

Title:	Port Forwarding and Router Configuration				
Date:	11/23/2010	Version:	1.2	Pages	2
Product:	All Hikvision IP devices and Software				
Action Required:	Information Only				

To connect to a DVR or NVR from a remote location outside its network, you must set up port forwarding in the router. Note that these are only general instructions as each router is unique. A router is a physical device that allows you to share your internet connection between multiple computers. Most routers will not allow incoming traffic to your computer unless you have configured them to forward the necessary ports to your computer. By default Hikvision software and devices requires that TCP and UDP ports **80 & 8000** be forwarded. If using Hikvision's IP Server service the ports to be forwarded are **7070 & 7071**.

**Note: Port Forwarding may reduce the security of the computers on your network! Please contact your network administrator or a qualified network technician for further information.**

Port: 80	HTTP: protocol	Used to connect via the IE browser
Port: 8000	Client Software Port	Used to connect to the video streams
Ports: 7070-7071	IP Server Update Port	Used to update the IP Server PC Used with a dynamic Public IP Address
Ports: 554	RTSP Port	Realtime Streaming Protocol Used for Recording Video Remotely

Third-party assistance on configuring popular routers can be found at:

<http://www.portforward.com/>

<http://canyouseeme.org/>

(note: not affiliated nor supported by Hikvision Tech Support Team).

Many manufacturers also offer guides on their websites, with the included documentation, or on the installation CD.

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Before you begin, gather the following information:

- **DVR IP address.**
- **DVR port(s)** – Hikvision's default port is 8000. This can be changed if it conflicts with other equipment on the same network.
- **Router IP address.**

Once you have this information you are ready to configure the port forwarding in the router.

- 1) Log into the routers setup page. This is typically done by using Internet Explorer and connecting to the routers IP address.
- 2) You may be prompted for a user name and password. This will vary from manufacturer to Manufacturer, and may have been changed from default by the routers owner.

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3) Locate the proper section to program in the port forward. In many routers this will be located under the FIREWALL section or Application & Gaming section. In other routers it will have its own section. There may be different names for the port forward in the router, some call it **port forward**(ing), others may call it a **pinhole**(s), still others call it **Rules**.

4) Once you have located the proper programming section you will need to enter the following information.

a. **DVR IP address** – This is used to direct incoming traffic to the DVR

NOTE: Some routers require a computer name rather than an IP address. The DVR name does not always show up properly in the router configuration so some basic troubleshooting will be required to set this up.

b. **DVR port** – This is how the router determines that the incoming request is for the DVR.

You may be asked for both an external and a internal port number. Both of these ports will be **8000** in the case of an HIKvision DVR.

c. **Protocol** – This will be either TCP or UDP. If given the choice choose both. If you only have a single option, choose TCP.

d. **Schedule** – If given a choice make sure to choose always.

NOTE: On some routers you may need to create an application first. This assigns the DVR port(s), Protocol, and schedule into a single entry. You then assign the application to the DVR IP address.

Once you have completed programming the router have someone with the proper software connect to the DVR from outside of that network to verify that it is working properly.

If you have any questions or problems concerning the router or router setup, please contact the router manufacturer.

*Note: On most routers, the brand and model number are on or near the serial number sticker on the bottom of the device.*

For questions concerning the DVR or NVR contact HIKvision Tech Support at 1-909-895-0400.

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