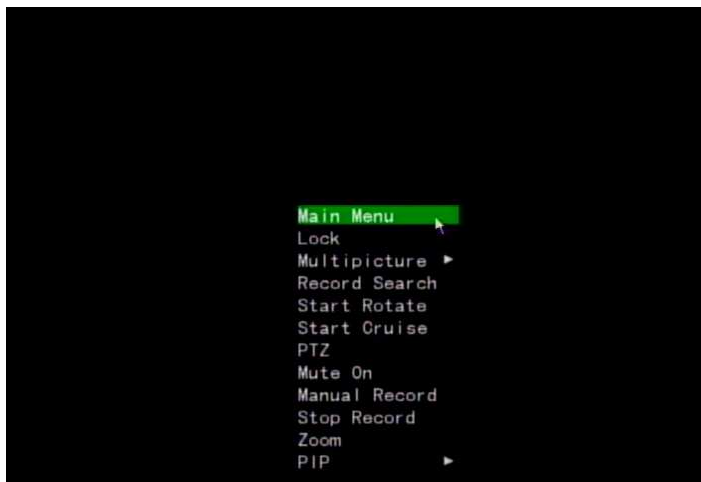


How to open port on router

Q: If your DVR is connected to internet via router, what port needs to open?

A: You will need to open HTTP port, client port, and mobile port on TC/OT DVR



You will need to open HTTP port, client port, and mobile port on TC/OT DVR

You can find the port info:

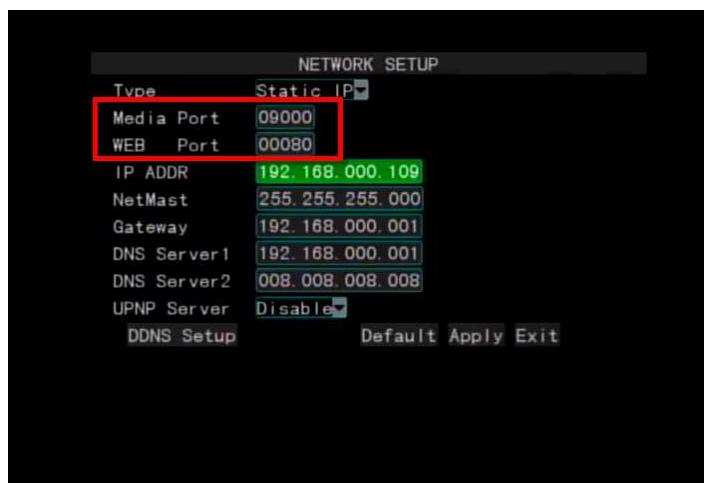
Step 1:

Right click USB mouse button to bring OSD menu and click “Main Menu” icon.



Step 2:

Select “Network”



Step 3:

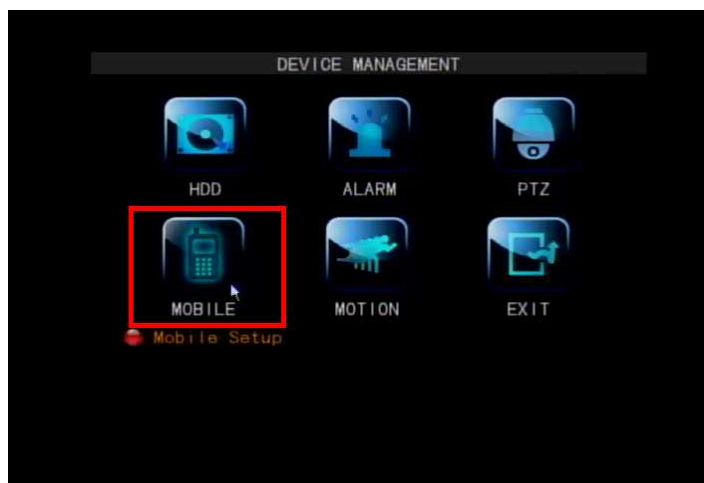
You can check HTTP Port info. Default is 80

You can check Client Port info. Default is 9000



Step 4:

Go to "Device



Step 5:

Select "Mobile"



Step 6:

You can check mobile port info. Default is 18004

User have 4 ways to open port on router:

1. DMZ
2. Open port manually
3. Portforward.com
4. UPNP

Below are 2 examples for setting DMZ on your router

The screenshot shows the D-Link DIR-615 web interface. The left sidebar lists various settings: VIRTUAL SERVER, PORT FORWARDING, APPLICATION RULES, QOS ENGINE, NETWORK FILTER, ACCESS CONTROL, WEBSITE FILTER, INBOUND FILTER, FIREWALL SETTINGS (selected), ROUTING, ADVANCED WIRELESS, ADVANCED NETWORK, and IPV6. The main content area is titled 'FIREWALL SETTINGS' and includes a description: 'The Firewall Settings allows you to set a single computer on your network outside of the router.' Below this are 'Save Settings' and 'Don't Save Settings' buttons. Further down, there are sections for 'NAT ENDPOINT FILTERING' (with options for UDP and TCP endpoint filtering) and 'ANTI-SPOOF CHECKING'. The 'DMZ HOST' section is highlighted and contains the following text: 'The DMZ (Demilitarized Zone) option lets you set a single computer on your network outside of the router. If you have a computer that cannot run Internet applications successfully from behind the router, then you can place the computer into the DMZ for unrestricted Internet access. Note: Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.' Below the text, there is a checkbox for 'Enable DMZ' which is checked, and a field for 'DMZ IP Address' set to '192.168.0.109'. A dropdown menu for 'Computer Name' is also visible.

DMZ

This example is D-link DIR615

Step 1:

Go to “Advanced” → “Firewall setting” → click “Enable DMZ”

Step 2:

The DMZ IP address is DVR’s IP address.
You can check DVR’s IP address in “192.168.0.109”

Step 3:

Click “Save Settings”

The screenshot shows the ASUS Wireless Broadband Router web interface. The top navigation bar includes: Wizard, System, WAN, LAN, NAT (selected), Firewall, Routing, UPnP, DDNS, Wireless, and Logout. The main content area is titled 'NAT Settings' and has a sidebar with links: Virtual Server, Special Application, Port Mapping, ALG, and DMZ (selected). The 'DMZ' section shows a checkbox for 'DMZ' which is checked. Below this is a 'DMZ table' with the following columns: 'Public IP Address', 'IP Address of Virtual DMZ Host', and 'Action'. The table contains two entries: one with '218.167.73.11' and '192.168.10.' with an '<< Add' button, and another with '218.167.73.11' and '192.168.10.109' with a 'Delete' button. At the bottom of the page are 'OK' and 'Cancel' buttons.

DMZ

This example is ASUS router

Step 1:

Go to “NAT” → “DMZ” → click “enable”

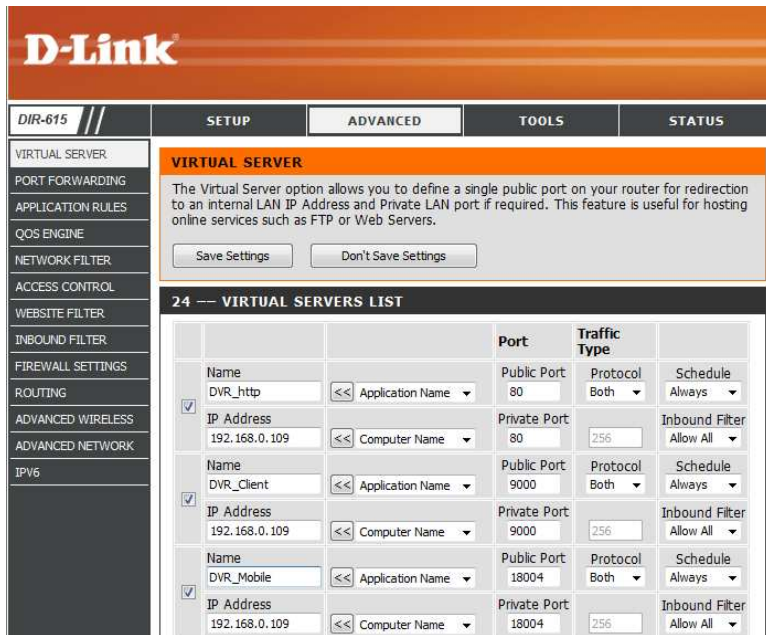
Step 2:

Enter your DVR’s IP address and click “Add”. You can check DVR’s IP address in “192.168.0.109”

Step 3:

Click “OK”

Below are 2 examples for open port manually on your router



The screenshot shows the D-Link DIR-615 web interface. The 'VIRTUAL SERVER' tab is selected. Below the 'VIRTUAL SERVER' header, there is a description: '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.' Below this are 'Save Settings' and 'Don't Save Settings' buttons. The '24 --- VIRTUAL SERVERS LIST' table is shown below.

	Name	Application Name	Port	Traffic Type	Schedule
<input checked="" type="checkbox"/>	DVR_http	<< Application Name	Public Port: 80	Protocol: Both	Always
	IP Address	<< Computer Name	Private Port: 80	256	Inbound Filter: Allow All
<input checked="" type="checkbox"/>	DVR_Client	<< Application Name	Public Port: 9000	Protocol: Both	Always
	IP Address	<< Computer Name	Private Port: 9000	256	Inbound Filter: Allow All
<input checked="" type="checkbox"/>	DVR_Mobile	<< Application Name	Public Port: 18004	Protocol: Both	Always
	IP Address	<< Computer Name	Private Port: 18004	256	Inbound Filter: Allow All

Virtual Server

This example is D-link DIR615

Step 1:

Go to “Advanced” → “Virtual Server”

Step 2:

Enter HTTP port, Client port, mobile port info

Step 3:

Enter your DVR’s IP address. You can check DVR’s IP address in “192.168.0.109”



The screenshot shows the ASUS Wireless Broadband Router web interface. The 'NAT' tab is selected. Below the 'NAT' header, there is a 'Virtual Server' section. The 'Virtual Server' table is shown below.

	Private IP	Private Port	Type	Public Port	Comment	Enabled
1.	192.168.10.109	80	Both	80	Http	<input checked="" type="checkbox"/>
2.	192.168.10.109	9000	Both	9000	Client	<input checked="" type="checkbox"/>
3.	192.168.10.109	18004	Both	18004	Mobile	<input checked="" type="checkbox"/>
4.	192.168.10.		TCP			<input type="checkbox"/>
5.	192.168.10.		TCP			<input type="checkbox"/>

Virtual Server

This example is ASUS router

Step 1:

Go to “NAT” → “Virtual Server”

Step 2:

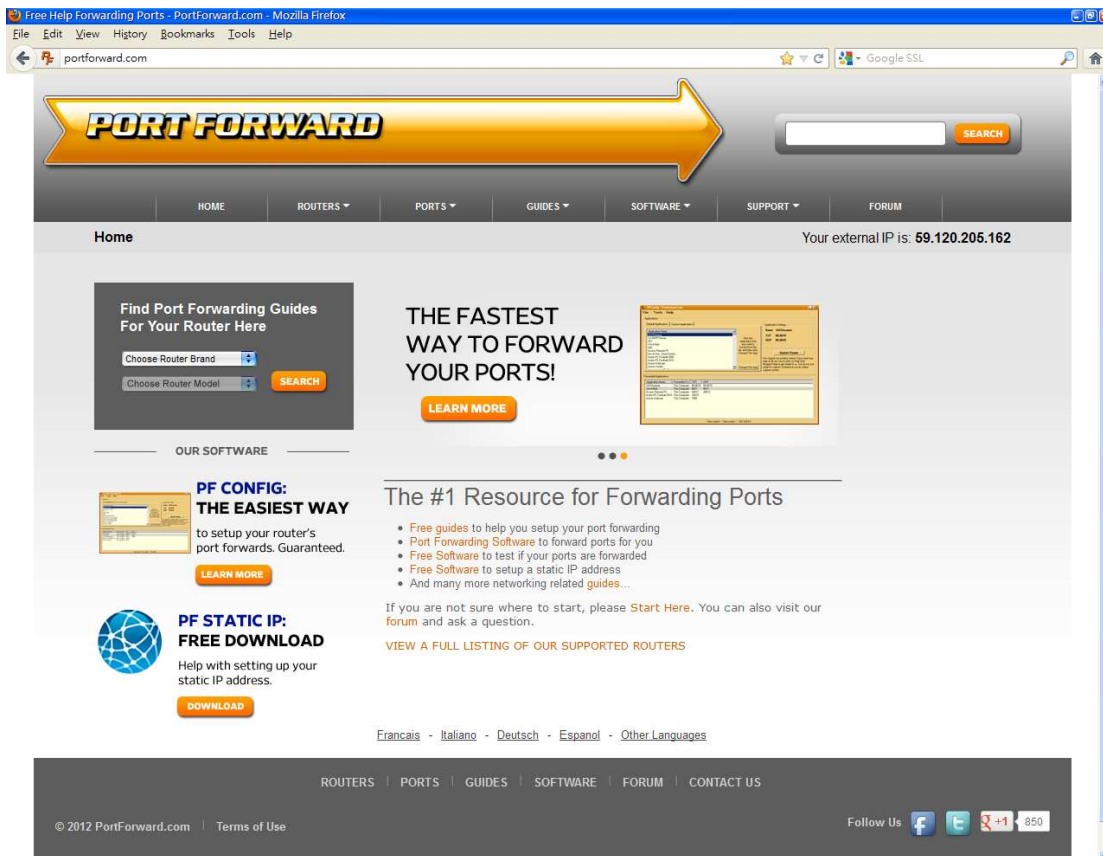
Enter HTTP port, Client port, mobile port info

Step 3:

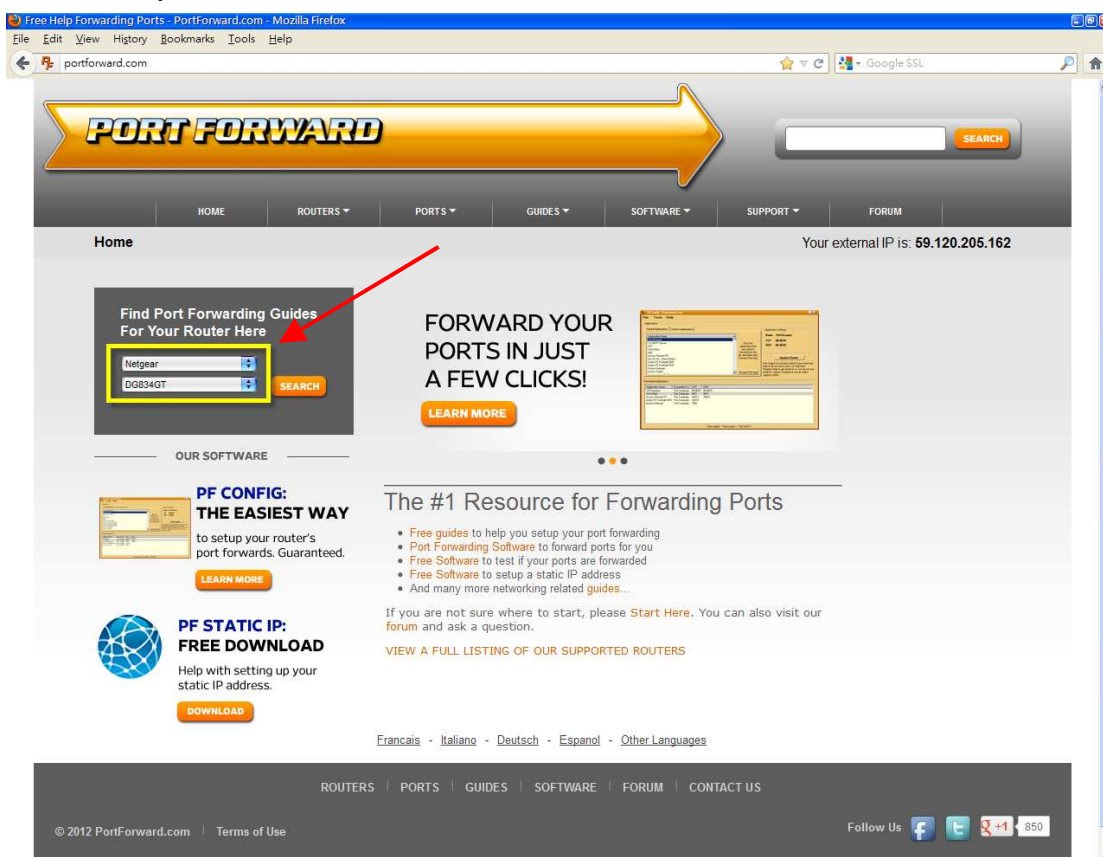
Enter your DVR’s IP address. You can check DVR’s IP address in “192.168.0.109”

How to use portforward.com to help you setup your router

1. Go to website <http://portforward.com/>



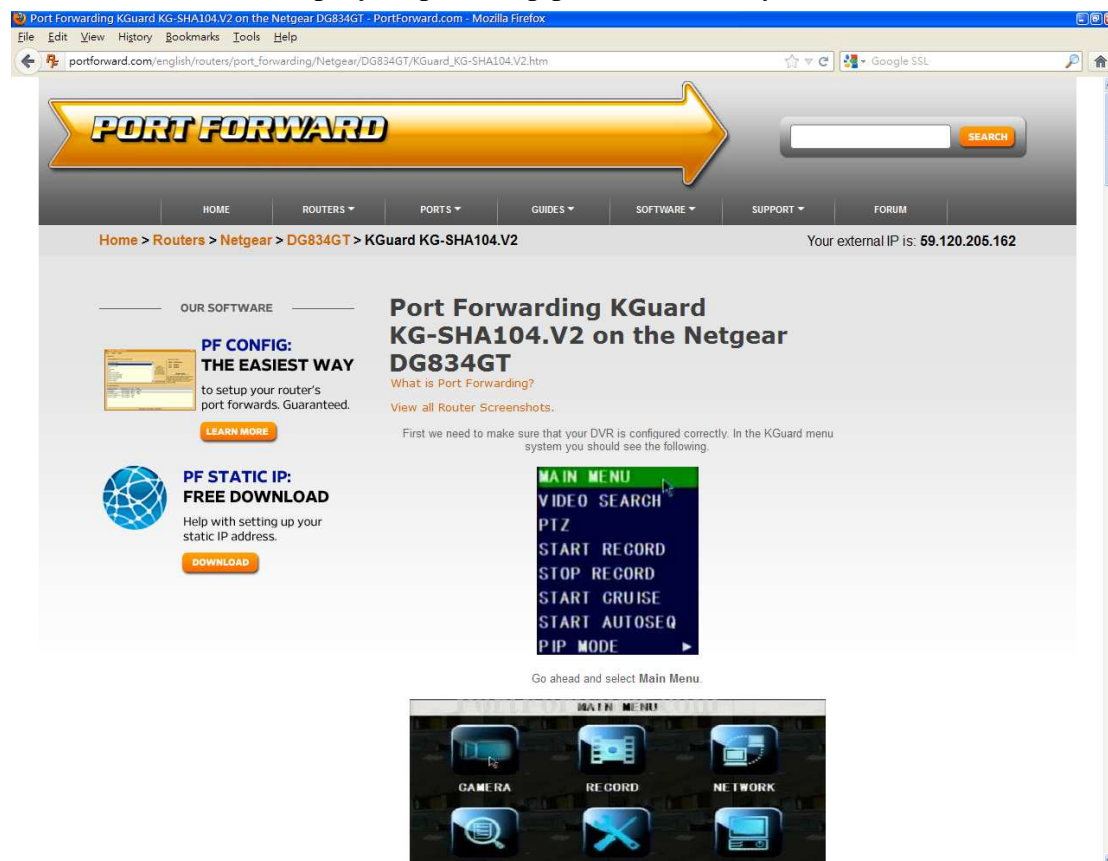
2. Select your router, model number and click “search” button



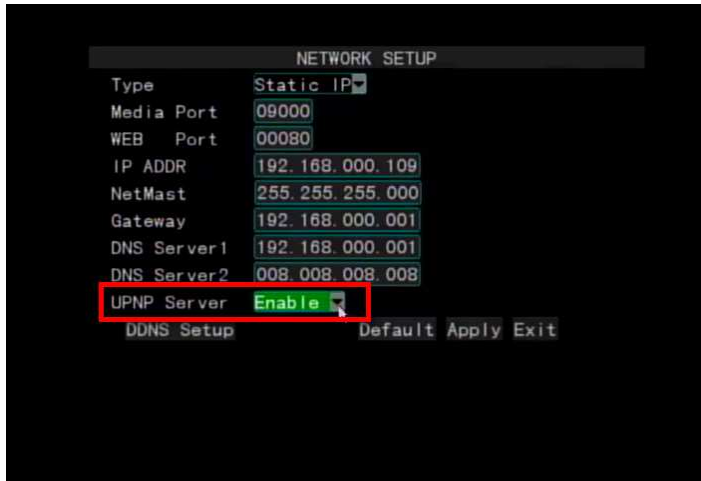
3. After you select router model, go down to “K” section to find your KGuard DVR



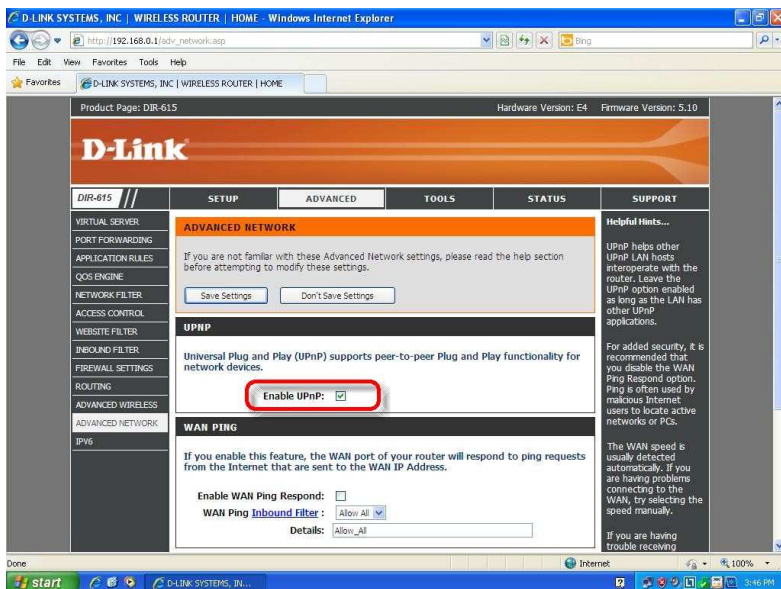
4. You can follow step-by-step to setup port forward on your router.



How to use UPNP to setup your router



Follow Step1~Step2 and enable UPNP function



UPNP

This example is D-link DIR615

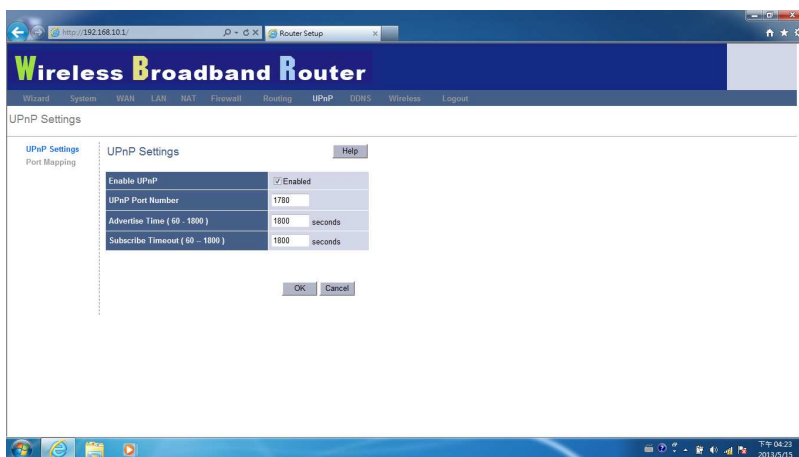
Step 1:

Go to “Advanced” → “Advanced Network”

Step 2:

Enable UPNP function

Note: You need to reboot router after you enable UPNP function



UPNP

This example is ASUS router

Step 1:

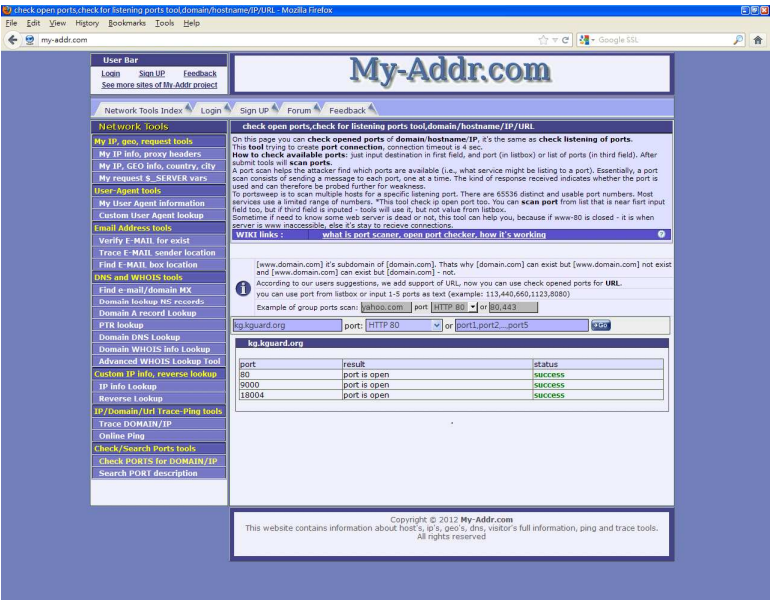
Go to “UPnP” → “UPnP settings”

Step 2:

Enable UPNP function

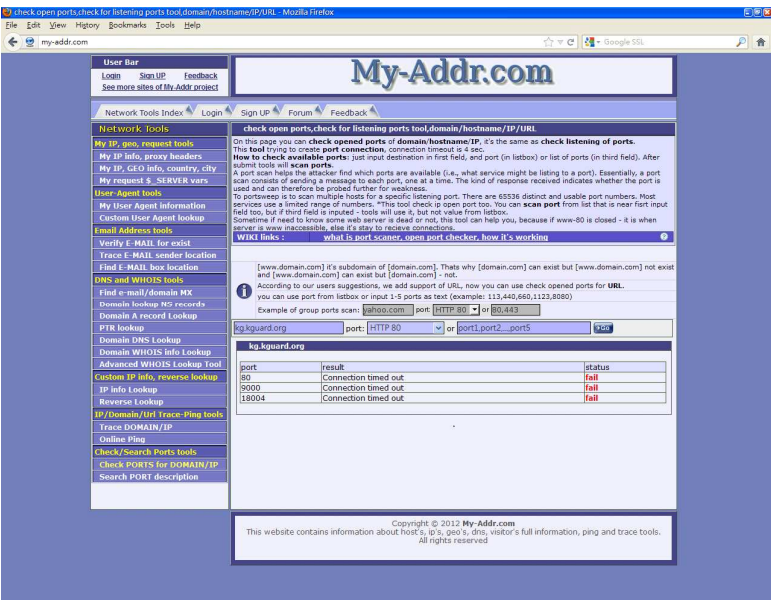
Note: You need to reboot router after you enable UPNP function

How to check port is open correctly on router



User can go to <http://canyouseeme.org/> or <http://my-addr.com> to check if router port is opened correctly.

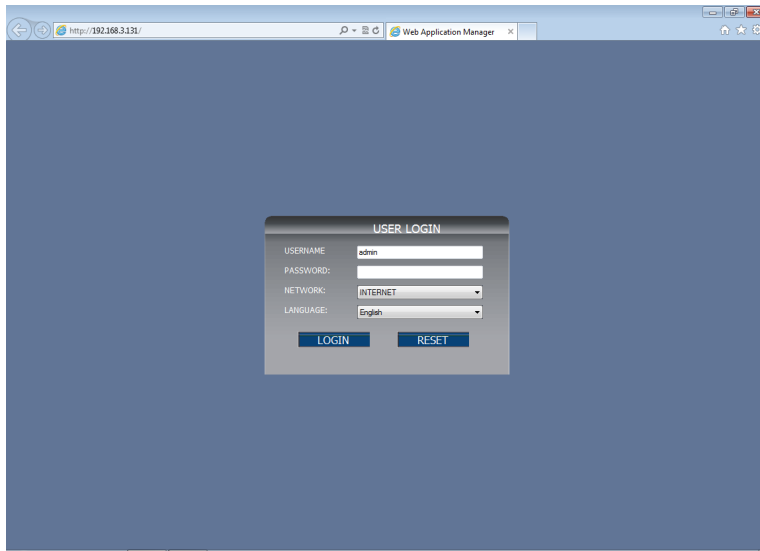
This is example picture for kg.kguard.org open successfully



If port is not open, it will show failed

This is example picture for kg.kguard.org not open

Use IE web browser to test connection



User can connect to DVR using DDNS domain name. or WAN IP address with



After user login, they can see the camera video