

IP Camera User Manual



For further help, please visit www.zmodo.com

Preface:

Dear customer, thank you for choosing to purchase and use our IP camera products. This series of IP monitoring product is the integrated IP network camera which is researched for network video surveillance monitoring. The series includes network bullet camera, network IR bullet camera, and network dome camera, etc. High performance, monolithic SOC chip is utilized as media processor which integrates video capture, compress and transmission. Standard H.264 main profile encoding algorithm ensures more clear and smooth video transmission. Embedded web server allows user to view real-time footage and remote control via IE browser. This series of IP camera is well suited for home and small business, as well as any situation which needs to apply remote network transmission and remote network control. It's easy to install and operate.

Statement:

The content in this manual may be different from the product version you are using. If you met any problem which can't be solved according to this manual, please contact our tech-support or product supplier.

The content will be updated time to time. Our company reserves the right to update without notice.

Intended Reader:

This manual is mainly suitable for below kinds of engineer:

System planner

Onsite tech-support and maintenance personnel

Administrator for system installation, configuration and maintenance

Users for business operation on product functions

Terms in this manual:

IP Camera or IPC in this manual means network camera including network bullet camera, network dome camera, network PT camera, and network IR camera, etc.

Click: Click with left button of mouse.

Double Click: Double click with left button of mouse.

Right click: Right click with right button of mouse.

The[]symbol indicates the windows name, menu name, or data table; such as [Download Address].

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1 Product Introduction

1.1 Brief Introduction

This product is digitally monitored with a traditional analog camera and web video service. Efficient Linux system, code in flash and small size that's reliable and steady.



Figure 1-1 Network IP Camera



Figure 1-2 Camera Cable Ports

1.2 Main Features

- * The highest pixels for 30 W, 2M frame rate, real-time image
- * Advanced video compression standard, high compression rate and flexible operation
- * 1/4" CMOS sensor, fluid motion pics
- * Automatic snapshot in all circumstance
- * One key rescue system, dual stream and mobile phone live monitor
- * Build-in WEB browser supports IE access
- * Support multiple user simultaneously, multi-level management ensures high system security.
- * Support motion detection alarm (area, sensitivity configurable) and e-mail alert function
- * Support online system upgrade by remote control
- * Automatic recovery function when the system temporarily loses internet connection.
- * Support PPPOE, DDNS, LAN, and Internet (ADSL, Cable Modem)

1.3 Installation Statement

During installation and operation, please pay attention to the following items:
1. When you received the package product, please check the equipment and accessories according to the packing list inside the packing case.

2. Before installation please carefully read this user manual.
 3. When you install the IP camera, please close the power source of all the related devices.
 4. Check the voltage of the power source, to prevent device damage by mismatching of voltage.
- Installation environment: please do not use equipment under high humidity or temperature. Make sure there is good ventilation and no blocking of air-vent. Place it on a flat floor. Do not install it under violent vibration.

1.4 Network IP Camera Connection

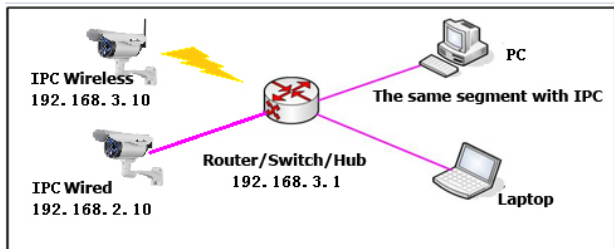


Figure 1-3 Device Connection of Network IP Camera

Step one: Connect the IP Camera to your router or NVR using a network LAN cable.

Step two: Connect the related power adapter to the IP Camera so that the camera powers on.

Step three: Insert the Software CD into the PC computer that is connected to the same local network as the IP Camera.

Note: It can also apply the way of IP Camera directly connecting with PC.

Note: When using IE browser to visit IP Camera, the IP of local PC should be in the same segment with the IP of the IPC.

2 Log in

When using IE (Internet Explorer) to visit IP camera for the first time, you have to set the security level for ActiveX controls.

Set security level: Open Internet Explorer, enter the IE Tools menu [Tools/Internet Options/Security Settings/Custom Level...], Enable the "Active X Controls and Plugins" and set the IP address of the IP Camera as "Trusted sites".

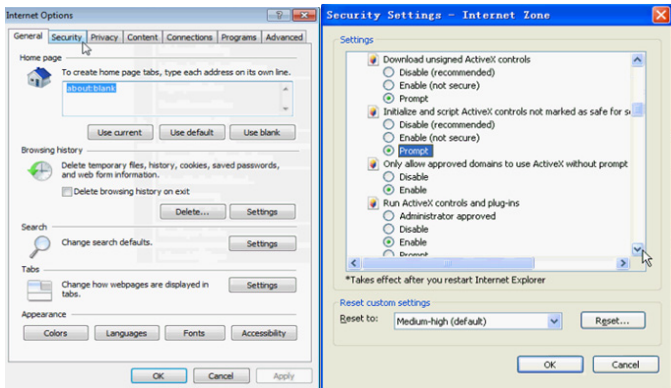


Figure 2-1 Security Level Setting

Install ActiveX and plugins: Type the network camera IP address in the IE browser address bar, and press [Enter] to pop out dialog box of install ActiveX. Click [OK] to install.

Log in and Preview: In Login screen, type in network camera username, password, choosing language and click [OK] to enter the video preview interface.

Default:

IP Address: 192.168.0.100

UserName: admin Password: 111111

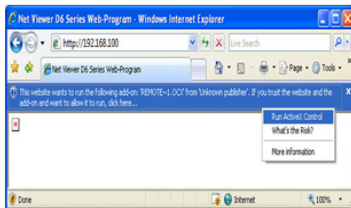


Figure 2-2 Safety Dialog box



Figure 2-3 Login Interface

3 Preview



Figure 3-1 Real-time Preview Interface

In the real-time preview interface, the user can control the video channel switch, record, snapshot, full screen preview, image process, image color, direction configuration, and PTZ control.





[Video Channel] Double Click the channel number to open the video channel to view image, right click and choose "Close" to close the video channel.

[Video Stream] Right Click the channel number to choose stream type(main stream or sub stream)

[Record] Right click the image, choose "record" check to start record, remove "record" check to stop record, the video is kept in file catalogue set by video capture.

[Capture] Right click the image, choose "capture" to capture photos, the capture photo is kept in catalog set by video capture.

[Full screen preview] Double click the image to full screen preview, double click once again to go back to the original image size.

[Image process] The object of image processing includes brightness , contrast , saturation  , use mouse to drag the slider to set these items, as figure 3-2. The "Reset" button to recover the default configuration.

[Color and Direction Configuration] Image color can be black and white or color, the image can be mirrored or reversed as figure 3-3, NSTC or PAL also can be set in this section.

[PTZ control] PTZ control to Upward, downward, left, right, the lens operation includes vary magnification, vary focus, vary iris, etc. as shown in figure 3-4.

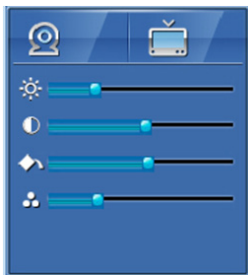



Figure 3-2
Image parameter adjustment



Figure 3-3
Color and direction control



Figure 3-4
PTZ control

[System parameter setting] Click this button  to enter into system parameter setting interface.

[Reboot device] Click this button  to reboot the device.

4 System Setting

4.1 Local Configuration

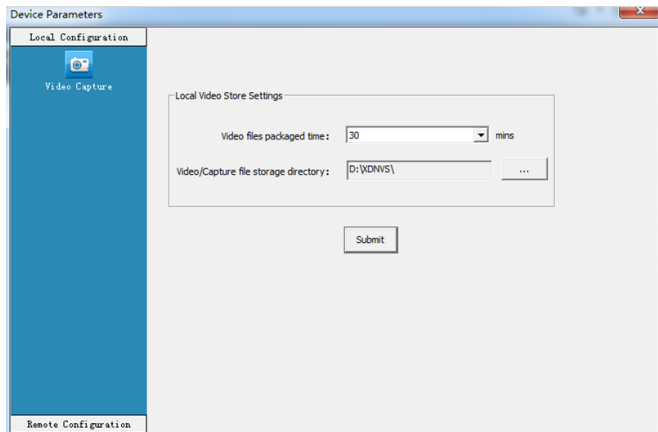


Figure 4-1 Local Configuration

[Video files Packing time] Set the file size record time.

[Video/Captured file Storage path] Set file path for local recording and capture. After configuration is finished, click [Submit] button, the configuration will take effect immediately.

4.2 Remote configuration

4.2.1 Video Setting

·On Screen Display (OSD) control

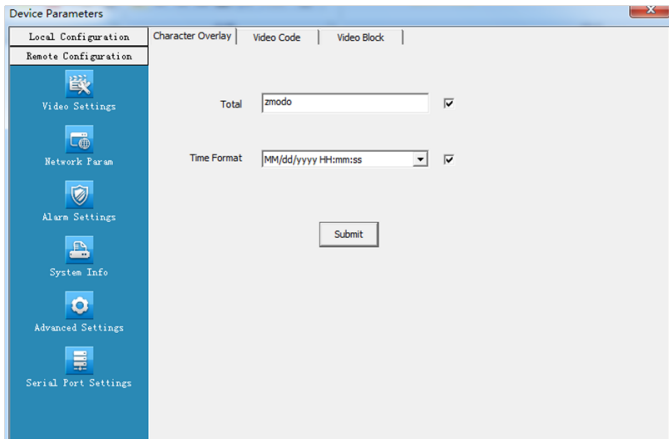


Figure 4-2 OSD control setting

[Title] Name of video channel will be shown on the up left of the image, maximum 16 characters. Click the check box and it will display OSD. Un-check the check box, and it will not display the title.

[Time format] You can choose whether to display title , date and time, and also you can choose the time format.

After setting the date and time, click the [Submit] button, the setting will take effect immediately.

Video

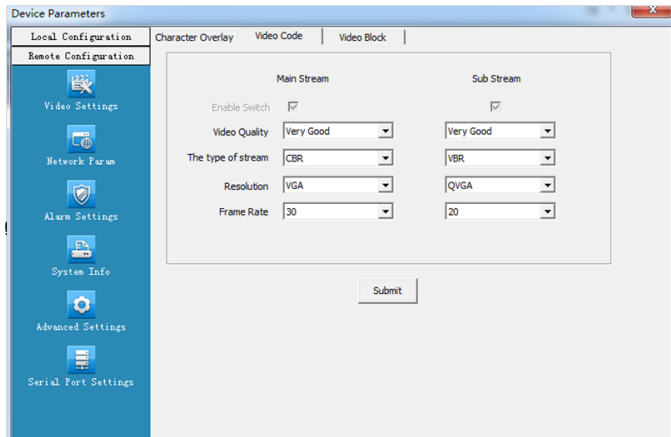


Figure 4-3 Video coding setting

[Video Quality] The user can choose the appropriate desired image quality: Best, Very Good, Good, Common, Not Good.

[Stream Type] Two types: CBR(Constant bit rate)and VBR(Variable bit rate) to choose, CBR enables constant bit rate coding, VBR enables variable bit rate coding.

[Resolution] Sets the image resolution: main stream VGA(640×480=307200 pixel), sub stream QVGA(320×240=76800 pixels).

[Frame rate] set coding frame rate per second. Under not satisfying network situation, you can reduce the frame rate to control the coding bit rate, to ensure the smoothness and continuity of the moving footage.

After setting parameters, click the [Submit] button, the setting will take effect immediately.

Video shield

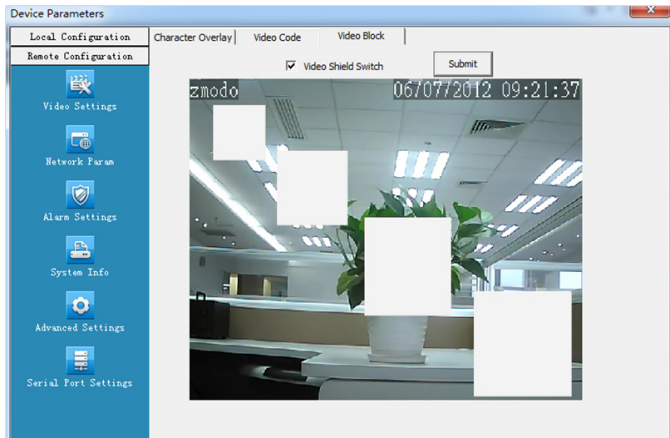


Figure 4-4 Video shield setting

[Video shield switch] Enable or disable the video shield functionality

[Shield area setting] User can set shield area by dragging mouse with left key pressed, and cancel the shield box on the shield area by right clicking the mouse. You can choose to shield the whole image, or only shield the part of the image. It can mask up to four areas.

After setting parameters, click the [Submit] button, the setting will take effect immediately.

4.2.2 Network Parameter

·Wired Setting

The screenshot displays the 'Device Parameters' window with the 'Wired Settings' tab selected. The left sidebar contains icons for 'Local Configuration', 'Remote Configuration', 'Video Settings', 'Network Param', 'Alarm Settings', 'System Info', 'Advanced Settings', and 'Serial Port Settings'. The main configuration area includes the following fields:

- DHCP:**
- IP Addr:** 192 . 168 . 2 . 10
- Subnet Mask:** 255 . 255 . 255 . 0
- Gateway:** 192 . 168 . 2 . 1
- MAC:** 00:02:04:06:08:22
- Preferred DNS Addr:** 8 . 8 . 8 . 8
- Alternate DNS Addr:** 202 . 96 . 128 . 166

A 'Submit' button is positioned below the DNS address fields.

Figure 4-5 wired network setting

[DHCP] If the router allows DHCP functionality, select DHCP. The IP Camera will obtain IP address automatically from the router. If the router does not allow for DHCP functionality, then the IP address must be obtained manually.

[IP Address] Set wired cable IP address of IP camera device.

[Subnet mask] Default: 255.255.255.0 (suggest user not to change this)

[Gateway] Set gateway IP of IPC, for example if IPC access public network through router, the gateway IP need to be set as the router IP which has accessed the public network.

[Physical address] MAC address of IP camera (suggest user not to change this)

[DNS address] If the user has a DDNS account, the DNS address needs to be set as DNS address of the place where the device is belonging to.

After setting parameters, click the [Submit] button, the setting will take effect immediately.

If it is applied in LAN, please make sure IP address does not conflict with the IP address of other devices or computer in the same LAN.

·WIFI setting

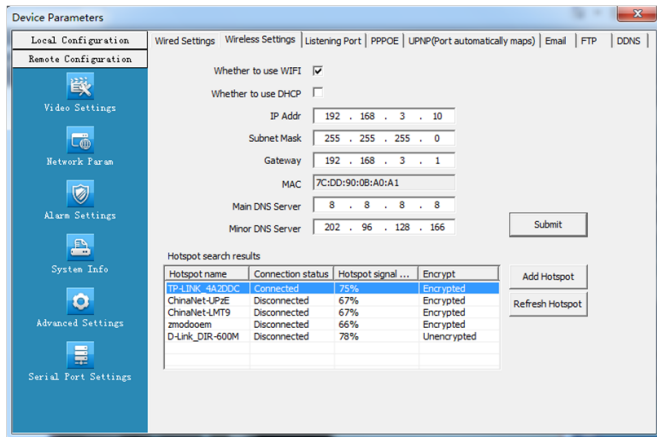


Figure 4-6 IPC WIFI network setting

[Whether to use WIFI] Select this check to open the wifi network function of IPC.

[Whether to use DHCP] If the router allows DHCP function, select this type, IP camera will obtain IP address automatically from router.

[IP address] Set wireless IP address of IP camera.

[subnet mask] Set IP address of the current wireless gateway(router/AP), such as 192.168.0.1

[Hotspot adding] After switch to Wifi setting, it will automatically search the hotspot. When hotspot is searching; the name of the wireless router, signal intensity, and the encryption will be listed on the screen. Click on “add hotspot” or double click on an existing hotspot, open “wifi hotspot setting” dialog box as below figure shown:

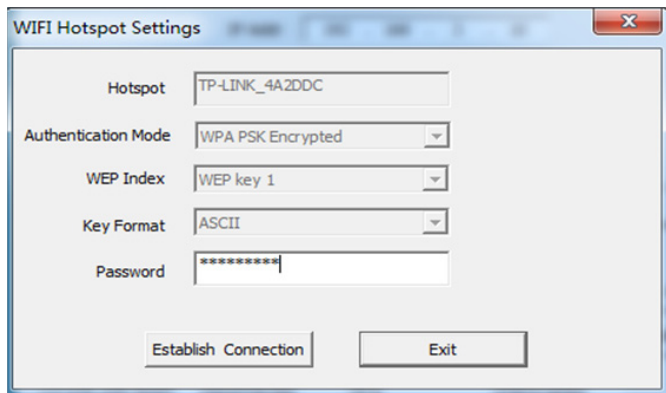


Figure 4-7 Wifi Hotspot setting

If entered this screen by double clicking, hotspot will be assigned automatically; if entered this screen by clicking “Add hotspot”, user has to type in hotspot, corresponding encryption mode and password. Click [Connect], close the dialog box, and connected or not will be list on the search results list.

If connected, “Connected” will appear after hotspot name; if not, please click “Refresh” to refresh connection status or click this button to search device again. After saving all parameters, click the [Exit] button, the setting will take effect immediately.

Now pull out network cable, you can access the IP network camera via Wifi.

Note: WIFI setting only works to those types with WIFI function.

WIFI mode supported by IP Camera:

802.11b/g protocol (small power WiFi type)

802.11a/b/g/n protocol (large power WiFi type)

To use the wireless function of IP camera, a wireless router is needed such as D-link.

·Listener port (LPRT)

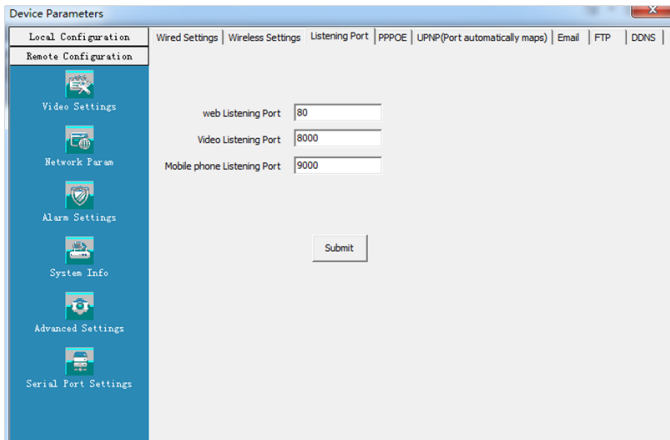


Figure 4-8 LPRT setting

[Web LPRT] The default port 80(port 80 is recommended), port for download active X, if necessary to change, it should add port number behind IP address during web visit `http://ip:port/`, such as `http://192.168.0.100:81` .

[Video LPRT] default 8000 (8000 is recommended).

[Mobile phone LPRT] default 9000 (9000 is recommended).

After setting all parameters, click the [submit] button, the setting will take effect immediately.

Note: LPRT can be selectable during range of 1024~65535, can't be repeated. Web LPRT can be 80.

·PPP0E

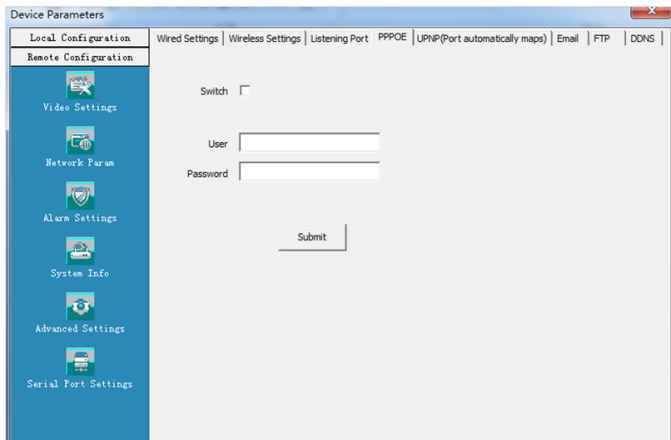


Figure 4-9 PPPOE parameters setting

[Switch] Set to open or close PPPOE dial-up function

[User name] The ADSL dial-up account, obtain from internet service provider

[Password] Password of ADSL dial-up account, obtain from internet service provider

After setting all parameters, click the [submit] button, the setting will take effect immediately.

·UNPN (Auto port mapping)

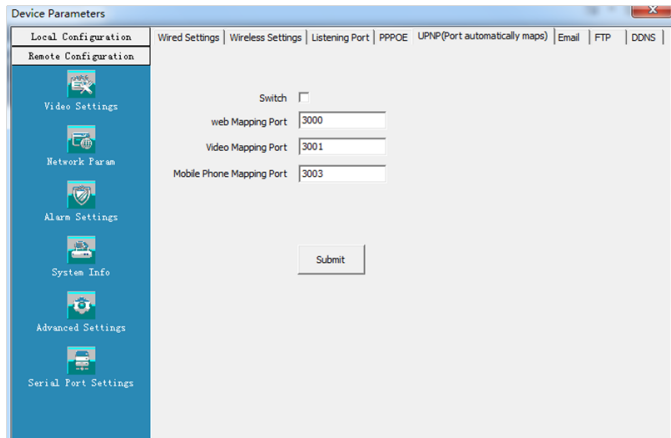


Figure 4-10 UNPN port mapping setting

[Switch] If in LAN it has server with UPNP functionality, enable this function, the server will automatically forward the set port to public network.

[web mapping port] Set the web port which will be mapping to the server.

[digital mapping port] Set the digital port which will be mapping to the server.

[Mobile phone mapping port] Set the mobile phone port which will be mapping to the server.

After setting all parameters, click the [submit] button, the setting will take effect immediately.

Note: port mapping can be selectable between 1024~65535. It can't be repeated.

·Email

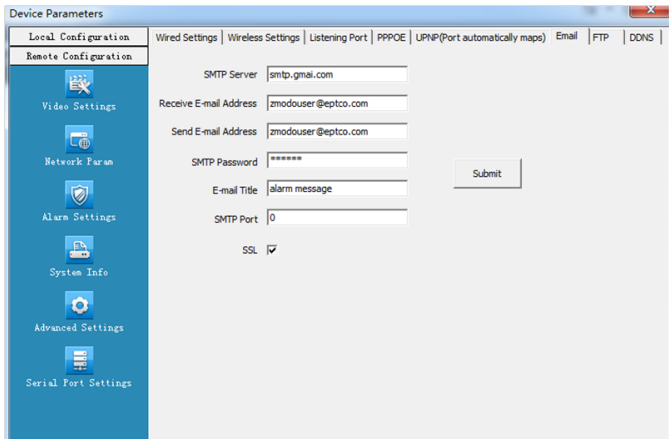


Figure 4-11 Email parameters setting

It is used to set Email address and related parameter of alarm email.

[SMTP Server] send email server address, different email service provider provides different email server address, such as SMTP server of Google email box: smtp.gmail.com

[Email receiving address] Email address to receive the email.

[Email sending address] Email address to send email.

[SMTP password] Log in password for the email box.

[Email title] The title of sending email.

[SMTP Port] Port of SMTP Server, different email server has different port, such as Gmail email server port as 465, enables SSL.

After setting all parameters, click the [submit] button, the setting will take effect immediately.

Common email server configurations:

Yahoo Email server:

SMTP Server: smtp.mail.yahoo.com

SMTP User name:username@yahoo.com

SMTP Port: 465

SSL: Enabled

FTP

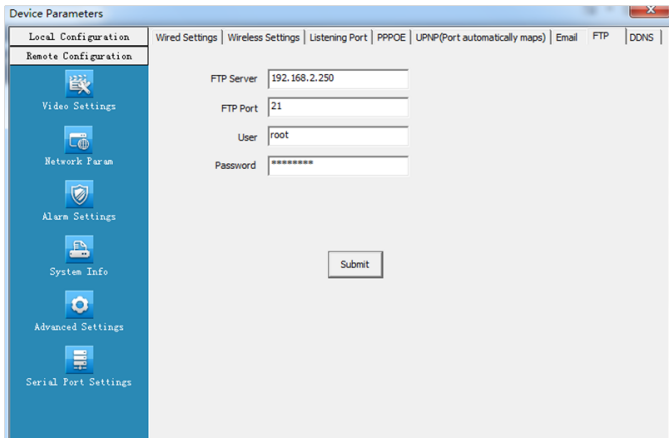


Figure 4-12 FTP parameters setting

FTP services will send the alarm triggered recording file or captured photo via FTP to certain FTP server.

[FTP server] IP address or HTTP network address of FTP server.

[FTP port] Port of FTP server, default port is 21.

[User] User name of the FTP Server.

[Password] Password of the FTP Server.

After setting all parameters, click the [Submit] button, the setting will take effect immediately.

DDNS

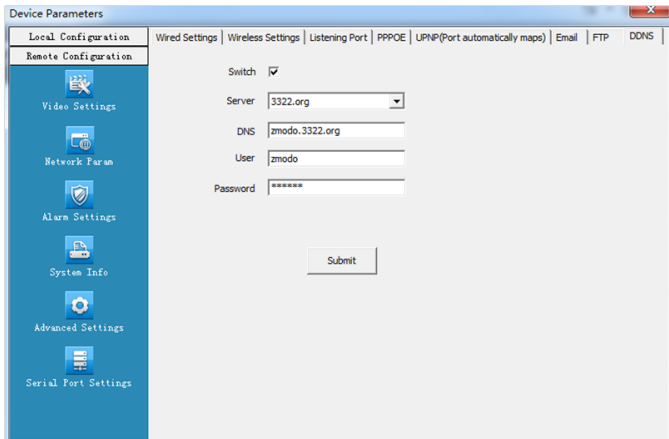


Figure 4-13 DDNS parameter setting

Dynamic DNS setting, through this setting it can bond device with a fixed domain, no matter how public network IP varies, it can visit the device via this domain. User can register a DDNS account on website of 3322.org.

[Switch] Setting open or close DDNS function.

[Server] 3322.org or dynDDNS.org selectable.

[DNS] The device domain which is set by user, such as zmodo.3322.org.

[User] The user name which you registered on DDNS server.

[Password] The password which you registered on DDNS server.

After setting all parameters, click the [Submit] button, the setting will take effect immediately.

4.2.3 Alarm setting

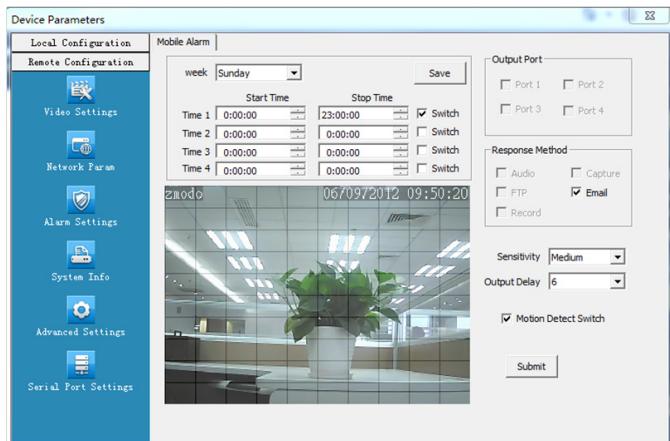


Figure 4-14 Motion detection setting

[Protection time setting] Set the protection time of motion detection. It can set detail time period of everyday, up to four time periods. Select the time and click the [Save] button, then the time period selection will take into force.

[Motion detection switch] Set open or close of motion detection, enable this switch to edit the motion detection area.

[Motion detection setting] After enable motion detection switch, the setting interface will appear grid line. User only needs to click the little cube on the image to set the motion detection area. Right click the little cube to cancel related area detection.

[Alarm action mode] Set linkage output format after triggered alarm. Sending email is sending motion detection alarm information via email to user, the detailed Email parameter see chapter 4.2.2. There will be no Email alert if user didn't set email parameter previously.

[Sensitivity] The sensitivity of motion detection includes three levels: High, Little high, Mid, and Low.

[Output delay] Set delay time of alarm linkage, time range is limited between 0~30.

After setting all parameters, click the [submit] button, the setting will take effect immediately.

4.2.4 System Information

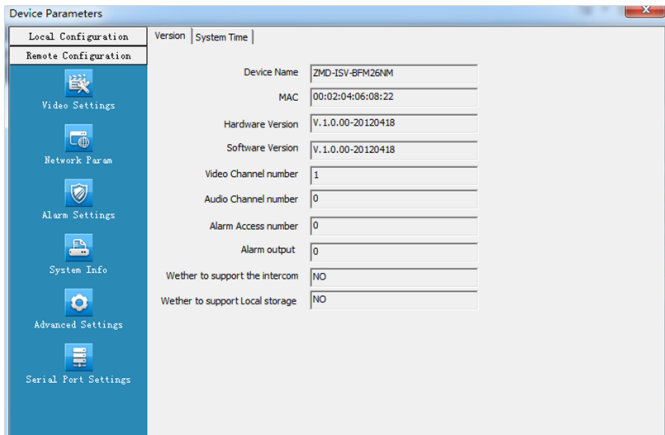


Figure 4-15 Version Information

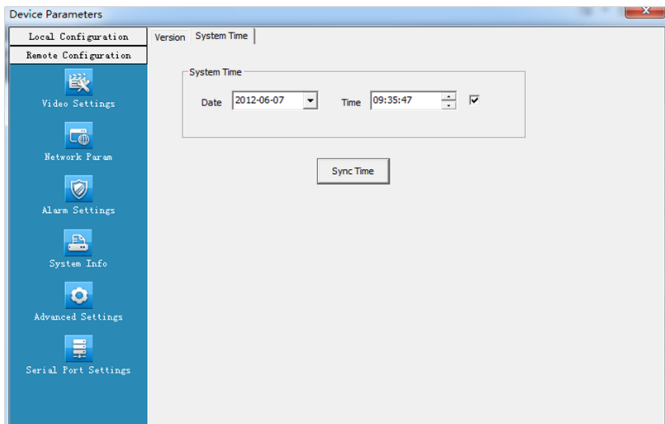


Figure 4-16 System time setting

[Version] Display device name, system version, video/audio channel number, sensor/alarm input/output, local storage.

[Time Setting Switch] Enable this switch to manually set the system date and time; disable this switch then the system date and time will be synchronized with local PC only to check the status and can't be configured to disable this switch. After setting all parameters, click the [Sync time] button, the setting will take effect immediately.

4.2.5 Advanced setting

·User management

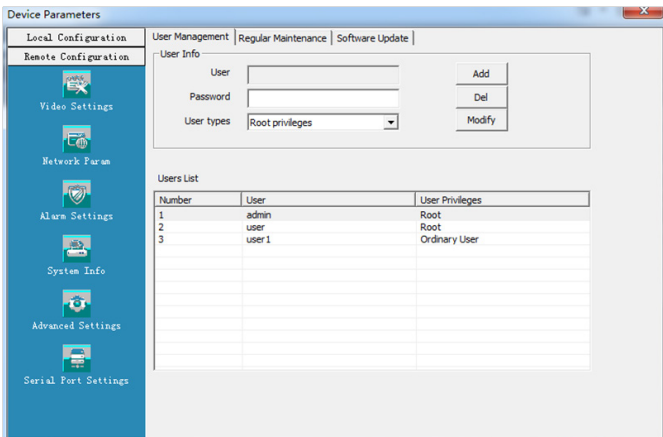


Figure 4-17 User management interface

Each IP camera can be set up to have up to 15 users. Admin is the system default super user and cannot be deleted, but the admin password can be changed. User's authority is as following:

Super-User authority: operate and set all the function and parameter of IP camera

Common user authority: The common user is allowed to view video, adjust their password and delete their own account. Common users are not granted any additional authorities.

Note: the default user after leaving factory is admin, the password is 111111. Both user names and passwords are case sensitive.

Periodic maintenance

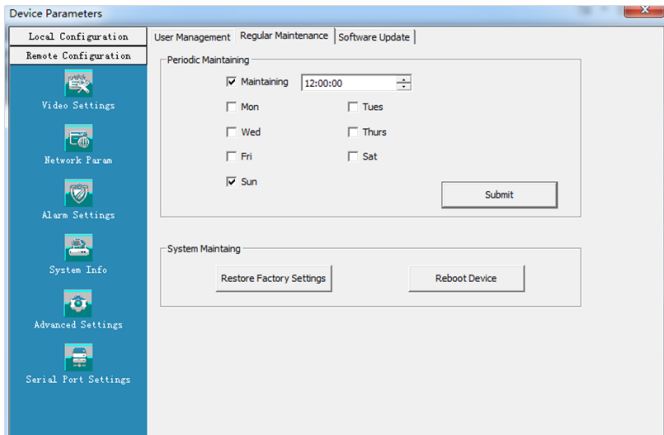


Figure 4-18 Periodic maintenance setting

[Periodic Maintaining] Choose to open periodic maintenance and set maintenance time, detailed maintenance time on everyday can be configured. After setting all parameters, click the [submit]

[Restore factory setting] Click this button to recover all the setting of the device back to factory setting.

[Reboot Device] Click this button to reboot the device.

Note: Periodic maintenance and reboot the device will need to wait for 30 seconds to restore video surveillance.

Software update

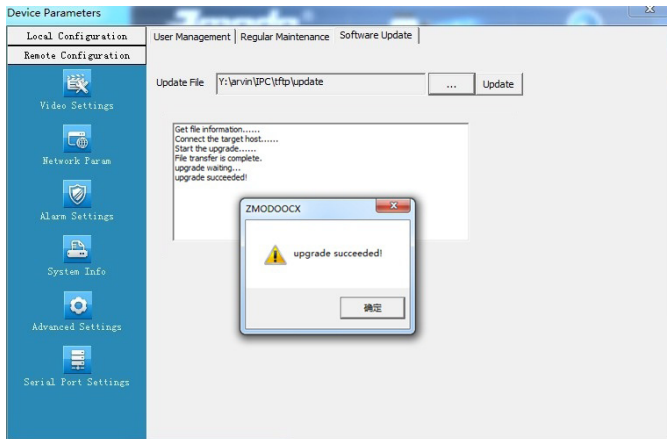


Figure 4-19 Software Update

[Update File] Click “.” to browse for the correct update file (application file: REL-APP, Please not change the file name), click “Update”. During the update, it will display update information. After update finished, IP Camera will reboot automatically. Log into the device once again and enter the software update interface to check whether the system version has been updated.

Note: During updating, please do not disconnect the camera from its power source or from the internet connection.

4.2.6 Serial port set up

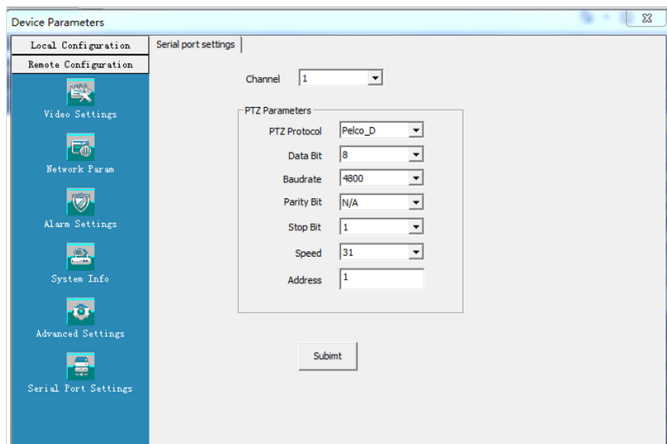


Figure 4-20 Serial port setting

When IP camera has external RS485 communication or control device (such as a PTZ controller) the user needs to set the RS 485 parameter according to the setting of these external devices. The channel, address, speed, protocol, and bit rate need to be set accordingly. Only all these are set correctly, the external communication device can be used to control the camera.

[Channel] Select the channel of device.

[PTZ protocol] The communication protocol setting, the user can choose Pelco_D or Pelco_P. The protocol is the same as that of the PTZ device.

[PTZ speed] Ranging from 1~64

[PTZ address] Ranging from 1~255

[Data Format] The setting of RS485 communication data format includes bite rate, date position, check digit and stop bit.

After setting all parameters, click the [submit] button, the setting will take effect immediately.

5 Appendix

Appendix 1 Specification

VGA Network Camera		
Camera	Sensor	1/4"CMOS sensor
	Pixel	640(H)× 480(V)
	Picture procession	Brightness, contrast, saturation, hue
	Power	12 V DC @ 300 mA
	Network interface	RJ45 10/100M
	Indicator light	Power indicator light /Status Indicator light
	Antenna	Wifi antenna seat
	Reset button	Hold pressing the RESET button 5 seconds, the system will clear user's data automatically and restore factory setting
Physical parameters	Temperature	-10- 50°C
	Humidity	20%-80%
Video Parameters	Video compression	H.264/JPEG
	Video code	640x480/320x240
	Sub video code	320x240
	Frame rate	1~30fps Selectable

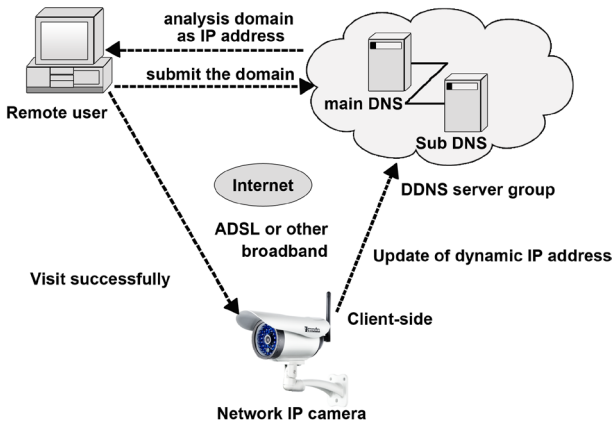
Appendix 2 System default parameter

User name: admin	password: 111111
Wired cable network	
IP address:192.168.0.100	Subnet mask:255.255.255.0
Gateway:192.168.0.1	DHCP: Close
Wireless network	
IP address:192.168.0.101	Subnet mask 255.255.255.0
Gateway:192.168.0.1	DHCP: Close
Port	
Web LPRT:80	Web mapping port:3000
Video LPRT:8000	Video mapping port:3001
Mobile phoneLPRT:9000	Mobile phone mapping poprt:3003

Appendix 3 Apply for DDNS domain service

IP Camera DDNS brief introduction

DDNS dynamic DNS means real-time analysis to a fixed domain and dynamic public network IP address of IP camera. All internet users can visit this IP camera through a certain fixed domain, as shown:



Network IP camera
IP Camera DDNS Analysis process

If you would like to assign a DDNS service to your IP Camera, please contact product support for a recommended current DDNS service. Recommended DDNS services will periodically change as a result of support developments or cost changes. Product support will be happy to recommend a current DDNS service.

Log in client-side software → Remote configuration → Network parameter → DDNS setting

Apply for No-IP Domain

The website address of No-IP is: <http://www.No-IP.com/>

The website interface as following:



If you have registered in this website, directly input user name and password, click login enter the website.

If you have not registered, click Create Account, choose Free DNS, enter the registration interface

Step one Registration:

No-IP is Free, Sign up Now!

Home > [Free SignUp](#)

• Create Your No-IP Account

If you already have an account then you can ([sign in here](#))

i About You:

First Name:

Last Name:

Email:

Account Information:

Username:

Password:

Confirm Password:

Follow the step one by one, and fill in the required blank, click the "I Accept, Create my Account" button, then your account has been created, activate your account in your email box, Now you can enter your account in NO-IP website

Step two: enter your own account, input domain application information

Hosts/Redirects
DNS Hosting
Domain Registration
Mail
SSL Certificates
Monitoring
Backup DNS
Renew/Activate

Need redundancy for your mail server?
[Click here for more info](#)

24/7 Server Monitoring and Failover
[Click here for more info](#)

Need Help?

- Support Center
- Basic Troubleshooting Guide
- Support Ticket
- Contact Us

Your No-IP

Jerry, welcome to your No-IP! Last Login: 2011-12-14 18:06:07 PDT from IP 115.236.89.138

You have successfully logged into No-IP's member section. To start using No-IP's services select an icon below or choose an item from the navigation above.

Manage Domains

Add Domain

Refer Friend

Add a Host

Manage Hosts

FROM \$15 Find a Domain Name .com Search

Get Connected

• Own a domain name?

Use your own domain name with our DNS system. [Add your domain name now](#) or [read more](#) for pricing and features

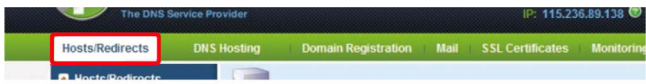
⚠ Your No-IP Alerts

You do not have any notices at this time

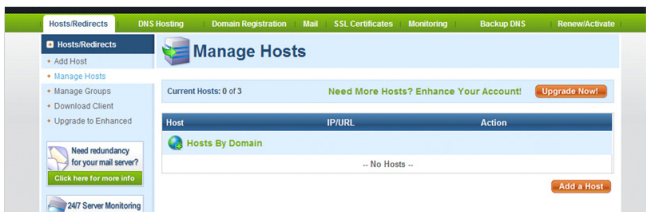
Check this spot for important information regarding your account such as expiring services and trouble tickets.

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After enter your own space, you need to apply for your own free domain, now click the button Hosts/Redirects, enter into host management.



Choose Add a Host



Enter the interface of host application:



Hostname: the domain name you are applying

Host Type: please choose DNS Host

IP Address: you're outer net IP

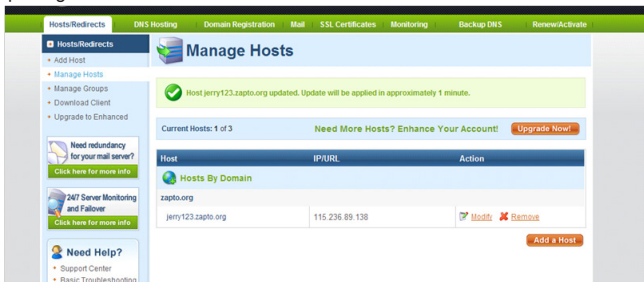
Assign to Group: Group distribution (you can choose default value)

Enable Wildcard: you can choose default value

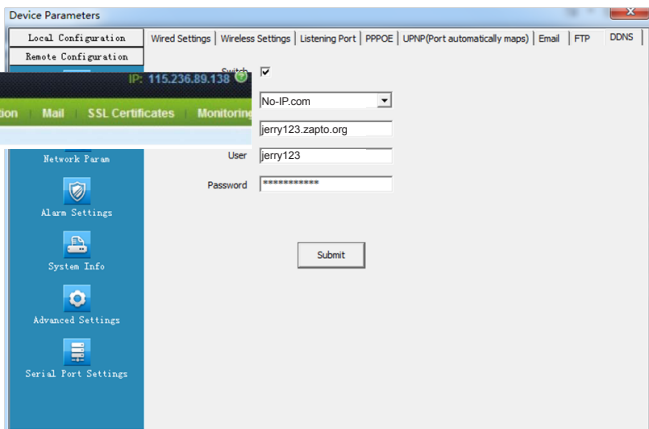
Other parameters choose default value

Application finished. If the following interface showed up it means application is successful, as following

For example, this is the free domain which is just applied successfully: jerry123.zapto.org.



Step Three: DDNS setting



Adjust the IP address of device, the IP address needs to be LAN IP of the router which means the network segment when you enter into the internet in ordinary time.

Device Parameters

Local Configuration | Remote Configuration

Wired Settings | Wireless Settings | Listening Port | PPPoE | UPnP (Port automatically maps) | Email | FTP | DDNS

Video Settings

Network Param

Alarm Settings

System Info

Advanced Settings

Serial Port Settings

DHCP

IP Addr: 192 . 168 . 2 . 10

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 2 . 1

MAC: 00:02:04:06:08:22

Preferred DNS Addr: 8 . 8 . 8 . 8

Alternate DNS Addr: 202 . 96 . 128 . 166

Submit

Port mapping setting of D-Link router

Type in the IP address of router in browser, to log in the main interface of router management.

D-Link Building Networks for People

AirPlus Xtreme G™
High-Speed 2.4GHz Wireless Router

DI-624

Virtual Server

Applications

Filters

Firewall

DMZ

Performance

Home | **Advanced** | Tools | Status | Help

Virtual Server
Virtual Server is used to allow Internet users access to LAN services.

Enabled Disabled

Name: Clear

Private IP:

Protocol Type: TCP

Private Port:

Public Port:

Schedule: Always

From time: [00] : [00] AM to [00] : [00] AM
day: Sun to Sun

Virtual Servers List

Name	Private IP	Protocol	Schedule
<input type="checkbox"/> Virtual Server FTP	0.0.0.0	TCP 21/21	always
<input type="checkbox"/> Virtual Server HTTP	0.0.0.0	TCP 80/80	always
<input type="checkbox"/> Virtual Server HTTPS	0.0.0.0	TCP 443/443	always
<input type="checkbox"/> Virtual Server DNS	0.0.0.0	UDP 53/53	always
<input type="checkbox"/> Virtual Server SMTP	0.0.0.0	TCP 25/25	always
<input type="checkbox"/> Virtual Server POP3	0.0.0.0	TCP 110/110	always
<input type="checkbox"/> Virtual Server Telnet	0.0.0.0	TCP 23/23	always
<input type="checkbox"/> IPSec	0.0.0.0	UDP 500/500	always
<input type="checkbox"/> PPTP	0.0.0.0	TCP 1723/1723	always
<input type="checkbox"/> NetMeeting	0.0.0.0	TCP 1720/1720	always
<input type="checkbox"/> DCS-1000	0.0.0.0	TCP 80/80	always
<input type="checkbox"/> DCS-2000	0.0.0.0	TCP 80/80	always
<input type="checkbox"/> DVC-1000	0.0.0.0	TCP 1720/1720	always

Apply Cancel Help

To reach port forwarding on a D-Link router, first navigate to the advanced tab.

Then, on the left hand side, select virtual server.

Under name, you can just put down DVR

The private IP is the IP address of the DVR

The private and public ports should be set to the same value, which is the port you're trying to forward.

Be sure to choose always, and hit apply.

Repeat as necessary until all ports are forwarded.

If successfully set DDNS in "network setting" of the IP camera, then you can visit the IP camera by typing your DDNS domain name into an Internet Explorer browser.

