system will restore the factory default and reboot.

7.4.5 User browsing Log

After enter the log interface, you could view who 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 27

8 Centralization Control



Figure 28

IPCMonitor is a free software offered by factory, several devices on LAN and WAN can be browsed at the same time. The software also supports snap, video record, alarm and so on. The below Figure 28 is the interface.

For more information, pls. refer to the <<IPCMonitor User Manual>> in CD.

9 Technical Parameters

Item	Sub Item	Description
Image Capture	Sensor	CMOS sensor
	Total of pixel	300k
	Minimum illumination	IR on, 0 Lux
	Lens	f=6.0mm, F=2.0, Fixed Iris
Assistant	Lighting Control	24pcs 850nm Infrared LEDs, 25m distance
	Lighting	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 /Up-side down
	OSD	support
	Audio Compression	ADPCM

Network	Basic Protocol	TCP/IP、UDP/IP、HTTP、SMTP、FTP、DHCP、DDNS、UPNP、NTP、PPPOE
	Other Protocol	802.11b/g
Other Features	Video control	support
	Motion Detection	support
	Triggered Actions	Email/FTP/external alarm/send message to alarm server
	User Setting	Three levels
	Date/ Time Setting	support
	Upgrade	Upgrade from network
	DDNS	A free DDNS provided by manufacturer
Physical Index	Weight	610g
	Main body	185mm(L)*75mm(W)*80mm(H)
	Power	DC 5V
	Power consumption	<6W
	Operating temperature	-20°C ~ 45°C
	Operating temperature	10% ~ 80% non-condensing
Software(PC Side)	OS Supported	Microsoft Windows 98/2000/XP/Vista
	Browser	Internet Explorer6.0 and Above or Compatible Browser, Firefox, Safari etc.
	Application Software	IPCMonitor.exe

10 FAQ

1) Unmatched power adapter will damage the equipment or power adapter

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

2) Slowly browse speed

This equipment adopts MJPEG compression format, it needs large network bandwidth, the narrow bandwidth will affect the browse speed . The typical bandwidth uses situation as below:

640x480@20fps : 4.0 Megabits ~ 5.0 Megabits

320x240@30fps : 1.2 Megabits ~ 1.6 Megabits

3) Can't find equipment via search software after connect to LAN

Make sure the equipment and PC is in the same LAN; if install firewall software, please close it and try again.

4) Can find equipment via search software, but can't visit

If the IP address of IP camera and PC is not in the same Network Segment, you should change them on the same Network Segment before visit. Network Segment is the first three number of IP address. If the IP address of PC is 192.168.0.100, so it can only visit the equipment which IP address is between 192.168.0.1~192.168.0.255.

5) Can't visit the equipment via Internet

Please refer to:

Chapter 4 (Figure 3) to check if the internet connection is correct;

Chapter 5 to check if you can visit via LAN;

Chapter 6 to check if the port forwarding is correct; and check the route setting if it forbid this equipment sending data to internet.

6) Can visit via public IP address, but can't visit via manufacturer's domain name

Make sure the DNS setting is same as your PC , as below Figure 29 , in the search tool , the DNS 1 and DNS 2 on both side should be same.



The screenshot shows a configuration window with two main sections: 'Local PC information' and 'Device information'.

Local PC information:

- 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)

Device information:

- Device name: 002alcn
- Sys. FirmwareVer: 21.23.2.5
- App. FirmwareVer: 0.0.2.3
- IP config.: Set IP automatically
- IP address(I): 192 . 168 . 0 . 78
- Subnet mask(U): 255 . 255 . 255 . 0
- Gateway(G): 192 . 168 . 0 . 1
- DNS1(D): 192 . 168 . 0 . 1

At the bottom, there is a 'Device list' section showing '1 pcs'.

Figure 29

7) About Cell phone View

User can use the cell phone which use browser (PUSH mode) to view the device, like Safari on IPHONE, visit format as below: <http://ip address: port/mobile.html>.

11 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.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.