B Series—Astro Boy Model

IP Camera

2010-3 V2.3

User Manual

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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.

The package includes:

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



If you need the device with wifi function, please choose the model of /W, it has built-in wifi module and transmitting antenna.

2 Function and Features

- ✓ The video is compressed by MJPEG. There are VGA/QVGA two video resolutions optional. User can change some parameters according to their demands to satisfy his own visual prefer.
- \checkmark With built-in Microphone, and also pr

mic I it enables user to monitor the sound on the site. User can also connect this equipment to the speaker, and it supports two-way intercom function.

- ✓ It was equipped with pan/tilt function, horizontally 350° and vertically 70°. Its outlook is smart, easy and convenient to install in many sites.
- It adopts the TCP/IP network protocols and has inner web server. browse video through IE and other browsers. Data is transferred through one port; it is easy for user to do the network setting.
- ✓ Support 802.11b/g protocol, can build up wireless monitoring.
- ✓ Supports UPNP, port forwarding automatically on the router.
- Motion detection and alarm pin can be connected to external sensors to de environmental situation.
- Alarming record can be stored by email, FTP server. External alarm can be open when detecting unusuality. It also server.
- ✓ Infrared LED for night vision covers 5m area, to realize 24 hours monitoring.
- ✓ Support three level of user authority.
- ✓ Support upgrading online.
- Manufacture attached a label at the bottom of each IP Camera, it include Device ID, DDNS. When IP Camera is connected to the internet, this URL can be used to visit the device.
- ✓ Manufacture provides free software, support Multi-view, Long time recording, video replay etc.

3 Appearance and interface

3.1 Appearance



Figure 1

Note 🛛

- > Power Indicator: it will turn RED if equipment was powered on.
- Status Indicator: Slow blincekper 2 secbilid indicates the device is searching for network; filiockneer or twice per sedon, dndicates the wired network connected; Frequent flickelr 2~3 times per second, indicates wireless network connected.

3.2 Interface of Equipment



Figure 2

1 D Power Input SCocochkneetct DC adaptor, its output should be 5

specification.

- 2 I **RESET Button**Press the RESET button and hold on more than 10 seconds, the equipment will restart and recover to the factory default settings.
- 3 I **WIFI Antenna Hole:** Install the WIFI antenna.
- 4 **R J 4 5 E thernet** R S **4 5 k** Eetthrernet socket is 10/100 M selfequipment 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.

- 5 [] Audio Input SAckied: input socket is designed for connecting microphone. The built-in microphone will be invalid microphone plugged in.
- 6 [] Audio Output Socketio output socket is for line-out audio player, such as headphone, speaker, etc.
- 7 D Alarm Output Socket





The alarm output socket is connected with a relay in the IP camera. IP camera will control the switch to trigger the alarm bell or buzzer to alarm. The relay is able to control the switch of a alarm whose voltage is no more than 36V, and current is lower than 2A. Please refer to the Figure 3 for the connection of an external alarm.

8 **Alarming Input PRie**ase refer to the schematic Diagram of Figure 4 for how external detector collects alarm information.



Figure 4

The detector should be switched type (always on or always off). If the detector has detected the smoke or people or animal to enter the area, the detector will switch on or switch off. And it will send the external alarm signal into the IP camera.



4 Network Connecting



4.1 Connection Instruction

Before visit the IP Camera, you should firstly connect it to the Network, supp power to it, and check if the light of RJ45 Socket is normal to make sure all of communication links are fluent. The connection method is like as Figure 5.

- 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.

 The PC and IP Camera are in the same LANy ou 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 5 is 192.168.1.139 (at the segme 192.168.1), while the PC-1's IP address is 192.168.0.175 (at the 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 5, 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 5, the IP Camera-1 can't be visited. Run the BSearch_en.exe in the CD, click Se button, and then select the IP Camera-1 to reset the IP address, as the Figure 6.

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 ne setting by yourself, you can set it as 139 just like Figure 6.
- 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 op 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 7.

🖳 BSeries Intranet search and set	tings (¥1. 0. 0. 17)
Local PC information:	Device information:
Network adapter: Realtek RTL8139/810x Far 💙	Device name: 002alcn
IP address: 192,168,0,175	Sys. FirmwareVer: 21.23.2.5
Subnet mask: 255.255.255.0	App, FirmwareVer: 0.0.2.3
Gateway: 192.168.0.1	IP config.: Set IP automatically
DNS1: 192.168.0.1	IP address()): 192 . 168 . 0 . 139
DNS2:	Subnet mask(<u>U</u>): 255 . 255 . 255 . 0
	Gateway(<u>G</u>): 192 . 168 . 0 . 1
Device list: 1 pcs	DNS1(D): 192 . 168 . 0 . 1
No. DeviceName DevID 1 002alcn 00A8F0002295	Http port(P):
	Authentication:
	Account for watching: admin
	Password for watching: ******
	Update(F5)
	V Tips:
	1> This tool is only used within LAN,
	pc and device is within the same subnet. 2> Only the legit user can update device informations.
Search(F3) Browse(F4)	Close





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.

		中 文 English
1P Camera	Welcome to visit the IP Camera! Please select a visit mode: >> <u>Mode 1 to view</u> (For the browser with IE kernel) Notice: <u>Download</u> and install Player(first use) >> <u>Mode 2 to view</u> (For FireFox, Safari Browser etc.)	

Figure 7

5.2 Visit IP Camera

We suggest using IE kernel browser It ditvcew phrevvideeon ore functions I, 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 8, click Run, it will automatically download player and install.

File Download - Security Warning	
Do you want to run or save this file?	
Name: DVM_IPCam2.exe Type: Application, 149 KB From: 192.168.0.139 Run Save Canc	el
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, run or save this software. <u>What's the risk?</u>	do not

Figure 8

After install the plug-ins, click "Mode 1 to view" link in Figure 7 to view the video (video as Figure 9).





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, Networ Submenu lies on the left of the interface, and different main menu is in line with different submenu.

2 D Video Displaying Area

Video display area is according with resolution, the higher resolution, and the 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 🛛 Alarm indicator area

4

Up-right side is alarm indicator area, if device alarm, the green light will be in Red, and alarming.

4 Speaking and Video Control Area

📔 💼 🔟 Icons are as follow: Audio, Talk, Record, and Snapshot

Click icons for related functions.

5 • PTZ and video control

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.

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 5, 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 p Camera-1 into WAN.

Open the Router Setting interface on PC-1. The interfaces for different rou 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 10 is an example.

Multi-Functional Broadband NAT Router (R1.93s)				
Administrator's Main Menu			Virtual Server	
<u>Status</u>	ID	Service Ports	Server IP	Enable
<u>Toolbox</u>	1	80	192.168.0. 139	
 <u>Primary Setup</u> 	2		192.168.0.	
DHCP Server	3		192.168.0.	
Virtual Server	> 4		192.168.0.	
<u>Special AP</u> Access Control	5		192.168.0.	
Misc Items	6		192.168.0.	
Log out	7		192.168.0.	
Lug dut	2		100 160 0	
		Figure 10		

Select "status" option and remember the WAN IP address, enter the IP addr browser of PC-1, if IP Camra-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.





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: <u>http://202.96.82.177:81</u>.

6.2 DDNS

In Figure 5, 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 rout connected with IP Camera-1. The WAN IP address can be searched on D 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 11, the browser will connect the device display the IP address.

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

Figure 11



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.

6.2.2 Third Party DDNS

User can also use third part DDNS, sughwas <u>3322.ord</u>User should apply a free domain name from this website and fill the info into the below blanks (Figure 12) 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





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: <u>http://robbicam2.3322.org:81</u>

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 13.

	Network Settings
Obtain IP automatically	
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



7.1.2 WIFI Setting

If the device is with WIFI, enter the Wireless LAN Setting, just as below Figshown, 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 the 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 WIF finished.

Wireless Settings		
Wireless Network List	ChinaNet-TbkR[00255e1e5d08] infra WPA/WPA2-PSK wifi[001e58f37857] infra WPA/WPA2-PSK netview[002586697046] infra WPA/WPA2-PSK Scan	
Using Wireless Lan		
SSID	wifi	
Encryption	WPA2 Personal (AES) 💌	
Share Key	8939038200	

Figure 14

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 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	
ADSL User	szlgview@163.gd
ADSL Password	•••••

Figure 15

7.1.4 UPnP Setting

UPNP stands for universal plug and play, if you start UPNP, once the IP camera 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 16, 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		

Figure 16

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

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 smalle figure, the more sensitive it is.

As showed in picture 4, if external alarm detector was connected to the device, user will be able to tick the scheduler for alarm. If the external alarm detector is an always on switch alarm. Please choose "open". If the external alarm detector is always off switch alarm, please choose "close".

2 D Alarm Action

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

- IO interface for alarm signal output: when relay was switched on (please refer to Picture 3), the external alarm will begin to alarm.
- 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 D 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 Picture 17.

Alarm Settings						
Alarm Detect						
Motion Detect Armed	Motion Detect Sensibility 5 🗸					
Alarm Input Armed						
Alarm Action						
IO Linkage on Alarm						
Send Mail on Alarm						
Upload Image to FTP	Upload Interval (Seconds) 5					
Enable Alarm Server						
Scheduler						
O All time Schedule(NOTICE:set the correct 'Device Clock')Device Clock						
Day 0 1 2 3 4 Sun 1 1 2 3 4 Mon 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23					

Figure 17

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 fist, Picture 18 is a mail setting page for your reference. Af 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

eMail Settings			
Sender	sender@sohu.com		
Receiver 1	receive@sohu.com		
Receiver 2			
Receiver 3			
Receiver 4			
SMTP Server	smtp. sohu. com		
SMTP Port	25		
Need Authentication			
SMTP User	sender		
SMTP Password	•••••		
Test Please set at first, and then test.			
Report Internet IP by Mail			

device's video through the Internet IP address.

Figure 18



Please make sure your email server open POP3 functions, or the mail can't be sent.

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 V	
Test Please set at first, and then test.		
Upload Image Periodically		
Upload Interval (Seconds)	60	

Figure 19

When alarming, device will snap and send the image to FTP server, please make sure the FTP setting is correct. Above Figure 19 of FTP setting for your reference, 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.



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.

7.2.4 Alarm Server

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

Figure 20

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 Maintain

7.3.1 Device Information

Device Info		
Device ID	002alcn	
Device Firmware Version	21.23.2.5	
Device Embeded Web UI Version	0.0.2.3	
MAC	00:A8:F0:00:22:95	
Alarm Status	None	
Third Party DDNS Status	No Action	
UPnP Status	No Action	

Figure 21

7.3.2 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 23. Visitor account only can watch the video, can't do any operation to the IP camera, and please refers to Figure 24*By default, the administrator's user name is admin, password:* 123456.

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





Figure 23



Figure 24

7.3.3 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 💌		
Sync with NTP Server			
Ntp Server	time.nist.gov		
Sync with PC Time			

Figure 25

7.3.4 Other settings

You can choose open or close indicator LED. If set PTZ center on start 'Yes', when start device, Pan/Tilt will move to center and then stop. You can also set the Horizon patrol rounds and vertical patrol rounds, when you click patrol on the 'view' interface, it round according to your setting rounds.

Other Settings			
Status LED Mode	Open Indicator LED 💌		
PTZ settings			
PTZ Center on Start	No 🗸		
Horizon Patrol Rounds	1 (NOTE: 0 means infinity)		
Vertical Patrol Rounds	1 (NOTE: 0 means infinity)		

Figure 26

7.3.5 Firmware upgrade

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

	Upgrade Firmware
Upgrade Device Firmware	Browser Submit
Upgrade Device Embeded Web UI	Browser Submit

Figure 27

7.3.6 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.

7.3.7 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 28

8 Centralization Control

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 29 is the interface.



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

Figure 29

9 Technical Parameters

ltem	Sub Item	Description
Image Sensor		1/4" CMOS sensor
Capture	Total of pixel	300k
	Minimum illumination	IR on 0 Lux
	Lens	f=4.5mm, F=2.0, Fixed Iris
Pan/Tilt	Pan Coverage	350°
	Tilt Coverage	70°
Assistant	Lighting Control	8pcs 850nm Infrared LEDs, 5m distance
	Lighting	Auto control
Video and	Resolution	640*480(VGA)/320*240(QVGA)
Audio	Compression	MJPEG
	Frame rate	30fps
	Bit rate	128kbps ~ 5Mbps
	Image Rotation	Mirror /Up-side down
	OSD	support
	Audio Compression	ADPCM
Network	Basic Protocol	TCP/IPIUDP/IPIHTTPISMTPIFTPIDHCPIDDNS I UPNPI NTPI PPPOE
	Other Protocol	802.11b/g
Other	Video control	support

Features	Dual way audio	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
Hardware	Ethernet	10Base-T/100base-TX
Interface	Alarm In	1 way
	Alarm Out	1 way
	Audio In	Internal Mic and External Mic interface
	Audio Out	Audio Line-out interface x 1
Physical Index	Weight	343g
	Main body	111mm(L)*107mm(W)*148mm(H)
	Power	DC 5V
	Power consumption	<6W
	Operating	0□~ 45□
	temperature	
	Operating	10% ~ 80% non-condensing
	temperature	
Software(PC Side)	OS Supported	Microsoft Windows 98/2000/XP/Vista
	Browser	Internet Explorer6.0 and Above or Compatible
		Browser, Firefox etc.
	Application	IPCMonitor
	Software	

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

640x480@10fps : 4.0 Megabits I 5.0 Megabits 320x240@30fps : 1.2 Megabits I 1.6 Megabits

3) Color difference

The default is infrared lens, when visit outdoor or strong infrared light scenes, there are color differences, the color is not accordance to the real scenes. User can change it to color lens to solve this problem, but color lens can only use under the daylight situation.

4) 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.

5) 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.

6) 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 i forbid this equipment sending data to internet.

7) 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 30 , in the search tool , the DNS 1 and DNS 2 on both side should be same.

	CLocal PC information:		Device information: —	
	Network adapter:	Realtek RTL8139/810x Far 💙	Device name:	002alcn
	IP address:	192.168.0.175	Sys. FirmwareVer:	21.23.2.5
	Subnet mask:	255.255.255.0	App. FirmwareVer:	0.0.2.3
	Gatevvay:	192.168.0.1	-IP config.:	Set IP automatically
	DNO	402.402.0.4	IP address(j):	192 . 168 . 0 . 78
	DINST:	192.166.0.1	Subnet mask(<u>U</u>):	255 . 255 . 255 . 0
	DINSZ:		Gateway(<u>G</u>):	192 . 168 . 0 . 1
Device list: 1 pcs			DNO((D))	402 469 0 4
			DNS1(<u>D</u>):	192 . 168 . U . 1

Figure 30