

# 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 NS/BR DVR



You will need to open HTTP port, client port, and mobile port on NS/BR DVR

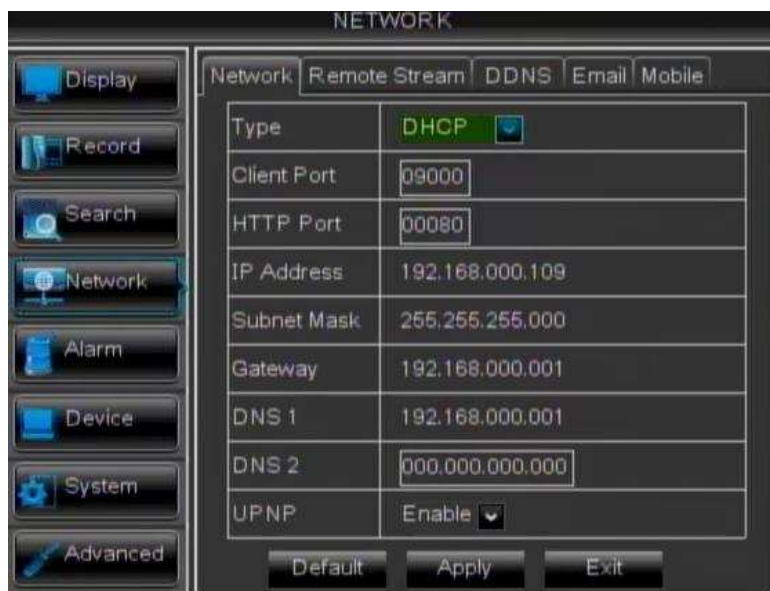
You can find the port info:

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:  
Select "Mobile"  
You can check mobile port info. Default is 18004

User have 3 ways to open port on router:

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

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, containing a description of DMZ, a note about security risks, and a checkbox for 'Enable DMZ' which is checked. Below this, the 'DMZ IP Address' is set to '192.168.0.109' and the 'Computer Name' is selected from a dropdown menu.

## 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 left sidebar with links: Virtual Server, Special Application, Port Mapping, ALG, and DMZ (selected). The 'DMZ' section shows a checkbox for 'Enabled' which is checked. Below this is a 'DMZ table' with columns: Public IP Address, IP Address of Virtual DMZ Host, and Action. The table contains two entries: one with Public IP 218.167.73.11 and Virtual DMZ Host 192.168.10.109, and another with Public IP 218.167.73.11 and Virtual DMZ Host 192.168.10.109. There are '<< Add' and 'Delete' buttons next to each row. At the bottom are 'OK' and 'Cancel' buttons.

## DMZ

This example is ASUS router

Step 1:

Go to “NAT” → “DMZ” → click “enable”

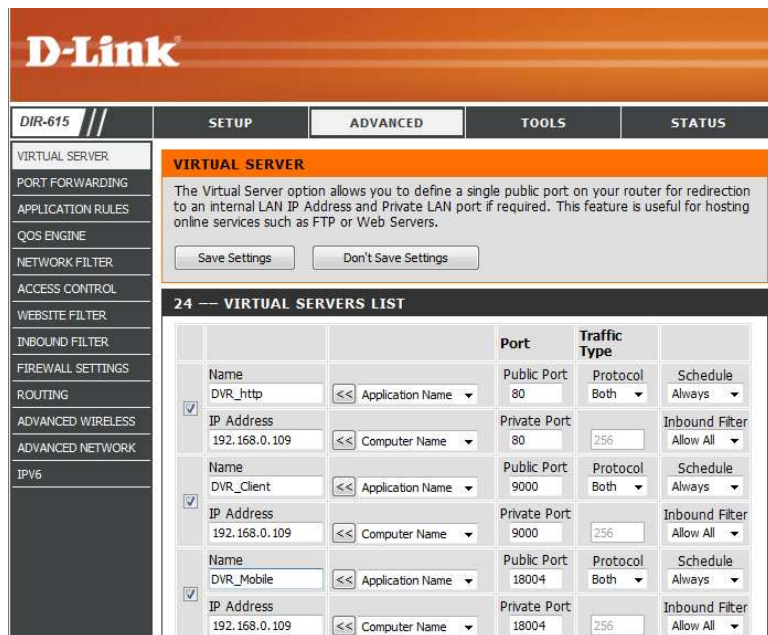
Step 2:

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 introductory text, there are 'Save Settings' and 'Don't Save Settings' buttons. The 'VIRTUAL SERVERS LIST' table shows three entries: DVR\_http, DVR\_Client, and DVR\_Mobile, each with its own IP address and port settings.

Name	IP Address	Port	Traffic Type	Schedule
DVR_http	192.168.0.109	80	Both	Always
DVR_Client	192.168.0.109	9000	Both	Always
DVR_Mobile	192.168.0.109	18004	Both	Always

## 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. The 'Virtual Server' section is active, showing a table with columns for Private IP, Private Port, Type, Public Port, Comment, and Enabled. Three entries are listed: 1. 192.168.10.109, 80, Both, 80, Http, Enabled; 2. 192.168.10.109, 9000, Both, 9000, Client, Enabled; 3. 192.168.10.109, 18004, Both, 18004, Mobile, Enabled.

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:

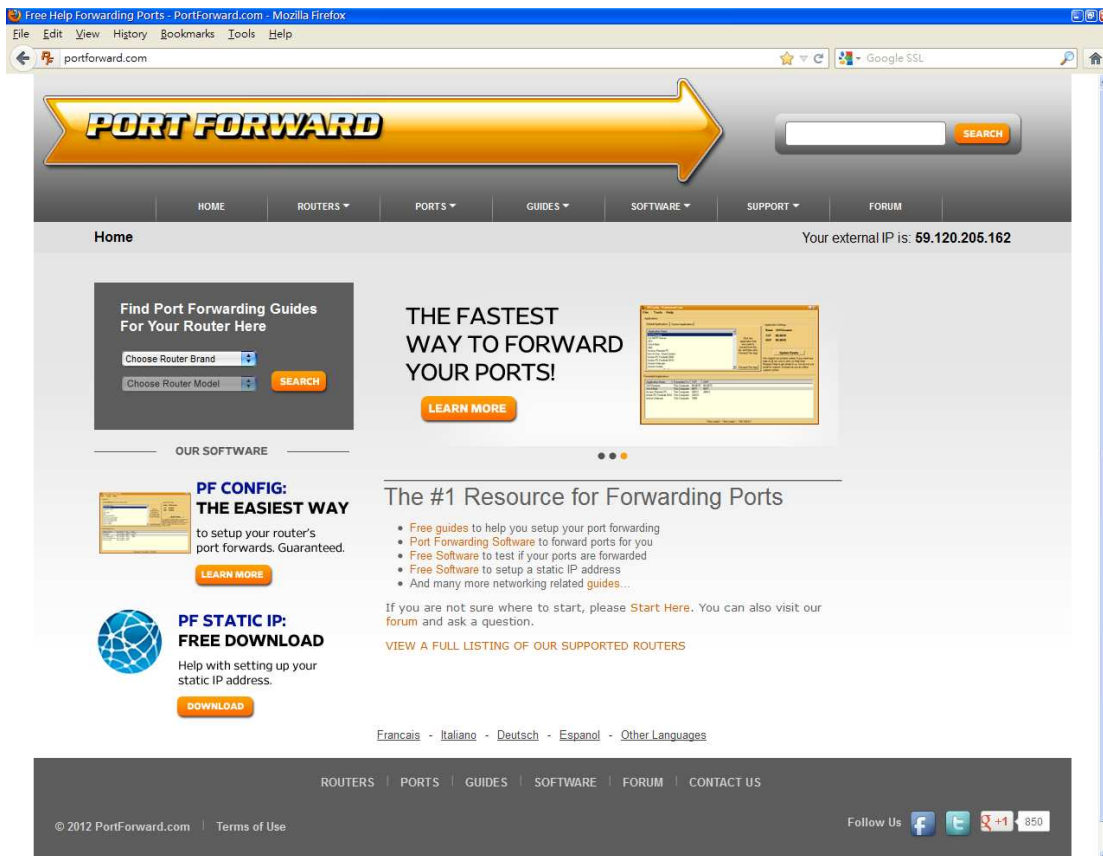
Enter HTTP port, Client port, mobile port info

Step 3:

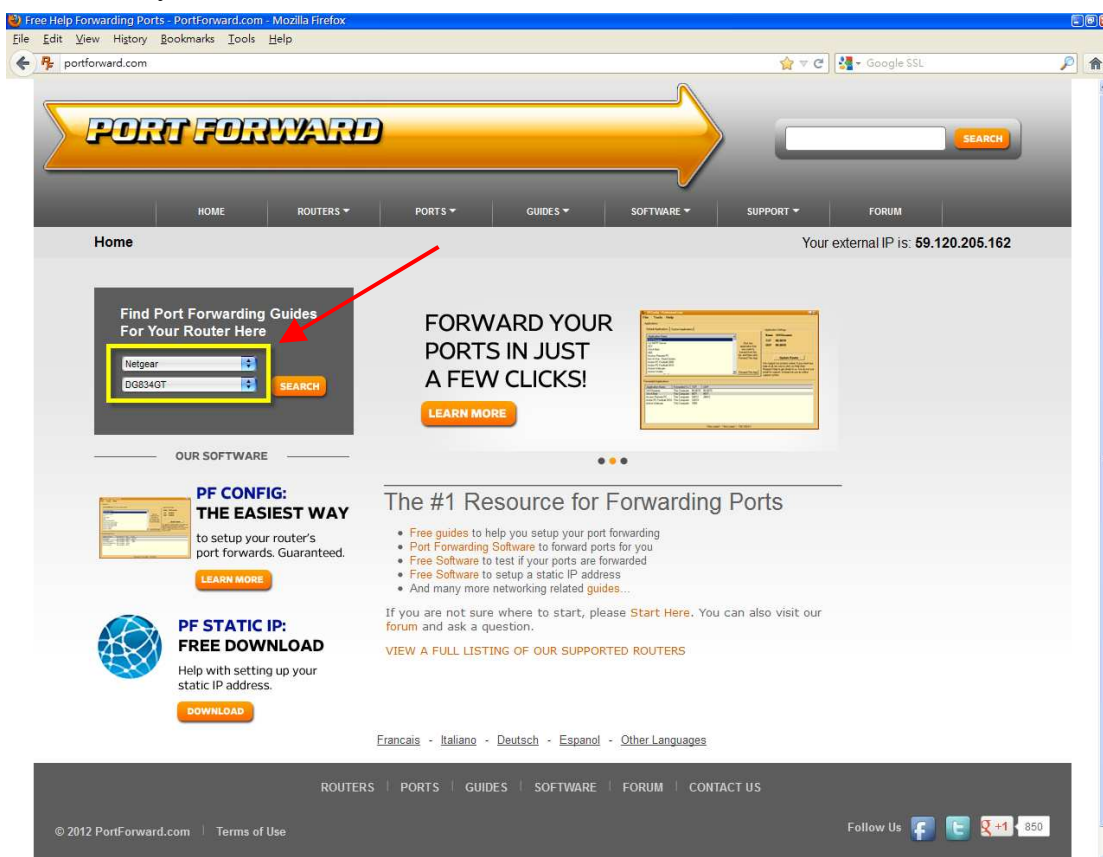
Enter your DVR’s IP address. You can check DVR’s IP address in “192.168.0.109”

# 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

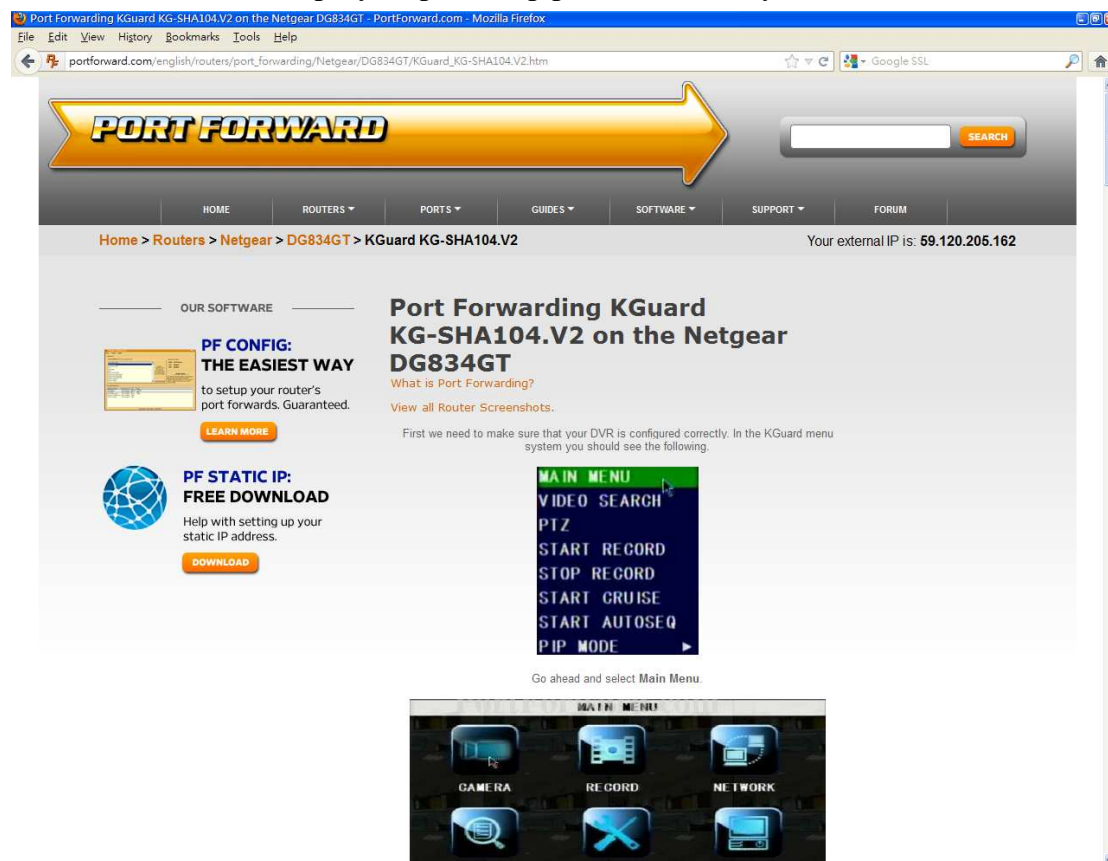




### 3. After you select router model, go down to “K” section to find your KGuard DVR



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

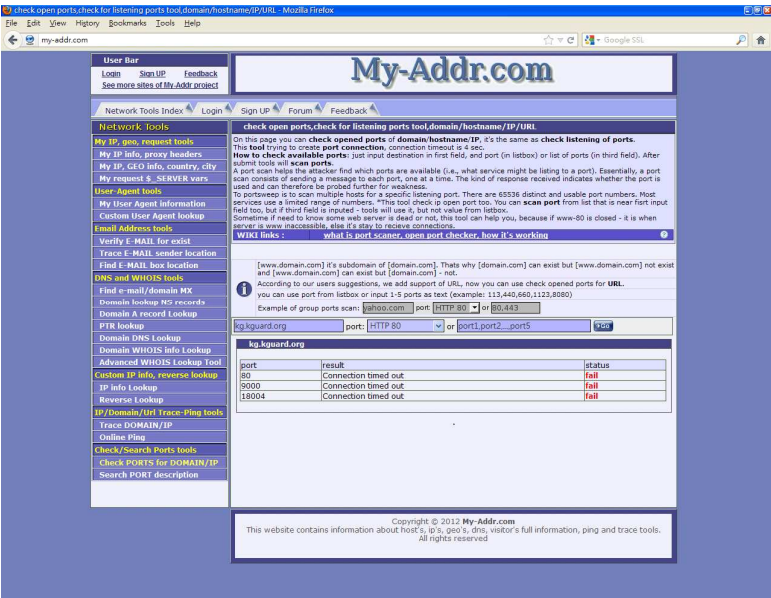


# How to check port is open correctly on router



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

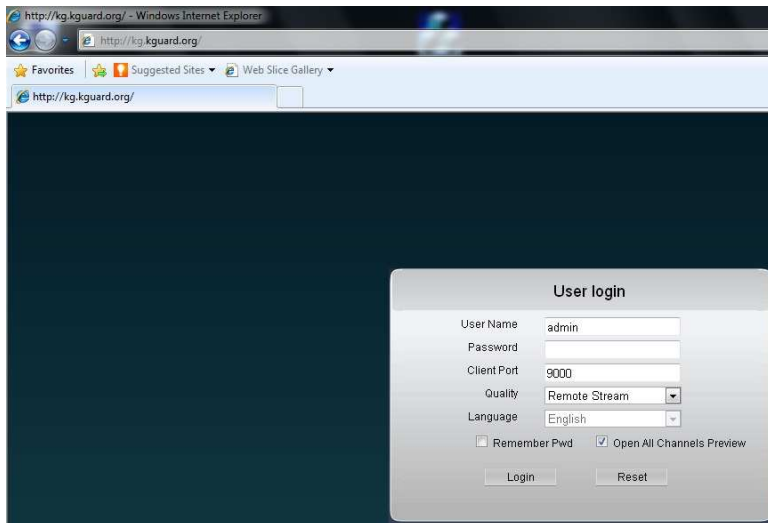
This is example picture for kg.kguard.org open successfully



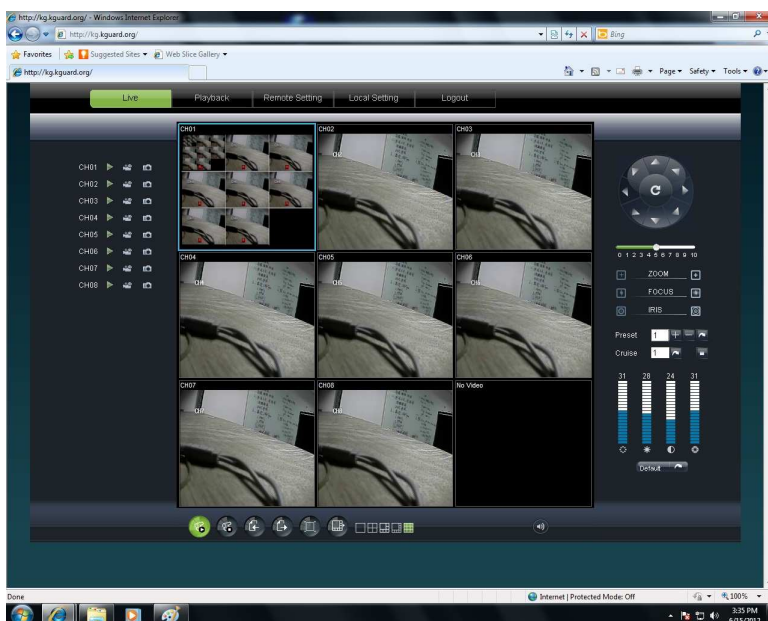
If port is not open, it will show failed

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