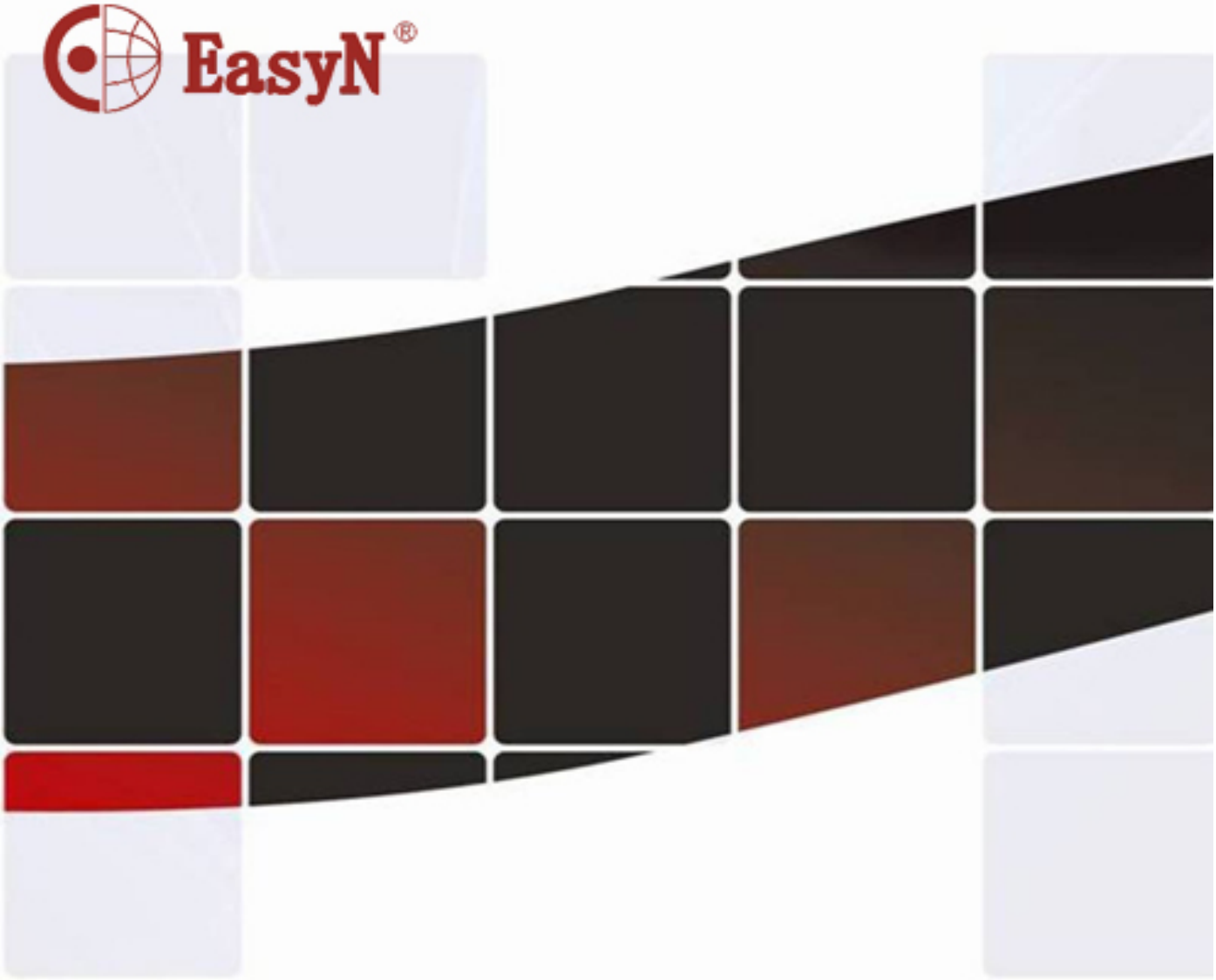


H6 series IP Camera user Manual

MH6E-E-A2

FORWORD

This series product is integrated webcam focusing on network video monitoring, including wired box IP camera, wireless box IP camera, wired IR dome camera, wired waterproof IR IP camera, etc. The media processor of camera uses high-ability chip to realize audio/video capture, compression and transmission, the standard Motion-JPEG coding algorithm can confirm the clear and smooth effect of video transmission. The camera supports user remote-real-time monitoring through super client software, system client platform and IE browser, etc.

This series IP camera can be used for remote monitoring locations, such as enterprises, chain stores, factories and homes, etc. It is simple pick-up and easy operation.

Please confirm the items to be complete, if there is lost, please contact seller timely.

ITEMS LIST:

IP camera ---------- 1piece
Bracket (referring to model) ---------- 1piece
Power adapter ---------- 1piece
Certificate---------- 1piece
CD ---------- 1piece
Warranty card---------- 1piece

Instruction:

IP Camera referred is network camera; PC is personal computer; single click means mouse left click; double click means mouse twice left click.

For IP Camera factory settings:

Administrator user: admin; password: no password
LAN IP address: 192.168.1.126; http port: 81

Statement:

The current device may have different version with the sample in this manual, if u can not set up device referring to this manual, please contact provider.

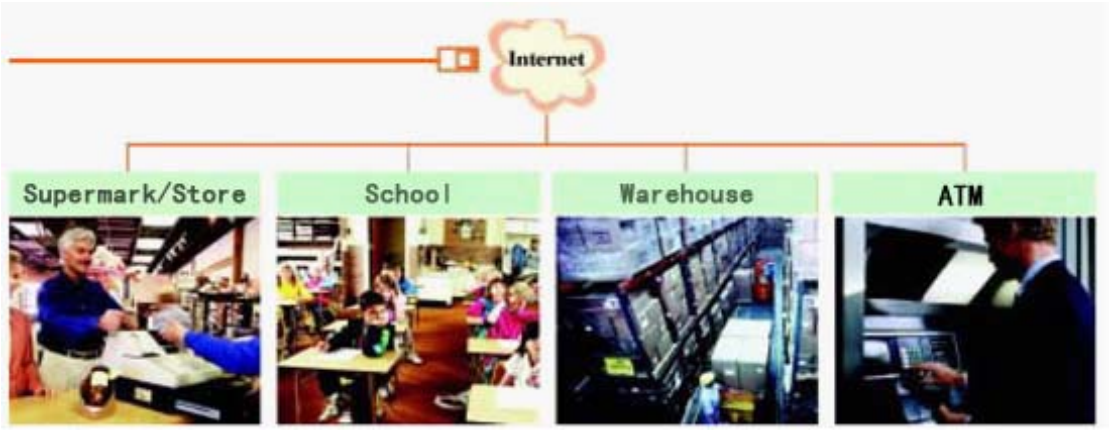
The content will update from time to time, the manufacturer reserves the right without notice.

1 Product overview

IP Camera integrates network function and web service function, it can send video record to anywhere through internet, and we can view real-time video of site via web browser. And it is suitable for many locations, such as large stores, schools, factories and homes, etc.

IPCAM basic function of remote video data transmission is basis on MJPEG hardware compressive technology, the maximum speed of high-quality image transmission in LAN/WAN can reach 25fps.

IPCAM video data transmission is based on TCP/IP protocol, and it has built-in Web server to support Internet Explorer, hence, it is more convenient to manage and maintain device, to remote configure some options, to update versions.



	Please check the product if the items are complete before set-up, if there is some lost, please contact seller.

2 Product feature

- powerful high-speed processor of video protocol
- high sensitivity and definition CMOS sensor
- 0.3 megapixels
- IR night version
- Optimized Motion-JPEG video compression algorithms to achieve narrow bandwidth high-definition image transmission
- multilevel users and password management
- support many browsers（IE browser, Firefox browser, Google browser, etc.）
- support wireless network(WiFi/802.11/b/g/n HT20)
- support dynamic DNS (DDNS)
- support maximum 32G SD card storage, for alarm snapshot and record
- support motion detection
- support two-way audio monitoring
- support snapshot
- support mobile phone view
- support log
- support multiprotocol :HTTP/TCP/IP/UDP/STMP/DDNS/SNTP/DHCP/FTP

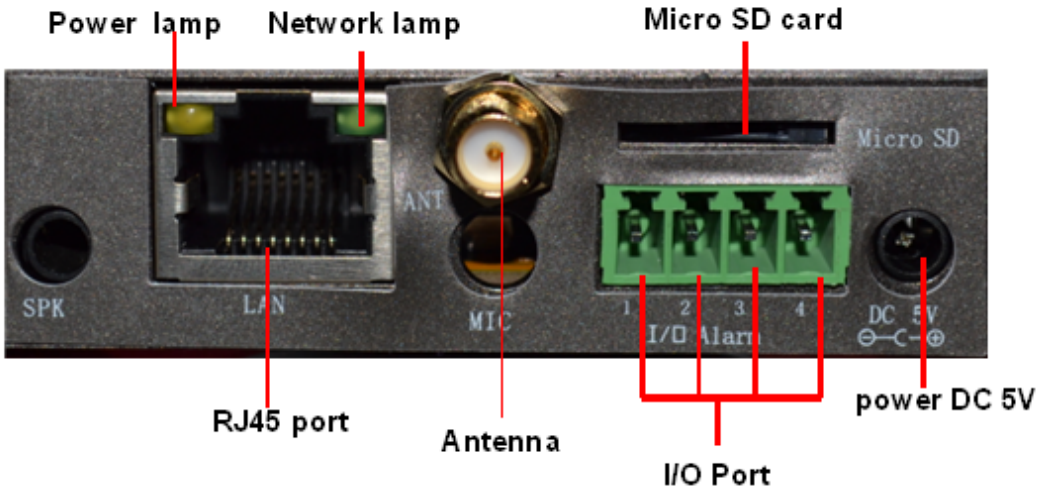
System feature	System security	Three levels account, password, multi-authority management
	Own dynamic IP domain name system (free)	Built-in independent R&D DDNS system, lifetime free proprietary ddns, no need to apply DynDns, no worry about frequent offline problem, quickly connection. For example, http://demo.easyn.hk, the serial number is "demo"
	Mobile phone platform(free)	No need to install software, support IE multi-view, management, phone message on alarm, alarm picture storage functions.
	Superiority	Support computer monitoring, support many smart phone in market, such as Iphone, android, Symbian, etc.
	Mobile phone view	Support Iphone、Windows Mobile、Symbian、Android direct view.
	Local storage	Support maximum 32G SD card memory
Kernel	OS	Embedded Linux OS
	Micro processor	32Bit RSIC Embedded Processor
Video	Compression	H.264 main profile level 3, dual stream
	Signal system	CMOS 0.3 megapixels
	Frame rate	Main stream:1-25fps second stream:1-25fps
	Resolution	VGA(640*480), QVGA(320*240) QQVGA (160*120)
	Image adjustment	Brightness, contrast, can be adjusted
	White balance, BLC	Auto white balance and BLC
Network	Interface	RJ-45 10/100Mb auto-adjusted internet interface
	Protocol	Support TCP/IP, HTTP, ICMP, DHCP, FTP, SMTP, PPPoE, etc
	Wi-Fi	WIFI, 802.11 b/g/n
	Online user	Support 10 users direct connection
	Support IP	Static IP, dynamic IP, PPPOE
Alarm	Input/output	1/1
	Alarm detection	Motion detection, sensitivity configuration
	Alarm notice	Support to upload pictures via Email, FTP and call preset position, and control by GPIO signal, etc.
Certificate	Certification	ISO FCC CE SASO RoHS

3 Device appearance and interface

3.1 Device appearance

Picture 1- device appearance

3.2 Device interface



Picture 2- device interface

Power: connect to external power adapter, standard: DC 5V/2A

RJ 45: network interface standard: 10/100M auto-adjusted internet interface, it can connect many kinds of devices, such as hub, router, and switch, etc.

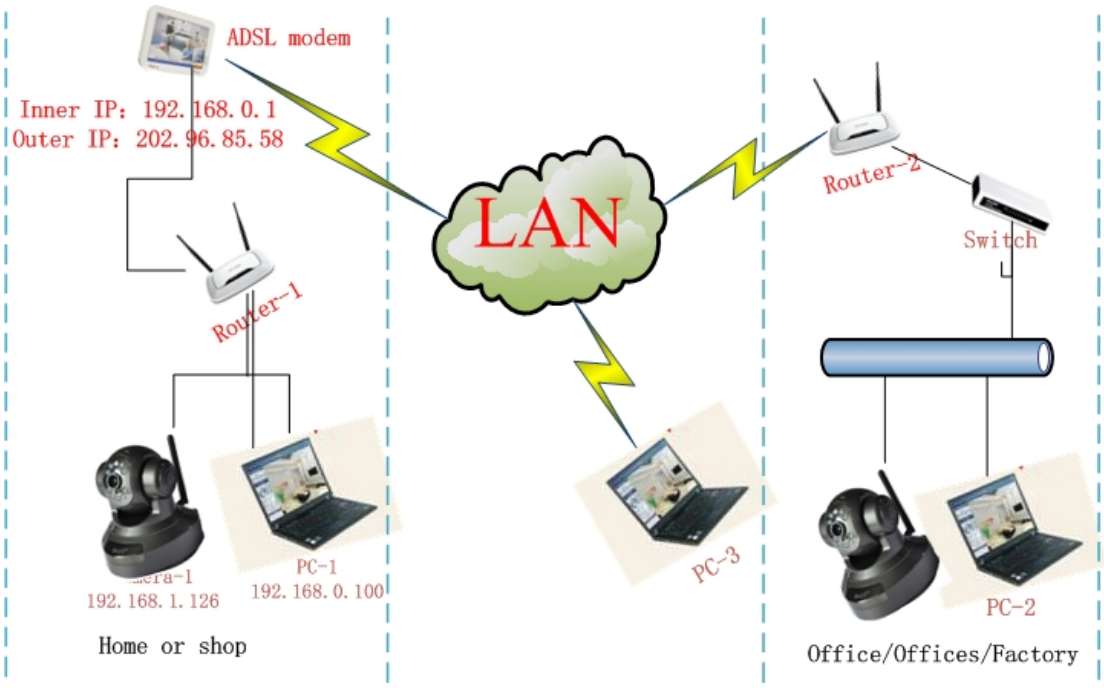
Network lens: lens flickers when network connecting

Power lens: lens on when power on

SD card: support 32G SD memory card

I/O interface: 1 channel alarm input, connect 3 and 4 interfaces (ground, trigger by low electric level); TTL to control output, connect 1 and 2 interfaces (1, 2 short connection).

4. Network connection



Picture 3- network connection scheme

4.1 Connection instruction

Before access IP Camera, first to confirm the network connection and the power supply, to check if the status lens normal. For connection as picture 3:

1) camera-1 and camera-2 is connected to two different LANs
2) the two LANs must connect to internet and have routers connecting through ADSL or optical fiber, etc.
3) computer-3 should be a device connecting to internet

4.2 Access instruction

For accessing camera, in addition to communication links remain open, it also requires a simple settings for camera and network:

1) **computer and camera are in the same LAN**

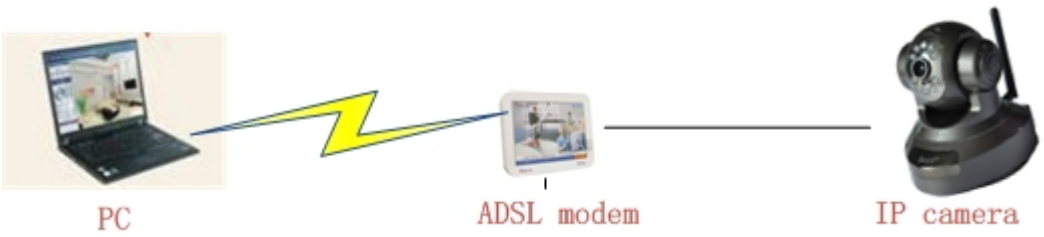
For access IP Camera via LAN, it should be confirmed that the computer and camera in the same subnet, if they are not, then need to configure the IP Camera, for example: in picture 5 camera-1's IP is 192.168.1.126 (located in subnet 192.168.1), PC-1's IP is 192.168.0.100 (located in 192.168.0), on this case, PC-1 can not access IP Camera-1, after changing

IP Camera-1’s IP into 192.168.0.126, it can access;

2) **computer and camera are in different LANs, but both of them can access internet.**

For camera-1 and computer-2 in picture 3, to access camera-1 through computer-2, then need to set step 1) first to confirm computer-1 can access camera-1, then configure router-1 (router-1 should support port forwarding), then computer-2 can apply to access camera-1 via router-1. Normally, computer-2 only can send message to router-1, so it can not access camera-1 without configuration of router-1.

4.3 Connect network via adsl



PPPoE&3G Settings

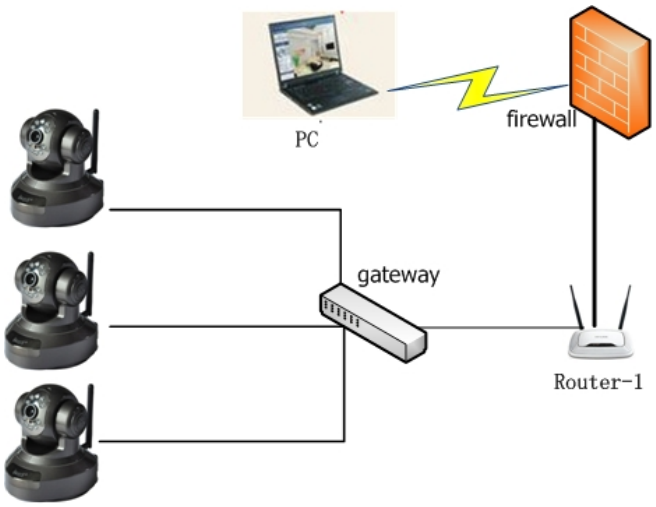
Configuration	
Enable PPPoE:	Yes ○NO ◉
User Name	
Password	
MTU(128~1492)	1412
Connection State:	Disable
Save Refresh	
Status	
IP Address	192.168.2.126
Primary DNS server:	202.96.128.86
Secondary DNS server:	admin
Refresh	
3G	
IP Address	connect

- Connect device to computer via cable.
- Configure device basic settings through IP Camera tool (details refer to: 5.1 IPcamera tool).
- Login device as administrator, access PPPOE setting page to input account user and password.
- Meanwhile to enable DDNS server function then click **<set>** to restart

device.(details refer to: 5.6 ddns settings)

- ❖ Connect device to internet via ADSL, then it can be accessed via ddns through WAN.

4. 4 Connect network via router



1) Connect device to LAN through cable

2) Configure device through IPcam tool. (Details refer to: 5.1 IPcamera tool)

3) Access device as administrator.

4) Access ddns setting page to enable DDNS service then click **<set>** to restart device. (Details refer to: 5.6 ddns settings)

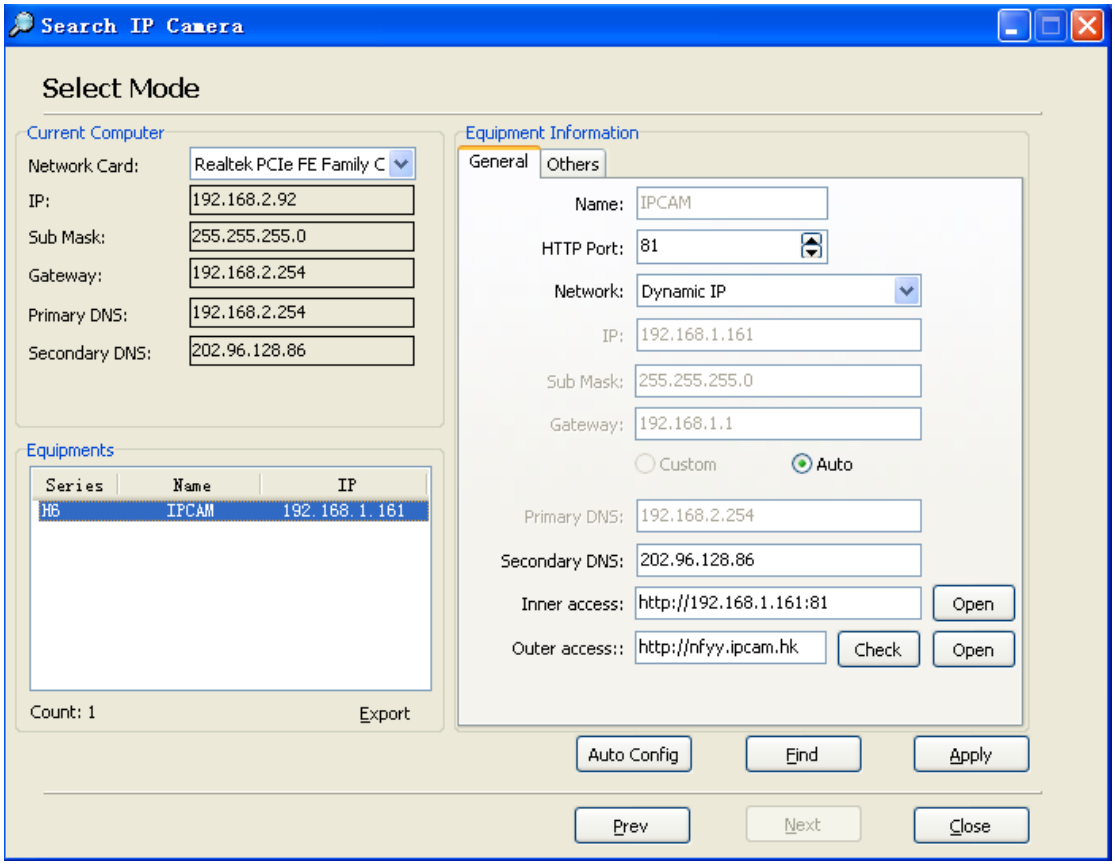
5) Then it can be accessed through internet.

5 Software operation

5.1 IP camera tool

In picture 3, camera-1's IP is not in the same subnet with computer-1, it can not be accessed, to run Devfind.exe 

in CD, click search button then click-on searched IP Camera, then we can configure the settings, interface as picture 4.



Picture 4- LAN configuration interface

Notice: device factory set IP: 192.168.1.126, port 81

Detail configuration:

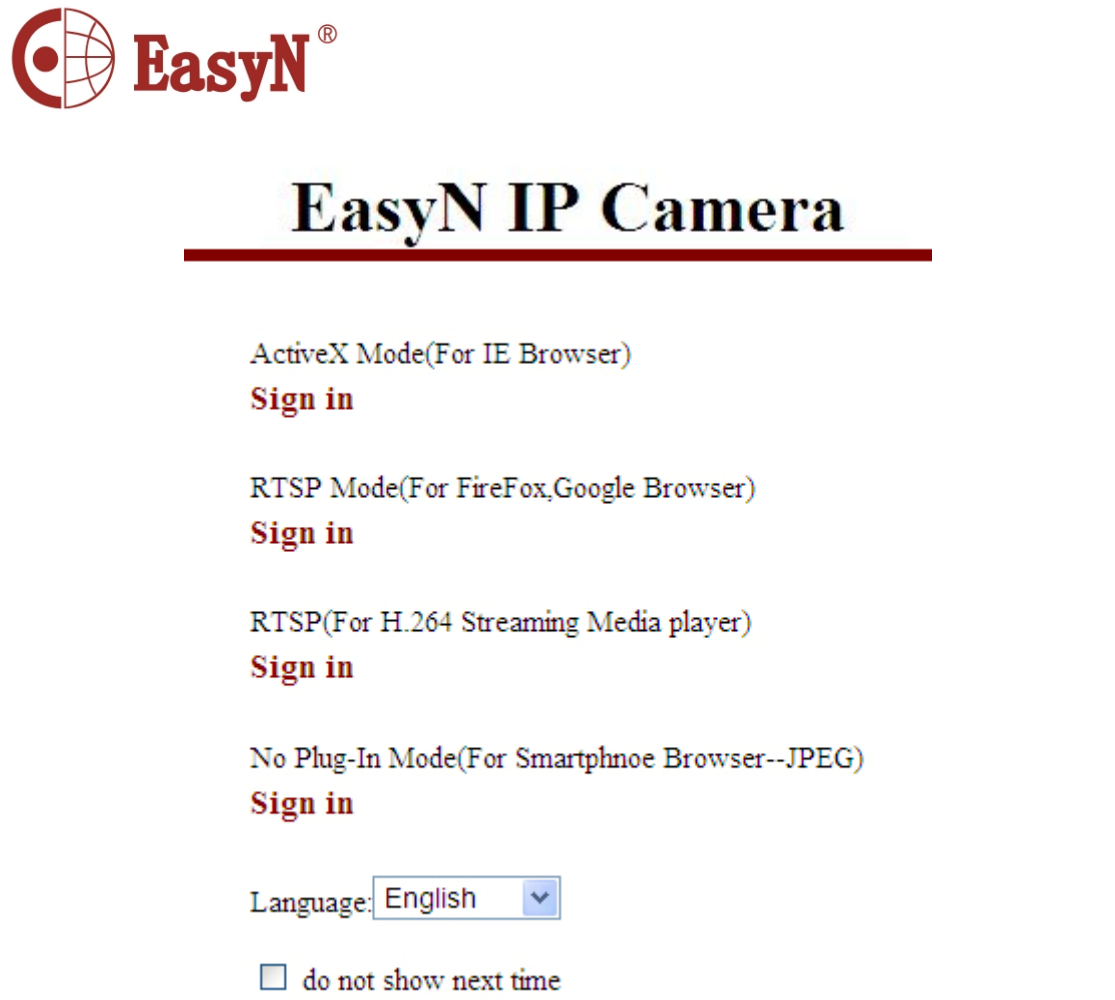
- Please carefully check current computer information on right down side of interface, it lists information about computer-1's IP configuration, if there are more network adapters in computer, please select the right network that camera-1 working on.
- IP address: configure IP address, it must confirm to be the same subnet within PC.
- Mask: default mask: 255.255.255.0
- Gateway: confirm the PC within the same gateway
- DNS: DNS provider's IP address
- Port: device provides HTTP service port, default is 81
- User and password: default administrator account user: admin, no password

5.2 Login ip camera

We can directly access IPCAM through **IP Camera Search Tool** or **IE**.

1) Double click option IE in device list to open login page

2) Directly access via IE by inputting address on address blank of IE browser. As below:



Picture 5 login interface

After installation, we can access video view page, as picture 7:

5. 3 User operation

If the pilot is , it means the device is connecting network

Click to 4-picture view; click to 9-picture view

Record: click to manually record

Snapshot: click to snapshoot picture

Listen: click , it should turn , then speak to camera, the sound can be heard from computer terminal, click again to close listen function

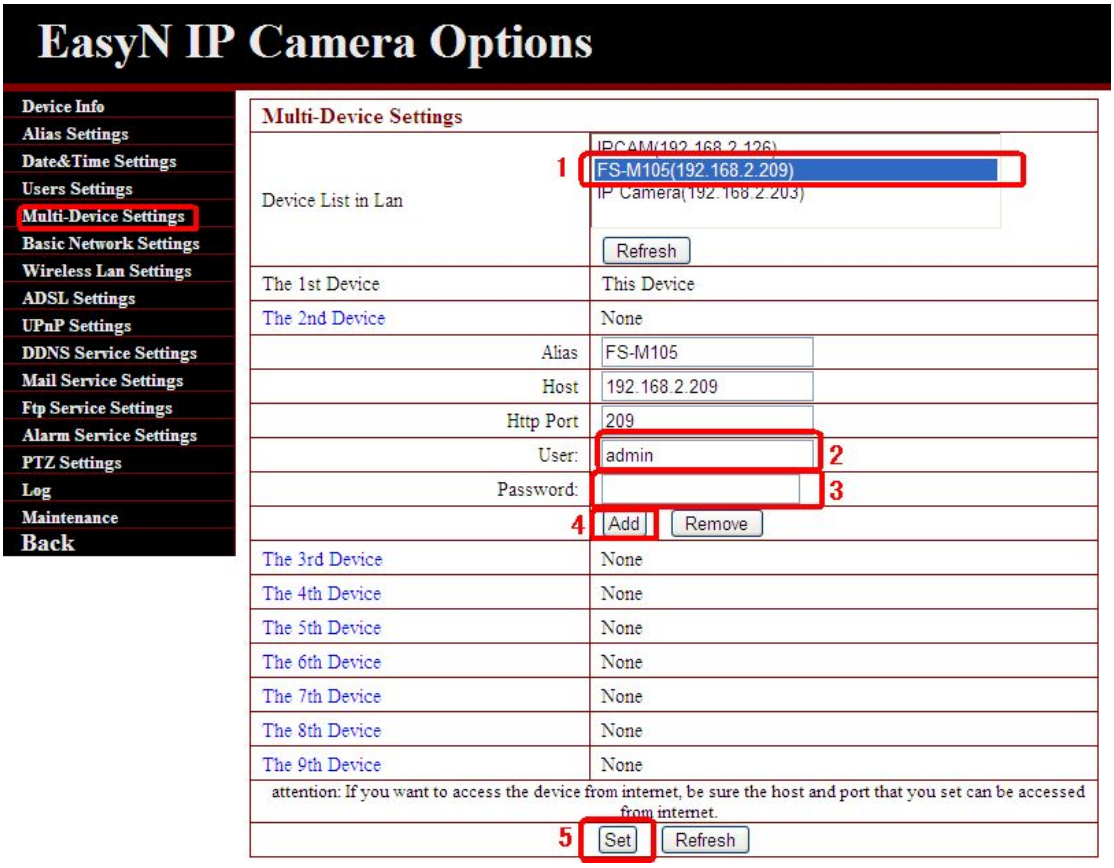
Talk: click , it turns , talk to camera (through headset connecting computer), then we can hear the talking around camera. Click again to close talk function.

5.4 Multidevice configuration

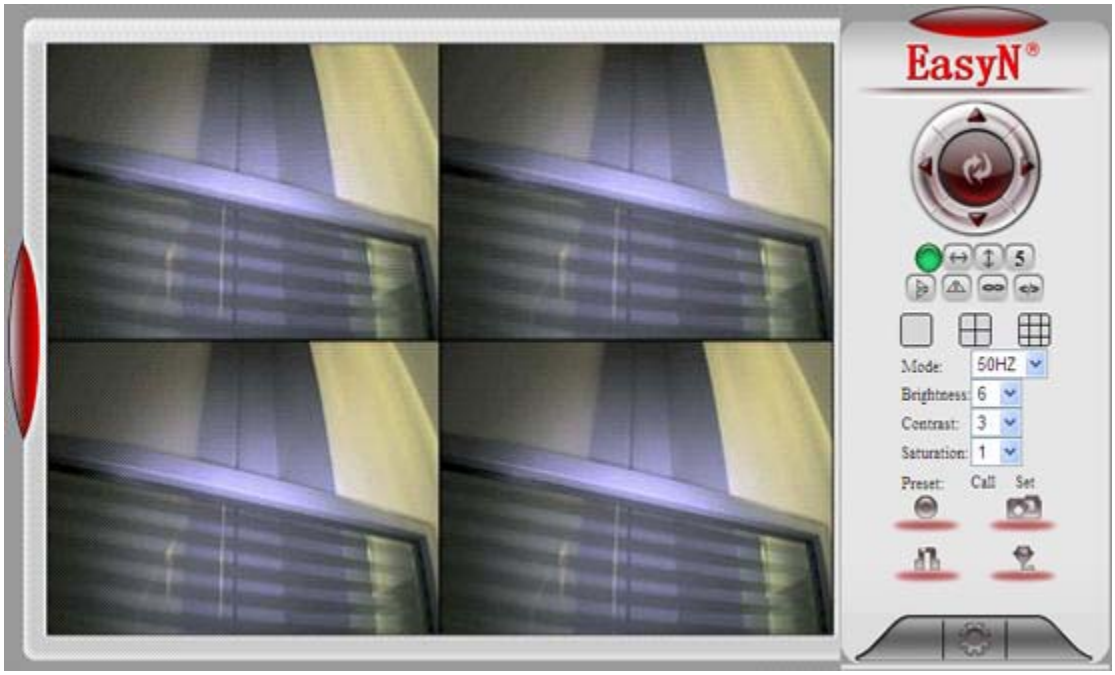
On multi-device configuration page, we can see all devices in the LAN. The first device is default device. We can add more devices listing in the device list. It can support 9 pieces of devices on line at the same time for embedded system. Click "the second channel device" then double

click on device option, name, host address and Http port of “current LAN devices list” , the information will be auto wrote in, then correctly input access user name and password then click “add”. Repeat that to add more devices.

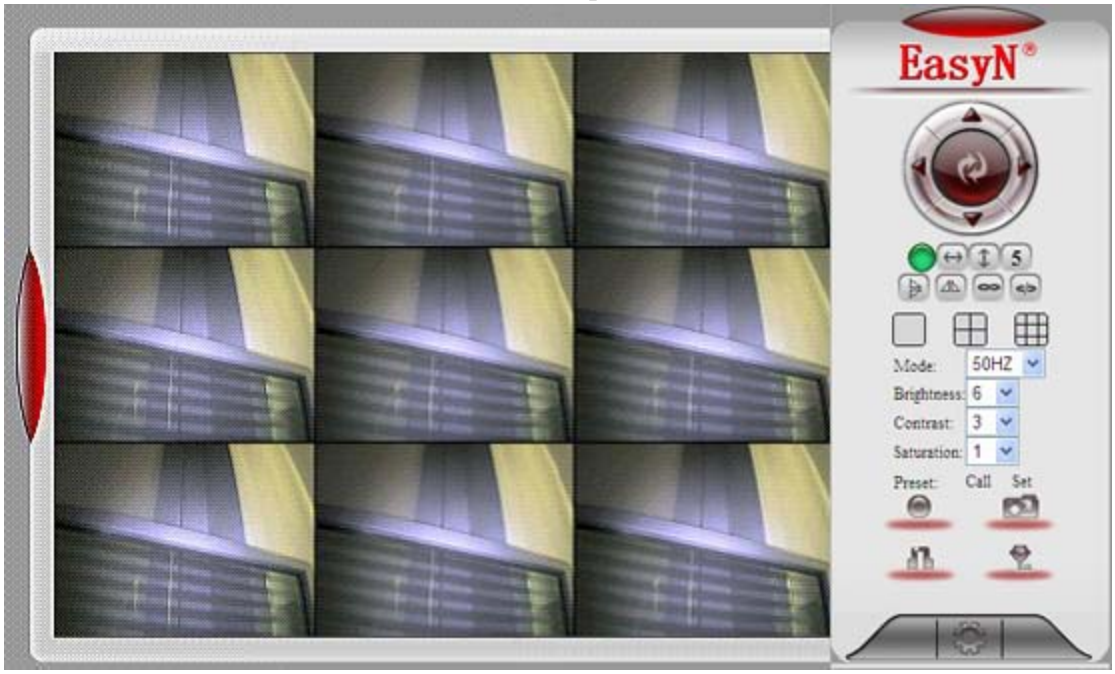
Notice: do not forget to click save for configuration



Picture 7- multi-view configuration



Picture 8- 4-picutre



Picture 9- 9-picture

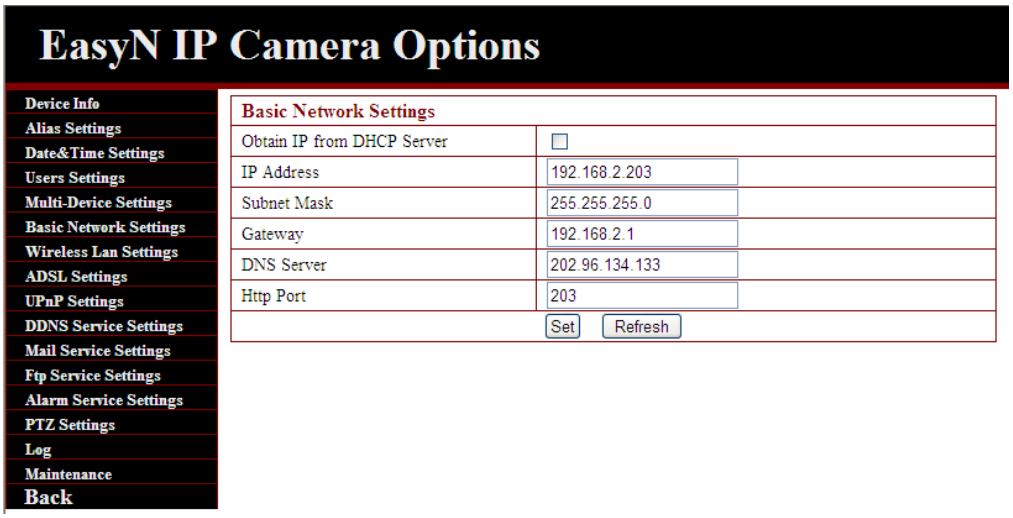
5.5 Network configuration

❖ **Basic network configuration**

IP address configuration: manually modify IP, mask, gateway, DNS, etc.

Http port: normally, the default port is 81. If the internet provider block the port, we can set others(range: from 0 to 65535), such as 8080, 85,

8888, etc.

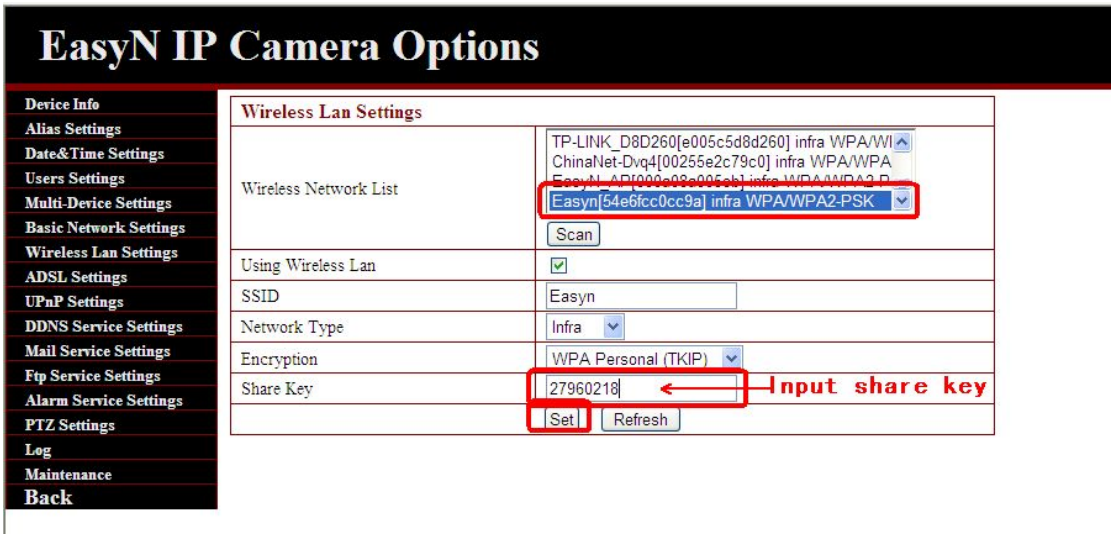


Picture 10- network configuration

❖ **Wifi configuration**

To enable WIFI configuration referring to picture 11, click "Search" button, then will pop up a page of searched wireless network, select the right wireless network, then all parameter of the wireless network will auto write into the parameter blanks such as shown in picture 11 (such as SSID, encryption, etc.), then input password and check it is ok. After configuration, click "Save & restart" button;

Notice: the wireless function should be enabled on wired condition



Picture 12- WIFI configuration

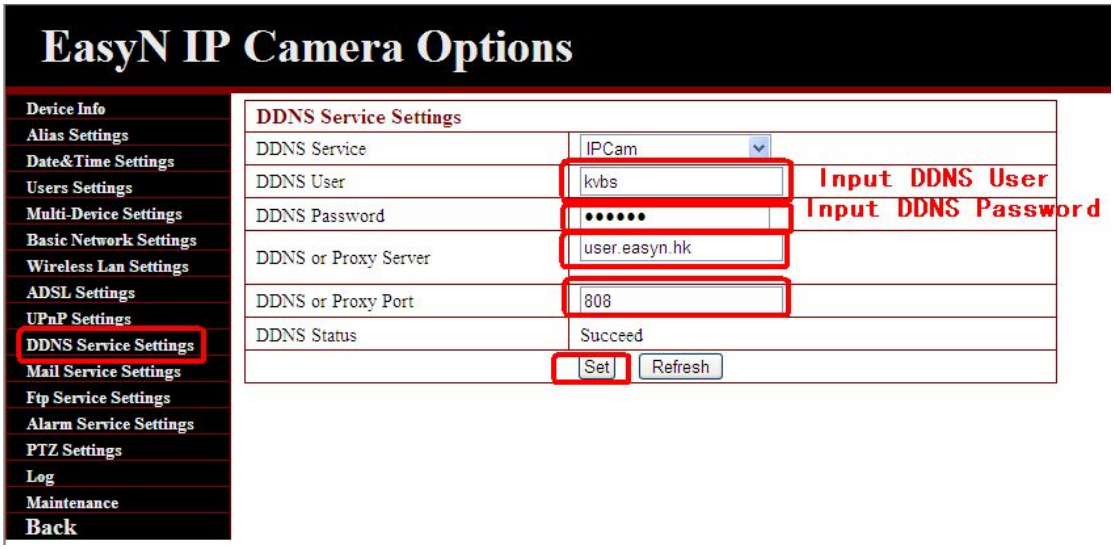
5.6 DDNS Settings

In picture 3, router-1 acquire external IP address through ADSL, and the IP address is dynamic, when we want to access device from internet, we

do not know what is the IP address, hence, we should acquire the address via dynamic domain name server in internet, the camera-1 send a message to dynamic domain name server(ddns) from time to time, then the ddns can analyze the external IP address of the router-1 camera-1 connected, we can acquire the IP address of the server through dynamic domain name. Actually, the dynamic domain name stands for dynamic IP address, if we can not access device through IP address, the dynamic domain name is not available.

❖ Manufacturer DDNS

The manufacturer has set up ddns in internet, and provide a dynamic domain name for each device, and the settings has been done when the device produced, such as shown in picture 13. After set remote configuration, input the dynamic domain name in browser address blank, then the address will be analyzed as the right IP address of device, and start to connect device.



Picture 13- DDNS configuration

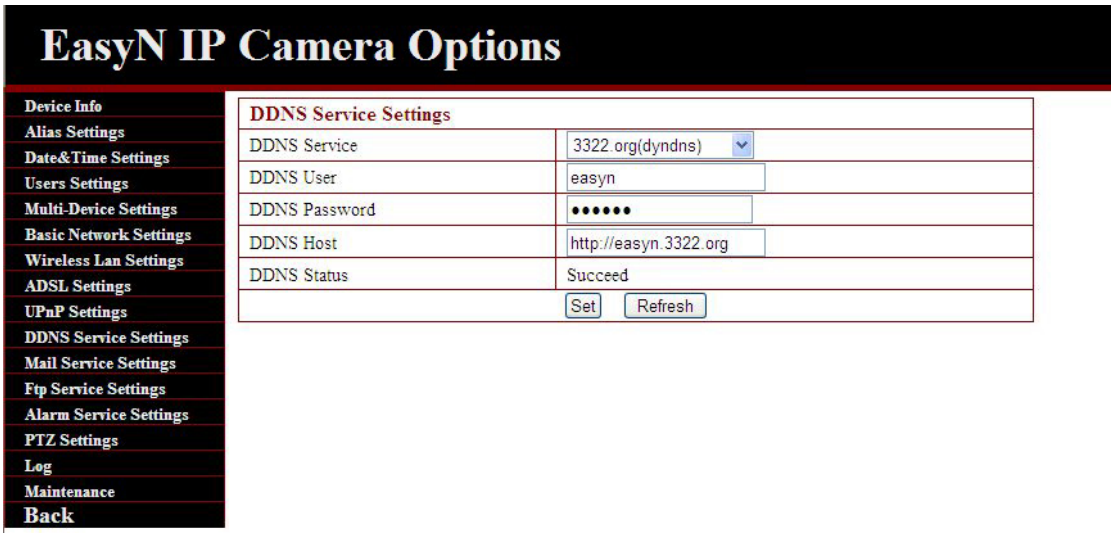
Notice: the dynamic domain name uses forwarding mode to access device, it auto changes into the IP address and port relating to device.
Notice 2: on it can access device via IP address but not dynamic domain name condition, please check the DNS configuration whether it is available and confirm the configuration is attaching with LAN configuration in computer.

❖ Third party ddns access

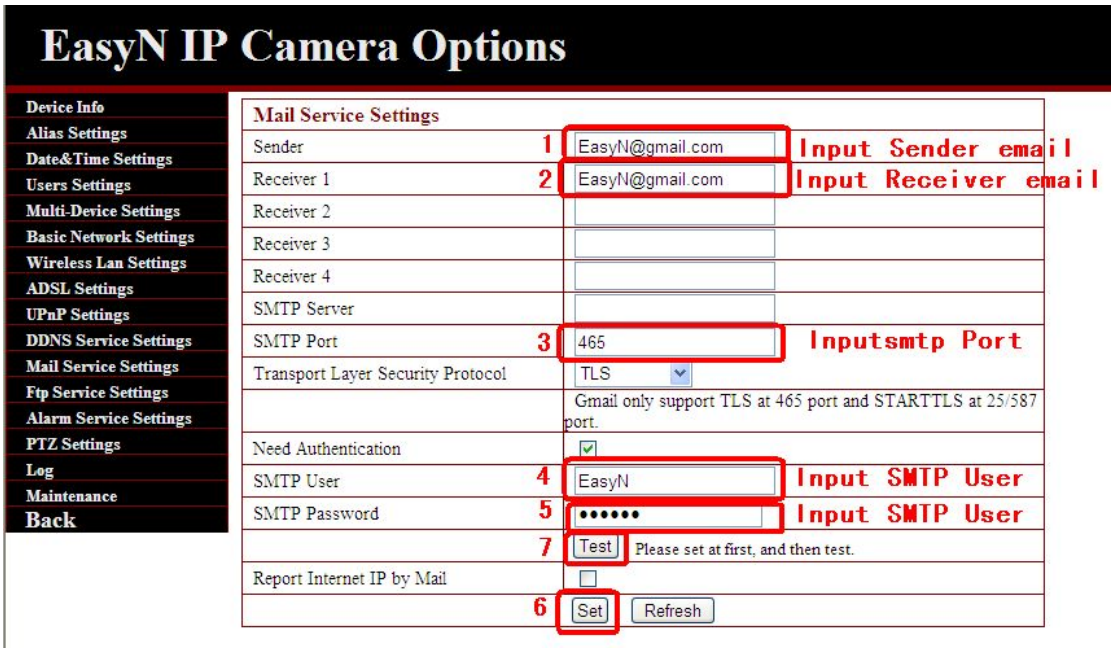
If it is some reason that can not use the manufacturer ddns, we also can apply third party ddns as instead, such as www.3322.org domain system, login this kind of web to apply a free dynamic domain name, then input information as shown in picture 14, after save, then we can access with

the dynamic domain name.

Notice: usually, third party ddns uses analyzing mode to access device, it will keep the link still after inputting on browser, if device port is not 80, then need to add a”:” then the port behind dynamic domain name, such as: *http://ipcam.3322.org:81*



5.7 Email service settings



Picture 14- email service configuration

In picture 14, the configured content is must, if that information is not correct, then the configuration is failed.

Notice: before configuring this page, please confirm the email

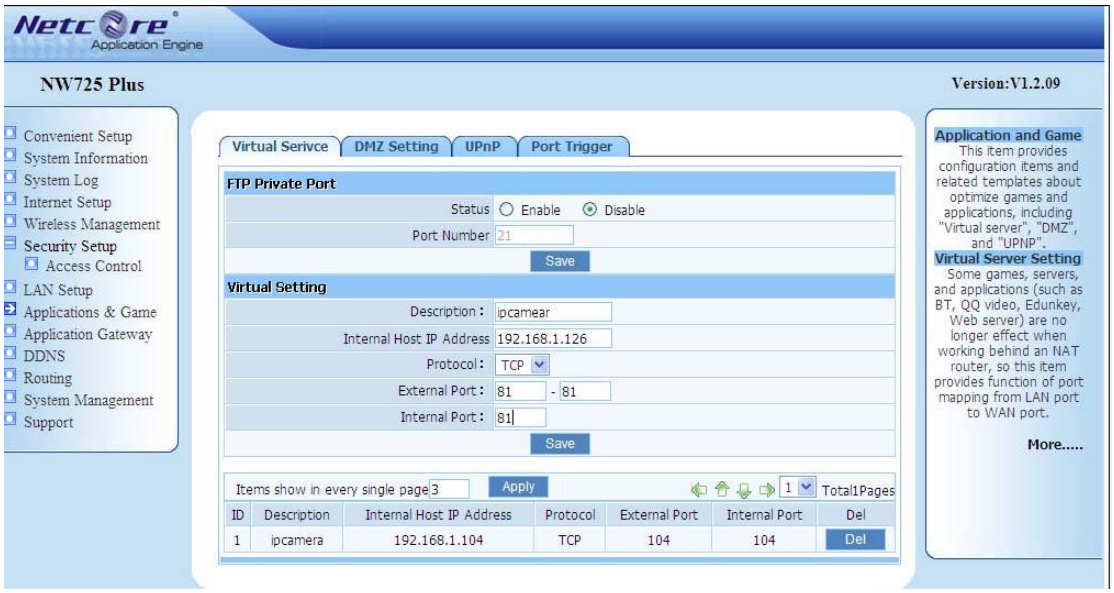
information is available.

- ❖ SMTP server: input the SMTP server of email server
- ❖ Sender address: input email address to send email
- ❖ Receiver address: input email address to receive snapshots and IP
- ❖ address. It can support 4 receivers.

6 Port forwarding

According to picture 3, we can access camera-1 through computer-1, in order to enable computers in internet(such as computer-2, computer-3) to access camera-1, it need to set the camera exposing in internet through configuring port forwarding in router-1 to set the camera to be available to access internet.

Access router configuration interface through computer-1, for different model of router it has different interfaces. Hence the configuration ways are some different, please refer to router's manual. For most routers, we can find option as virtual server settings, input camera-1 IP address and port. As below:



Notice: for more IP Camera devices, it needs to set port forwarding for each one, and as distinguishable, we should set different IP and port for each device. If the port is not 80, we should access device by adding a ":" and device port behind the IP address, such as:http://219.134.170.92:81

7 Appendix

7.1 Familiar problem

❖ **What could we do when forgot the login password?**

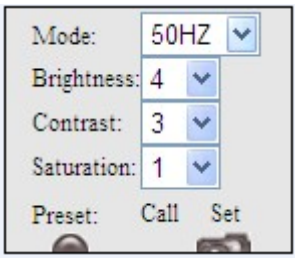
On power condition, press reset button (on the device bottom) till 10 seconds, then device is set to factory settings, including administrator user and password.

Default user: **admin**

Default password: no password

❖ What could we do when the view screen is white?

Please adjust video parameters of camera (mode, brightness, contrast, saturation, etc.).



If the back light is too strong, please adjust the monitoring angle

❖ Why the camera finder can not search device?

Please check whether the device and camera finder are in the same local network; and cable or power problem will cause such problem【 normally, power lens (yellow) is always on, network lens (green) is always flashing】; and the firewall will block the software to run too.

❖ Why the device can not access from remote location?

1) Does it can access via LAN? if it is available, then check the access user and password;

2) Check the port forwarding in router;

3) For remote access, the device should be set as a virtual server to wide area network; does the router provide an external IP for port forwarding?

7.2 Warranty

a) Free warranty one year. In free warranty time, to enjoy free warranty service with warranty card (not for man-made damage). Over warranty time, it needs to pay for maintain cost.

b) For improper use caused or other reason or no warranty problem,

it enjoys free maintain but paying for parts exchange.

c) Send product with warranty card to manufacturer or seller for maintain.

d) Privately open device shell and tear up seal affixed label are not in warranty permission.

e) Device with modification or extra-installation function is not acceptable.

The following circumstances without warranty

a) Normal wear and tear caused periodic check, maintains or parts exchange.

b) Damage caused by fall, squeezing, man-made flooding, damp and other man-made reasons.

c) Damage caused by disaster or human-unstoppable reasons.

d) Device maintained by non-authorized repair centers.

About above listed, modifying refers to relating rules.

7.3 Warranty card

Please cut the below form for information and return with device

Product model		
Manufacture date		
Client agency		
User name		
User address		
Contact (TEL/mobile phone)		
maintain time	Problem details	result
note:		

Please cut along the dotted line

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

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

This device must be installed and operated with a minimum distance of 20 cm between the radiator and user body.