


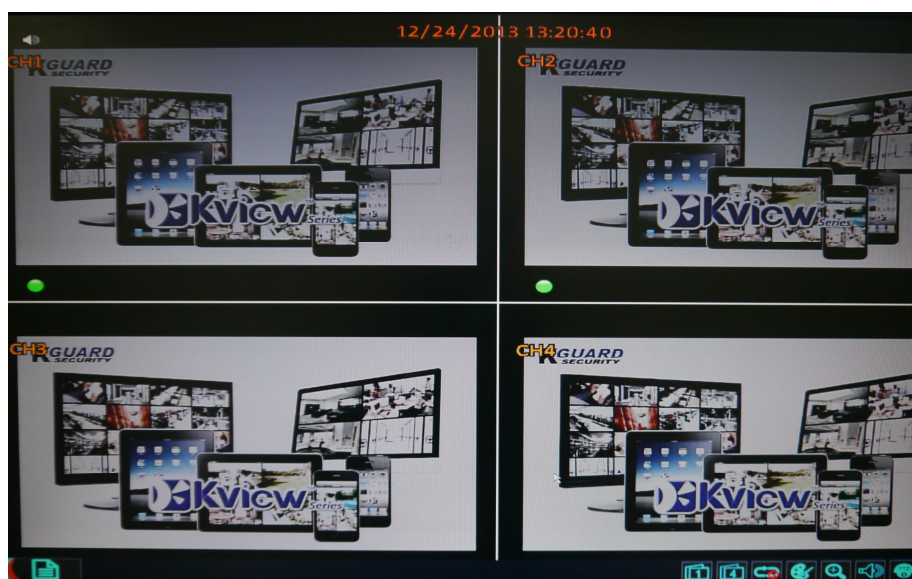
How to open port on router

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

A: You will need to open HTTP port(default is 80), Client port (default is 9000) on AR DVR.



Step 1: Right click USB mouse button to bring OSD menu and click “Menu”  “icon.



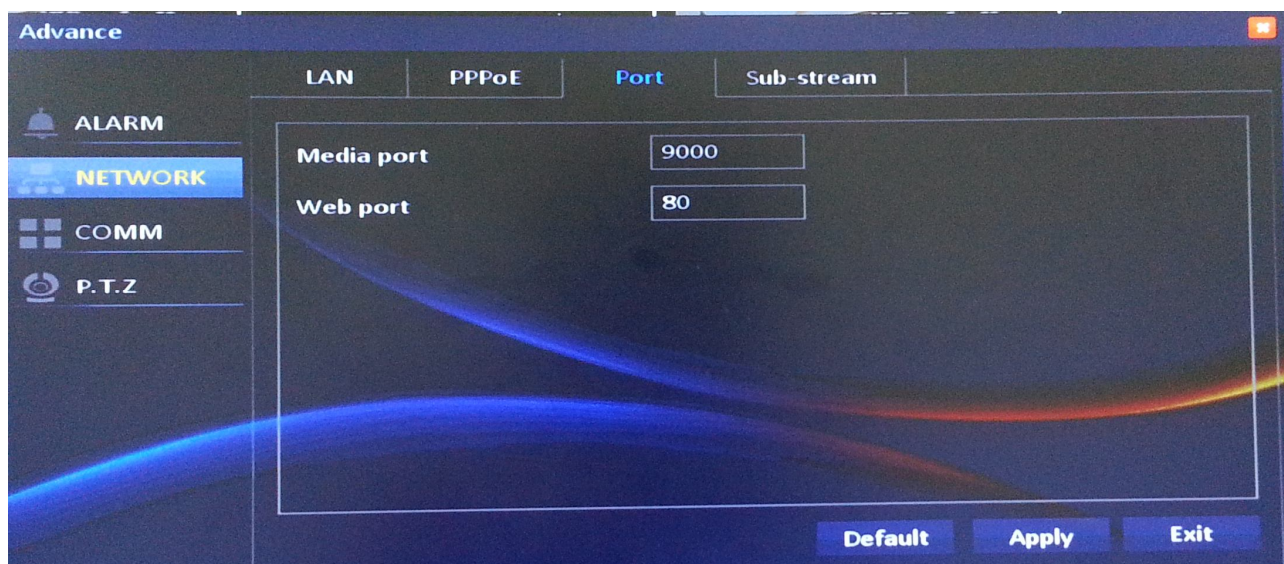
Step 2: Select “Advance” → “Network”



Step 3: Select “Port”

You can check HTTP Port info. Default is 80

You can check Client Port info. Default is 9000



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 sections for 'FIREWALL SETTINGS', 'NAT ENDPOINT FILTERING', 'ANTI-SPOOF CHECKING', and 'DMZ HOST'. In the 'DMZ HOST' section, the 'Enable DMZ' checkbox is checked, and the 'DMZ IP Address' is set to 192.168.0.109. A 'Computer Name' dropdown menu 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 “Main menu” → “Network”

Step 3:

Click “Save Settings”

The screenshot shows the ASUS Wireless Broadband Router web interface. The top navigation bar includes links: Wizard, System, WAN, LAN, NAT (selected), Firewall, Routing, UPnP, DDNS, Wireless, and Logout. The main content area is titled 'NAT Settings' and includes a 'DMZ' section. In the 'DMZ' section, the 'Enabled' checkbox is checked. Below this is a 'DMZ table' with columns for '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. The 'Action' column has buttons for '<< Add' and 'Delete'. 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”

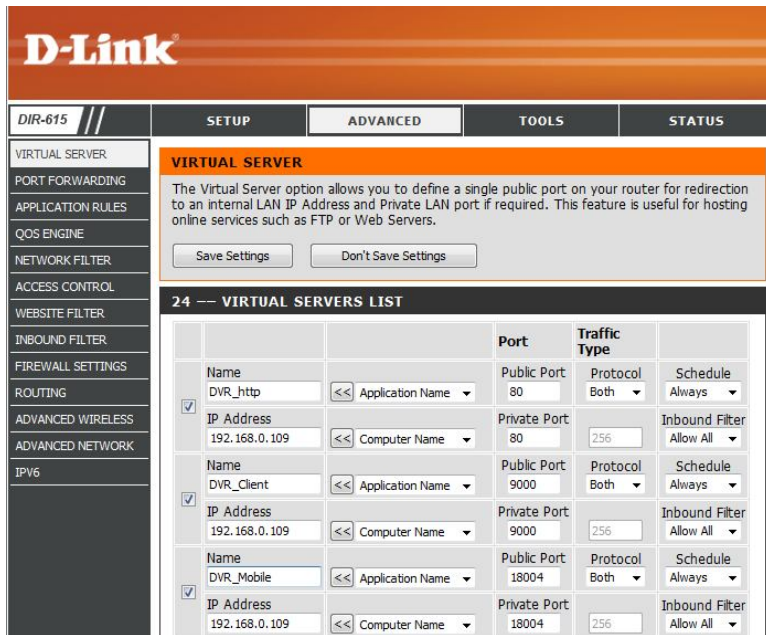
Step 2:

Enter your DVR’s IP address and click “Add”. You can check DVR’s IP address in “Main menu” → “Network”

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 in the left sidebar. The main area is titled 'VIRTUAL SERVER' and contains 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. A section titled '24 --- VIRTUAL SERVERS LIST' contains a table with three entries:

	Name	Application Name	Port	Traffic Type	Schedule
<input checked="" type="checkbox"/>	DVR_http	<< Application Name	Public Port: 80	Protocol: Both	Schedule: 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	Schedule: 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	Schedule: 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 info

Step 3:

Enter your DVR’s IP address. You can check DVR’s IP address in “Main menu” → “Network”



The screenshot shows the ASUS Wireless Broadband Router web interface. The 'NAT' tab is selected in the top navigation bar. The main area is titled 'NAT Settings' and contains a 'Virtual Server' section with a 'Help' button. Below this is a table with five entries:

	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:

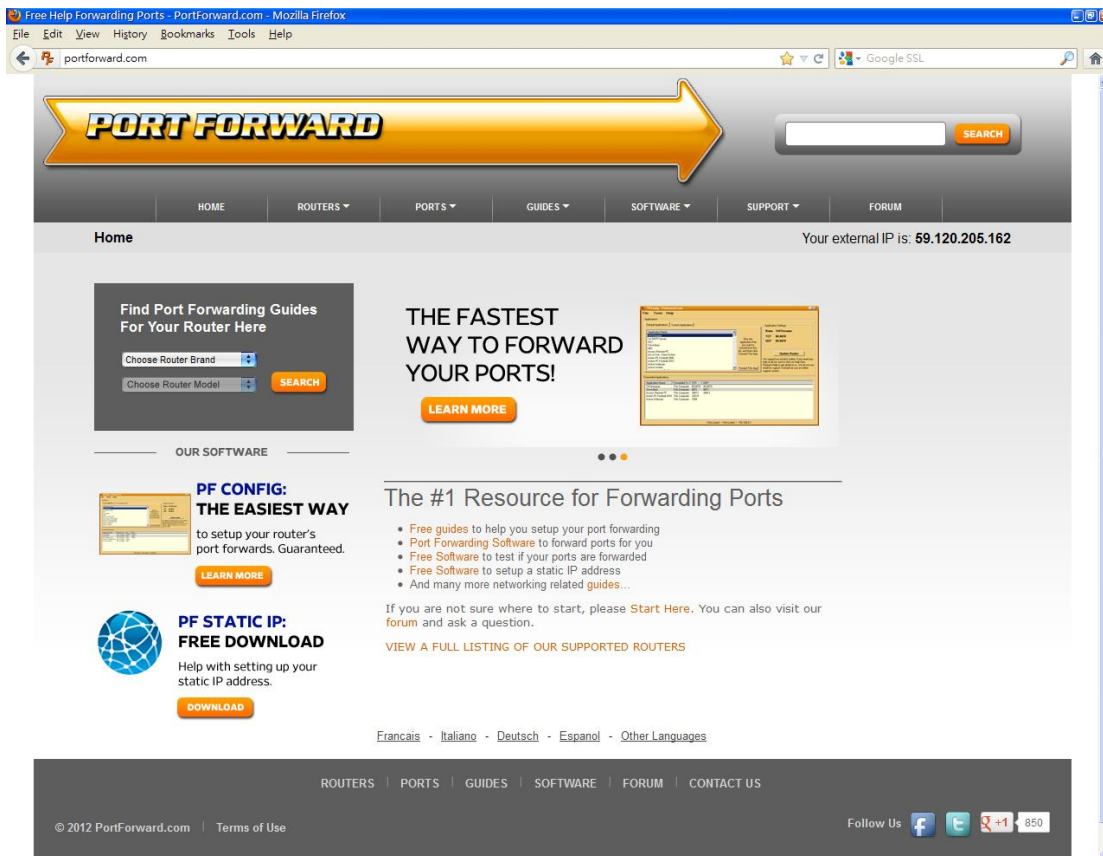
Enter HTTP port, Client port info

Step 3:

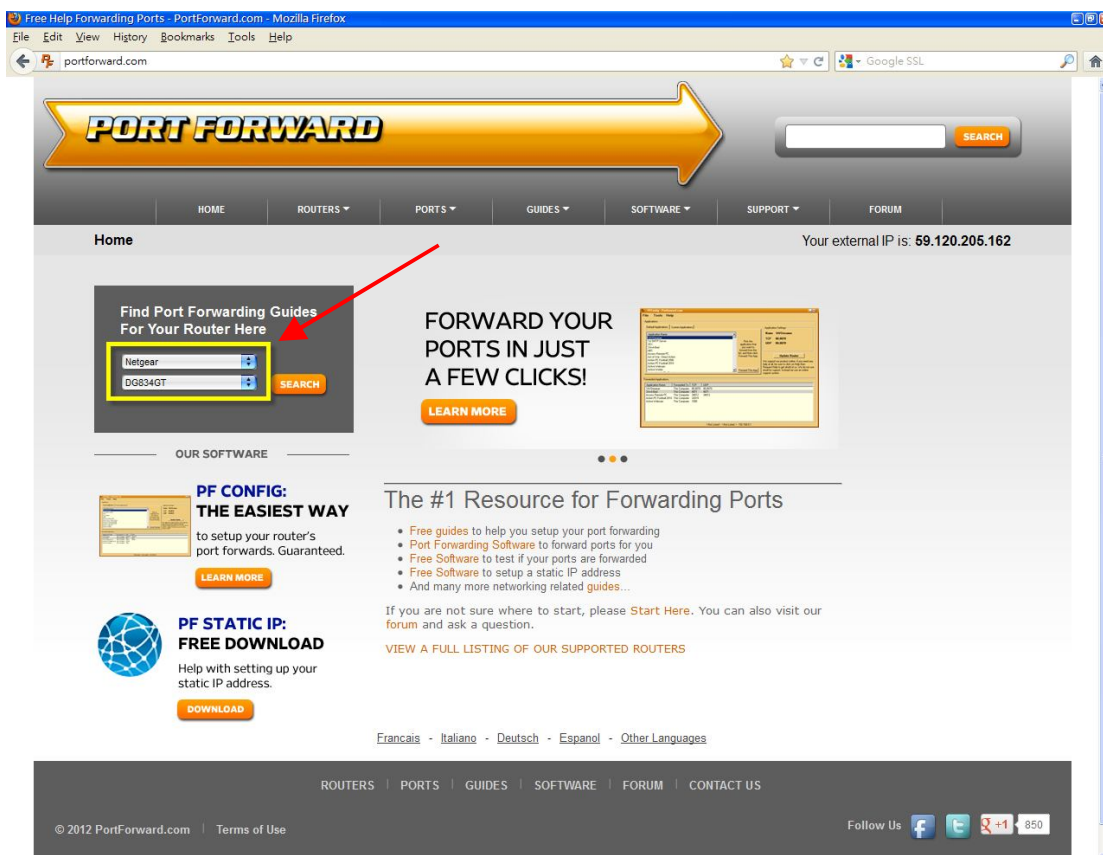
Enter your DVR’s IP address. You can check DVR’s IP address in “Main menu” → “Network”

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

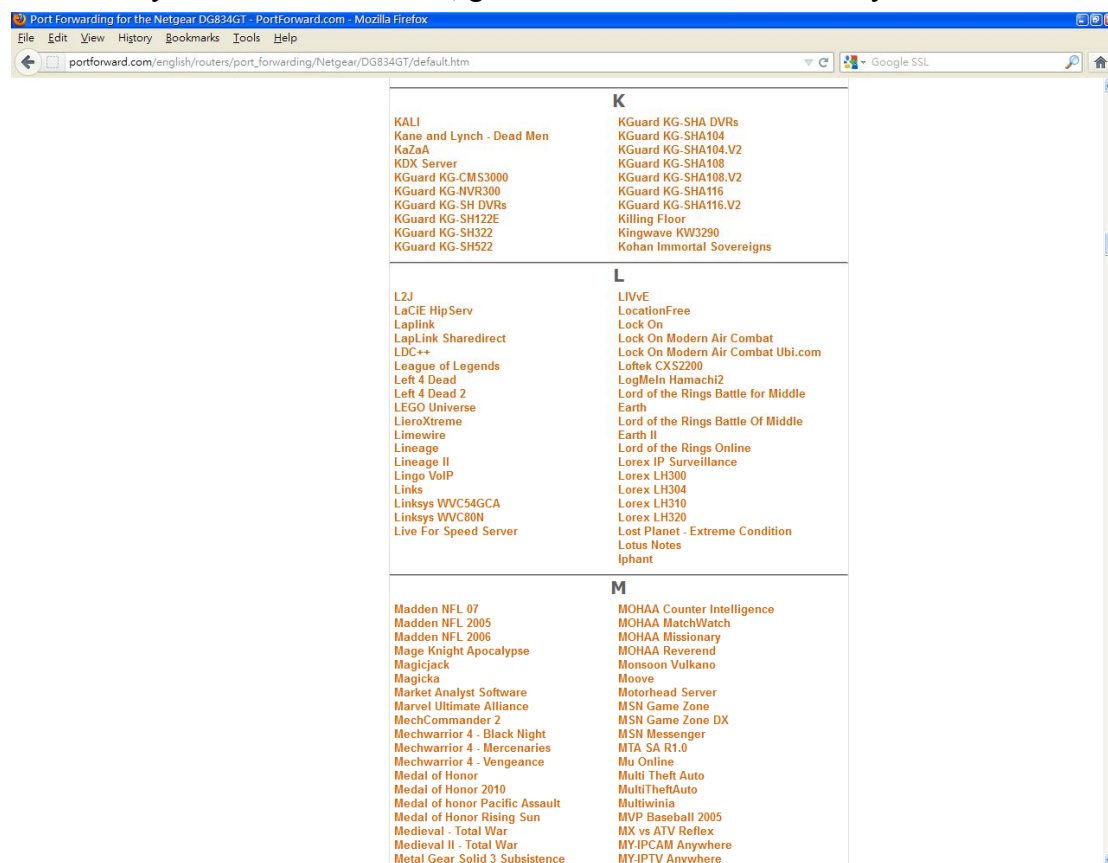
1. Go to website <http://portforward.com/>



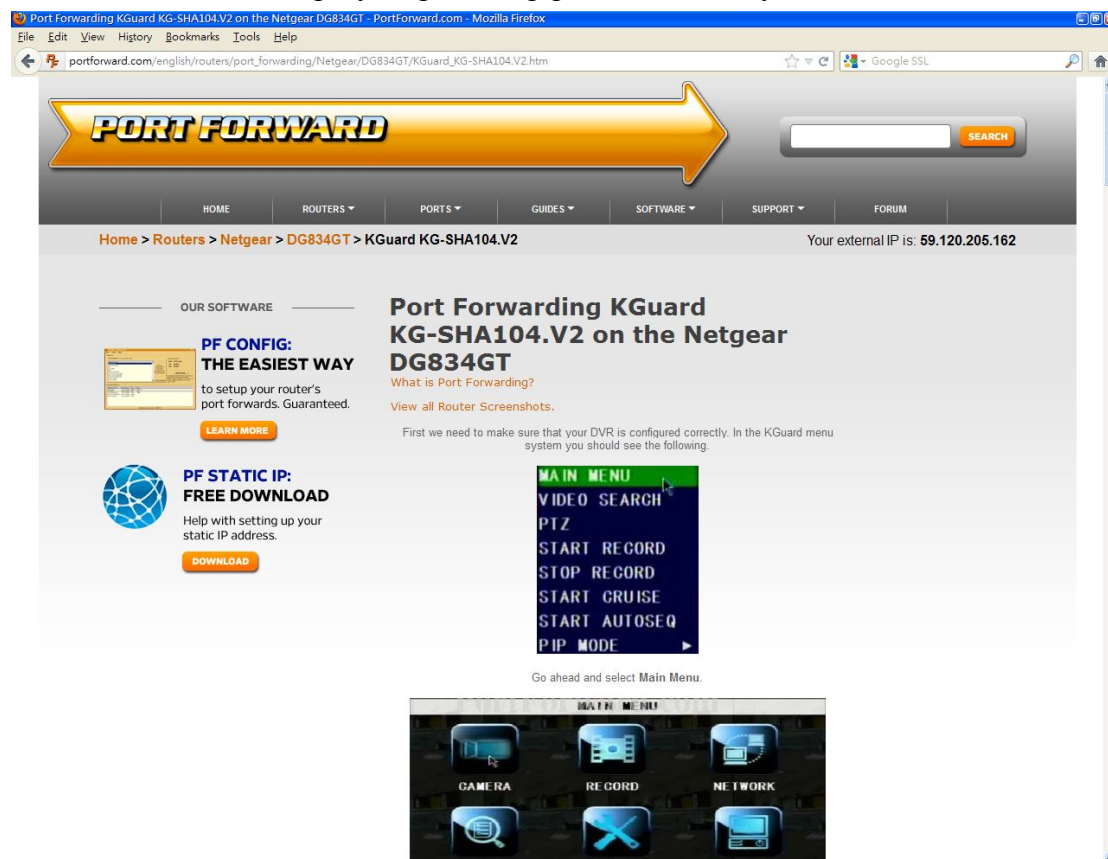
2. Select your router, model number and click “search” button



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.

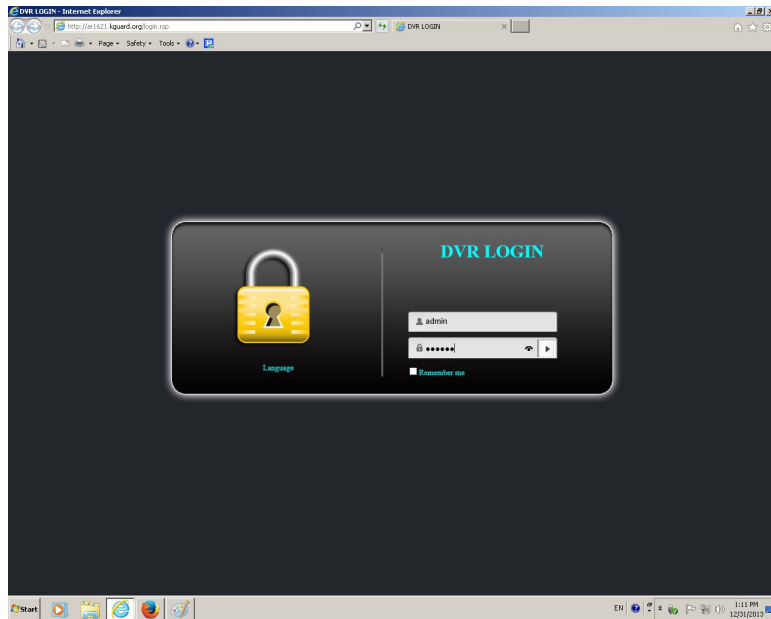
This is example picture for kg.kguard.org open successfully



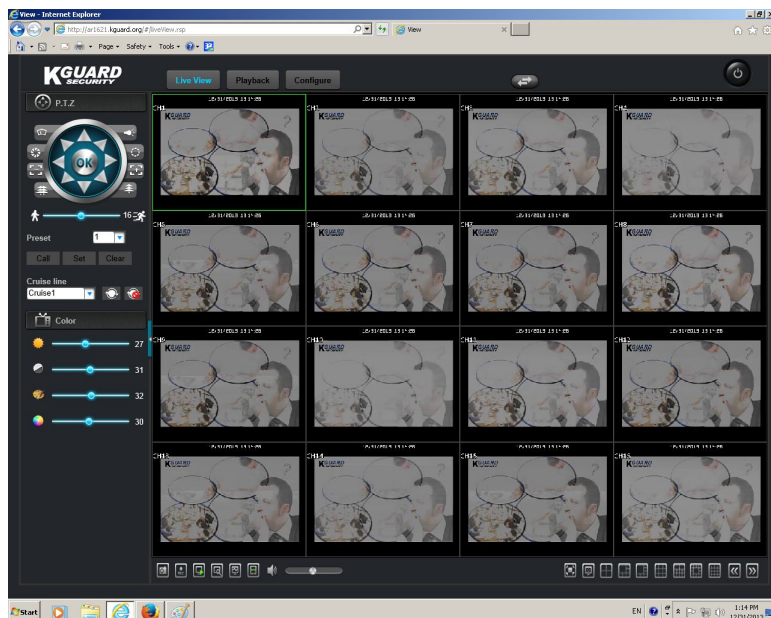
If port is not open, it will show failed

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