

TENVIS Technology Co., LTD



User Manual

For TENVIS Now Series Cameras

Version 1.0.0

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Notice: Certain functions mentioned in this manual may vary according to camera's model. For example, pan and tilt function are for Pan/Tilt enabled cameras only.

Basic Setup

This section will focus on connecting your IP camera, software installation and basic network configuration. Other settings and operation will be explained in later chapters.

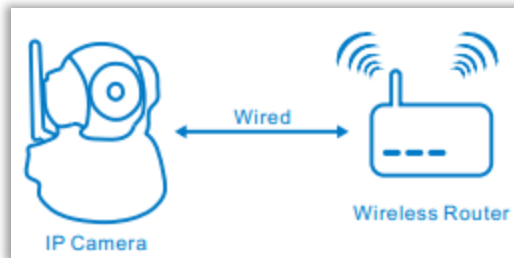


Notice:

For your security, please update the camera's default password once you finish the following procedure and you can turn to camera settings for reference.

Hardware Installation

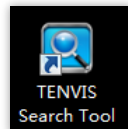
Open the package. Connect the camera to your router by a network cable and plug it in with the provided AC adapter.



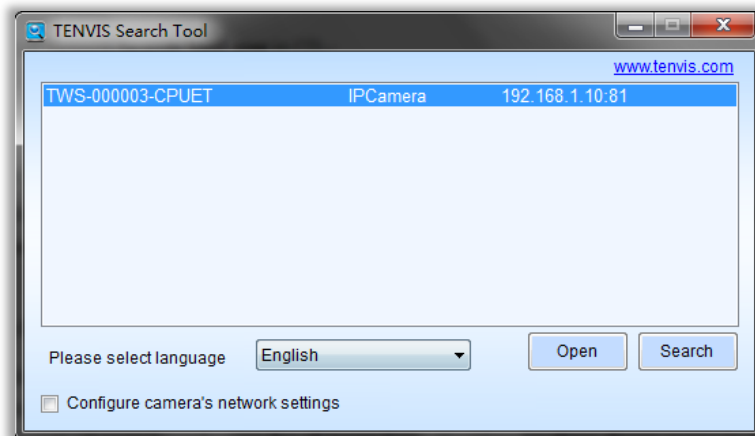
For Windows

Search the camera

1. Install **TENVIS Search Tool.exe** in CD.



2. Run **TENVIS Search Tool** from desktop.
3. Click Search. Double click the camera searched in the list to open the camera in web browser..



For Internet Explorer

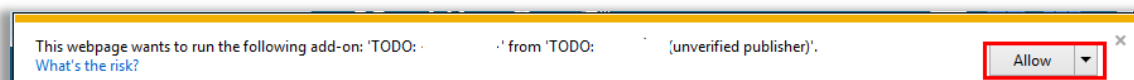
After inputting the camera's LAN or Internet access URL in IE browser, the camera's username and password will be required. The default username and password are admin.



1. Select **Click to download web browser plug-in and refresh page to get live video** to download the IE plug-in and follow the procedure to install.






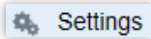

2. Click **Allow** to allow the web browser plug-in running in IE.

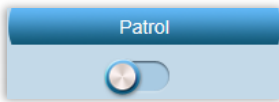
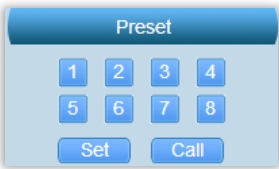
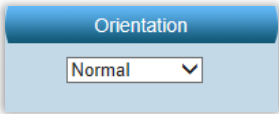
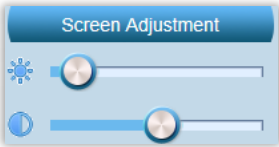






4. Then you will see the live video and control panel



Instructions of the buttons of main panel

	Single camera view mode. For show back to single camera mode from 4 camera view mode or 9 camera view mode.
	4 camera view mode. After set up multiple camera settings, you could view up to 4 cameras by this mode
	9 camera view mode. After set up multiple camera settings, you could view up to 9 cameras by this mode
	Click this button for camera settings
Resolution	Changed the resolution of the video, there are 3 options: 640x480 and 320x240.
Frame Rate	Change the FPS of video, it means frames per second. The bigger the number, the smoother the video is. Higher FPS depends on high speed network.
Power Frequency	The frequency of your power line, such as 50Hz or 60Hz
	There are 8 direction keys and the center button is rotation center. (only available for the camera with Pan/Tilt)

	The horizontal cruise will pan automatically (only available for the camera with Pan/Tilt)
	Set and go preset position; this camera supports 8 preset positions. What is a preset position? See tips below. (only available for the camera with Pan/Tilt)
IR-LED	Turn off the IR-LED or turn on it automatically when it is night
	Invert the video horizontally or vertically
	Adjust the brightness and of the video
	Receive audio from the camera (only available for the camera with 2-way audio)
	Send audio to the camera (only available for the camera with 2-way audio)
	Take snapshot with the camera
	Record video to PC, you can change the path in the settings menu



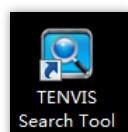
Tips:

What are preset positions?

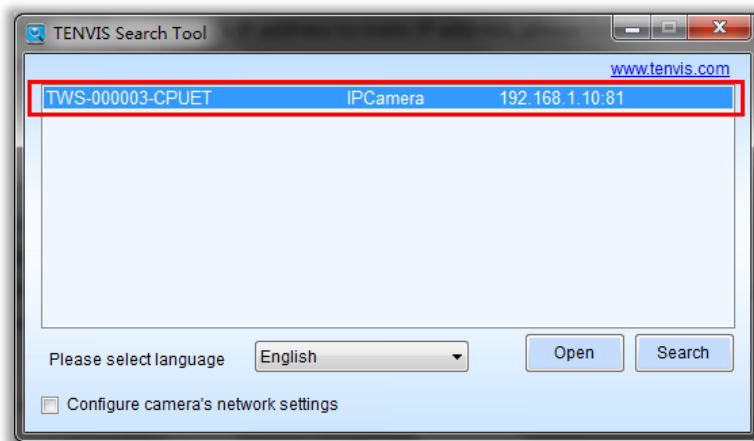
Preset positions are IP camera's memorized P/T positions. Once you set a preset position, you do not need to pan the camera to your preferred position. You simply press the preset button that corresponds to the preset you want to see and the camera will move to that position automatically.

Set up IP address automatically

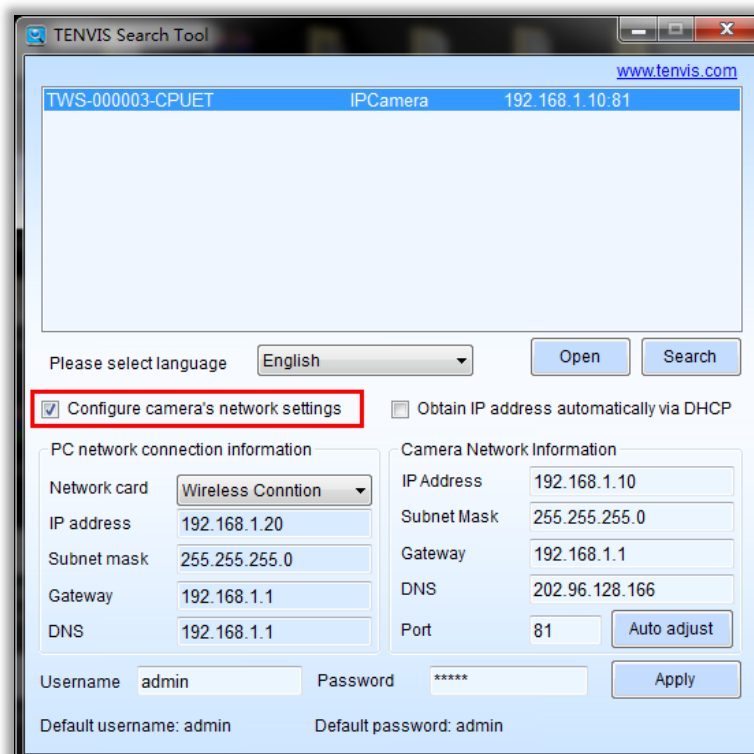
If you want to set the camera's IP address to static IP address, please follow the steps below to set up IP address manually.



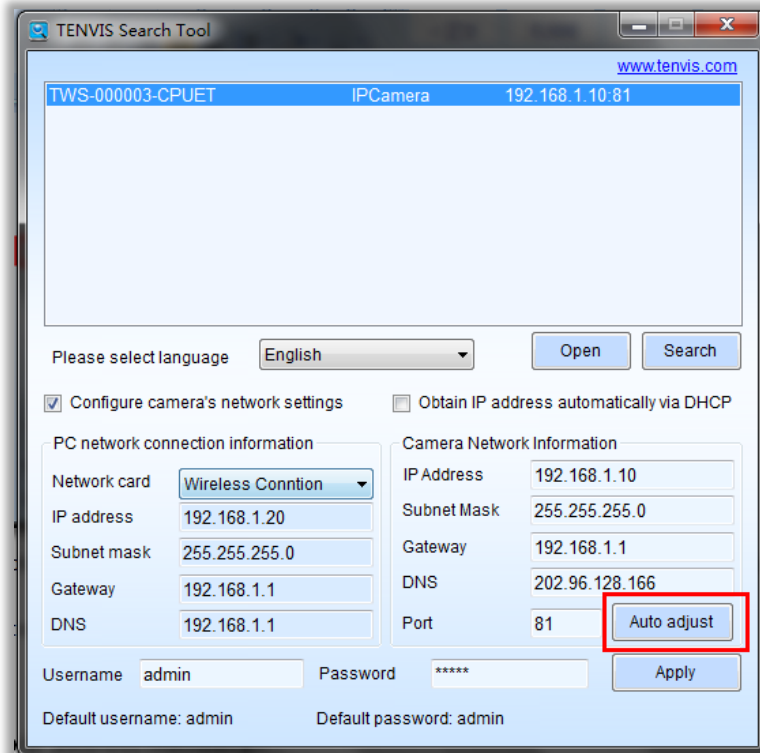
1. Run **TENVIS Search Tool** from desktop.
2. Click **Search**. Select the camera searched in LAN.



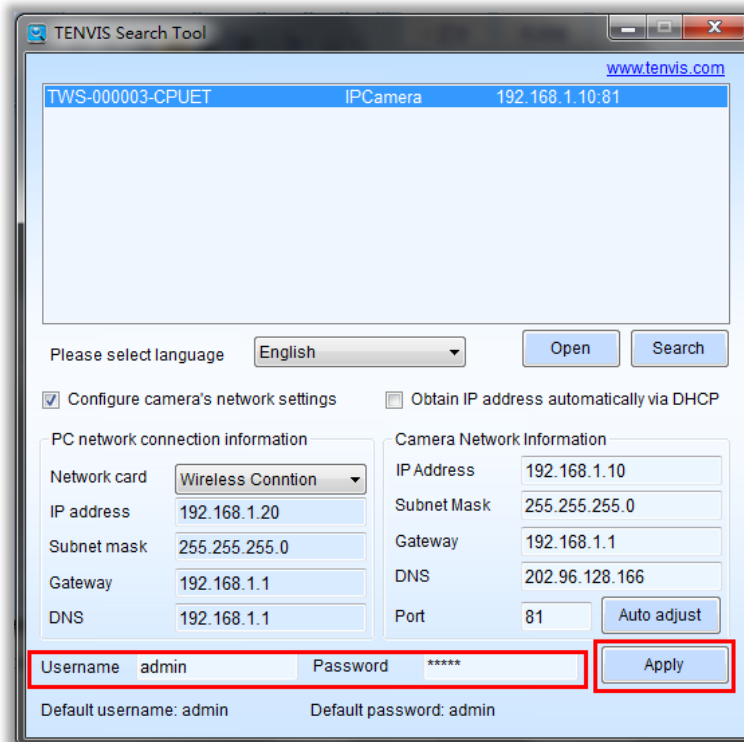
3. Click **Configure camera's network settings**.



4. Click **Auto adjust**, then the application will get the correct IP address to the camera.



5. Enter the camera's Username and Password and click **Apply**.



Set up IP address manually.

1. Click on **Start**, and then click on **Control Panel**.
2. Click **Network and Sharing Center**. The above is in **Small icons** view. If your screen looks

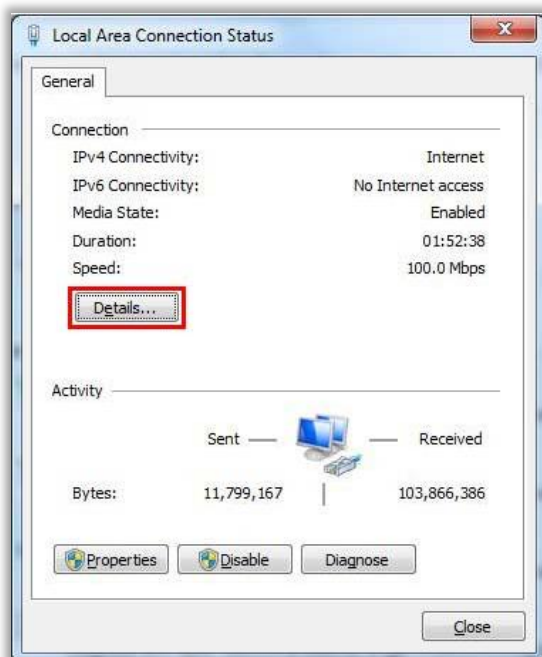
different, change by selecting **Small icons** from the View by **drop-down** menu in the top right hand corner.



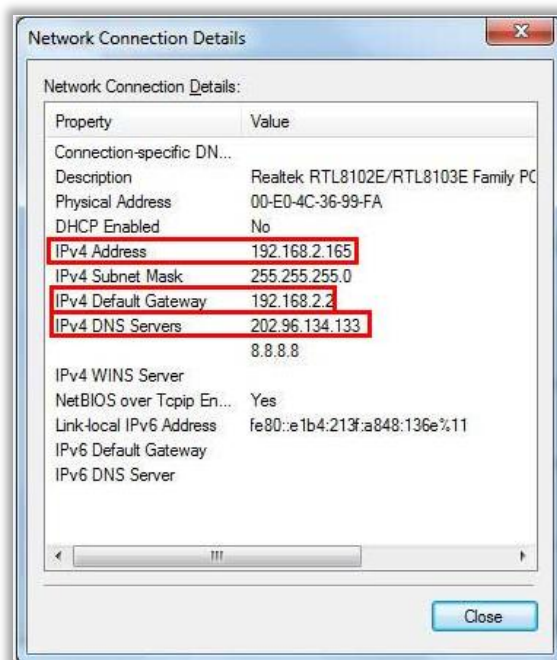
3. Find the connection connected to Internet and click the link.



4. Click Details



5. Find your PC's IP address, Subnet Mask, Gateway and DNS.



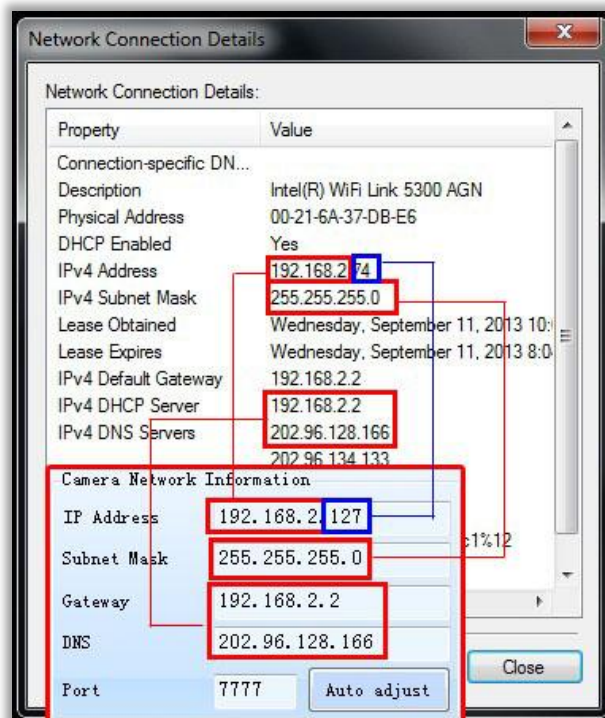
Here are the details in the snapshot:

IP: 192.168.2.165

Subnet Mask: 255.255.255.0

Gateway: 192.168.2.2

6. Set up IP manually by the details above.

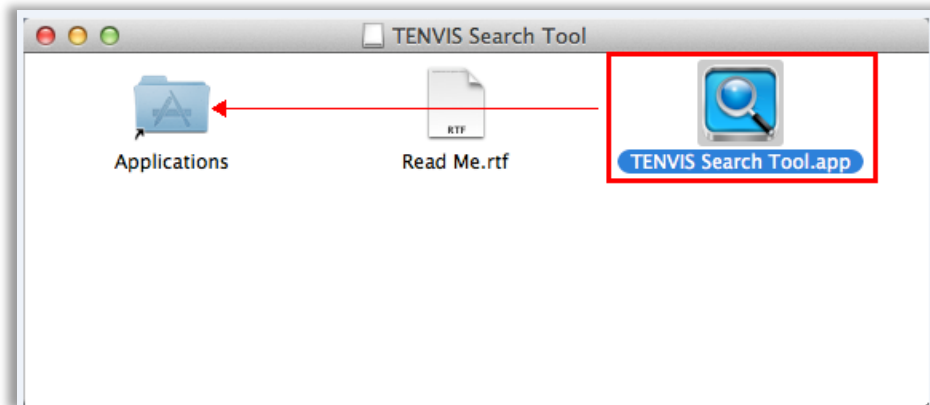


Copy the first 3 parts of IP address to camera's IP and left the 4th part with its own.
Copy Subnet Mask and Gateway to IP camera's Sub Mask and Gateway.

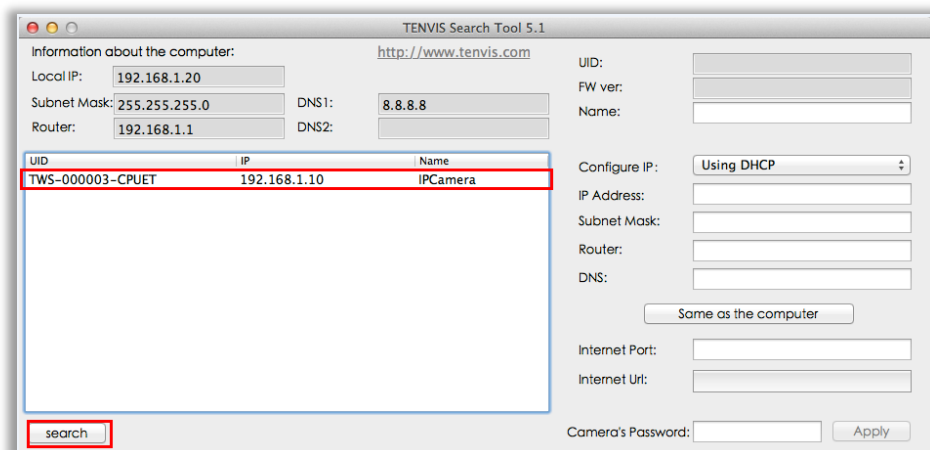
For MAC OS X

Search the camera

1. Run **H264 Search Tool.dmg** for Mac in CD
2. Drag TENVIS Camera Search Tool into Applications to install the search tool in MAC.



3. Click Search. Double click the camera searched in the list to open the camera in web browser..



For Other Non-IE Web Browsers



Here are the details of the difference of the functions.

	IE	Non-IE web browser
Multiple Cameras Mode	√	×
2-way audio	√	×
Record to PC	√	×
Time Stamp	√	×

Set up IP address automatically



1. Run TENVIS Search Tool
2. Click Search. Select the camera searched in LAN.

TENVIS Search Tool 5.1

Information about the computer: <http://www.tenvis.com>

Local IP: 192.168.1.20
Subnet Mask: 255.255.255.0
Router: 192.168.1.1
DNS1: 8.8.8.8
DNS2: .

UID	IP	Name
TWS-000003-CPUET	192.168.1.10	IPCamera

Configure IP: Using DHCP
IP Address:
Subnet Mask:
Router:
DNS:
Same as the computer
Internet Port:
Internet Url:
Camera's Password:
Apply

3. Click **Same as the computer** to set the camera's IP address correctly according to the computer's settings. Enter camera's password or admin and click **Apply**.

TENVIS Search Tool 5.1

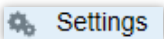
Information about the computer: <http://www.tenvis.com>

Local IP: 192.168.1.20
Subnet Mask: 255.255.255.0
Router: 192.168.1.1
DNS1: 8.8.8.8
DNS2: .

UID	IP	Name
TWS-000003-CPUET	192.168.1.10	IPCamera

Configure IP: Manually
IP Address: 192.168.1.31
Subnet Mask: 255.255.255.0
Router: 192.168.1.1
DNS: 8.8.8.8
Same as the computer
Internet Port: 10101
Internet Url:
Camera's Password:
Apply

Camera Settings

Click this Settings Button  for camera Settings.

Notice: Certain functions mentioned in this manual may vary according to camera's model. For example, pan and tilt function are for Pan/Tilt enabled cameras only.

System

About

Basic Device Information & Customer Service Information.

Alias	<input type="text" value="IPCamera"/>
Device Firmware Version	29.2.0.18
Device Web UI Version	1.1.1.0
P2P Serial Number	TWS-000003-CPUET
UPnP Status	No Action
LAN MAC Address	00:1B:49:19:3E:02
Wi-Fi MAC Address	00:1B:49:19:3E:03
Wi-Fi Status	Set up Wi-Fi here
Select Language	<input type="text" value="English"/> ▼
Customer Service	
Service Time	9:00-18:00, Beijing Time(UTC+8), Monday - Friday
Telephone #	0086-0755-89732479
E-mail	support@tenvis.com

Alias	Camera's name
Device SN	Camera's serial number
Device firmware Version	Camera's software version
Device Web UI Version	Camera's web interface version
UPnP Status	Camera's UPnP status
LAN MAC Address	LAN MAC address
Wi-Fi MAC Address	Wi-Fi MAC address
Wi-Fi Status	Wi-Fi Status
Customer Service	Consulting with TENVIS customer service if you have any question about TENVIS IP camera.



Notice:

Customer Service information will be updated on the official website.

System User

Adding and updating user accounts

	Username:	Password:
Administrator	<input type="text" value="admin"/>	<input type="password" value="....."/>
Operator	<input type="text"/>	<input type="password"/>
Guest	<input type="text"/>	<input type="password"/>
Camera will auto-reboot after saving settings		

Defined user contains three different user levels.

Different access is granted to different user levels as specified in the following sheet.

	Live Video	Record	Snapshots	Video adjustment	Sound	Talkback	PT operation	Settings
--	------------	--------	-----------	------------------	-------	----------	--------------	----------

Admin	√	√	√	√	√	√	√	√
Operator	√	√	√	√	√	√	√	×
Guest	√	√	√	×	√	√	×	×

Network

IP Config

The Camera's Basic Network Settings

Obtain IP address from DHCP server	<input type="checkbox"/>
IP Address	192.168.2.93
Subnet Mask	255.255.255.0
Gateway	192.168.2.2
DNS Server1	8.8.8.8
DNS Server2	192.168.2.2
Web Port	81
Camera will auto-reboot after saving settings	

Obtain IP address from DHCP server	Enable or disable obtaining IP address from DHCP server automatically. If it is enabled, IP address and other items cannot be changed manually.
IP Address	Camera's local network IP address, which is used to view the camera in the same local area network. Specify a unique IP address for your network camera.
Net Mask	Specify the mask for the subnet the network camera is located on
Default Gateway	Specify the IP address of the default gateway (router) used for connecting devices attached to different networks and network segments
DNS Server1/2	DNS (Domain Name Service) provides the translation of host names to IP addresses of your network
Web Port	Camera's communications port which is set to send video and audio data

UPnP

Do port forwarding manually by UPnP	<input checked="" type="checkbox"/>

Universal Plug and Play (UPnP) is an architecture for peer-to-peer network connectivity and it will connect to the IP camera from Internet more seamlessly



Notice:

As UPnP is also easily affected by router or firewall, sometimes it may show failed status. If

this happens, please forward the camera's port on your router manually. Whether UPnP succeeds or not, it will not affect the camera's remote access.

Wi-Fi

Configuring WI-FI connection

Connection Status	TP-Tennis
SSID	<div>ChinaNet-eYSd</div> <div>TP-Tennis</div> <div>TENVIS-2.4</div>
Wi-Fi Password	*****
Camera will auto-reboot after saving settings	

Connection Status	Check and change wireless network status
SSID	All the nearby wireless signals visible to the camera
Wi-Fi Password	The password or key of wireless network

For Set-up procedure please refer to **Wireless Setup**

DDNS

Configuring the camera's DDNS for remote view

Built-in DDNS	
Enable Built-in DDNS	<input checked="" type="checkbox"/>
Built-in DDNS URL	http://bsd2292.mytenvis.org
Status	Connecting ...
Third-Party DDNS	
DDNS Server	<--Select-->
Status	Failed: The Host Does not Exist

Built-in DDNS Configuration	TENVIS IP Camera has been set with free default built-in DDNS. You can enable or disable it. If the DDNS status is "successful", you can view the camera from Internet after you forward the camera's port through your router.
Third-party DDNS Configuration	TENVIS camera supports third-party DDNS providers.



Tips:

1. What is DDNS?

DDNS (Dynamic DNS) is a service that maps Internet domain names to IP addresses. Thus we

do not need to know the changing IP address in order to view the camera through the relevant DDNS server.

Alarm Setting

Alarm Setting

Enable Alarm	<input checked="" type="checkbox"/>
Sensitivity	1-Highest ▼ The smaller the value, the more sensitive
Alarm Mode	
Back to Preset	None ▼
E-Mail Alert	<input checked="" type="checkbox"/>
Upload Snapshots to FTP Server	<input type="checkbox"/>
Schedule	
Select all	<input checked="" type="checkbox"/>
Day	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sun	
Mon	
Tue	
Wed	
Thu	
Fri	
Sat	

Enable Alarm	Enable or disable the motion detection alarm
Sensitivity	The sensitivity of the motion detection alarm.
Email Alert	Sending alarm pictures to the specified email when the camera detects the movements
Upload Snapshots to FTP Server	Sending alarm pictures to FTP server set in advance when the camera detects movement.
Back to Preset	Moves camera to a preset position once the camera detects moving objects (this is only available for Pan/Tilt IP camera).
Upload Interval (Seconds)	Upload interval for uploading snapshots to FTP server
Schedule	Specified motion detection period with 15 minutes a unit and one week per cycle.
Select all	Select all the time in schedule.



Notice:

1. If no schedule has been set, the camera will not alarm anytime.

Email Setting

Once the motion detection alarm is enabled, camera will send snapshots to the specified

email when it detects the moving objects.

Sender(xxx@xxx.xxx)	<input type="text"/>	
SMTP Server	<input type="text"/>	Please select ▼
SMTP Port	<input type="text" value="25"/>	
Need Authentication	<input type="checkbox"/>	
Transport Layer Security	None ▼	
Receiver1(xxx@xxx.xxx)	<input type="text"/>	
Receiver2	<input type="text"/>	
Receiver3	<input type="text"/>	
Receiver4	<input type="text"/>	
<input type="button" value="Save & Test"/>		

Sender(xxx@xxx.xxx)	Email address for sending the alarm email
Receiver1(xxx@xxx.xxx)	1st email address for receiving the alarm email
Receiver 2	2nd email address for receiving the alarm email
Receiver 3	3rd email address for receiving the alarm email
Receiver 4	4th email address for receiving the alarm email
SMTP Server	Sending emails provider 's SMTP server address
SMTP Port	Service port of SMTP server
Transport Layer Security	Encryption protocol of SMTP Server
Need Authentication	Need to authenticate sender's right
SMTP Username	Sender email's login username
SMTP Password	Sender email's login password

E-mail Alarm Configuration

Sender(xxx@xxx.xxx)	your_email@gmail.com	
SMTP Server	smtp.gmail.com	@gmail.com ▼
SMTP Port	465	
Need Authentication	<input checked="" type="checkbox"/>	
Transport Layer Security	TLS ▼	
SMTP Username	your_email@gmail.com	
SMTP Password	●●●●●●●●	
Receiver1(xxx@xxx.xxx)	your_another@gmail.com	
Receiver2	<input type="text"/>	
Receiver3	<input type="text"/>	
Receiver4	<input type="text"/>	
<input type="button" value="Save & Test"/>		

Sender is your own email address. Since common email providers have a better service experience and the built-in email provider SMTP servers are easier to set up, you are strongly advised to use Gmail, Yahoo and other common email services as the sender email.

Receiver is the email to accept the email alerts and we suggest that you make it a different email from the sender email.

SMTP Server: The SMTP (short for Simple Mail Transfer Protocol) works like a post assistant, handling the sending of emails from the camera to an email server. SMTP Server receives outgoing mail messages from users to the mail recipients they are intended for.

If your sender email provider is a public server, you can search the IP address of the email provider's SMTP server or DDNS from Google.

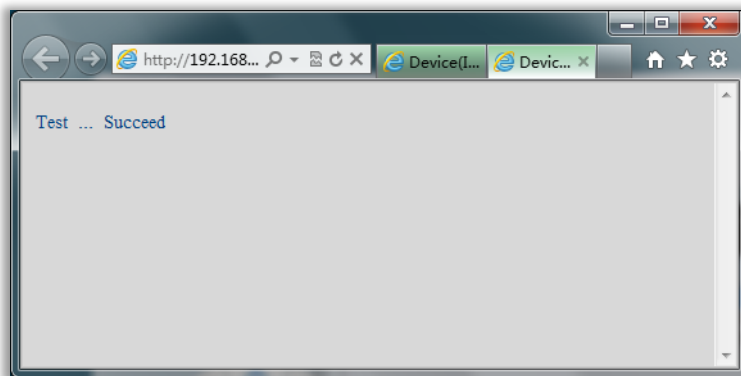
If your sender email provider is a private one, you can consult with the email provider's customer service.

SMTP Port: Service port of SMTP server which you can get with the above procedure

Transport Layer Security: Encryption protocol of SMTP Server and you can also get it from the above procedure

SMTP Username: The account you use to login to the SMTP server which is also the sender email address

SMTP Password: The password you use to login to the SMTP server which is also the sender email password



Go back to alarm settings and enable **E-Mail Alert** to finish the whole e-mail alert settings.

Enable Alarm	<input checked="" type="checkbox"/>
Sensitivity	10-Lowest <small>The smaller the value, the more sensitive</small>
Alarm Mode	
Back to Preset	None
E-Mail Alert	<input checked="" type="checkbox"/>
Upload Snapshots to FTP Server	<input type="checkbox"/>
Schedule	
Select all	<input checked="" type="checkbox"/>
Day	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sun	
Mon	
Tue	
Wed	
Thu	
Fri	
Sat	



Notice:

1. Please try again if it shows “Can not connect to SMTP server!”
2. Please check the basic network settings of the camera if it failed the test.
3. There might be some delay for motion detection alarm since it is related to the network condition and the service quality of the sender email’s provider. Thus it is beyond the control of IP camera.
4. If you still can not receive any email alert after getting the test email, please check your spam box and add your sender email address in the trust list of the recipient email once your find it in spam.



Tips:

The email alert is sent via sender email’s provider server which is an SMTP server. Once the camera signs in to the SMTP server, the email alert will be delivered to the recipient email after getting SMTP server’s authentication. Therefore, the sender email, recipient email and the SMTP server are all required.

FTP Setting

FTP, short for File Transfer Protocol, is used to transfer files between computers on a network. You can upload camera’s alarm snapshots to your FTP storage. Thus, there is no need to keep the computer on when the motion detection alarm is triggered.

FTP Server	<input type="text"/>
FTP Port	21
FTP User	<input type="text"/>
FTP Password	<input type="password"/>
Upload pictures all the time	<input type="checkbox"/>
Please make sure that both FTP user and the root folder have upload permission	
Save & Test	

FTP Server	FTP server’s address
FTP Port (default 21)	FTP server’s port
FTP User	FTP server’s username
FTP Password	FTP server’s password
Upload pictures all the time	Upload snapshots to FTp server all the time, no matter whether you have enabled motion detection alarm

FTP Alarm Configuration

FTP Server	<input type="text" value="your.ftp.net"/>
FTP Port	<input type="text" value="21"/>
FTP User	<input type="text" value="test"/>
FTP Password	<input type="password" value="••••"/>
Upload pictures all the time	<input type="checkbox"/>
Please make sure that both FTP user and the root folder have upload permission	
<input type="button" value="Save & Test"/>	

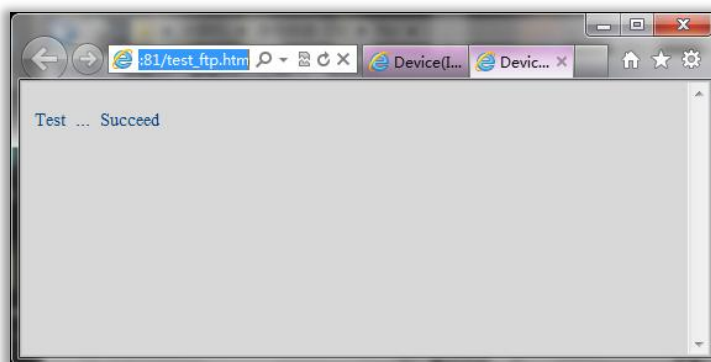
FTP Server: FTP server's IP address and DNS which could be required from FTP server provider.

FTP Port: Communication port of FTP server and the default port is 21.

FTP User: Username for you to sign in FTP server which could be required from FTP server provider.

FTP Password: Password for you to login FTP server which could be required from FTP server provider.

Then click Save and Test. Once it says "Succeed" that means the camera has set FTP settings successfully.



Go back to alarm settings and enable **Upload Snapshots to FTP Server** to finish the whole FTP alert settings.

Enable Alarm	<input checked="" type="checkbox"/>
Sensitivity	6-Normal <input type="button" value="v"/> The smaller the value, the more sensitive
Alarm Mode	
Back to Preset	None <input type="button" value="v"/>
E-Mail Alert	<input type="checkbox"/>
Upload Snapshots to FTP Server	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	30 <input type="button" value="v"/> (30~255)
Schedule	
Select all	<input checked="" type="checkbox"/>
Day	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sun	
Mon	
Tue	
Wed	
Thu	
Fri	
Sat	

**Notice:**

1. Please check the basic network settings of the camera if failed in test.
2. FTP server is offered by FTP provider. TENVIS does not provide FTP service. Web Hosting usually supports FTP.
3. Please make sure the camera is authorized to upload alarm pictures. For detailed information, please consult with the FTP server provider.

















Multi-Camera

Multi-Camera

Camera 1	[local camera]	
Camera 2	<input type="text"/>	
Local Search:	IPCAM44(192.168.2.94) ▼	
IP Address:	<input type="text" value="192.168.2.94"/>	
Web Port	<input type="text" value="81"/>	
Username:	<input type="text" value="admin"/>	
Password:	<input type="password" value="•••••"/>	
Camera 3	<input type="text"/>	
Camera 4	<input type="text"/>	
Camera 5	<input type="text"/>	
Camera 6	<input type="text"/>	
Camera 7	<input type="text"/>	
Camera 8	<input type="text"/>	
Camera 9	<input type="text"/>	

Local Search	All MJPEG IP camera in your local network
IP Address: Port	Camera's IP address or you can fill in DDNS instead.
Port	Camera's port
Username	Camera's username
Password	Camera's password

If you want to view multiple cameras from Internet by DDNS, you could add the camera with DDNS.

Camera 1	[local camera]
Camera 2	<input type="text"/>  
Local Search:	IPCAM44(192.168.2.94) ▼
IP Address:	test.mytenvis.org
Web Port	81
Username:	admin
Password:	•••••
Camera 3	<input type="text"/>  
Camera 4	<input type="text"/>  
Camera 5	<input type="text"/>  
Camera 6	<input type="text"/>  
Camera 7	<input type="text"/>  
Camera 8	<input type="text"/>  
Camera 9	<input type="text"/>  



Notice:

This configuration is only available for IE browser.

Advanced

NTP Setting

Camera's time setting

Current Time	Mon, 28 Oct 2013 21:57:22 UTC
Time Zone	(GMT +08:00) Beijing, Singapore, Taipei ▼
Obtain time setting from NTP server	<input checked="" type="checkbox"/>
NTP Server	time.nist.gov ▼
Sync with PC	

Current Time	Camera's time and you can click Sync With PC to match it to your computer's time
Time Zone	Time zone of the place that the camera is located
Obtain time setting from NTP server	The camera could get current time from NTP server
NTP Server	Time server of the network which is connected with the camera



Tips:

1. Since the camera has no built in battery, the time saved in its memory may be lost when the camera reboots and reset to default.
2. **What is NTP server?**

NTP server is a server computer that reads the actual time from a reference clock and distributes this information to its clients using network. Your camera will get the exact time through an NTP server by offering the time zone of its location.

Firmware Update

Update the device to the latest firmware version which can be found on our official website.

Restore to factory default	<input type="button" value="Restore to factory default"/>	
Reboot	<input type="button" value="Reboot"/>	
Update Device Firmware	<input type="text"/>	<input type="button" value="Browse ..."/> <input type="button" value="Update"/>
Update Device Web UI	<input type="text"/>	<input type="button" value="Browse ..."/> <input type="button" value="Update"/>

Note:

1. Please choose proper update package according to product model of the camera.
2. Use cable network NOT Wi-Fi during the update process.
3. Make sure that the update process is operated under continuous power supply.
4. The whole process may take about 1 minute. Please wait until camera reboots.
5. Please operate under the guidance of professional personage in case of updating failure.
6. We are not responsible for any improper operation that leads to camera crash.

Restore to factory default	Restore the camera's settings to factory default
Reboot	Reboot the camera
Update Device Firmware	Update camera's firmware
Update Device Web UI	Update camera's web interface



Notice:

1. Please choose the appropriate firmware package based on your camera model.
2. Please ensure the camera is hard wired to your router via a ethernet cable.
3. Firmware updating... Please do not disconnect power supply or network connection while updating!
4. The entire update process takes about 1 minute. The camera will reboot once update complete
5. Please conduct firmware upgrade under professional guidance.

Recording Path

Recording is only available for IE browser.

Record Path	C:\	Select...
Record file size(MB)	100	100MB - 1000MB
Record time(Minute)	5	5Minutes - 120Minutes
Reserved disk space(MB)	200	>=200MB
Overwrite record file	<input type="checkbox"/>	

Recording Path	Camera's destination folder to record to
Record file size(MB)	The size of record file.
Record time(Minute)	The time limit of record file
Reserved disk space(MB)	Reserved disk space
Overwrite record file	Whether the camera overwrite record file if there is no free disk space



Notice:

If it does not work, please run IE as administrator. Right click IE browser and pick Run as Administrator

Other Setting

On Screen Display	Disable ▾
Power indicator LED	Enable ▾
Pan/Tilt speed	Fast ▾
Cruise Laps	1 ▾
Enable Preset Position	<input checked="" type="checkbox"/>
Go preset position on booting	Disable ▾

On Screen Display	Show camera's information on video
Power indicator LED	Control camera's front green LED
Pan/Tilt speed	Set up camera's Pan/Tilt speed
Cruise Laps	Set up laps for patrol
Enable Preset Position	Enable or disable preset position function
Go preset position on booting	Enable or disable go preset position on booting



Tips:


What are preset positions?


Preset positions are IP camera's memorized P/T positions. Once you set a preset position, you do not need to pan the camera to your preferred position. You simply press the preset


button that corresponds to the preset you want to see and the camera will move to that position automatically.

Wireless Settings


1. Go to Wi-Fi setting page.

Connection Status	TP-Tennis
SSID	<input type="text"/> 
Camera will auto-reboot after saving settings	

2. Click  Rescan in Wireless Network and pick your preferred WI-FI SSID. Fill in the wireless network password. Click Save and wait for camera reboot.

Connection Status	TP-Tennis
SSID	<div>ChinaNet-eYSd TP-Tennis TENVIS-2.4</div> 
Wi-Fi Password	<input type="password"/>
Camera will auto-reboot after saving settings	

3. After reboot, if Connection Status shows the SSID that means the camera has connected to the wireless network successfully.

Connection Status	TP-Tennis
SSID	<div>ChinaNet-eYSd TP-Tennis TENVIS-2.4</div> 
Camera will auto-reboot after saving settings	



Tips:

For security concern, please set your Wi-Fi network as WEP encryption or OPEN.

Attached List

Port Forwarding of Common Routers

Before you set up port forwarding manually, please check 2 things before you do it.

1. Make sure you know the router's brand, access URL, username and password. If you do not know them, please get help from the provider of the router, such as your ISP.
2. Find your camera's IP address and port. You can find them in your network configuration.

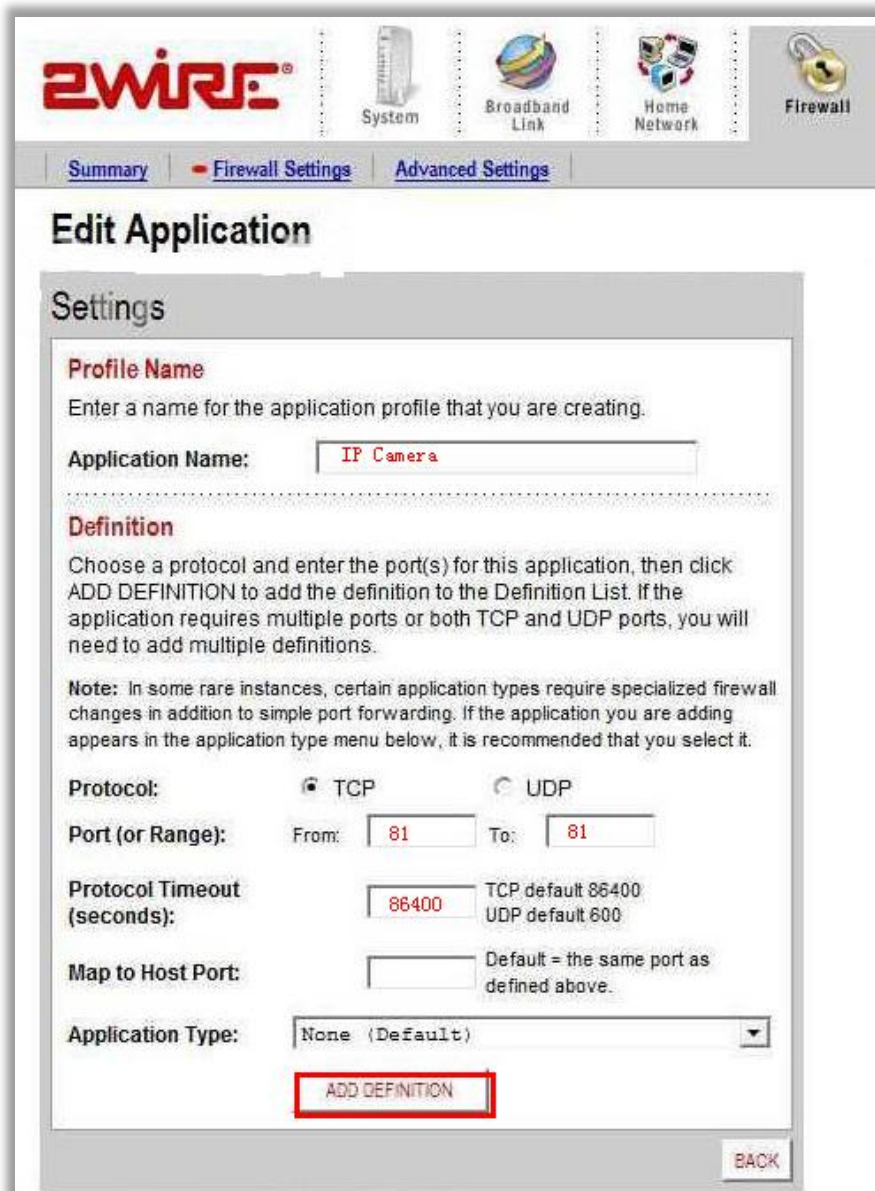
Obtain IP address from DHCP server	<input type="checkbox"/>
IP Address	192.168.2.94
Subnet Mask	255.255.255.0
Gateway	192.168.2.2
DNS Server1	8.8.8.8
DNS Server2	202.96.128.166
Web Port	81
Camera will auto-reboot after saving settings	

The IP and port of the camera is very important for port forwarding.

For 2wireRouter

1. Open a web browser like Internet Explorer, Chrome, Firefox & etc. Enter the internal IP address of your router in the address bar of your browser. The default URL is <http://192.168.1.1>
2. Click the **Firewall Settings** button, and then click **Add a new user-defined application**

3. Add a new user-defined application.



The image shows a web-based configuration interface for a ZyWIRE Firewall. At the top, there is a navigation bar with the ZyWIRE logo and icons for System, Broadband Link, Home Network, and Firewall. Below this is a sub-navigation bar with links for Summary, Firewall Settings (which is highlighted with a red minus sign), and Advanced Settings. The main heading is "Edit Application". Underneath, there is a "Settings" section. The "Profile Name" field is empty, with a note to "Enter a name for the application profile that you are creating." The "Application Name" field contains the text "IP Camera". The "Definition" section contains instructions on how to choose a protocol and enter port(s), and a note about specialized firewall changes. The "Protocol" is set to TCP. The "Port (or Range)" is set from 81 to 81. The "Protocol Timeout (seconds)" is set to 86400, with a note that the TCP default is 86400 and the UDP default is 600. The "Map to Host Port" field is empty, with a note that the default is the same port as defined above. The "Application Type" is set to "None (Default)". A red box highlights the "ADD DEFINITION" button. A "BACK" button is located at the bottom right of the settings section.

Summary | **- Firewall Settings** | [Advanced Settings](#)

Edit Application

Settings

Profile Name
Enter a name for the application profile that you are creating.

Application Name:

Definition
Choose a protocol and enter the port(s) for this application, then click ADD DEFINITION to add the definition to the Definition List. If the application requires multiple ports or both TCP and UDP ports, you will need to add multiple definitions.

Note: In some rare instances, certain application types require specialized firewall changes in addition to simple port forwarding. If the application you are adding appears in the application type menu below, it is recommended that you select it.

Protocol: ☒ TCP ☐ UDP

Port (or Range): From: To:

Protocol Timeout (seconds): TCP default 86400
UDP default 600

Map to Host Port: Default = the same port as defined above.

Application Type:

ADD DEFINITION

BACK

Application Name: It is just a name whatever you want for port forwarding,

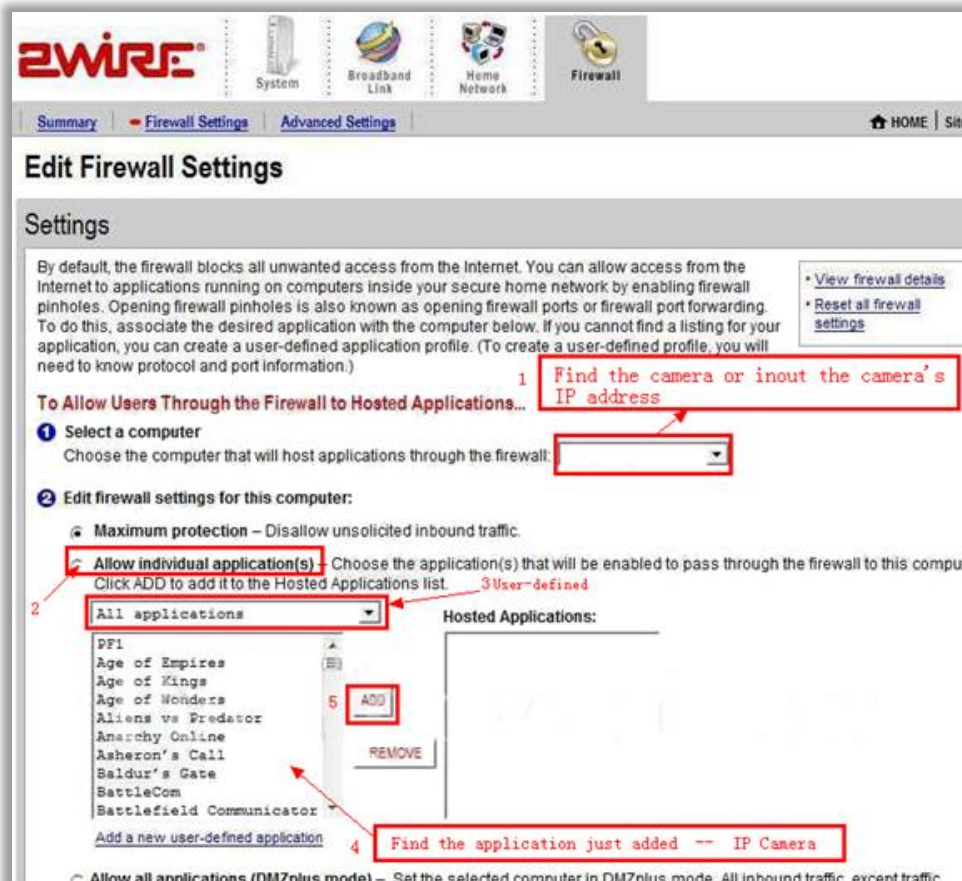
Protocol: TCP

Port for range: port of the camera

Protocol timeout: 86400

Click **Add**.

4. Sign the application for the IP Camera



Select Computer

Select the IP camera in the list. You could choose the IP address or input the camera's IP address; it depends on the router's model.

Select **allow individual application**

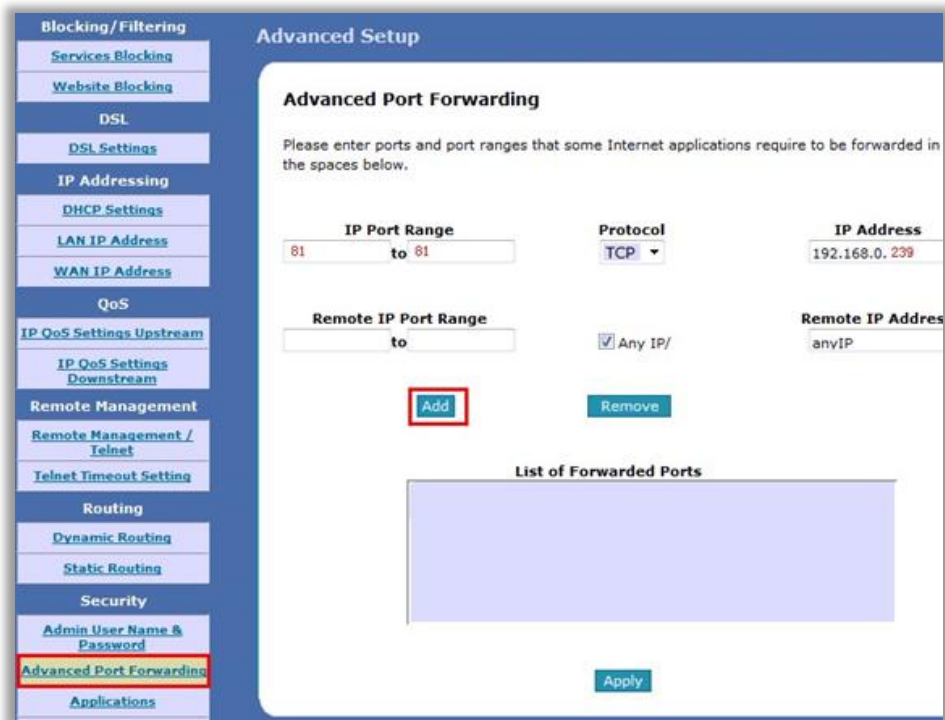
Select **User-defined**

Find your application you just added.

Click **Add**

For Actiontec Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is <http://192.168.0.1>
2. Click **Advanced Port Forwarding**



IP Port Range: The camera's port.

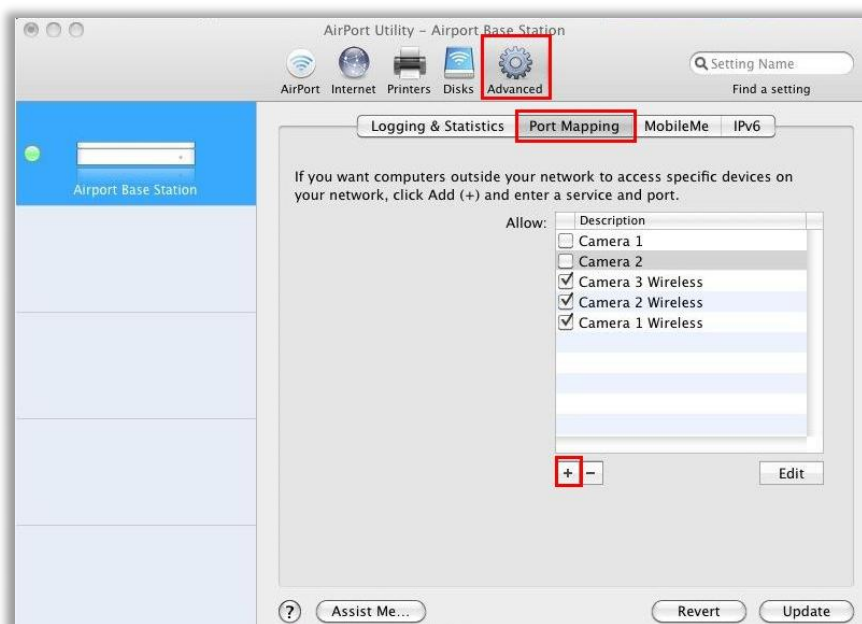
Protocol: TCP

IP Address: The camera's IP address.

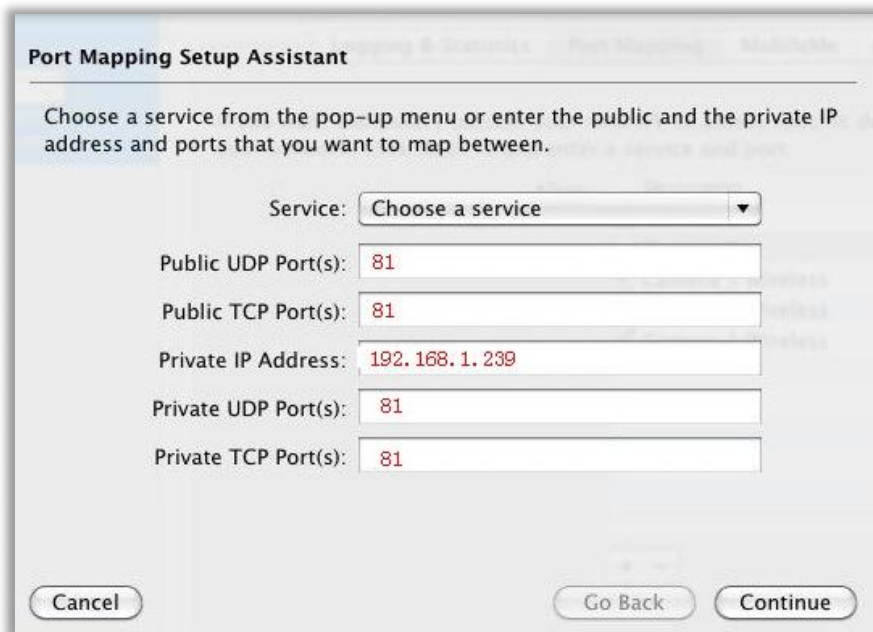
Click **Apply**

For Apple Airport Extreme or Time Capsule

1. Go to your finder and type in Airport in the search bar and find your Airport Utility program.
2. Find the Advanced Tab at the top and select it
3. Choose the Port Mapping option.



Add a service for IP camera.



The 'Port Mapping Setup Assistant' dialog box is shown. It has a title bar with 'Port Mapping' and 'Multiple' tabs. The main instruction says: 'Choose a service from the pop-up menu or enter the public and the private IP address and ports that you want to map between.' The form contains the following fields: 'Service:' with a dropdown menu showing 'Choose a service'; 'Public UDP Port(s):' with the value '81'; 'Public TCP Port(s):' with the value '81'; 'Private IP Address:' with the value '192.168.1.239'; 'Private UDP Port(s):' with the value '81'; and 'Private TCP Port(s):' with the value '81'. At the bottom are three buttons: 'Cancel', 'Go Back', and 'Continue'.

Service: Choose a service

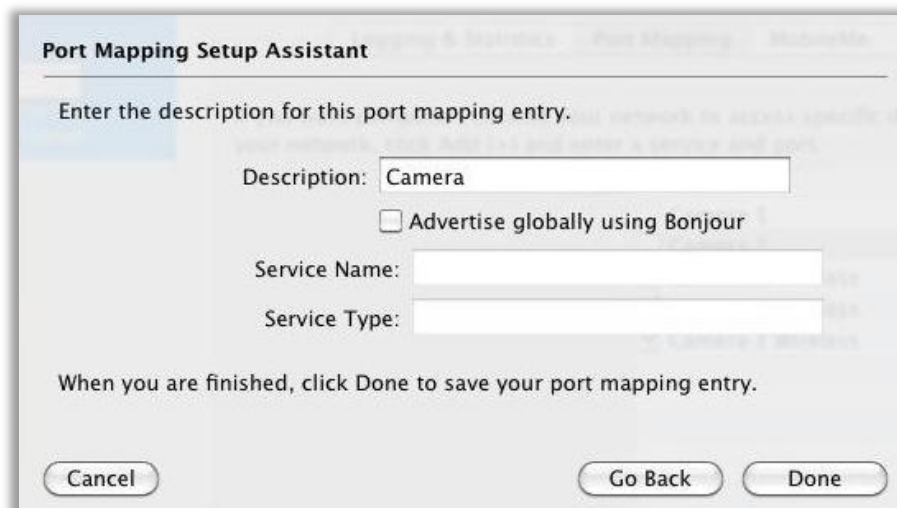
Public UDP Ports: the camera's port

Public TCP ports: the camera's port

Private IP Address: the camera's IP address

Private UDP ports: the camera's port

Private TCP ports: the camera's port



The 'Port Mapping Setup Assistant' dialog box is shown. It has a title bar with 'Port Mapping' and 'Multiple' tabs. The main instruction says: 'Enter the description for this port mapping entry.' The form contains the following fields: 'Description:' with the value 'Camera'; a checkbox labeled 'Advertise globally using Bonjour' which is unchecked; 'Service Name:' with an empty text box; and 'Service Type:' with an empty text box. At the bottom are three buttons: 'Cancel', 'Go Back', and 'Done'. A note at the bottom says: 'When you are finished, click Done to save your port mapping entry.'

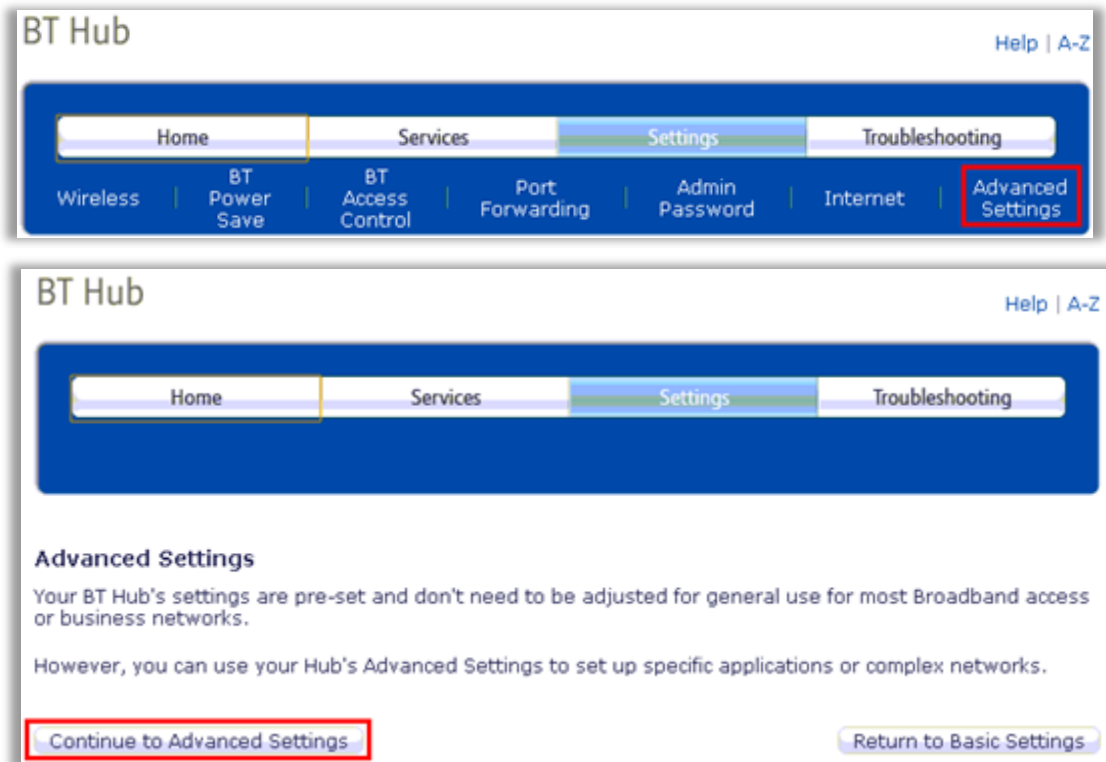


Tips:

Be sure to click on the Update button after making these changes to upload them to your Airport.

For BT BTHomeHub Routers

1. Open a web browser like Internet Explorer, Chrome, Firefox & etc. Enter the internal IP address of your router in the address bar of your browser. For BT routers, in general, it is <http://192.168.1.254>
2. Click **Advanced Settings** and Continue to Advanced Settings



3. Click **Supported Applications** and **Add new game or application**

BT Hub Help | A-Z

Home | Services | **Settings** | Troubleshooting

Wireless | Broadband | Static IP | Business Network | **Port Forwarding** | System | Basic Settings

Configuration | **Supported Applications** | UPnP | DMZ | Firewall

Add User Defined Game or Application

Game/application name:

Copy an existing game/application: ☒ Yes ☐ No

▼

Game or Application Definition

A game or application is made up of one or more TCP/UDP port ranges. Each incoming port range can be translated into a different internal (private network) port range.

Protocol	Port Range	Translate To	
<input type="text" value="Any"/> ▼	<input type="text" value="81"/> - <input type="text" value="81"/>	<input type="text" value="81"/> - <input type="text" value="81"/>	<input type="button" value="Add"/>

No port maps defined for this game or application

Game/Application name: It is just a name whatever you want for port forwarding,

Protocol: Any or TCP

Port Range: The port of the camera

4. Click Configuration; Select the application you just added in Game or Application List. Select User Defended IP Address in the **Device** List.

Enter the camera's IP address into **Device IP Address**.

BT Hub Help | A-Z

Home | Services | **Settings** | Troubleshooting

Wireless | Broadband | Static IP | Business Network | **Port Forwarding** | System | Basic Settings

Configuration | Supported Applications | UPnP | DMZ | Firewall

Port Forwarding

Port Forwarding is used by devices, such as games consoles, and applications, such as servers, to make sure that data coming from the Internet gets to the device that needs to use it. When Port Forwarding is enabled, your BT Hub will send all incoming traffic for that application or game to the chosen device.

Game or Application: ipcamera **Device:** User Defined IP Address

Device IP Address: 192.168.1.239 Add

Apply Cancel

For D-link Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For D-link routers, in general, it is <http://192.168.0.1>
2. Click **Advanced - Virtual Server**

SETUP | **1 ADVANCED** | TOOLS | STATUS

VIRTUAL SERVER

6 The Virtual Server option allows you to define a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.

Save Settings Don't Save Settings

24--VIRTUAL SERVERS LIST

	Port	Traffic Type	Schedule
<div style="border: 1px solid red; padding: 2px;"> <input checked="" type="checkbox"/> IP Camera IP Address: 192.168.0.239 </div>	<div style="border: 1px solid red; padding: 2px;"> Public: 81 Private: 81 </div>	<div style="border: 1px solid red; padding: 2px;"> Protocol: TCP Port: 81 </div>	<div style="border: 1px solid red; padding: 2px;"> Schedule: Always Inbound Filter: Allow All </div>

Name: It is just a name whatever you want for port forwarding,

Public: the camera's port

Private: the camera's port

Protocol: TCP

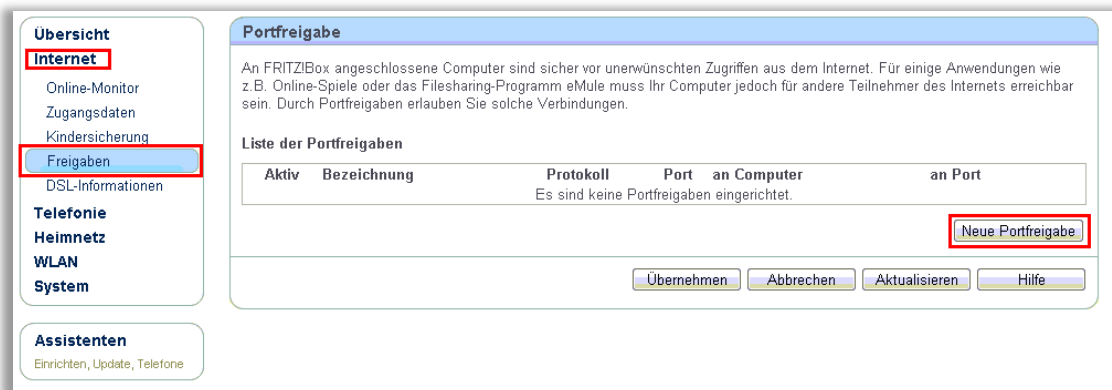
Schedule: Always

Inbound Filter: Allow All

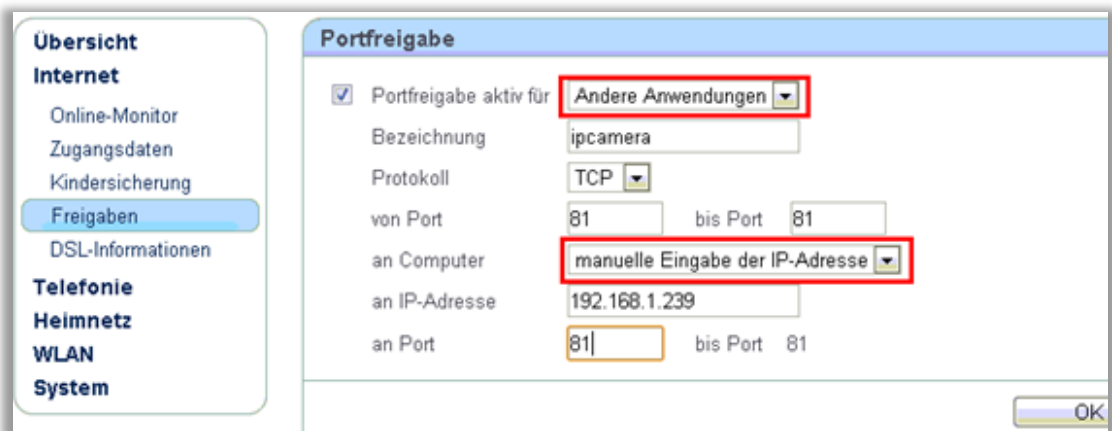
Click **Save Settings**

For FRITZ!! Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser to login your camera. By default the IP address should be set to http://192.168.178.1
2. Click the Internet link and then click **Portfreigabe**. In the **portfreigabe**, click **Neue Portfreigabe**.



3. Do port forwarding



Select **Andere Anwendungen** from the **Portfreigabe aktiv für** drop down box.

Bezeichnung: A name, whatever you want

Protokoll: TCP

von Port: The camera's port

bis Port: The camera's port

an Computer: manuelle Eingabe der IP-Adresse

an IP-Adresse: The camera's IP address

an Port: The camera's port

ForHuawei Routers

1. Enter the internal IP address of your router in the address bar of web browser. For these

routers, in general, it is http://192.168.1.1

2. Click **Advanced - NAT**, and click **Port Mapping**

Name: Whatever you want, it is just a name, e.g. TENVIS IP Camera

Public: the camera's http port, e.g. 81

Private: the camera's http port, e.g. 81

Protocol: TCP

Schedule: Always

Inbound Filter: Allow All

Click **Save Settings**

For Linksys W Series Routers

1. Enter the internal IP address of your router in the address bar of web browser. For these Series routers, in general, it is http://192.168.1.1
2. Click **Application & Gaming** and click **Single Port Forwarding**

External Port	Internal Port	Protocol	To IP address	Enabled
---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
81	81	TCP	192 . 168 . 1 . 239	<input checked="" type="checkbox"/> Enable
		TCP	192 . 168 . 1 . 0	<input type="checkbox"/>
		TCP	192 . 168 . 1 . 0	<input type="checkbox"/>
		TCP	192 . 168 . 1 . 0	<input type="checkbox"/>

Application Game: It is just a name whatever you want for port forwarding,

External Port: the camera's port

Internal Port: the camera's port

Protocol: TCP

To IP address: the camera's IP address

Enabled: Enable

For Movistar Routers

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.1.1
2. Click **Firewall - Port Forwarding**

TECOM ADSL Router

Port Forwarding

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.

Port Forwarding: ☐ Disable ☒ Enable

Protocol: Comment: ☒ Enable

Remote IP Address: Public Port: -

Local IP Address: Local Port: -

Interface:

Current Port Forwarding Table:

Select	Local IP Address	Protocol	Local Port	Comment	Enable	Remote Host	Public Port	Interface
<input type="checkbox"/>	192.168.1.33	TCP+UDP	23023		Enable		23023	ppp0

Comment: It is just a name whatever you want for port forwarding,

Public Port: the camera's port

Local Port: the camera's port

Remote IP Address: N/A

Local IP Address: the camera's IP address

Click **Add**

For Netgear Routers 1

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.1.254
2. Click **Port Forwarding/Port Triggering** or **Port Forwarding**. Select **Port Forwarding** and select **Add Custom Service**

NETGEAR
SMARTWIZARD router manager
54 Mbps Wireless Router model WGR614v9

- Schedule
- Maintenance
 - Router Status
 - Attached Devices
 - Backup Settings
 - Set Password
 - Router Upgrade
- Advanced
 - Wireless Settings
 - Wireless Repeating Function
 - Port Forwarding / Port Triggering**
 - WAN Setup
 - LAN Setup

Port Forwarding / Port Triggering

Please select the service type

☒ Port Forwarding
☐ Port Triggering

Service Name: Server IP Address:

#	Service Name	Start Port	End Port	Server IP Address
<input type="button" value="Edit Service"/> <input type="button" value="Delete Service"/> <input type="button" value="Add Custom Service"/>				

Or

Port Forwarding

Active Forwarding Rules

Name	Start Port	End Port	Protocol	Local IP Address
Choose Predefined Service Service: <input type="text" value="-SERVICES-"/>				
Add Custom Rules				
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="Both"/>	<input type="text" value="192.168.0.1"/>
<input type="button" value="Add"/> <input type="button" value="Delete"/> <input type="button" value="Reset"/>				

Setup

- Basic Settings
- Wireless Settings
- WPS Settings
- Wi-Fi Multimedia

Maintenance

- Gateway Status
- Connection
- Set Password
- Backup
- Event Log
- Diagnostics

Advanced

- Wireless Settings
- Dynamic DNS
- MAC Filtering
- IP Filtering
- Port Blocking
- Port Forwarding**
- Port Triggering

Port Forwarding

Active Forwarding Rules				
Name	Start Port	End Port	Protocol	Local IP Address
Choose Predefined Service				
Service	-SERVICES-			
Add Custom Rules				
Name	Start Port	End Port	Protocol	Local IP Address
			Both	192.168.0.1
			Add	Delete Reset

3. Do port forwarding

NETGEAR

SMARTWIZARD

router manager
54 Mbps Wireless Router model WGR614

- Block Services
- Schedule
- E-mail

Maintenance

- Router Status
- Attached Devices
- Backup Settings
- Set Password
- Router Upgrade

Advanced

- Wireless Settings
- Port Forwarding / Port Triggering**
- WAN Setup

Ports - Custom Services

Service Name	IP Camera		
Service Type	TCP/UDP		
Starting Port	81	(1~65534)	
Ending Port	81	(1~65534)	
Server IP Address	192	168	1 239

Apply
Cancel

Or

Setup

- Basic Settings
- Wireless Settings
- WPS Settings
- Wi-Fi Multimedia

Maintenance

- Gateway Status
- Connection
- Set Password
- Backup
- Event Log
- Diagnostics

Advanced

- Wireless Settings
- Dynamic DNS
- MAC Filtering
- IP Filtering
- Port Blocking
- Port Forwarding**
- Port Triggering

Port Forwarding

Active Forwarding Rules				
Name	Start Port	End Port	Protocol	Local IP Address
Choose Predefined Service				
Service: -SERVICES-				

Add Custom Rules

Name	Start Port	End Port	Protocol	Local IP Address
IPCamera	81	81	Both	192.168.1.239

Add Delete Reset

Service Name: It is just a name whatever you want for port forwarding,

Starting Port: port of the camera

Ending Port: port of the camera

Service IP Address: IP of the camera

For Netgear Routers 2

1. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is http://192.168.1.254
2. Click the **Services** link and Click **Add Custom Service** button.

Setup Wizard

- Setup
 - Basic Settings
 - ADSL Settings
 - Wireless Settings
- Content Filtering
- Logs
- Block Sites
- Firewall Rules
- Services**
- Schedule
- E-mail

Services

Service Table	
#	Service Type
Add Custom Service Edit Service	

3. Add an IP camera service

Add Services

Service Definition

Name: IP camera

Type: TCP

Start Port: 81

Finish Port: 81

Apply Cancel

Name: Whatever you want

Type: TCP

Start Port: The camera's port

End Port: The camera's port

- Click the **Firewall Rules** link; and then click the **Inbound Services Add** button.

Firewall Rules

Outbound Services

#	Enable	Service Name	Action	LAN Users
Default	Yes	Any	ALLOW always	Any

Add Edit Move Delete

Inbound Services

#	Enable	Service Name	Action	LAN Server IP address
Default	Yes	Any	BLOCK always	Any

Add Edit Move Delete

Instant Messaging (IM) Ports

☐ Close IM Ports

☐ Open IM Ports (IM ports are open by default)

Apply Cancel

- Add the user-defined IP Service in **Inbound Services**.

Inbound Services

Service: IP Camera

Action: ALLOW always

Send to LAN Server: 192.168.1.239

WAN Users: Any

start: . . .

finish: . . .

Log: Always

Apply Cancel

Service: Select the service you added in Service settings

Action: Allow always

Send to LAN Server: The IP of the IP Camera

Wan User: Any

Log: Always or None

For Netgear Routers 3

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.1.254
2. Click the **Port Forwarding / Port Triggering** link and Click **Add Custom Service** button.

Port Forwarding / Port Triggering

Please select the service type

☒ Port Forwarding
☐ Port Triggering

Service Name: AIM Server IP Address: 192 . 168 . 1

#	Service Name	Start Port	End Port
1	utorrent	6821	6821
2	AIM	5190	5190
3	DC	6789	6789

Edit Service Delete Service

Add Custom Service

3. Add a customer service for the camera

Ports - Custom Services

Service Name: ip camera

Service Type: TCP/UDP

Starting Port: 81 (1~65534)

Ending Port: 81 (1~65534)

Server IP Address: 192 . 168 . 1 . 239

Apply Cancel

Name: It is just a name, whatever you want for port forwarding,

Type: TCP

Start Port: The camera's port

End Port: The camera's port

Server IP Address: The camera's IP address

For O2/ Thomson routers

1. Open <http://192.168.1.254> in a web browser. If you are prompted for a login, the username is "Administrator" and the password is the serial number of your router (printed on its underside, excluding the bit in brackets).
2. Click **Toolbox > Game & Application Sharing > Create a new game or application**.

Pick a task

- > Assign a game or application to a local network device
- > **Create a new game or application**
- > Modify a game or application

3. Enter the name of your application, e.g. IP Camera, click "Manual Entry of Port Maps", and then click Next.

New Game or Application

Enter the name of the new game or application.

Name:

IP Camera

Select how you want to define the new game or application.

☐ Clone Existing Game or Application

ABC (Another Bittorent Client)

☒ Manual Entry of Port Maps

Next

Cancel

4. Select the protocol of your application from the drop down list under Protocol option. Enter port number of your camera in the two text boxes under Port Range option, and then click Add. Repeat this step for all the ports you need to forward.

Protocol	Port Range	Translate To ...	Trigger Protocol	Trigger Port
No port maps defined for this game or application.				
TCP	81 to 81		Any	
Add				

5. Click **Assign a game or application to a local network device**.

Pick a task

- > **Assign a game or application to a local network device**
- > Create a new game or application

6. Select your newly created application in "Game or Application", e.g. "IP Camera" select your device in Device or select User Define and input the camera's IP address, e.g. "192.168.1.239", then click Add.

Game or Application	Device	Log
No games or applications assigned.		
IP Camera	User Define	<input type="checkbox"/>
IP		192.168.1.239
<input type="button" value="Add"/>		

For Sky/Sagmen Routers

1. Enter the internal IP address of your router in the address bar of web browser. For Sky/Sagmen routers, in general, it is http://192.168.0.1
2. Click **SECURITY - SERVICE**, and click **ADD CUSTOM SERVICE**

SETUPSECURITYMAINTENANCEADVANCED

LOGSBLOCK SITESFIREWALL RULESSERVICES | SCHEDULE |

BROADBAND SETUP

SERVICES

Service Table

#	Service Type	Ports
---	--------------	-------

3. Add a Custom Service

SETUP | SECURITY | MAINTENANCE | ADVANCED

LOGS | BLOCK SITES | FIREWALL RULES | SERVICES | SCHEDULE

BROADBAND SETUP

SERVICES - ADD CUSTOM SERVICE - PORT FORWARDING

Service Definition

Name:

Type:

Start Port:

Finish Port:

Name: It is just a name whatever you want for port forwarding,

Start Port: the camera's port

Finish Port: the camera's port1

Type: TCP

Click **APPLY**

- Click **SECURITY - FIREWALL RULES - INBOUND SERVICE**, add the service to the camera

SETUP | SECURITY | MAINTENANCE | ADVANCED

LOGS | BLOCK SITES | FIREWALL RULES | SERVICES | SCHEDULE

BROADBAND SETUP

FIREWALL RULES - INBOUND SERVICES

Service:

Action:

Send to LAN Server: . . .

WAN Users:

Start: . . .

Finish: . . .

Log:

Service: Select the service you just added.

Action: ALLOW always

Send to LAN Server: The camera's IP address

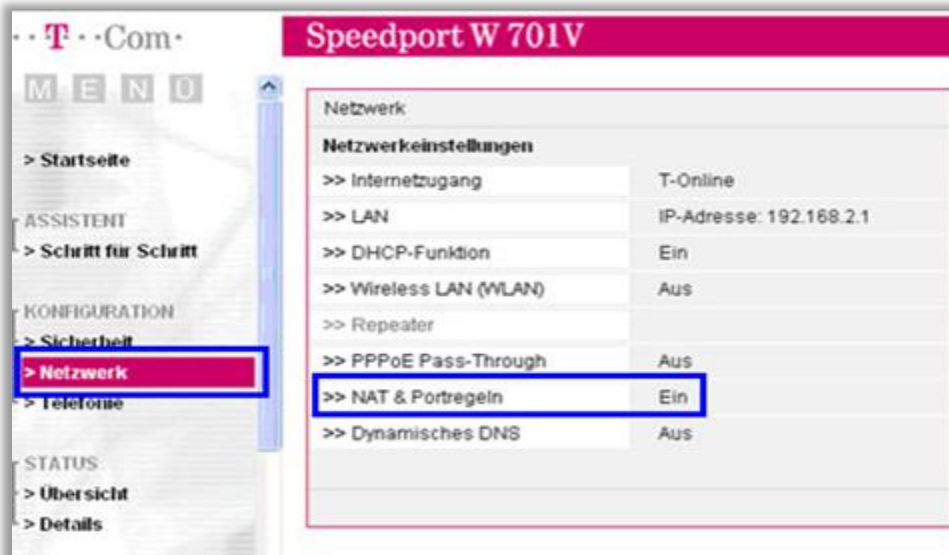
WAN Users: Any

Log: Never

Click **APPLY**

For Speedport Routers 1

1. Login your router. Click **Netzwerk** and **NAT & Portregeln**.



2. Click **Neue Regel anlegen**



3. Set port forwarding.

..T..Com.. Speedport W 701V

M E N U

- > Startseite
- ASSISTENT
 - > Schritt für Schritt
- KONFIGURATION
 - > Sicherheit
 - > Netzwerk**
 - > Telefonie
- STATUS
 - > Übersicht
 - > Details

Bezeichnung: ☒ Aktiv

IP-Adresse:

Protokoll:

Port-Übersicht:

Ungeleitete Ports - Öffentlich

Ports:

Ungeleitete Ports - Private Client

Ports:

Bezeichnung: A name for port forwarding

IP-Adresse: The camera's IP address

Protokoll: TCP

Ports: The camera's port

Ports: The camera's port

4. Then the camera has been forwarded to Internet.

..T..Com.. Speedport W 701V

M E N U

- > Startseite
- ASSISTENT
 - > Schritt für Schritt
- KONFIGURATION
 - > Sicherheit
 - > Netzwerk**
 - > Telefonie
- STATUS
 - > Übersicht
 - > Details

Netzwerk / NAT & Portregeln

NAT

>> NAT Einstellungen NAT eingeschaltet

Portregeln

>> Neue Regel anlegen

>> IP Camera	192.168.1.239:81
--------------	------------------

For Speedport (Deutsch) Routers 2

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is <http://192.168.1.1>
2. Click **Netzwerk - Nat & Portregeln**, and click **ADD CUSTOM SERVICE**

T-Com **Speedport W 700V**

Modus T-DSL / Festnetz

- > Startseite
- ASSISTENT
- > Schritt für Schritt
- KONFIGURATION
 - > Sicherheit
 - > Netzwerk**
 - > Telefonie
- STATUS
- > Übersicht

Netzwerk

Netzwerkeinstellungen

>> Internetzugang	T-Online
>> LAN	IP-Adresse: 192.168.2.1
>> DHCP-Funktion	Ein
>> Wireless LAN (WLAN)	Ein
>> Repeater	Aus
>> PPPoE Pass-Through	Aus
>> NAT & Portregeln	0 Regel(n)
>> Dynamisches DNS	Ein

- Click **PCs übernehmen & freigeben**

Modus T-DSL / Festnetz

- > Startseite
- ASSISTENT
- > Schritt für Schritt
- KONFIGURATION
 - > Sicherheit
 - > Netzwerk**
 - > Telefonie

Netzwerk / NAT & Portregeln

PC Liste für Portregeln

>> PCs übernehmen & freigeben	1 PCs übernommen
--	------------------

Portregeln

>> Port-Weiterleitung	0 Regel(n)
>> Port-Umleitung	0 Regel(n)
>> Port-Öffnung (dynamisch)	0 Regel(n)

- Find your IP camera here and Add PC-Name to the camera

Modus T-DSL / Festnetz

- > Startseite
- ASSISTENT
- > Schritt für Schritt
- KONFIGURATION
 - > Sicherheit
 - > Netzwerk**

Netzwerk / NAT & Portregeln / PCs übernehmen & freigeben

PCs übernehmen & freigeben

MAC-Adresse	IP-Adresse	PC-Name	
64-70-02-FD-7D-EB	192.168.1.239	TENVIS	Übern.

- Click **SECURITY - FIREWALLRULES**, add the service to the camera

Modus T-DSL / Festnetz	Netzwerk / NAT & Portregeln	
<ul style="list-style-type: none"> > Startseite ASSISTENT > Schritt für Schritt KONFIGURATION > Sicherheit > Netzwerk > Telefonie 	PC Liste für Portregeln	
	>> PCs übernehmen & freigeben	1 PCs übernommen
	Portregeln	
	>> Port-Weiterleitung	0 Regel(n)
	>> Port-Umleitung	0 Regel(n)
	>> Port-Öffnung (dynamisch)	0 Regel(n)

6. Select **Neue Regel definieren**

Modus T-DSL / Festnetz	Netzwerk / NAT & Portregeln / Port-Weiterleitung
<ul style="list-style-type: none"> > Startseite ASSISTENT > Schritt für Schritt KONFIGURATION > Sicherheit > Netzwerk > Telefonie STATUS > Übersicht > Details 	Port-Weiterleitung
	>> Neue Regel definieren
	>> Neue Regel definieren
	>> Neue Regel definieren
	>> Neue Regel definieren
	>> Neue Regel definieren
	>> Neue Regel definieren
	>> Neue Regel definieren
	>> Neue Regel definieren
	>> Neue Regel definieren

7. Set port forwarding

Bezeichnung: It is just a name whatever you want for port forwarding

Gültig für PC: Select the camera you just added

TCP: The camera's port

For TP-Link Routers 1

1. Enter the internal IP address of your router in the address bar of your browser. For TP-link routers, in general, it is `http://192.168.1.1`
2. Click **Forwarding - Virtual Servers**

3. Set port forwarding

Add or Modify a Virtual Server Entry

Service Port: (XX-XX or XX)

Internal Port: (XX, Only valid for single Service Port or leave it blank)

IP Address:

Protocol:

Status:

Common Service Port:

Service Port: the camera's port

Internal Port: the camera's port

IP Address: the camera's IP address

Protocol: ALL or TCP

Status: Enabled

Click **Save**

For TP-Link / Binatone Routers

1. Open a web browser like Internet Explorer or Chrome. Enter the internal IP address of your router in the address bar of your browser. For these routers, in general, it is <http://192.168.1.1>
2. Click **Advanced Setup - Virtual Servers**

Advanced | Quick Start | Interface Setup | **Advanced Setup** | Access Management | Maintenance

Firewall | Routing | **NAT** | QoS | VLAN | ADSL

NAT

Virtual Circuit :

NAT Status : Activated

Number of IPs : ☒ Single ☐ Multiple

3. Set port forwarding

Virtual Server

Virtual Server for : Single IP Account

Rule Index : 1

Application : tennis

Protocol : ALL

Start Port Number : 81

End Port Number : 81

Local IP Address : 192.168.1.239

Application: A name for port forwarding, e.g. TENNIS

Protocol: ALL or TCP

Start Port Number: the camera's http port, e.g. 81

End Port Number: the camera's http port, e.g. 81

Local IP Address: the camera's IP address, e.g. 192.168.1.239

Click **Save**

For Virgin Routers 1

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.0.1 or http://192.168.0.254
2. Click **Advanced - Port Forwarding**

Virgin media

Filtering

- Logs
- Block Sites
- Services

Maintenance

- Gateway Status
- Connection
- Set Password
- Backup
- Event Log
- Diagnostics

Advanced

- Wireless Settings
- MAC Filtering
- IP Filtering
- Port Blocking
- Port Forwarding**
- Port Triggering
- DMZ Host
- LAN IP

Port Forwarding

Active Forwarding Rules

	Name	Start Port	End Port	Protocol	Local IP Address
<input type="radio"/>	ip 1	81	81	Both	192.168.0.239
<input type="radio"/>	ip 2	82	82	Both	192.168.0.240

Choose Predefined Service

Service: -SERVICES-

Add Custom Rules

Name	Start Port	End Port	Protocol	Local IP Address
TENVIS	81	81	Both	192.168.0.239

Add **Delete** **Reset**

Name: A name whatever you want for port forwarding

Start Port: the camera's port

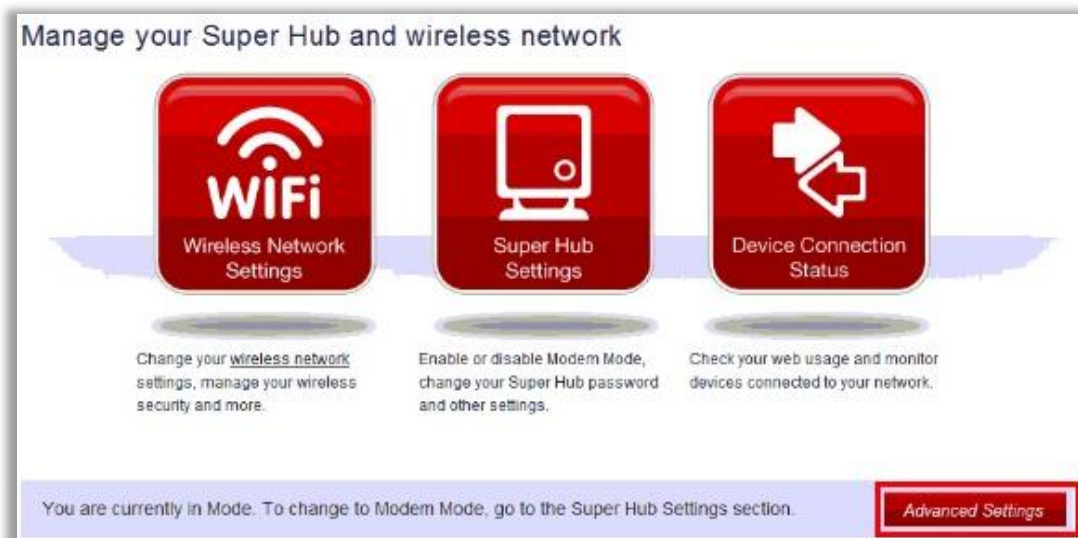
End Port: the camera's port

Local IP Address: the camera's IP address

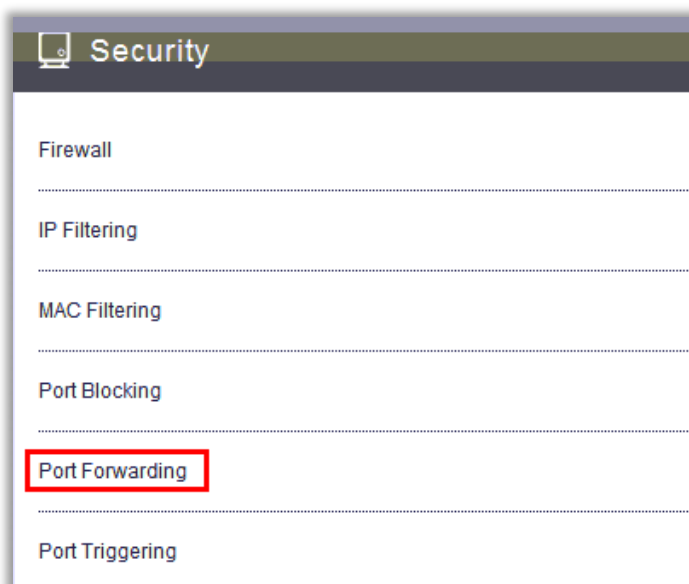
Click **Add**

For Virgin Routers 2

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is <http://192.168.0.1>
2. Click **Advanced Settings**



3. Select Port Forwarding



4. Set Port Forwarding

Predefined Rule

Service ?

Add Rule

Name ?

Start Port ? End Port ?

Protocol ?

IP Address ?

Name: A name whatever you want for port forwarding

Start Port: the camera's port

End Port: the camera's port

Protocol: TCP

IP Address: the camera's IP address

Click **Add Rule**

For Webtell Routers

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is http://192.168.200.1
2. Click **Security - Service - Port Forwarding**



3. Click **new custom service**

Security > Services > Port Forwarding

Current Profile: Default ▾

new edit

Service Name: Select A Service ▾

* * Denotes Custom Service

enable delete edit

UPnP Enable ☐

new custom service

* If your firewall is enabled, the firewall rules take precedence over the Services.

static NAT

4. Add a new custom service

Security > Services > Port Forwarding > New Custom Service

Service Name: TENNIS

Protocol: both ▾

Start Port: 81

End Port: 81

LAN Port: 81

Direction: in ▾

Port Direction: dst ▾

add done

Service Name: A name whatever you want for port forwarding
Select the service you just added.

5. And click **static NAT**

Security > Services > Port Forwarding

Current Profile: Default

new delete edit

Service Name Age of Empires II: The Conquerors

UPnP Enable

Service Name **LAN**

ip camera 1 192.

new custom service

* If your firewall is enabled, you must manually configure the services.

static NAT

delete

TEWIS

6. Enter the IP address of the camera, click **Enable**.

Static NAT

Set up an IP address to be your default NAT destination.

Static NAT Device 94:44:52:95:7E:0E

or specify

IP Address 192.168.200.239

All unsolicited inbound traffic will be sent to the above device.

Note: Static NAT and Single Static IP are mutually exclusive features.

enable disable cancel

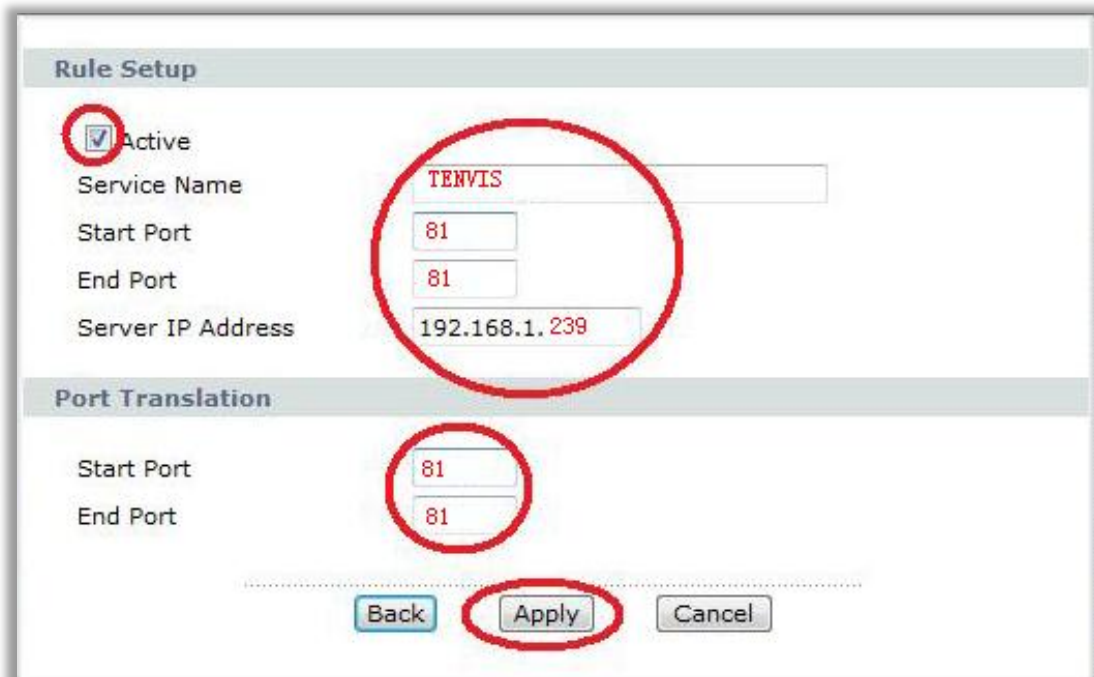
[Help](#)

For Zyxel Routers

1. Enter the internal IP address of your router in the address bar of web browser. For these routers, in general, it is `http://192.168.1.254`
2. Click **Network - NAT**, and click **Port Forwarding**



3. Add a new rule



Service Name: It is just a name whatever you want for port forwarding

Start Port: the camera's port

End Port: the camera's port

IP Address: The camera's IP address

Click **Apply**