
IP Wireless / Wired Camera H.264IP Camera User Manual

(For Windows OS)



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1 Products overview


IP Camera is a IP integrated camera solution. For the user based on the local network (LAN) and wide area network (WAN) remote video surveillance products provides a clear, high integration, low cost solution. Integrated network and web service function, the shooting of the video can be transmitted through the network to any place, you simply through web browser can readily access live video. It can be applied in large stores, schools, factories, families and a series of places. Easy to install, easy to operate.

1.1 Product package list

Reminder: a complete set of network monitoring equipment comprises the following parts, this product has good with the following parts.



Remark: if you choose Wifi fuction device, The package should be contained Wi-Fi Antenna



Before you install the IP camera, please check the whether it contains all of the accessories. If it lacks of something, please contact with agents

1.2 Product Features

- Powerful high-speed video protocol processor
- High-sensitivity 1/4" CMOS sensor, support 720P (1280*720) video coding various video parameter adjustment, meet all kinds of user browsing demand. Industrial quality CMOS camera, achieves a good low illumination effect.
- It uses advanced H264 video Compression, supports H264MainProfile@Level3.0coding,H.264 Baseline Profile@Level3.0coding and MJPEG/JPEG Baseline coding, and it can easily transmit HD image with low bandwidth and save storage space.
- It supports complete SIP function, Inner microphone can achieve audio collection and two ways audio function; And have clear voice, small delay and no dropping frames of the audio.
- IR night vision to support long distance night vision scope and achieve monitor for the whole days;
- Embedded Linux operating system, inner WEB SERVER supports direct Web browser access, and the system is stable, powerful, safe and reliable.
- Multi-level users management and passwords definition
- Support wifi network (Wi-Fi/802.11/b/g), Inner Wifi module can flexibly create wifi monitoring environment.;
- Support motion detection which can achieve spot all-round monitoring. It can e-mail, FTP and send alarm message though alarm server etc. So achieve many kinds of alarm function.;
- Pan/Tilt Pan 330° 、Tilt 90° It is tiny and convenient to install, which is suitable for all kinds of places;
- Support UPNP. It can support to achieve auto port map in the router;
- With SD card slot, makes it convenient for users to store image;
- Support remote upgrade; Support mobile phone viewing
- Factory set every device unique device serial number, unique factory DDNS, and burn it to device and when it connects with public internet, then it can visit though DDNS.
- Factory can provide free client software and multi-pictures, long time recording and video playback etc.

2 Device appearance and interface

2.1 Device appearance



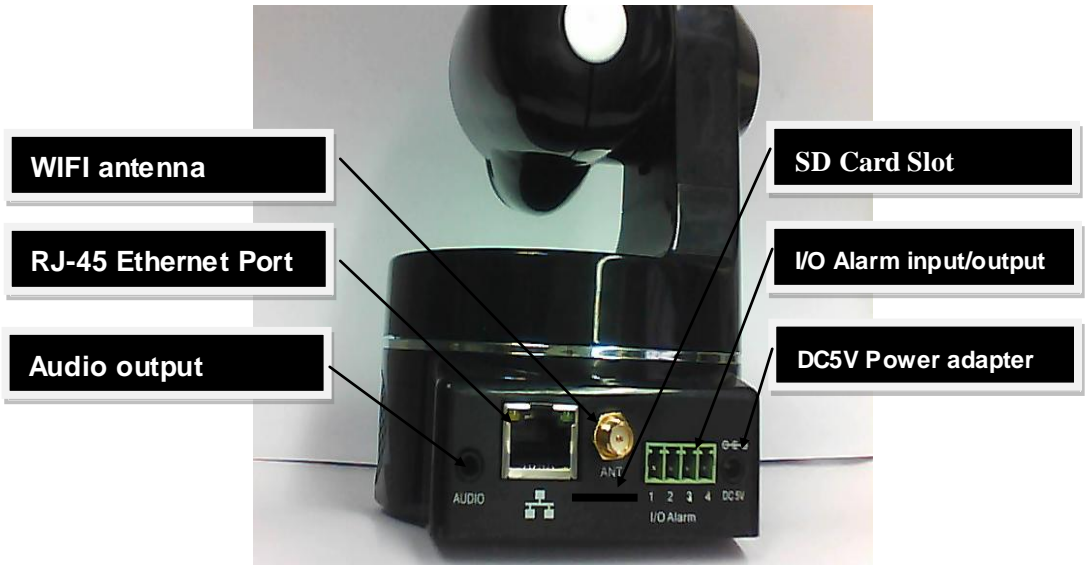
Picture 1 Device appearance

1. Sensitive Hole: According to outside of light decide whether open infrared LED
2. Infrared LED
3. Lens :CMOS Sensor .You can turn around the lens manually to adjust the focus range
4. Build-in Microphone

Warning: please don't forcibly manual translation/lifting cameras, because it is likely that damaged internal component!:

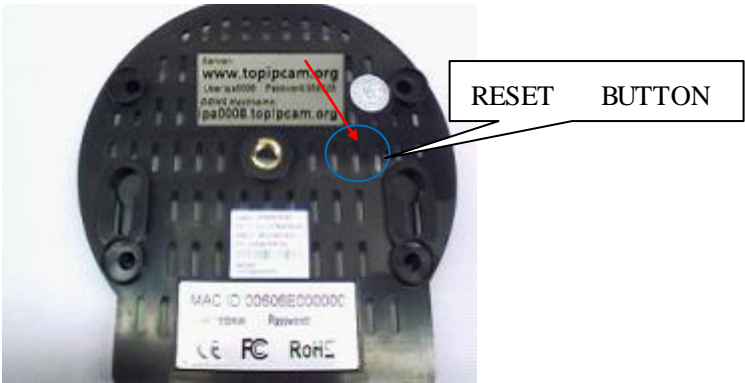
Build-in Microphone

2.2 Device interface



Picture 2 Device interface

- LAN :** RJ-45/10-100 Base T
- DC5V :** 5 V/2A Power supply
- I/O PINS:** 1)Output(GND) 2)Output (+5V) 3)Alarm input 4)Input (GND)



Picture 3 Reset Button

RESET BUTTON: Press and hold down the RESET BUTTON for 5 seconds. IP camera will be reset back to the factory default parameter

3 Device installation

- ◆ **System configuration requirements:**
- ◆ **CPU:**P4 2.0GHZ or above **Memory:** 512M or above
- ◆ **Network Card:** 10M or above **Display Card:** Microsoft DirectX 9 Picture device or above memory
- ◆ **Recommendable Operating System:** Windows XP. Vista. Windows 7

upport web browser: IE  . Firefox  、 Safari  、 Chrome  etc .

3.1 Hardware installation

You should install your IP Camera's hardware according to the following step in order to make sure the IP camera can work properly. Especially, pay attention to IP camera's installation environment.

- 1) IPCAM. Plug DC adapter with IP camera

I.Note: Please use Dc adapter which is the standard configuration of IP camera. Using DC adapter without any certificate, may destroy IP camera.

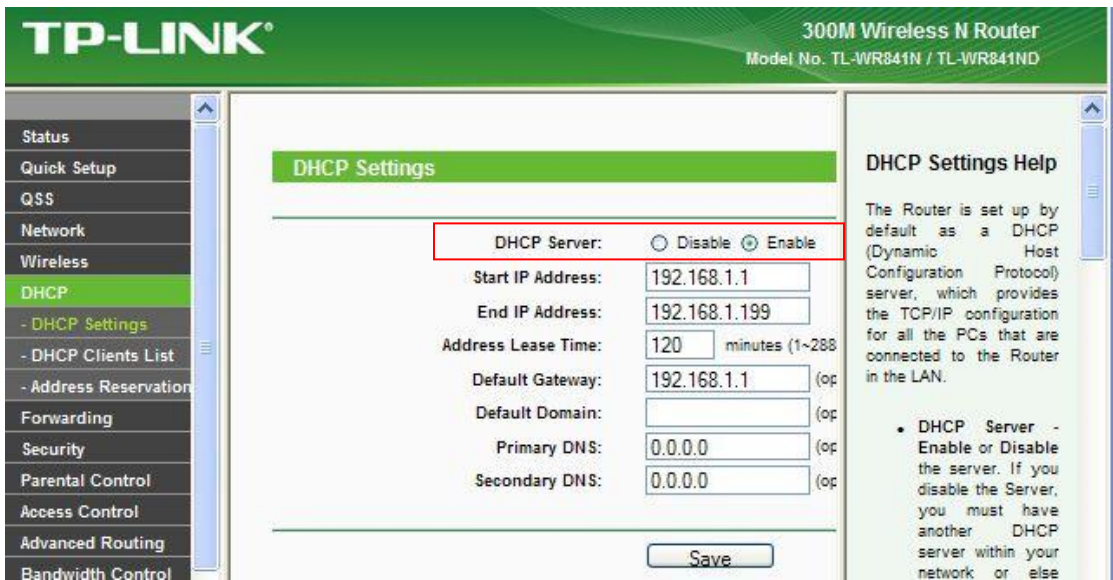
- 2) Plug cable with IP camera, and another side of cable should connect with DSL or router. In additional, make sure power of IP camera work properly and IP camera and PC are in the same Subnet



Picture 4 Network connection sketch map

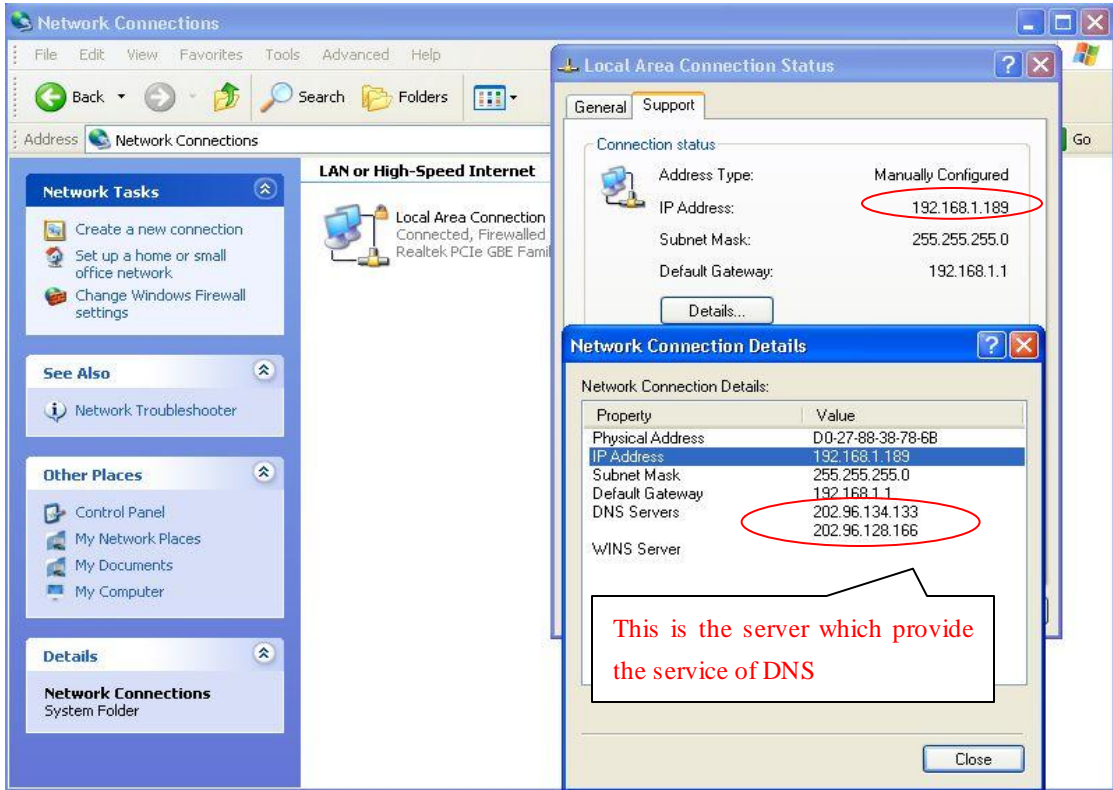
- 3) When you use IP camera for the first time, IP Address of IP camera obtain automatically. (Before using, please make sure " DHCP" Server function in LAN's router has been opened, or Server system open " DHCP" Server function) It is very

convenient for users to use because it is suitable for different LAN NETWORK environment.



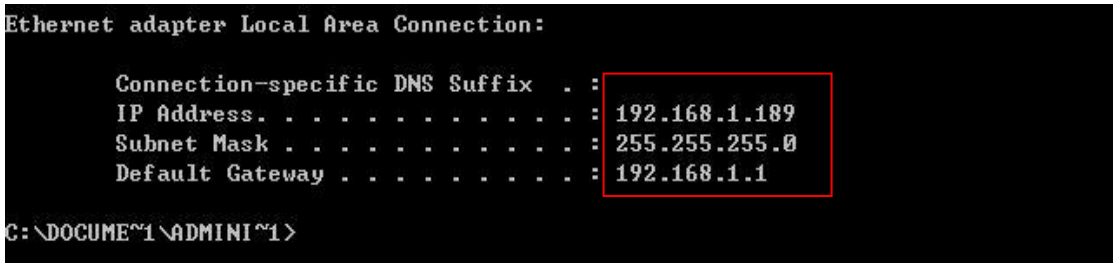
Picture 5

4) You can search PC IP and DNS Server as belows:

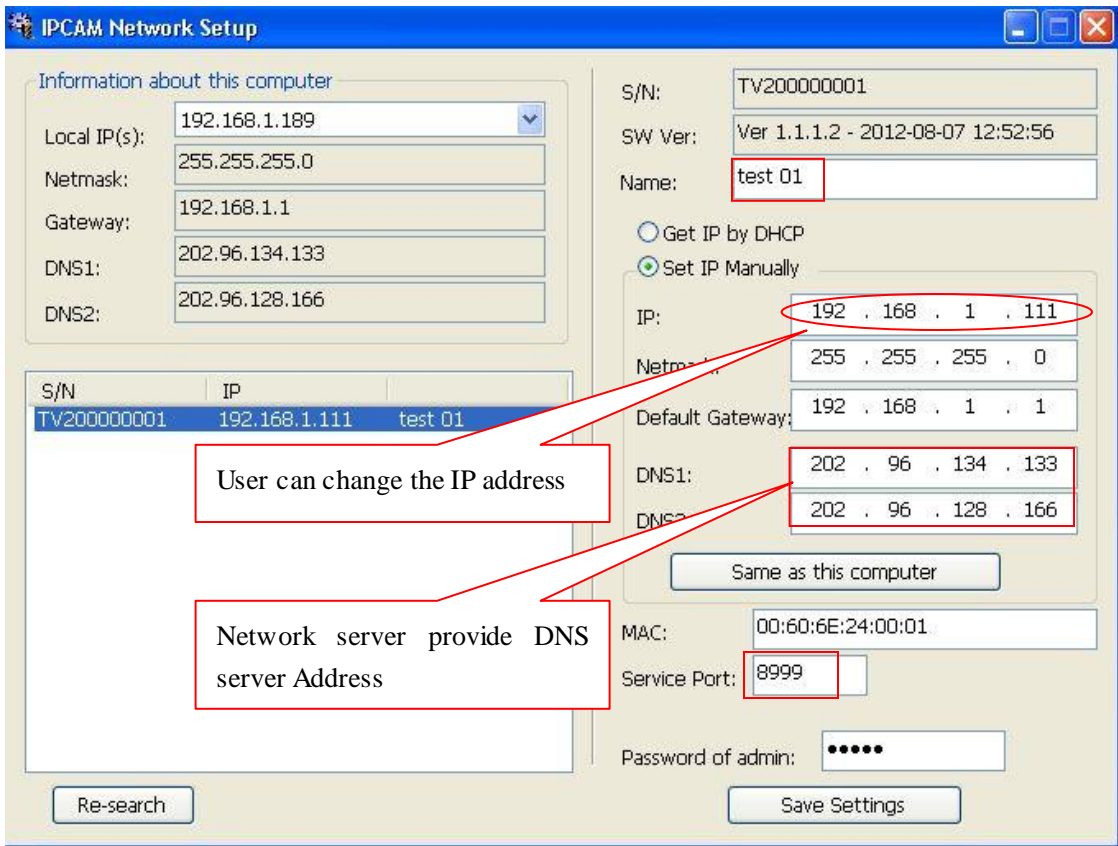


Picture 6

users can click the “start” menu, choose” run”, then try” command ”or” cmd”(for windows xp,2000),then confirm it. And type “ipconfig” and enger. Then user can check the news as below.

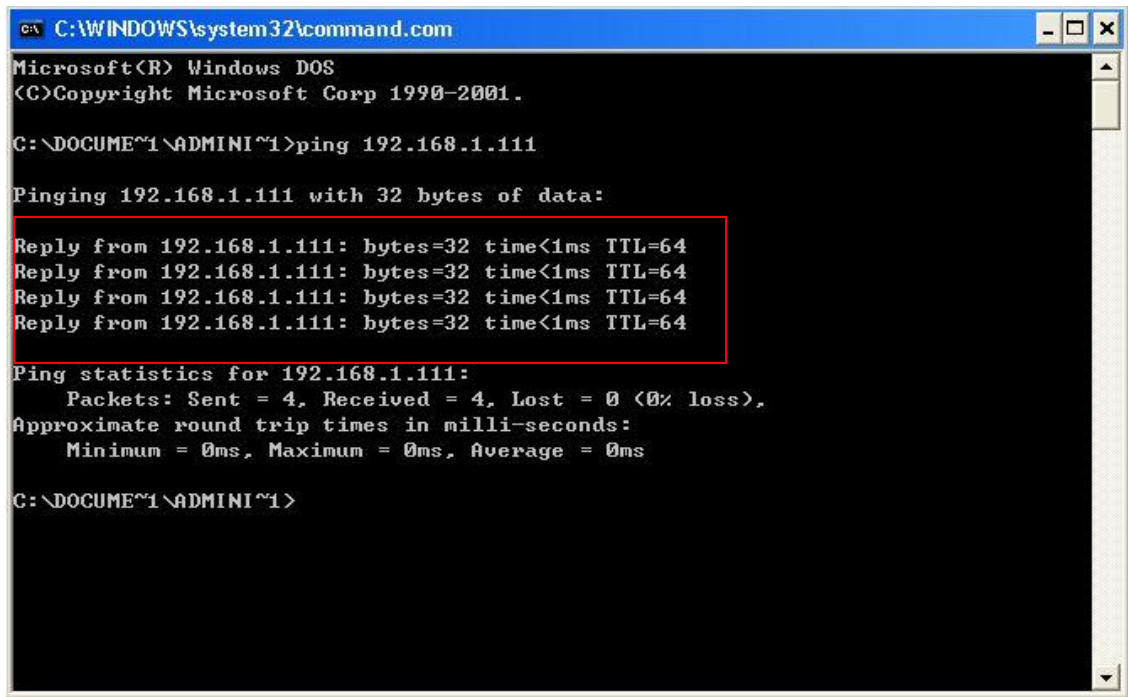


5) The ip address of the device can be changed, but the IP address should be at the same with PC's subnet. Pls check the ip address, subnet mask, default gateway



Picture 7

When we test IP camera and check whether it starts smoothly or it connects properly, we can operate in the Windows (START- RUN-CMD), and then input :**ping 192.168.1.111**



Picture 8 ping IP Camera

Check whether it can "Ping" IP camera, If yes, then it means IP Camera has been worked properly and connected correctly.

3.2 Software installation

Software installation


- It is very easy to install software. You just need to run installation programme then it can work properly.
- Please put CD in the PC driver and the CD will automatically run to the software installation interface:



Picture9 Software installation interface

If no such an interface, please click “autorun.exe” in the CD



- And then find “search.exe”  Click and install LAN Tool to PC system, then you can view “ IP Camera Tool” in Computer desktop for LAN Search tool. “IP Camera Tool”

4 Visit Ip Camera in LAN

4.1 Connect in LAN



Picture 10 Connection between Several IP camera and router

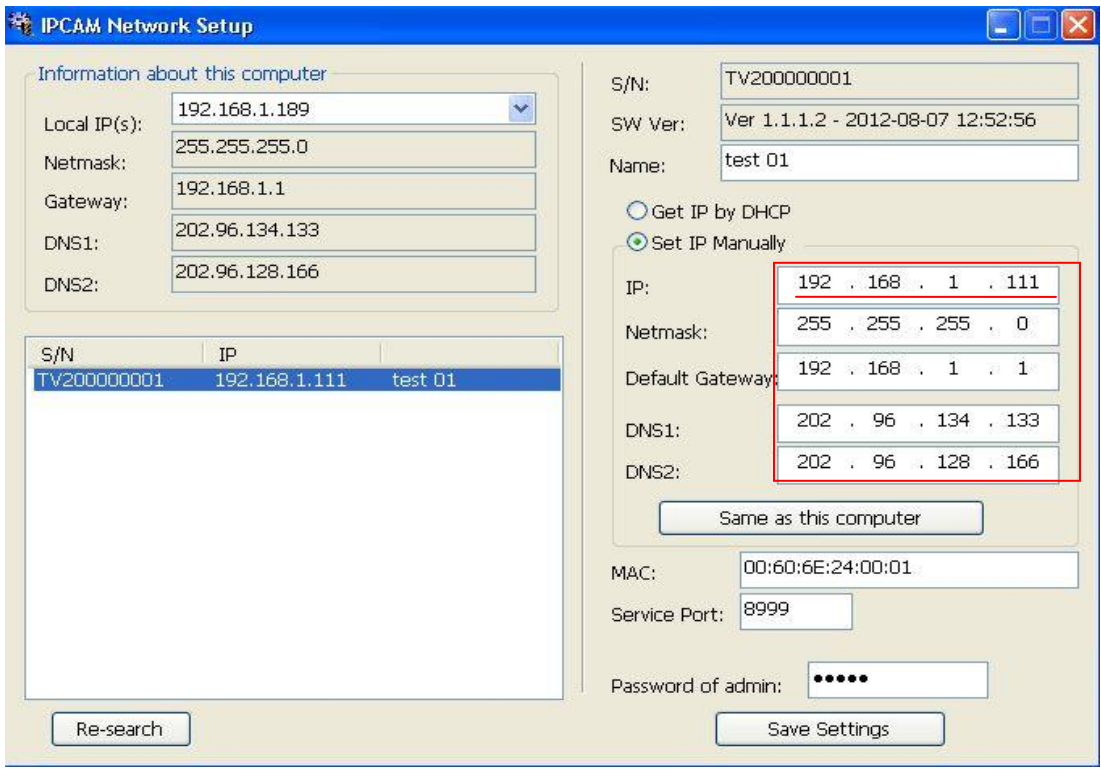
4.2 Search and set device IP address

Please note before searching IP camera:

- 1: Make sure IP camera has a good connection with power and network.
 - 2: Te router should be opened DHCP (Dynamic host configuration protocol) because the factory setting status of IP camera is to obtain automatically IP camera.
 - 3: When we power IP camera, we should wait 20 second then it can works

- Search IP camera

When we run Search tool” IP camera Tool”, we can find the IP camera showing IP address, Port, Name. If we use Wi-fi connection, we will find Wi-fi IP address. For the details, we can view the following picture.



Picture 11

Note: (“IP Camera Tool.exe” Programme only use to search IP camera address and port in the LAN. The tool can’t search IP camera IP address and port in the WAN.

There are 3 situations:

- 1 Do not find the device and re-search neither in the LAN, please check whether the power and network cable are working properly.
- 2 Searching the device in LAN, all the devices will be listed as shown in Picture 12.
- 3 Devices installed in the LAN, but not in the same network segment where the computer and the IP Camera are in. The device's IP address will be listed, but you can not turn the camera on, just change the

network parameter in accordance with the computer, and it will be ok.

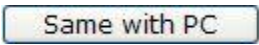
Network parameters configuration instructions:

- ✓ Please review the upper left corner of the computer information ", if the computer has multiple network cards, the number of sets of IP address configuration program, select the card is being used, while ensuring that the IP Camera in the corresponding network.
- ✓ modify the right of the "IP Configuration" in the content, to ensure that the same content with the current PC, only the IP address number of the last paragraph of your own set, as shown in Figure 11, set the value 111.
- ✓ If you are not sure exactly how to fill in the "IP Configuration", you can also check the "automatically obtain an IP address, the IP Camera will obtain an IP address directly from the router (If you can not obtain an IP address from the router, you need to check the "specify an IP address manually fill out the equipment, equipment parameters, or click on the button" with this computer ").
- ✓ Administrator password must be correct, (the system factory default user name: admin; password: admin), click on "save your settings" button, just setting will take effect. Box, select the device in the device list, double-click will automatically open the browser and pop-up dialog box to enter to access the device's user name and password, you can enter to the main page of the IP Camera, as shown in Picture 16



Note: If your computer is equipped with firewall software, when run IPCamera.exe, you will be prompted whether to block the program, please choose not to stop.

1. Camera information means the network camera information
2. Computer has a fixed IP (ie, non-DHCP-IP), the first time to use of the network camera, click.



,So that network camera's IP address, gateway and DNS synchronize with computer.

3. For manually modify the name of the camera, the HTTP port, IP address, subnet mask, gateway, DNS servers, etc., please click the Save Settings after modifying.

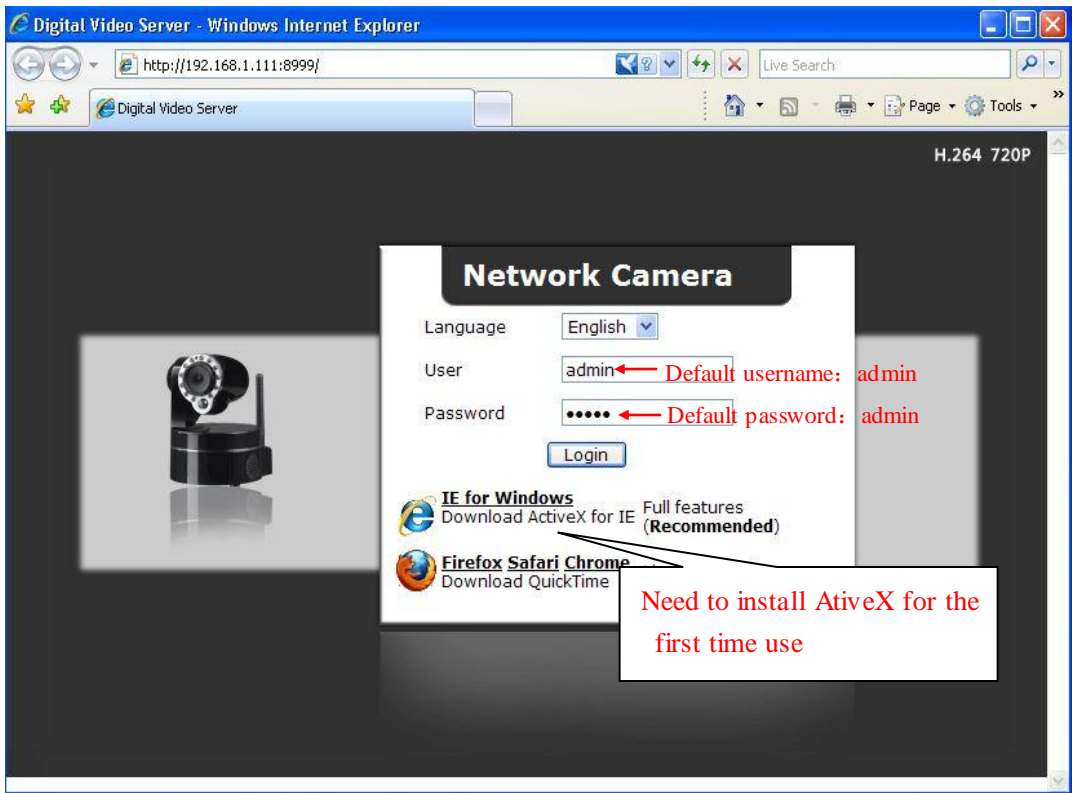
4.3 Login ip camera

●The computer will open the device according to the default browser. Take ActiveX mode Internet Explorer (IE) browser to access as example. Double-click the selected IP devices with the left mouse button

S/N	IP
TV2000000001	192.168.1.111

Picture 12

Or enter the IP address of the device in the browser directly, you can enter into the landing of the verification page of the device in both two ways (for example: http://192.168.1.111:8999). As shown in picture 13:



Picture 13

For the first time you use IE and compatible browser to access the IP Camera, you need to install a control to watch the video. In picture 13, click “Download Activex for IE” (initial use), it will pop-up a dialog box as picture 14. Click on Run, it will automatically download the player controls and install.



Click Run to begin the installation



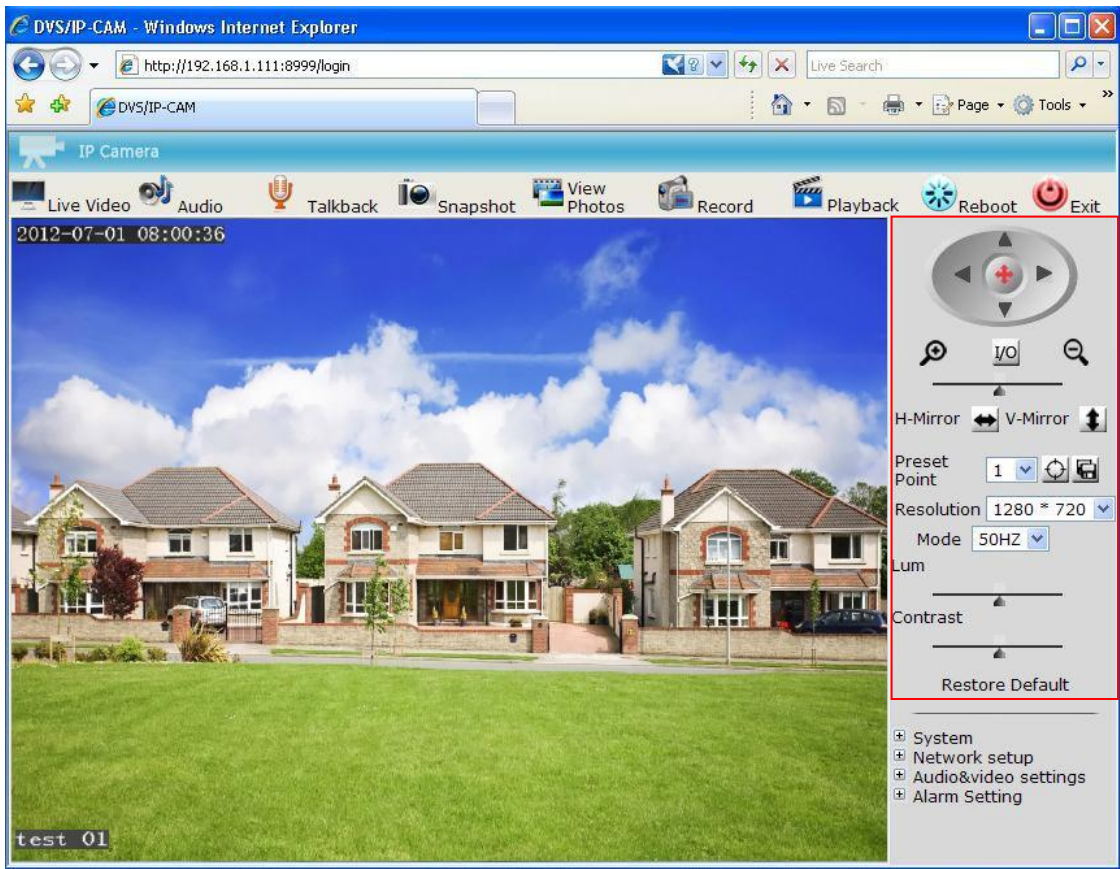
Picture 14

First visit to the network camera will automatically use the corresponding language version of the current web browser and language. You can also select other languages.



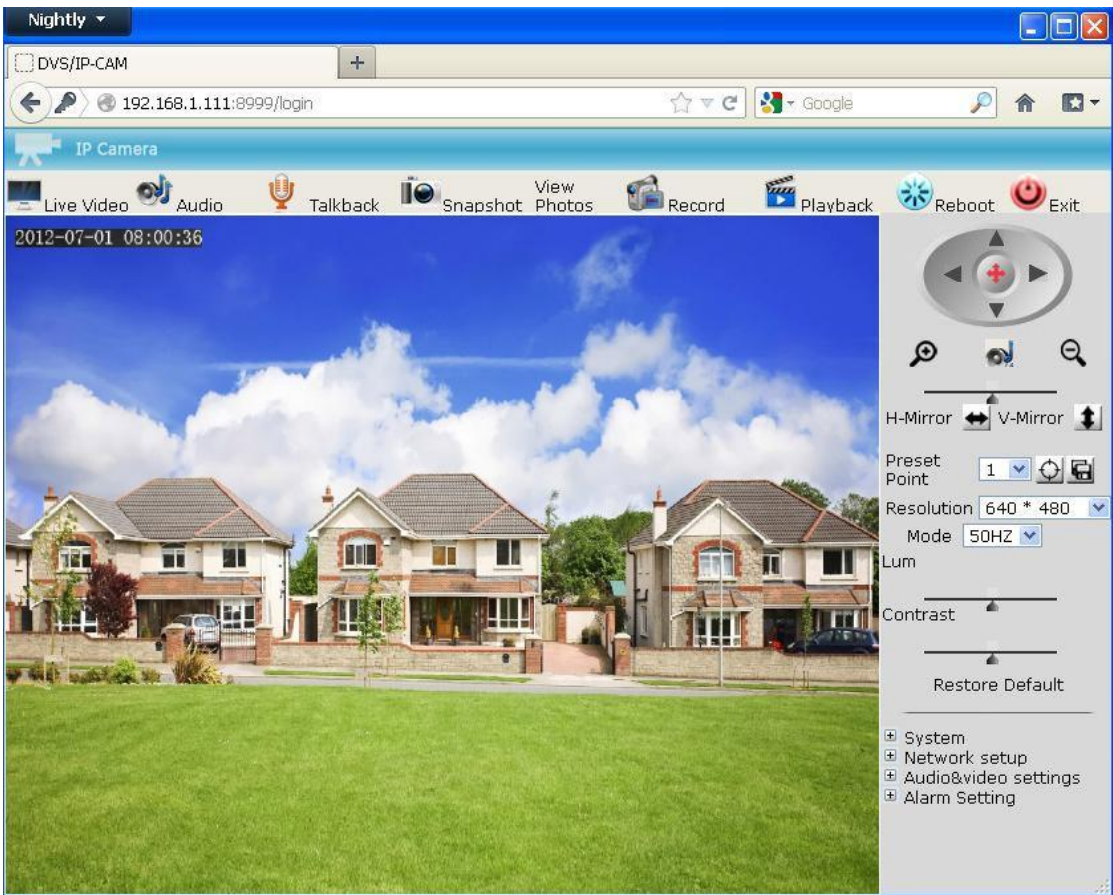
Picture 15

Click Login to enter the monitor screen after the landing authentication page, enter the access user name and password (default user name and password are **admin**).

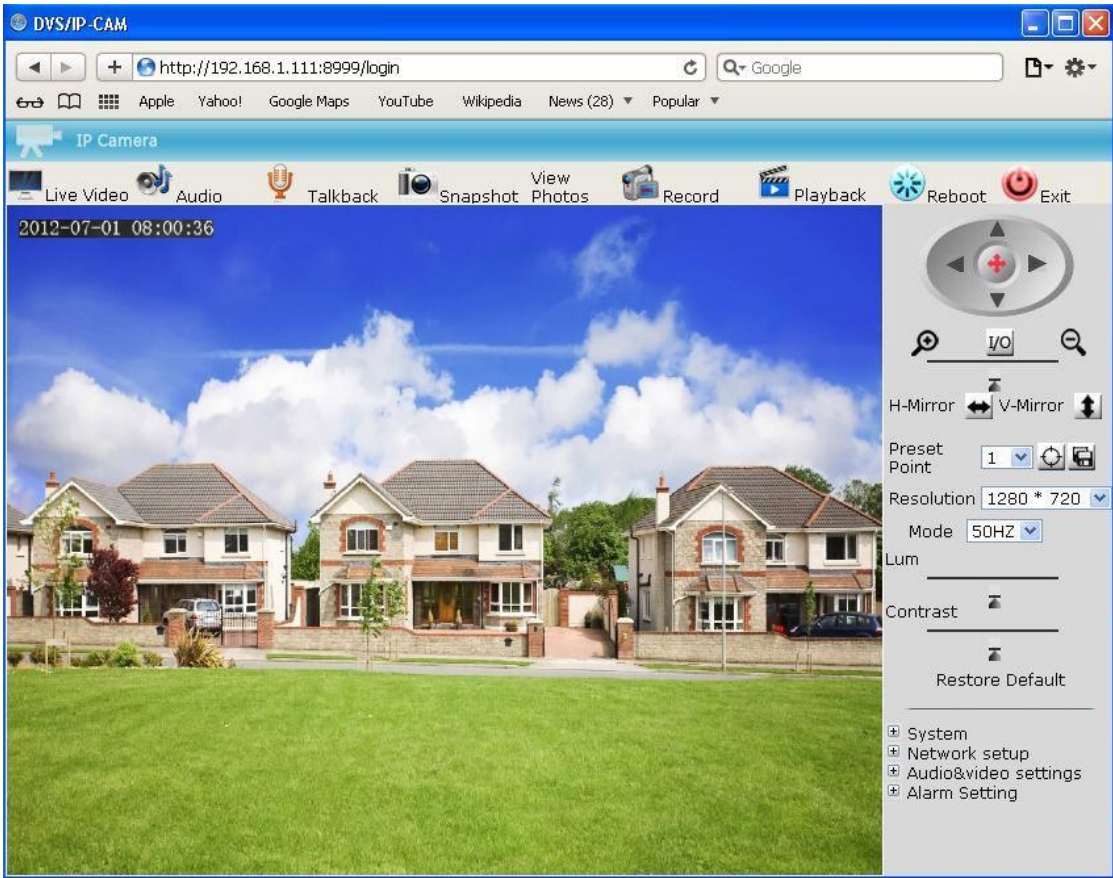


Picture 16

- network camera default username: admin, password: admin, after entering the correct username and password and click "Login" to open the monitor screen.
- If you are using Firefox and Safari browser to watch video you need to install the Quicktime plug-in, users can follow the prompts to the content to complete the plug-in installation. The IPCAM using Firefox and Safari browser to access as follows :



Picture 17



Picture 18

4.4 Ip Camera Operation

User interface



The interface is divided into four parts: the menu bar, the video playback area, control areas and functions and the setting area.





Picture 19



4.4.1 menu bar


The shortcut menu bar located at the top of the page, intercom, audio, capture, record, active video, video playback, view pictures, and reboot the device and the exit of nine:


【 Audio 】 click  button to enter the audio mode, the icon becomes  you can monitor the voice in the scope of monitoring, and click again to end..

【 Intercom 】 click  button to enter the dialogue mode, the icon becomes  the operator can talk with people near the monitoring scope through the camera.

【 Capture 】 click  button to capture video images.

【 Record 】 Click  button "record" to record active video, can record the video stream and audio stream to the default path in the local computer. in the active video region, the flashing prompt  suggests that that the video is being recorded, click on the video button again, then stop recording.

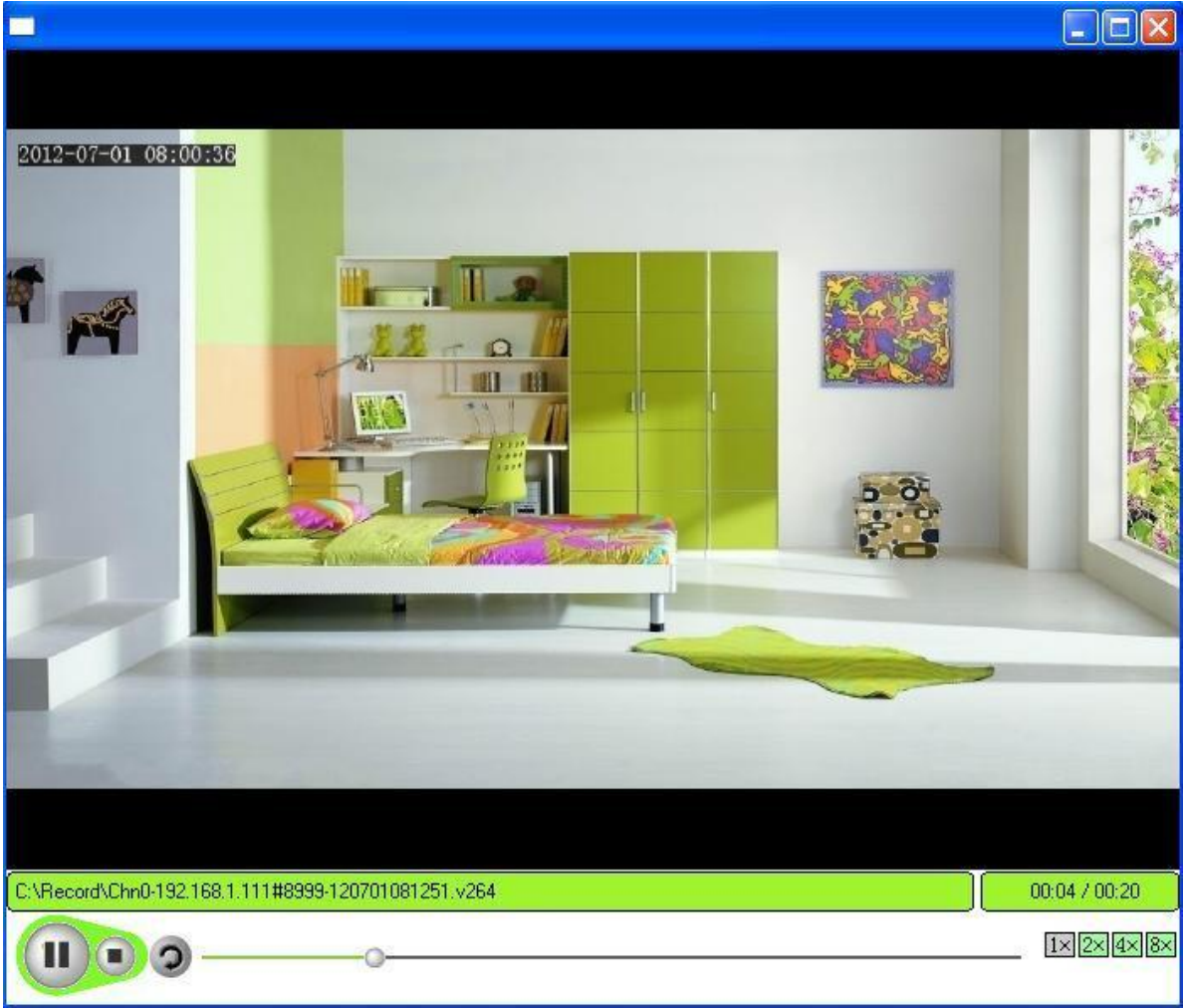
【 Active video 】  is to open the images the camera monitors ,

【 Video playback 】 click  button to display the location where the video files list, recording time, file length and size, select and double-click to play!


☒ Local File ☐ Remote File


☒ Date Range: 2012-07-01 - 2012-07-01


<input type="checkbox"/>	File Name	Record Start	Time Length
<input type="button" value="Delete Selection"/>			
<input type="checkbox"/>	C:\Record\Chn0-192.168.1.111#8999-120701081251.v264	2012-07-01 08:00:10	0'20




- [View Image]

 playback the stored image capture
- [To reboot]

 click here will pop up a confirmation window, click OK to reboot the device immediately.
- [Exit]

 to exit the browser page.



4.4.2 video playing area



Video play region is consistent with the video resolution, the greater the resolution, the greater the play area. Double-click the play area, the video will be shown in full screen, double-click again, then restore to the original size. You can use the user settings to show the date and time, device name, and recording status  in the video.


4.4.3 Control Area


Adjust and control image parameters and camera movement




『PT Control』: click different direction, ip camera turns accordingly,  automatic PT  Stop PT

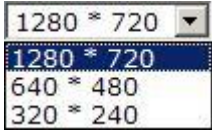
『Image flip』:  Image fluctuation flip(up and down).  Image around flip (right and left)


『ZOOM』:  Zoom optical zoom lens.


『IO output switch』:  I/O output Switch on /off..

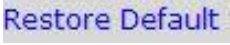
『PTZ speed』:  PTZ speed increase from left to right.

『Set Preset』:  Represent which preset has been choosed , run current preset , Set preset, and delete current preset !

『Video resolution』:  can choose three different resolutions to watch the video!

『Model』:  please choose 50hz/60hz according to the power frequency in which the users are.

『Brightness and contrast』:  Regulate image effect according to the need..

『Restore the default value』:  Click here to restore to the default value.

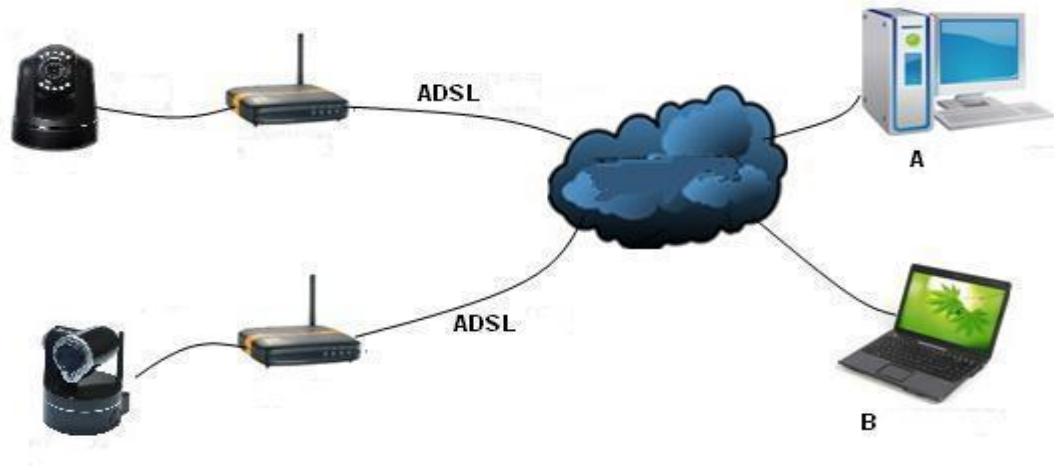
Note:
Name forma of vedio file: Chn0—IP address---. the current time V264 file

4.4.4 functions and setting area

- 『System』: can check system status and related settings, containing system status, device time, user management, miscellaneous firmware upgrade and reset settings and so on .
- 『Network functions setting』: containing network parameters, wireless network card, DDNS, SMTP, and PT settings.
- 『Audio and video Settings』: containing image coding parameters, the OSD settings, video scheduling and network storage settings.
- 『Alarm settings』: containing motion detection and alarm input, sound detection and alarm output! For details, please refer to other settings of Part 7.

5 Visit IP Camera in internet

5.1 Connect in the internet



Picture 25

5.2 Related setting and visit IP camera

- 1. If the network your IP camera using is using static IP, you just need to input this IP address and IP camera's port in the browser, then it can visit Ip camera.
- 2. If you are using ADSL to dial-up and surf on line, you should obtain IP Camera Current WAN IP Address or configured DDNS.

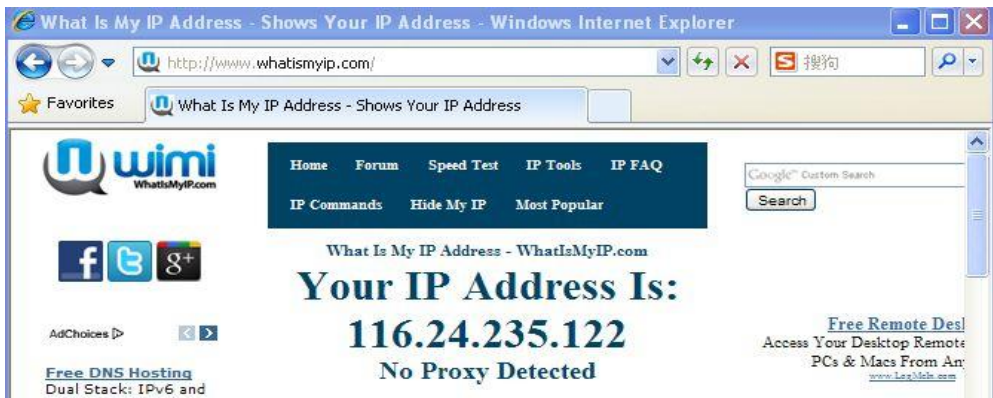
• There are three ways for you to obtain WAN IP Address

① Using mail to send internet IP function

After setting mail successfully, IP will send mail to your receiver e-mail box when Internet IP or port has changed. If it is dynamical IP, users need to input this IP address to visit this IP camera.

② btain from some websites

It is very easy for you to obtain WAN'S IP address. You can open browser on the computer on the condition that IP camera and PC are the same subnet. For example:: <http://www.whatismyip.com>.or <http://www.myip.cn> etcs., It will tell you WAN'S IP address as shows below.



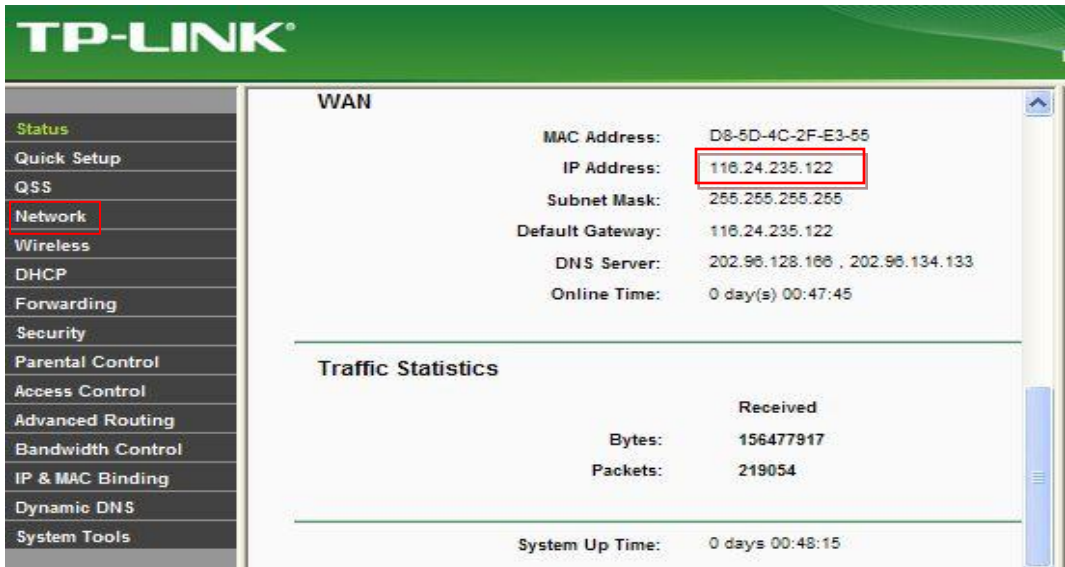
picture 26

③Obtain from router

We take" TP-Link " router as example

A.According to router's manual, we get Router's IP is 192.168.1.1 , User name and password are both admin.

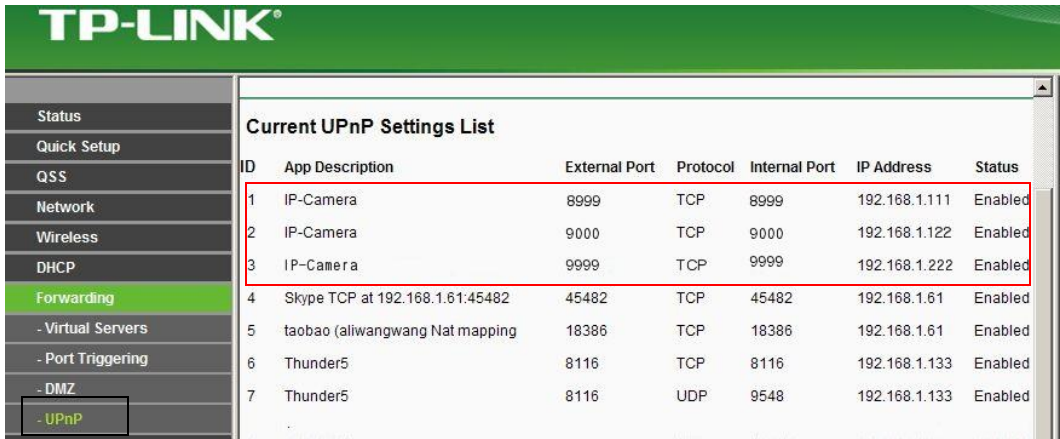
B. Login in router,: Input 192.168.1.1 in the browser. Find the status of Router and find Router's WAN(In this example, WAN'S IP is 116.24.235.122; As shows in Picture 27.



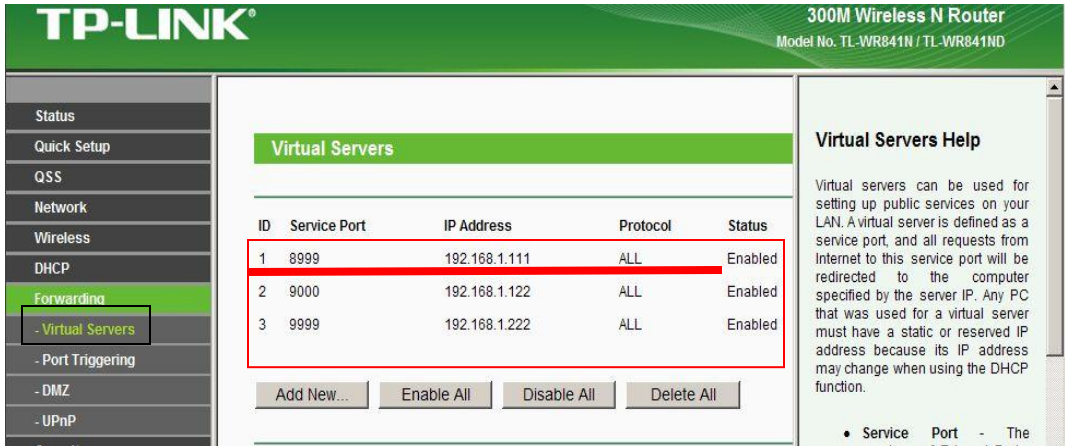
picture 27

Now you can visit IP Cam from Internet. What you should do is to Input correct IP address .
For example: [Http:// 116.24.235.122:8999](http://116.24.235.122:8999).

- Note:** Make sure the Port's UPNS is available. You can open UPNP via the following ways.
- Enter into Routers' setting page(Details : Router's user manual) to make UPNP available.



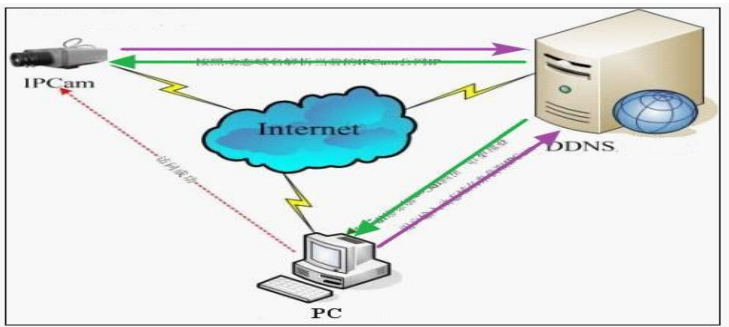
- Or enable virtual mapping function. Add equipment IP address and port to the virtual mapping list.



picture 29

3. DDDNS (dynamic DNS) service is the Internet domain name can be fixed and dynamic IP address real-time corresponding (analysis) service. Simply said, whenever user surf on internet or what kind of way you are using the Internet, get a what kind of IP address, IP address whether it will change,

DDMS can ensure that a fixed domain name can access to a user's device.



- Our products have been configured the DDNS services, of course, you can also apply for the domain name in registration website for one of your own domain name to configuration. For example: www.3322.org



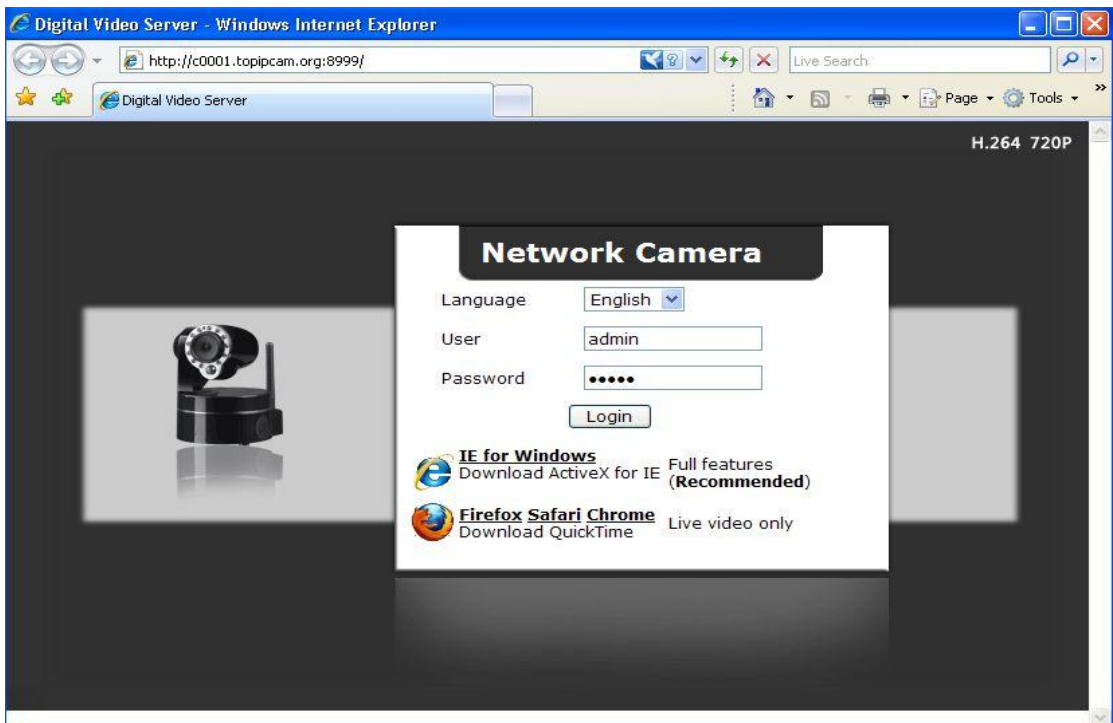
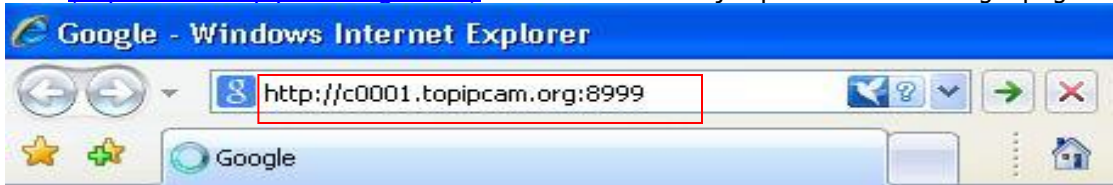
IP Camera		CE FC RoHS
User: admin	Password:	
DDNS Hostname:		
c0001.topipcam.org:XXX(port)		
User: c0001	Password: 317014	

DDNS domain name address

- You need fill in DDNS and port on the label of camera or open camera to check the status of DDNS. for example:

DDNS	
DDNS Provider	topipcam.org My Account
Account	c0001
Password	*****
Status	Online http://c0001.topipcam.org:8999

Enter (<http://c0001.topipcam.org:8999>). The browser will jump to IP camera's login page.



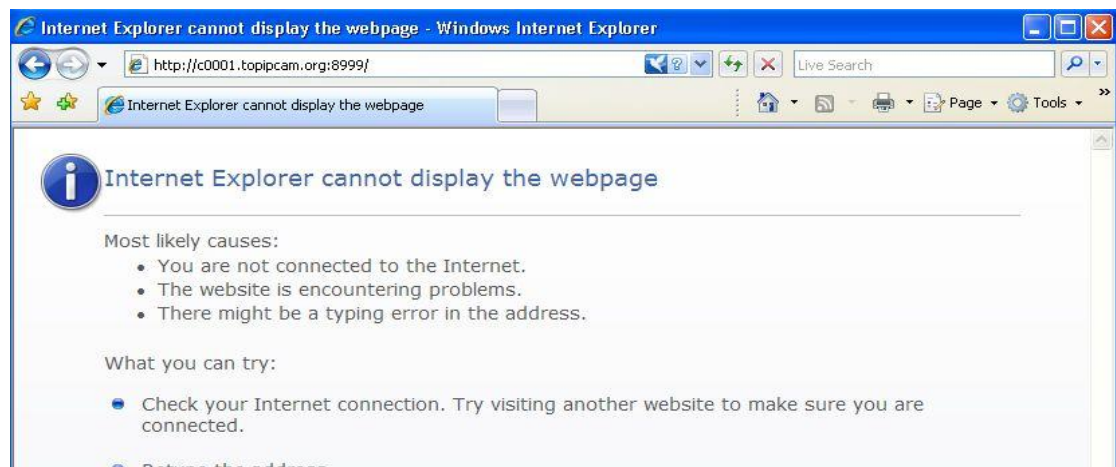
Picture32

- The input device user name and password to login to equipment.



Picture 33

- If input domain name, but can't open IP camera in the browser, such as the situation is as blows

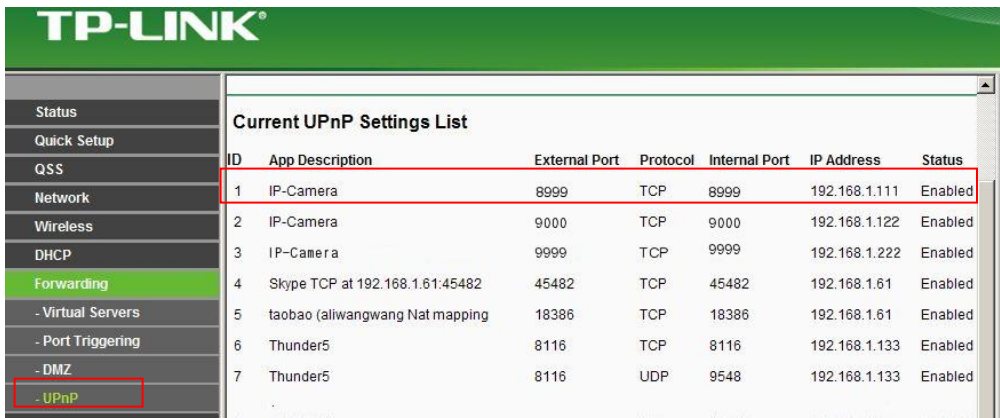


- Please open the device and check status of IP camera in the local area network, confirm whether DDNS is successful or not.

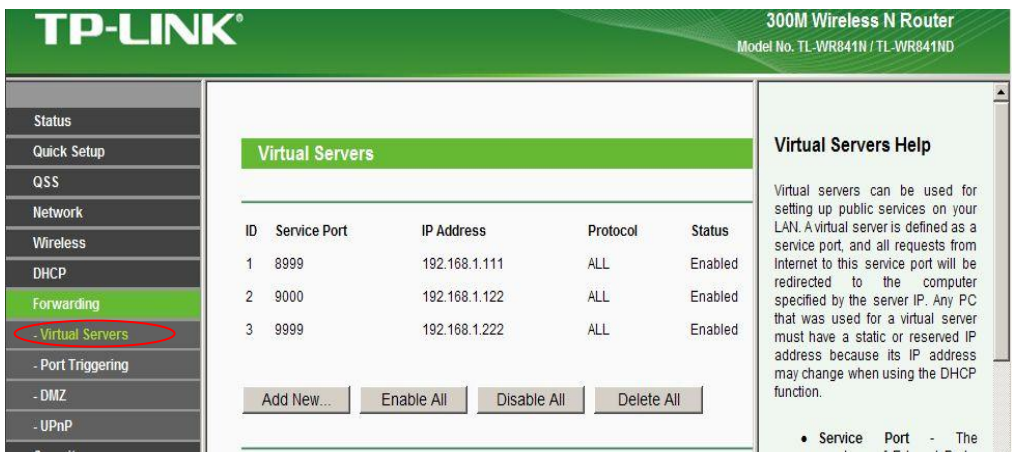
DDNS	
DDNS Provider	topipcam.org My Account
Account	c0001
Password	*****
Status	Online http://c0001.topipcam.org:8999

- You need to set port mapping function successfully, to check whether the router UPNP function is available, if It was unavailable, please make it available refer to the routers user manual!
- If you use TPLINK router, please refer to these instructions .
- Through the upnp automatic mapping port to the network: input router IP address in the browser (such as "http://192.168.1.1/ >, the router IP addresses are written on paper label on the router house---- please set according to your own IP address), open the routers page" forward rules "> >"

upnp set ", to ensure that the current state of upnp is "already available," as below:



Note: some of the router interface without "UPNP Settings" option, then need to open the virtual server IP cameras in the local area network of mapping the connection IP address and port number.



Picture 37

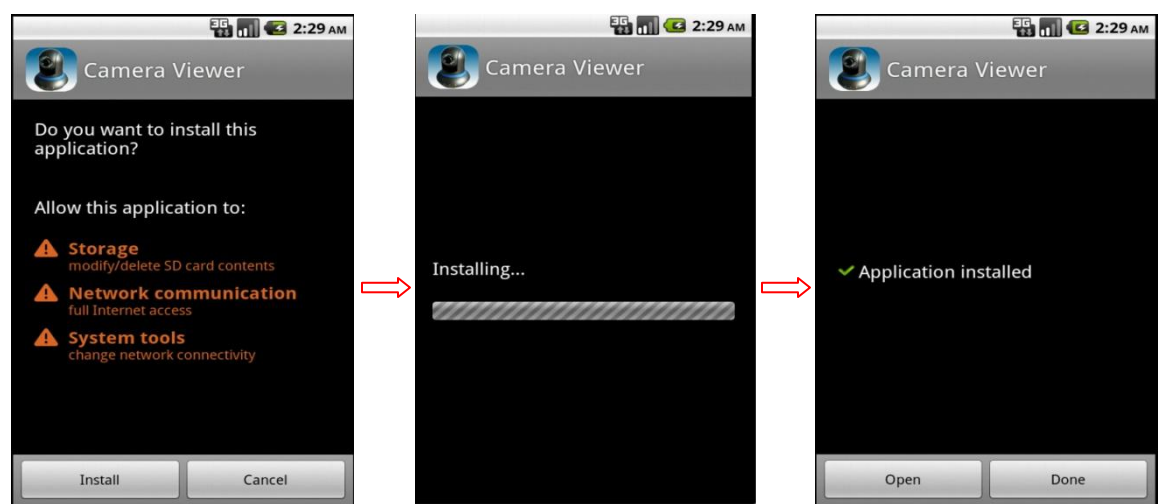
6 Access IP camera via mobile equipment such as mobile phone, PAD Ect.

User can use mobile phone to access the camera after it connects with internet.As below :

6.1 Visit ip camera via Android app

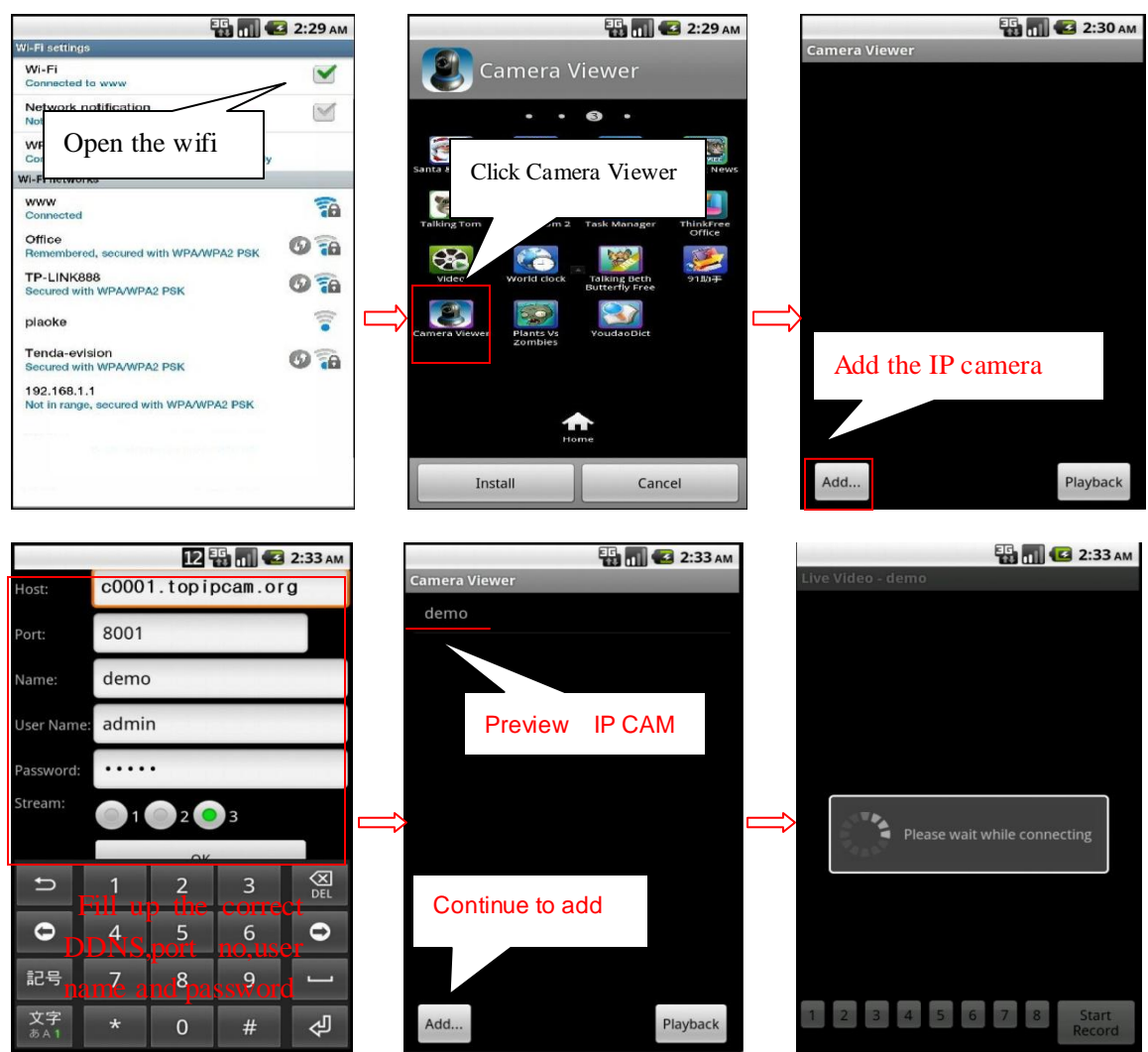
App for android is “CamView.apk ” Android:

- ① installation file-CamView.apk. running environment: Android version 1.6 or above
- ②Install method:
 - 2.1 Insert SD card into Android mobile phone.
 - 2.2 Connect the cellphone to computer via USB data cable
 - 2.3 Choose the USB connection model on your cellphone; you can see the SD driver in “my computer”
 - 2.4 Copy the ipcamera.apk into SD card.
 - 2.5 Disconnect the device, pls find the ipcamera.apk in “File Management” and run it.
 - 2.6 The ipcamera application will be show up on the home screen after you successfully installed.



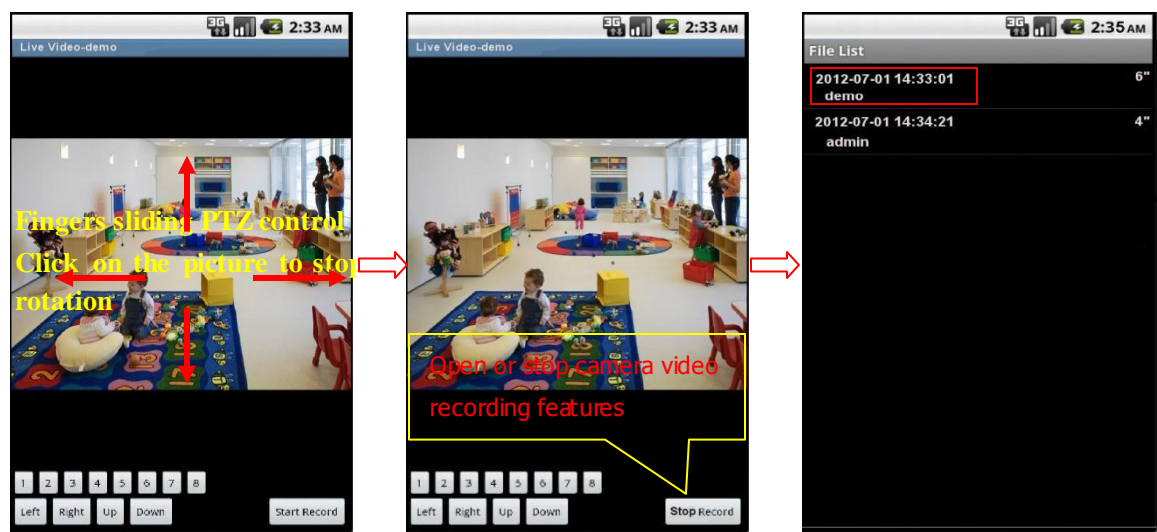
Picture 38

- ③ Software operating processes:
- Please make sure to connect the internet and open the wifi, click the “Camera Viewer” as following:



Picture 39

- Fill up the details of IP camera then you can see the image:



Picture 40

- User can record via the software: Video interface for video operations, the selected video file to play



Picture 41

6.2 Visit ip camera via Iphone app

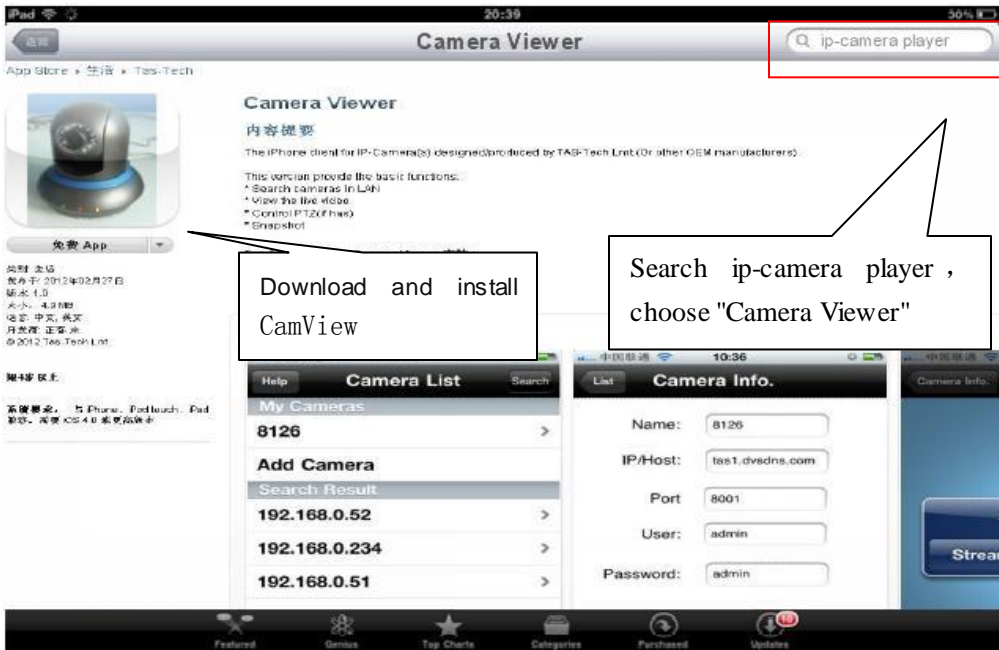


1. The client-side of "CamView" for iphone and ipad

Firmware requirements: compatible with iPhone, iPod touch, and iPad. System requirements: Requires iOS 4.2 or above, You can find the Camera Viewer" From App store and search the key words of "IP-camera player" and choose "Camera viewer from search result . Then download and install it..



Picture 42

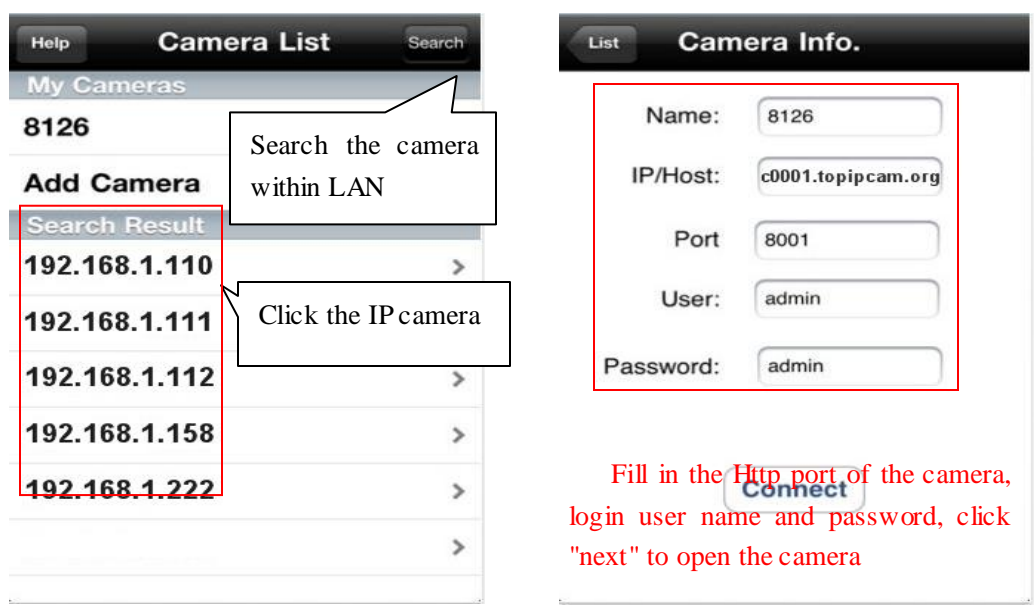


Picture 43

Software operating process is as follows:



Picture 44



Picture 45



Picture 46

7 An introduction to centralized monitoring software

DVS Client is a free centralized monitoring software offered by factory. user can monitor several ip cameras via WAN OR LAN, and it provide real-time recording, recording on schedule, alarm ect.As shown picture 47.



Picture 47 Client-side software interface example

- it can support MAX 30 ip cameras simultaneously :



Picture 48

Pls check the user manual 《DVS Client user manual》 in the CD.

8 Other setting

8.1 system

- 8.1.1 system status

Show ip camera system info, storage and UPNP

System Information	
Device's Name	<input type="text" value="test 01"/> <input type="button" value="Set"/>
S/N	TV200000001
Software Ver.	1.1.1.2
Release Date	2012-07-01 07:00:00
Hardware Ver.	GM8126
Date/Time	2012-07-01 09:04:52
Picture Path	C:\Snapshot\
Video Path	C:\Record\
Storage Devices	
SD Card	Total:7444M,Free:7436M
Network Storage	-
Status	-
UPnP	
External Port	-

Picture 49

- Every device just have one Device ID
- If user choose wired connection, then the mode of connection will be wired, if user choose wireless, then the mode of connection will be wireless
- The SD status will show whether it's been inserted by SD or not. and show how many storage left. use can “browser SD card”. format SD card”, “stop SD card” after clicking it.

Note: the max size for SD is 32G,pls format the SD to be FAT32 system and test the SD whether it is compatible with the system.

- 8.1.2 device Time

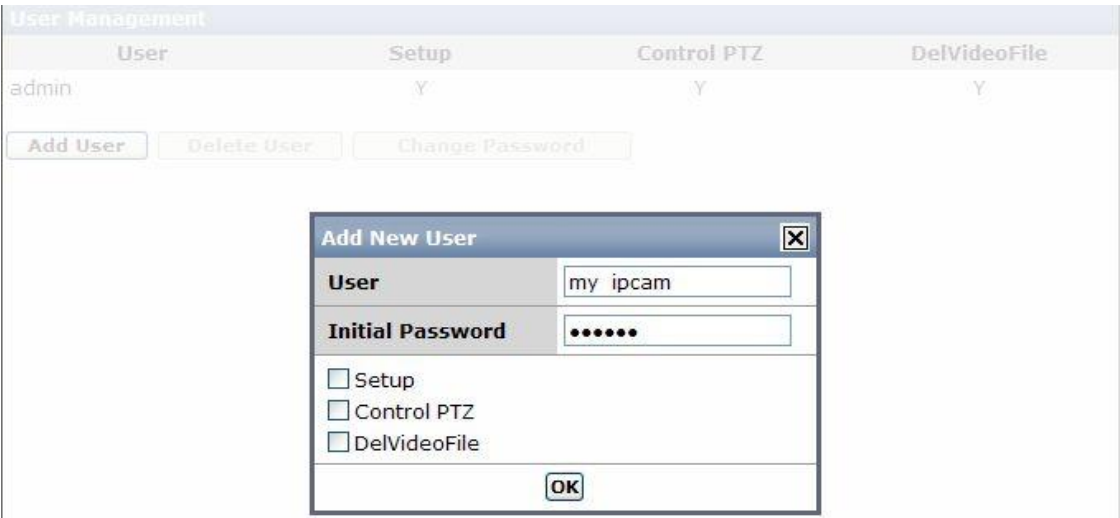
User can enable the NTP server after the device connect with internet, and need to choose the time zone as the location of the cameras. Otherwise, user need to click the botton

Date/Time	
Time Zone	(GMT+08:00) Beijing,Chongqing,Hong Kong,Urumqi <input type="button" value="v"/>
Date/Time	<input type="text" value="2012-07-01"/> <input type="text" value="08"/> : <input type="text" value="21"/> : <input type="text" value="22"/>
<input type="checkbox"/> Automatically adjust clock for daylight saving changes	
<input type="button" value="Same with PC"/>	
Sync With NTP Server	<input type="checkbox"/>
NTP Server	<input type="text" value="time.nist.gov"/> time.nist.gov , ntp.fudan.edu.cn , timekeeper.isi.edu , ...
<input type="button" value="OK"/>	

Picture 50

● 8.13 User management

It could add and delete user, and change the password .



Picture 51

● 8.14 Other options setting

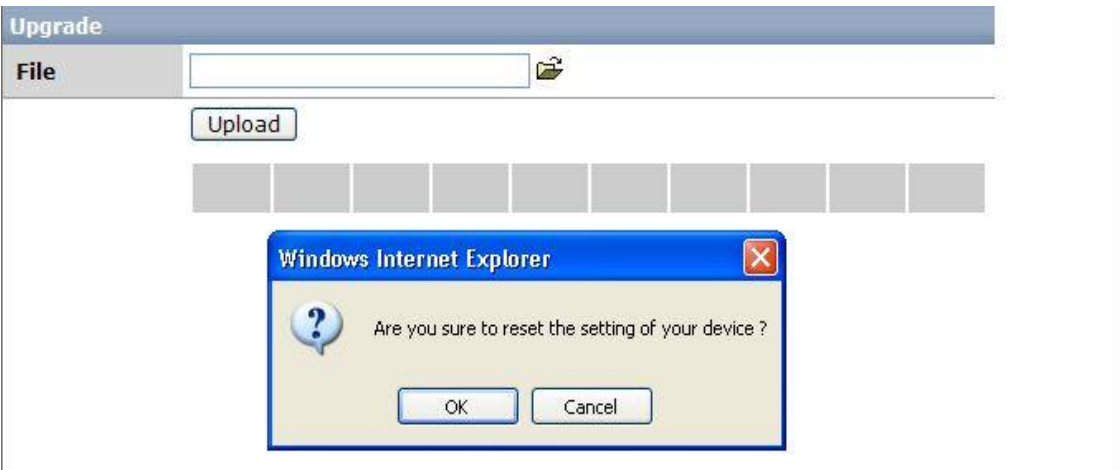
It can set interval time of snapshot picture, the quality of picture and Timing automatic boot device:



Picture 52

● 8.15 Firmware upgrade and reset

Choose the file which is needed to upgrade , then click the “upload file ”button that is ok for upgrade ,click the reset setting when need to reset .



Picture 53

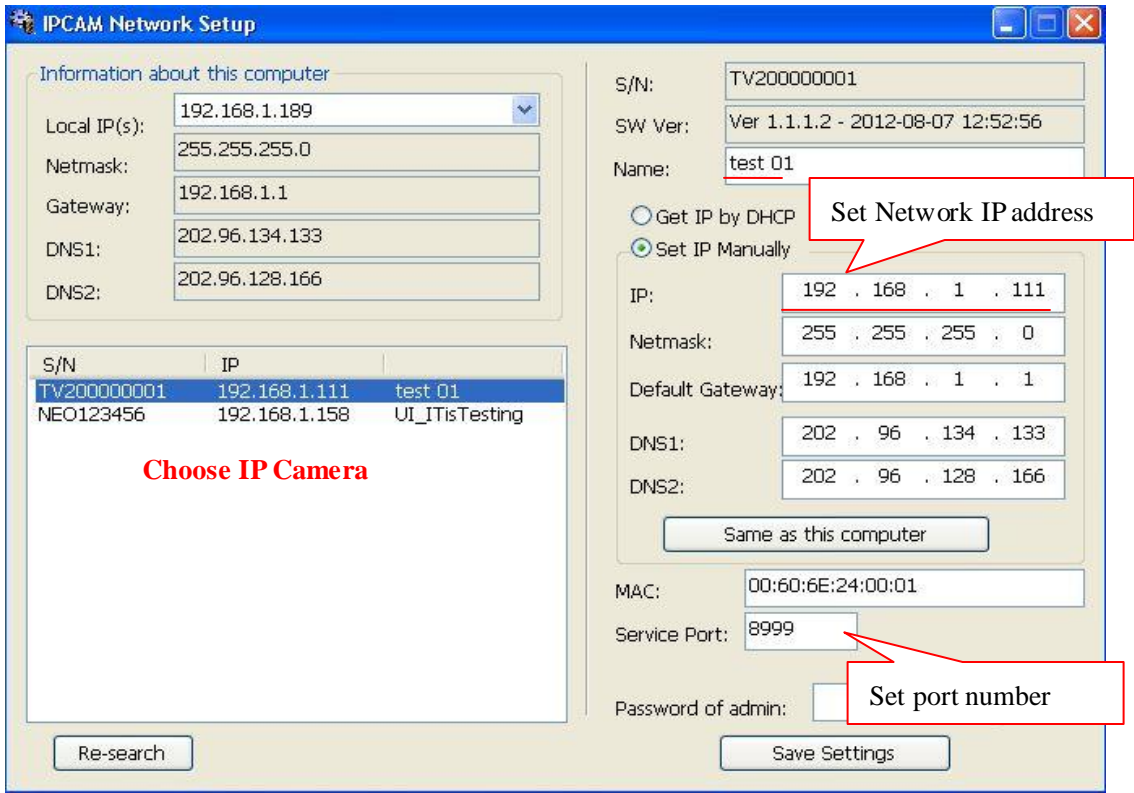
8.2 Network Setting

8.2.1 Network parameters

If the router that the IP camera connect has DHCP function, you can choice “Obtain IP from DHCP Server”, or fill in the network parameters manually.

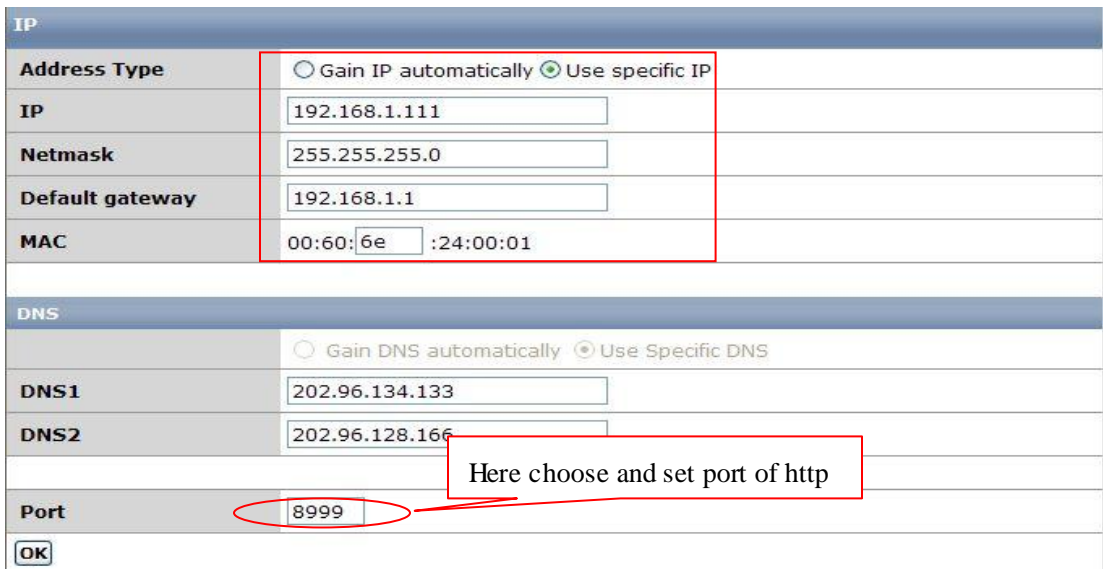
Http Port: In most cases, you can leave this value as 80, however, if your Internet Service Provider blocks this port, you may switch to another port number such as, 85, 8080, 8888, 9000 Etc. (Range from 0 to 65535, pay attention to the same segment of multiple devices must set up different port. The port t can’t have any conflict with other software or equipment

a. Modify in LAN search tools



Picture 54

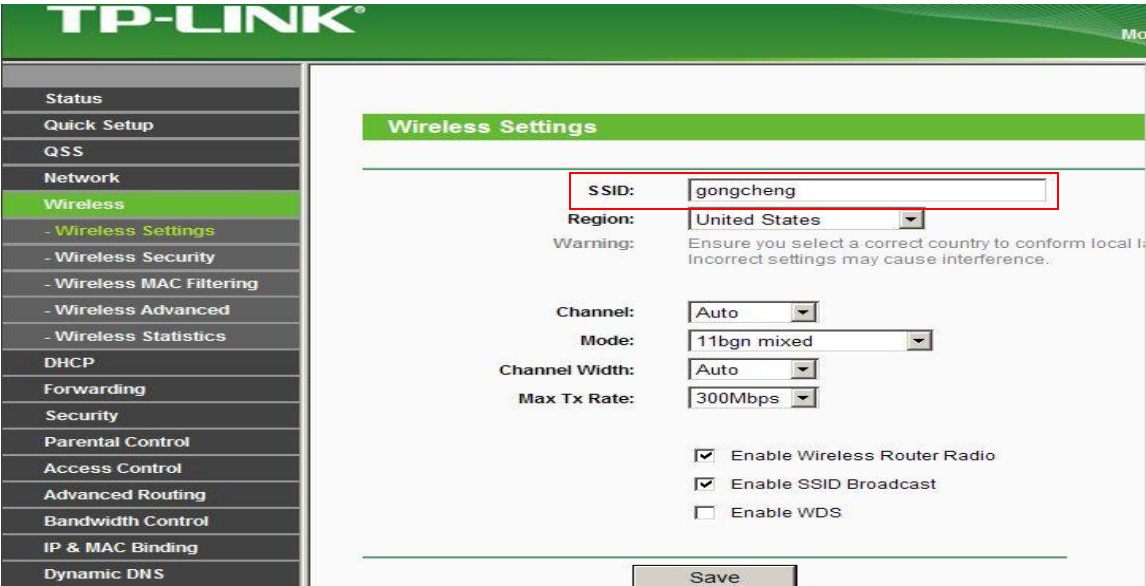
b. The management authority user login into **Network setup** then open **IP and Port** change the http port



Picture 55

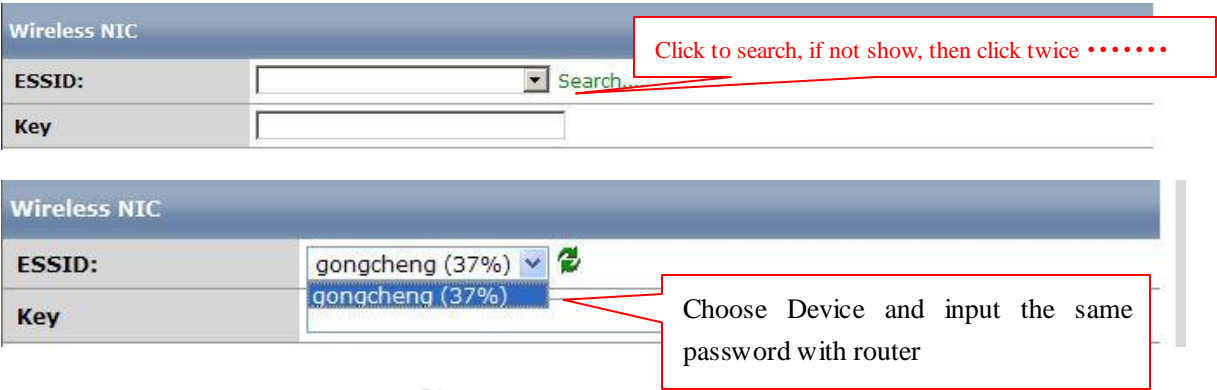
● 8.2.2 wireless fidelity (WIFI) setting

1) Login into the setting page of the router which the equipment connected with, open the wifi , and set the wifi ID(SSID),Channel ,Encryption, Authentici. For example :



Picture 56

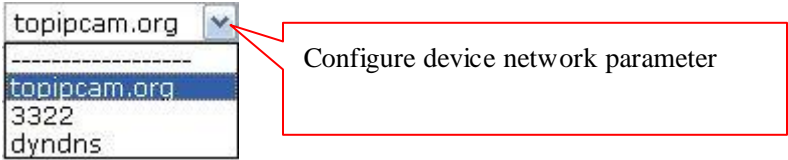
2) Open the wireless network card setting “confirm the same setting with the router, then pull up the device’s cable ,wifi can use ,example as the picture”:55



Picture 58

● 8.2.3 DDNS setting

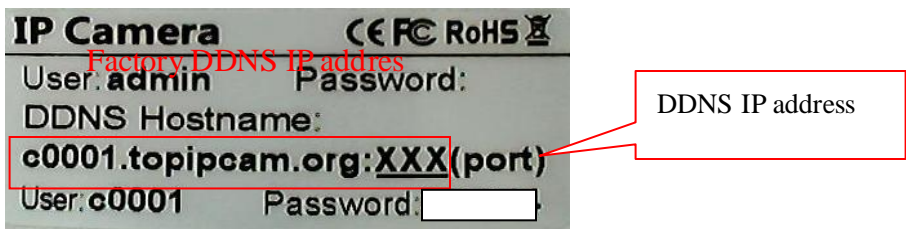
•**DDNS service** : system support DDNS service topipcam.org, www.3322.org, DynDNS and so on provide agreement.



Account and password : . the user name and password that you apply for domain (see: 8.1)
DDNS: The domain that you applied for you equipment

● **Factory DDNS**

Manufacture has assigned a domain for the ip camera, it is the unique one. In the internet, you just need to fill the website and equipment port number into the browser, then you can monitor cameras in another place.



Content of equipment domain

DDNS	
DDNS Provider	topipcam.org My Account
Account	c0001
Password	*****
Status	Online http://c0001.topipcam.org:8999

OK

Picture 59

Attention: when visit the ip camera via domain, UPNP unsuccessful , must In the succeed in completes the port mapping in the router

● The third part DDNS

User not only can use the domain that manufacture assign, but also can use the third part DDNS,for example www.dyndns.org the domain system ,just need to login into the website to apply for a free domain ,and fill like the picture below

DDNS	
DDNS Provider	dyndns My Account
Account	well1888
Password	*****
Dynamic Domain Name	well1888.dyndns.org
Status	Online http://well1888.dyndns.org:8999

Picture 60

Attention : the third part domains are achieved by analytic way ,when fill the domain into the browser ,it will keep the this string of characters the whole time ,id the equipment port is not 80,need to add colon then add the port ,for example: <http://well1888.dyndns.org:8999>

• UPNP setting

UPNP mean plug and play , if start using the UPNP ,when insert our ip camera into the LAN,it will communicate with the router in the LAN automatically ,and let the router open a port ,mapping with its own port ,so no need login into the router to do the port mapping .(attention :the function of equipment default open ,need confirm the router has opened the UPNP)

8.2.4 SMTP setting

It is the setting of email server which collocates sent and receive e-mail, When there is alarm occur or equipment IP address change situation, mail receiving party will receive the sender's email.

SMTP

Enable SMTP	<input checked="" type="checkbox"/>
SMTP Server	<input type="text" value="smtp.gmail.com"/>
Account	<input type="text" value="test"/>
Password	<input type="password" value="*****"/>
Sender's Mail	<input type="text" value="test@gmail.com"/>
Receiver	<input type="text" value="test@163.com"/>

OK

Send A Test Mail

Status: OK

Windows Internet Explorer

!

OK

OK

Picture 61

Send A Test Mail

A test mail is sent! Check your mail box after a while !

Attention: email send alarm snapshot picture .**Motion detection** ---alarm input --sound detection

Sending mailbox: mail box that used for sending email

Receiving mailbox: the mail box used for receiving the picture and ip address, the most can be setting for 4 receiving mail box

SMTP server: Send E - mail SMTP server.

8.2.5 PTZ settings

PTZ

Protocol	<div>Pelco-D</div>
Speed	<div>2 - Normal</div>
Direction	<div><input checked="" type="radio"/> Normal <input type="radio"/> Upside Down</div>

2 - Normal

0 - Slowest

1

2 - Normal

3

4 - Fastest

The PTZ is divided into four levels:

Figure 62

34

8.3 Audio and Video setting

- Image coding parameters

Main Stream	
Resolution	1280 * 720
Output	Variable Bitrate
Frames per second	30 fps
Bitrate	4096 kbps(16~8192)
Gap of I-Frame	200 (5~500)
Secondary Stream(for Internet or SD card)	
Resolution	640 * 480
Output	Variable Bitrate
Frames per second	15 fps
Bitrate	768 kbps(16~4096)
Gap of I-Frame	100 (5~500)
Third Stream(for Internet or SD card)	
Resolution	320 * 240
Output	Variable Bitrate
Frames per second	8 fps
Bitrate	218 kbps(16~1024)
Gap of I-Frame	50 (5~500)

Picture 63

- OSD Setting

On the video image display device name and date information:

OSD	
Channel	1
<input checked="" type="checkbox"/> Device Name	Color <input checked="" type="radio"/> White <input type="radio"/> Black Position Lower Left
<input checked="" type="checkbox"/> Date/Time	Color <input checked="" type="radio"/> White <input type="radio"/> Black Position Upper Left
<input type="checkbox"/> User Defined	Color <input type="radio"/> White <input checked="" type="radio"/> Black Position Upper Right
	Text

Picture 64

- Equipment video scheduling

Record	
Size-limit of Video File(M)	40 M (1~256) The limit of size and time is consulted, but not accurate.
Time-limit of Video File(seconds)	200 s (< 7200)
Time-length of record triggered by alarm(seconds)	20 s (20~600)
Stream to record	Stream 2
Record Audio	<input type="checkbox"/>
Schedule	default <div>Time Slot + Everyday Add</div> <div>Video Channel <input type="checkbox"/> 1</div>

Picture 65

● Network Storage Settings

First select the storage:

☒

CIFS/Samba
CIFS/Samba
Net File System
Ftp

← Select the storage of the camera

If you use FTP storage as follows:

Network Storage	
Enable Net Storages	<input checked="" type="checkbox"/>
Protocol	Ftp
Account	IPCAM
Password
Host	192.168.1.150
Sub-Directory	/
Save picture to network storage	<input checked="" type="checkbox"/> Pictures snapped at alert will be uploaded to storage server other than send by SMTP, even SMTP is set.
Strategy	Delayed • Delayed - Save to local first then upload to network server. Used in the situation of low bandwidth. Size of file is limited to 3M if you don't have a SD card. Suitable for short time record(for example, Alarm triggered) • Realtime - Upload to network server immediately. You must have enough bandwidth, or the file will be incorrect. Suitable for long time record

Picture 66

Note: In order to use FTP function , you first need to apply for a username and password on the FTP server at the same time to apply for a certain amount of storage space , and require the user to have write access to storage space .

8.4 Alarm setting

Trigger the alarm: motion detection, sensor alarm input and voice detection . When the alarm is triggered , the device can take a variety of alarm , such as :

- Inform the client;
- Trigger video recording;
- Send E-Maill
- Transmit live images to an FTP server, and can set the interval time to send pictures;

● Motion Detection

Motion Detect

Video Channel1

2012-07-01 08:01:22

5

test 01

Actions To Take

☒ Notify Client

☒ Trigger Record

☒ Send E-Mail

Trigger AlarmOut:

☐ 1

Sensitivity5 -- Sensitive

Clear

[Hold CTRL key to select areas]

Valid Time

Time Slot

+ Everyday

Add

OK

Picture 67

● Alarm input

AlarmIn

AlarmIn Channel1

Channel Name

Trigger Level

Low

High

Actions To Take

☒ Notify Client

☐ Trigger Record

☒ Send E-Mail

Trigger AlarmOut:

☐ 1

PTZ Action

Correlative Video Channel1

PTZ ActionNone

Number of Preset point0

Valid Time

Time Slot

+ Everyday

Add

Picture 68

● Sound detection

Sound Detection

Enable Sound Detection

Sensitivity3

Actions To Take

☒ Notify Client

☒ Trigger Record

☒ Send E-Mail

Trigger AlarmOut:

☒ 1

Valid Time

Time Slot

+ Everyday

Add

Picture 69

● Alarm output

AlarmOut	
AlarmOut Channel	1
Name	111
AlarmOut Persistence	2 Seconds

Picture 70

9 Appendix

9.1 Register and apply for DDNS Service

1、Users use DDNS management system first time.Users need to apply account to manage and inquire the domain state.

Step1: enter <http://www.dyndns.com/> and Create Account.(Fill in Domain Name .dyndns.org then Click Add)

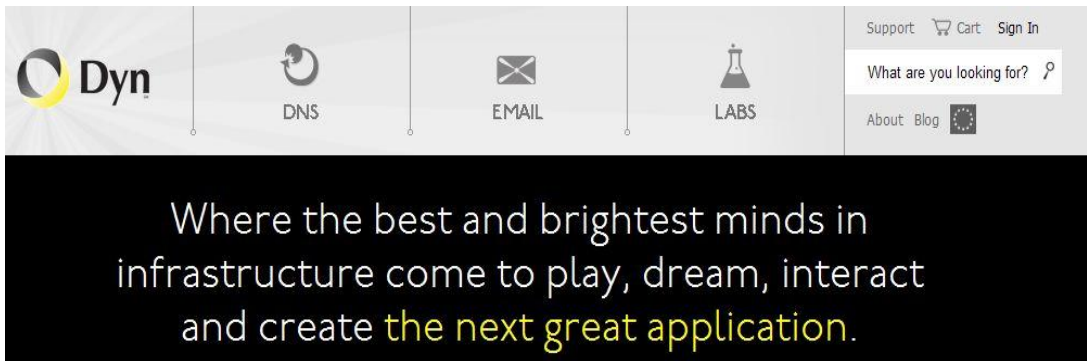


Figure71

Step2: enter your information

Create an account or log in to continue

Welcome! You can login to the right to manage your services or create an account below.
If you haven't already, check out the new site on [dyn.com](#)! Did you mean to log in to [DyNECT Email Delivery](#) or [DyNECT Managed DNS](#)?

Username

well1888

Password

•••••

Confirm password

•••••

Email

well18888@yahoo.cn

Confirm Email

well18888@yahoo.cn

Security Image

3 1 1 0 3

Enter the numbers from the above image:

31103

Already Registered?

Username

Password

Log in

Forgot your password?

☒ Subscribe to Dyn newsletter (One or two per month)

☒ I accept the terms of Dyn's [Acceptable Use Policy](#), the [Dyn Services Agreement](#), and Dyn's [Privacy Policy](#).

Create Account

If you're having difficulty creating your account, for any reason, feel free to [contact us](#).

Figure72

38

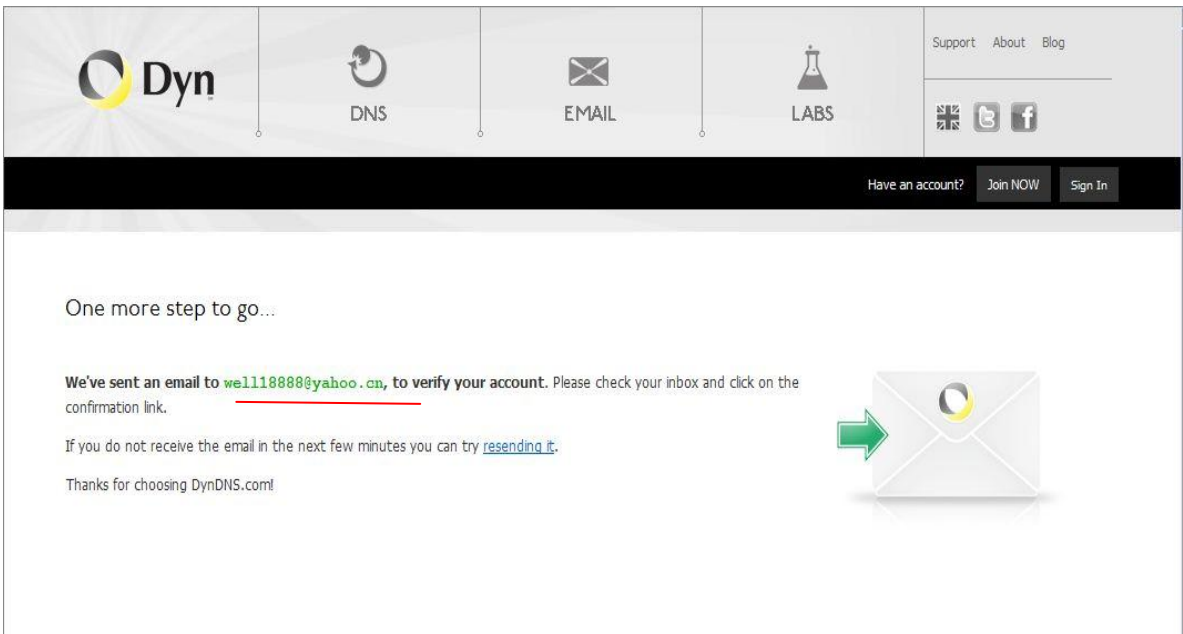


Figure73

Step3: After a minute, you will receive an E-mail from **DynDNS Support** and it will give you a confirmation address
(e.g. https://account.dyn.com/eml/createconf/IILHMZHRje5oF_6YXTYv1A)

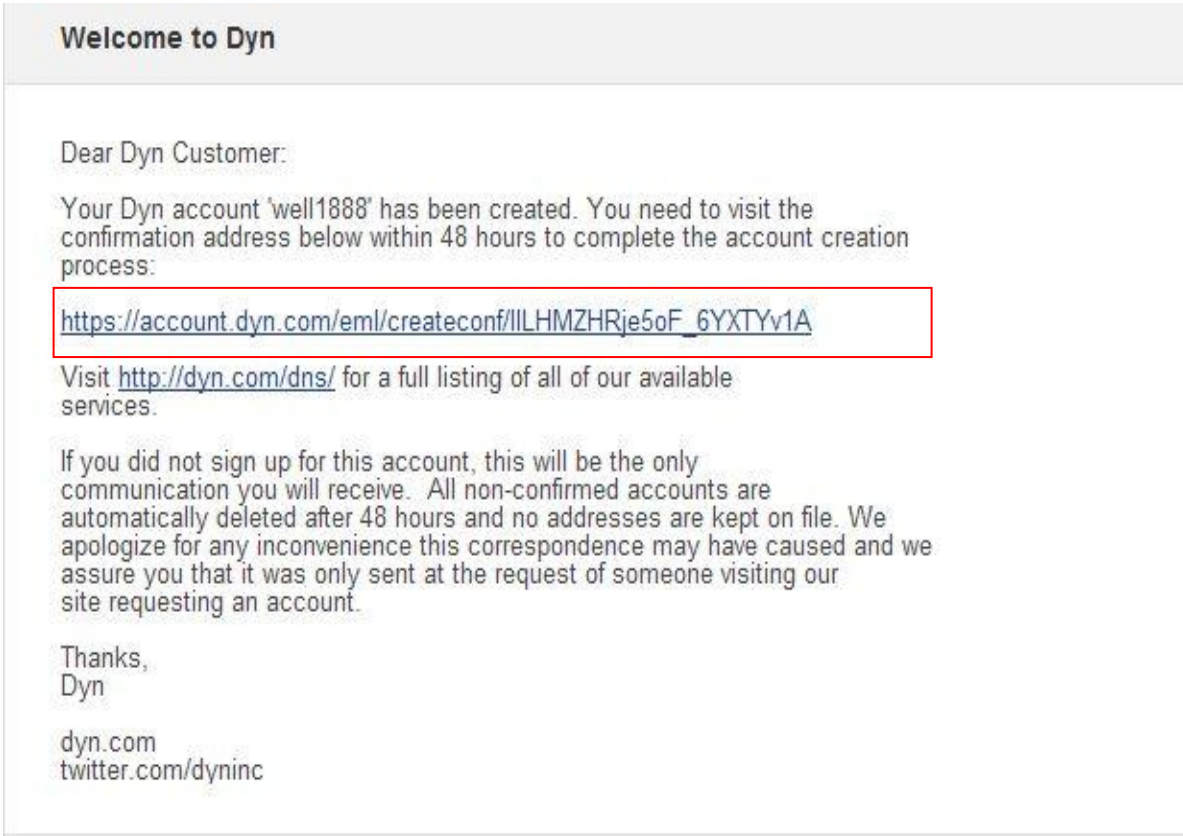


Figure74

Step4: Open the link to active your Domain Name as below.Login in your account after it is activated

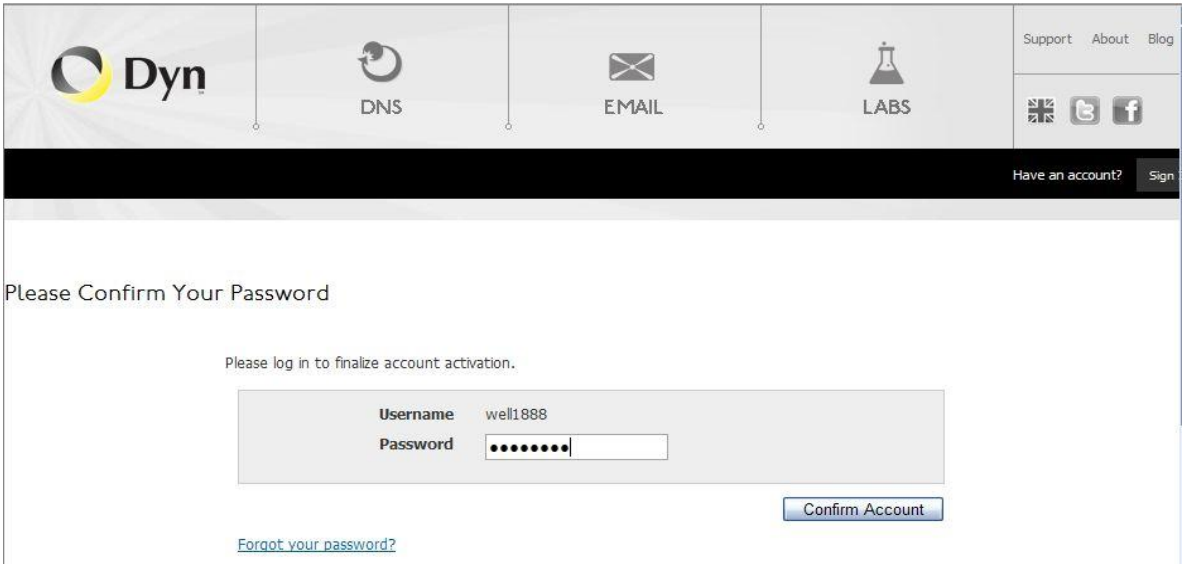


Figure75

Step5: Check all the DDNS services,we choose the 14-day-trial

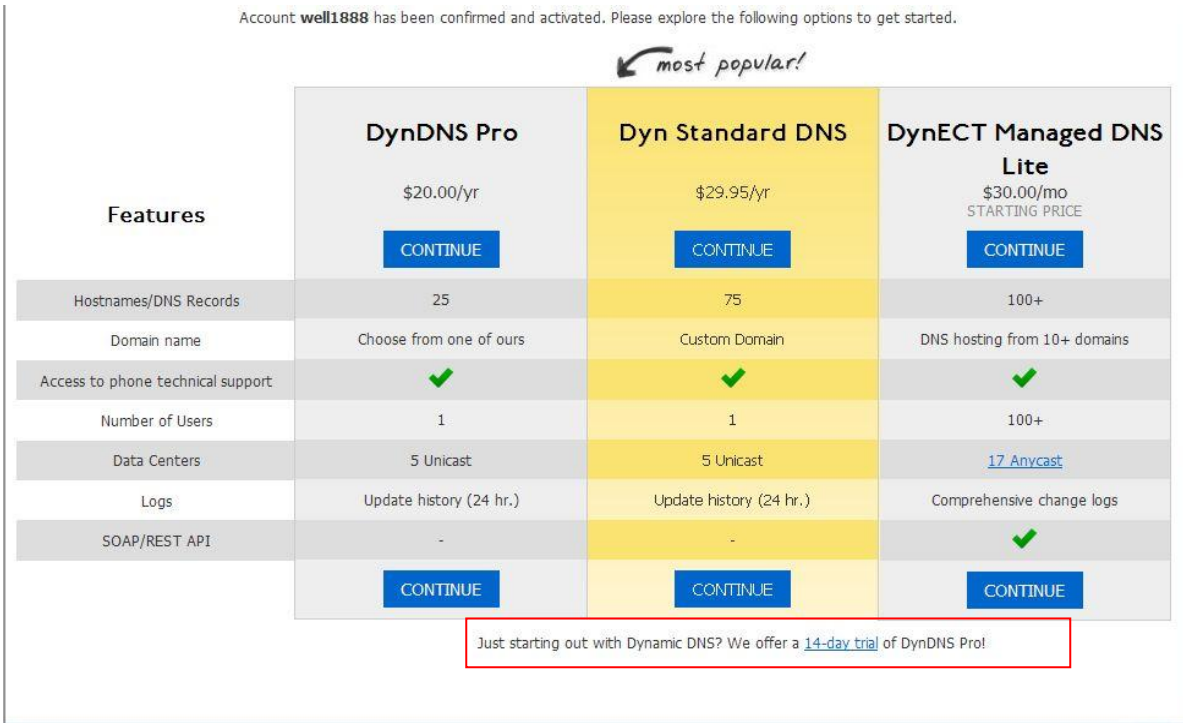


Figure76

Step6: Click the link,and user will see as below.



- enter your information

Welcome well1888FREE

My Services

My Cart

Log Out

My Account

My Services

DynDNS Pro/Hosts

DynECT Managed DNS Lite

Domain names, DNS hosting, Dyn Email services

Internet Guide

Dyn Standard SMTP

DynECT Email Delivery Lite

Renew Services

Auto Renew Settings

Sync Expirations

Tips on Getting Started

Account Settings

Billing

My Cart

1 item

Add New Hostname

Host Services

You currently have an unpurchased DynDNS Pro Trial service in your shopping cart. You can now create hostnames on our subscriber-only premium domains, enable wildcard subdomains, and access a variety of other benefits.

Please note: if you cancel the DynDNS Pro Trial service, these features will be disabled.

Hostname:

well1888

dyndns.org

Wildcard:

☐ create *.host.dyndns-yourdomain.com alias (for example to use same settings for www.host.dyndns-yourdomain.com)

Service Type:

☒ Host with IP address

☐ WebHop Redirect (URL forwarding service)

☐ Offline Hostname

IP Address:

116.24.233.9

IPv4 or IPv6 address should be specified!

Your current location's IP address is 116.24.233.9

IPv6 Address (optional):

TTL value is 60 seconds. Edit TTL...

Mail Routing:

☐ I have mail server with another name and would like to add MX hostname...

Add To Cart

Figure77

Step7: Now you obtained a Dynamic Domain Name(Figure 78),and can use it in the **DDNS Service Settings**(details: 8.2.3)

Welcome well1888FREE

My Services

My Cart

Log Out

My Account

My Services

Account Settings

Billing

Active Services

Renew Services

Auto Renew Settings

Order History

Billing Profile

Sync Expirations

Shopping Cart

PROCEED TO CHECKOUT

Upgrade Options

Take the first step toward 100% reliable primary DNS management with Dyn Standard DNS. With 10 years of industry leading uptime, why risk downtime with anyone else? Pricing starts at just \$29.95 per year and you can get started today!

DynDNS Pro Trial

(14 days)

remove

\$0.00

Dynamic DNS Hosts

well1888.dyndns.org

-

remove

\$0.00

Order Total: \$0.00

Discount:

Use Coupon

Contribute to DynCares, Dyn's foundation work.

\$5.00

Add

PROCEED TO CHECKOUT

Figure78

2.For DDNS which is applied successfully, you can fill in the IP CAMERA. When set successfully, the status of IP will be shown as blows:

DDNS	
DDNS Provider	dyndns My Account
Account	well1888
Password	*****
Dynamic Domain Name	well1888.dyndns.org
Status	Online http://well1888.dyndns.org:8999

Figure79

3、How to set DDNS on line?

The first way: Menu "start"- "run"—> Input CMD, Clink "enter". It can check DDNS Statas via. As shown below:

```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping well1888.dyndns.org:8999

Pinging reotestldyndns.org:8999 [121.10.40.146] with 32 bytes of data:

Reply from 121.10.40.146: bytes=32 time=5ms TTL=58
Reply from 121.10.40.146: bytes=32 time=6ms TTL=58
Reply from 121.10.40.146: bytes=32 time=7ms TTL=58
Reply from 121.10.40.146: bytes=32 time=5ms TTL=58

Ping statistics for 121.10.40.146:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 5ms, Maximum = 7ms, Average = 5ms

C:\Documents and Settings\Administrator>
```

Figure80

Through the PING command, this dynamic domain name can be back in the network response information. It proves that the domain name has been online.

If the domain name update not success! Possible reasons: (1) DDNS parameter is not correct. (2) may cause: DNS address configuration is wrong.

9.2 Frequently Asked Questions

- 1) Any question you would meet, please check Network connections firstly..
- 2) Check the working status revealed by the indicators on the network server, hub. exchange and network card. If abnormal, check the network connections.

9.2.1 have forgotten the username and/or password

To reset the administrator username and password, Press and hold down the RESET BUTTON for 5 seconds. Release the power button and the username and password,will be reset back to the factory default administrator username and password.

Default administrator username: **admin**

Default administrator password: **admin**

9.2.2 IP Address configuration

Check whether IP address of the IP Camera server shares the same subnet as your work station: Click My Computer > Control Panel>Network & Dial-up Connections > LAN > Attributes >Internet Protocols (TCP/IP), and check IP Address and Subnet Mask. Make sure they are in the same subnet when configuring IP Camera IP address manually. Unable to access IP Camera via web browser.

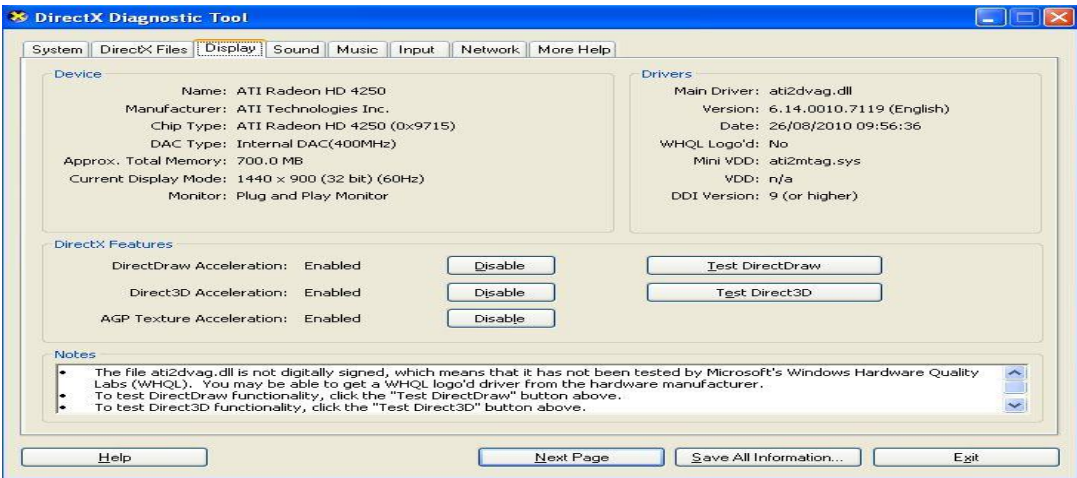
9.2.3 address manually. Unable to access IP Camera via web browser

address manually. Unable to access IP Camera via web browser properly. If you're running any firewall software, make sure it's allowing inbound connections to port 80,Also, if you happen to be using a cable/DSL router, make sure you have set up port forwarding properly. (consult your router's documentation for more information) .If none of these seem to be the problem, it's also possible that your ISP is blocking inbound connections to port 8001 –many IPSs have done this because of internet worms such as Code Red, If this is the case, you will have to setup your.

9.2.4 No pictures show

It has four reasons Images of the abnormal factors:

- 1、 If its not use Directx function and lead to not normal to display the color image.Please install DirectX and open the start menu then input the command.



Picture 120

- ※ You use the DirectX function and it will expedite the DirectDraw,Direct3D and AGP, if it cannot ,maybe the connect issues or hardware not read it.
 - 2.The issues of hardware, can't support the card ,expedite image.
 - 3.The antivirus software will influence the network, it will be stoped or closed.If you install fireproof software please close it and try again.
 - 4. ActiveX controller is not installed correctly
- If its not image on the first time to use, and will display to the user through the ActiveX.If its can not display of the image, maybe it fail of install, about this issues, please follow as:
- 1) Install "IP Camera Tool", ActiveX control at the same time.
 - 2) Please install ActiveX control and keep the security settings for IE browser .

9.2.5 Network bandwidth problems

The image frame rate is subjected to the following factors: 1.network bandwidth; 2. PC performance, network environment and display preference setting (brightness, theme, etc.); 3. the number of visitors (Too many visitors will slow down the image frame rate.); 4. choice of switch or hub (Use a switch for multiple IP Camera Servers rather than a HUB.). The wider of the bandwidth, the better the picture quality it is.

9.2.6 IP camera has connected with internet, why can't visit though IP camera?

- There are some reasons:
- 1 ActiveX controller is not installed correctly
 - 2 The port IPCAM used is blocked by Firewall or Anti-virus software. Please change a port number and try again.

3 Port mapping is not success. You can do port mapping by two ways:

Enter setting page of the router which IPCAM connect with to enable UPnP function.

Enter IPCAM “UPnP Settings” to enable UPnP and make sure the state is “UPnP success”.

If your router has the Virtual Map function. Enter router setting page, add IPCAM’s IP address and port to the Virtual map list.

When use ADSL, the IP is dynamic. You should set DDNS(see more details [8.2.3](#) & [9.1](#)) and also make sure port mapping success.

9.3 The solution for common operation problem

IP camera tool can’t find the camera?

Except of the camera broken

1. Make sure the cable connector no problem, recommend connector (AMP),it is with international standard. Another note, IPCAM’s data transmission channel require higher than computer’s, so maybe the computer can run normally but IPCAM can’t, Please press heavily when making the cable connector.
2. Confirm the power supply normally. First, check whether power indication light turn on or not, If it is on,then check the yellow light on RJ45 Port (power indication light) and green light (network indication light) are on or not.If they are on,so power supply and cable runs normally.
3. Confirm all the firwall and antivirus software are close.The firewall often block unrecognized data so if the firewall is running ,so maybe the IPCAM TOOL can’t find the device.Suggest to close firewall and antivirus software temporarily before searching.

How to solve the camera blank screen?

1. Check if you are using the wrong power adaptor.please use original one.
2. Close antivirus software.

How to solve the camera can’t login by Internet?

1. Check if you set DDNS success or not?
2. Check the current IPCAM’s port number is the same as router’s?They need to keep same.

Can’t view the monitoring picture

1. Reason: can’t connect with network
Solution:Check if the network connect well, exclude cable fault and PC virus cause network fault until can be used between PC and PING.
2. Reason:IP address occupy by other device
Solution: Choose automatic gain
3. Reason: IP address located within different subnet
Solution: Check IPCAM’S ip address and subnet mask address and gateway settings.
4. Reason:Web port has been modified
Solution:contact network administrator to obtain port information.
5. Reason:unknown
Solution:Press reset button to factory default state,then reconnecting.system default to gain ip address automatic,subnet mask is 255.255.255.0

9.4 Default Parameters

- Default network Parameters

IP address: dynamic obtain

Subnet mask:255.255.255.0

Gateway: dynamic obtain

DDNS: Factory provide

- Username and password

Note:

Default administrator username: **admin**

Default administrator password : **admin**

9.5 Technical Parameters

Item		IP CAM
Basic hardware	imaging sensor	1/4" Color CMOS Sensor (OV9715)
	processor	GM8126
	Max resolution	1280 x 720 (720P)
Lens	Lens spec	f:4-9mm, ZOOM 3X
	Lens Type	Glass Lens
	Color mismatched processing	IR-CUT
Audio	Sound	Audio of two way
Domain name	Server	DDNS server
Video	Image Compression	H.264
	Image Frame Rate	30 FPS (720P); 30 FPS (VGA), 30 FPS (QVGA)
	Resolution	1280 x 720 (720P); 640 x 480 (VGA), 320 x 240 (QVGA)
	Flip Mirror Images	vertical / Horizontal
	mode	50Hz, 60Hz
	Video Parameters	Brightness, Contrast
Communication	Ethernet	RJ-45 Interface 10/100Mbps
	Supported Protocol	HTTP/DHCP/IP/TCP/UDP/FTP/SMTP/DDNS/UPnP/ONVIF/RTSP
	Supported Protocol	IEEE 802.11b/g/n
	code rate	720P 30 frames 4Mbps;VGA 15frames 512Kbps;QVGA 8frames 200Kbps;
	Wireless Security	64/128 bit WEP Encryption
Physical parameter	Pan/Tilt Angle	Horizontal :330° Vertical: 90°
	Infrared Light	12 IR LEDs, Night visibility up to 15 Mete
	Product size	95(L) x100(W) x125mm(H)
	Gross Weight	625g/pcs (Color box packing size:196x165x123mm)
	Net Weight	306.7g/pcs (only product)
Power	Specification	DC 5V/2.5A 1.8 Meter
	Power Consumption	8Watts
Environment	Operation Temperature	0° ~ 55° C (14° F~122° F)
	Operation Humidity	20% ~ 85% non-condensing Moisture
	Storage Temper	-10° C ~ 60° (14° F ~140° F)
	Storage Humidity	0% ~ 90% non-condensing Moisture
PC System Requirements	CPU	2.0GHZ or above (suggested 3.0GHz)
	Memory Size	512MB or above (suggested 1.0GB)
	Display card	64M or above
	Supported OS	Microsoft Windows XP/Vista/Windows7
	Browser	Internet Explorer 6.0 and above or compatible browser
Mobilephone browser	IPHONE/IPAD	Search "Viewworld" from App Store and install it
	Android	Install "CamView.apk" from CD
Certificate	CE, FCC, RoHS	

