

How to remotely view IP Surveillance cameras that are behind a router or a gateway?

For each camera that resides behind a router or a gateway, several ports must be forwarded by the router to obtain video and audio (if your camera supports audio). The default ports are:

DCS-2000 and DCS-2100+ cameras:

- 80 (TCP) HTTP Port (allows access to web-configuration and transmits video if other ports are not forwarded);
- 5001 (TCP/UDP) Control Channel Port (used to synchronize audio and video);
- 5002 (TCP/UDP) Audio Channel Port (transmits synchronized audio);
- 5003 (TCP/UDP) Video Channel Port (transmits synchronized video);

DCS-2120 camera:

- 80 (TCP) HTTP Port (allows access to web-configuration and transmits video if other ports are not forwarded);
- 554 (TCP/UDP) RTSP Streaming (used for audio and video streaming to mobile phones);

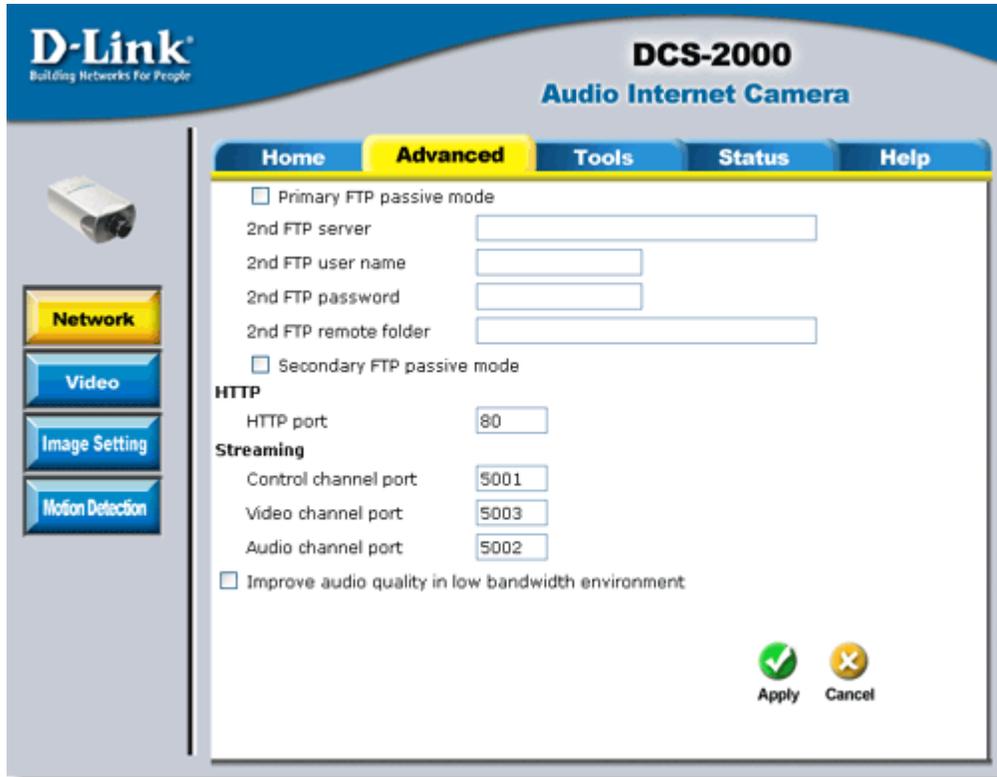
DCS-3200-series, DCS-5300-series and DCS-6600-series cameras:

- 80 (TCP) HTTP Port (allows access to web-configuration and transmits video if other ports are not forwarded);
- 5001 (TCP/UDP) Control Channel Port (used to synchronize audio and video);
- 5002 (TCP/UDP) Audio Channel Port (transmits synchronized audio);
- 5003 (TCP/UDP) Video Channel Port (transmits synchronized video);

DCS-G900 camera:

- 80 (TCP) HTTP Port (allows access to web-configuration and transmits video if other ports are not forwarded);

These port numbers will need to be changed in the camera configuration on each additional camera that is added behind the router. Port numbers can be changed from the **Advanced** > **Network** screen.



NOTE: Some ISP's may block access on port 80. In this case you can setup your camera on a different port (e.g. 8888) and open this port in your router. To access the camera through a port different from default, you need to add colon (:) and the port number to the http:// address (e.g. **http://63.116.231.25:8888**).

Practical Example: Three DCS-2000s are behind a DI-604. The router has a public IP address (WAN) of 63.116.231.25 and an internal (LAN) IP address of 192.168.0.1.

Camera 1 IP address: 192.168.0.10 Ports: 80, 5001, 5002 and 5003

Camera 2 IP address: 192.168.0.20 Ports: 81, 6001, 6002 and 6003

Camera 3 IP address: 192.168.0.30 Ports: 82, 7001, 7002 and 7003

Each set of four ports must be forwarded to the respective IP address. Set-up for Camera 1 inside a DI-604's configuration is shown below:

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DI-604
Ethernet Broadband Router

Home **Advanced** Tools Status Help

Virtual Server
Virtual Server is used to allow Internet users access to LAN services.

Enabled Disabled

Name:

Private IP:

Protocol Type:

Private Port:

Public Port:

Schedule: Always
 From time : AM to : AM
day to

Virtual Servers List

Name	Private IP	Protocol	Schedule	
<input type="checkbox"/> Virtual Server FTP	0.0.0.0	TCP 21/21	always	<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>
<input checked="" type="checkbox"/> Virtual Server HTTP	0.0.0.0	TCP 80/80	always	<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>
<input type="checkbox"/> Virtual Server HTTPS	0.0.0.0	TCP 443/443	always	<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>

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Ethernet Broadband Router

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Firewall Rules
Firewall Rules can be used to allow or deny traffic from passing through the DI-604.

Enabled Disabled

Name:

Action: Allow Deny

Interface: IP Range Start: IP Range End:

Source: IP Range Start: IP Range End:

Destination: IP Range Start: IP Range End: Protocol: Port Range:

Schedule: Always
 From time : AM to : AM
day to

Firewall Rules List

Action	Name	Source	Destination	Protocol	
<input checked="" type="checkbox"/> Allow	Allow to Ping WAN port	WAN,*	LAN,192.168.0.1	ICMP,8	<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>
<input checked="" type="checkbox"/> Deny	Default	*,*	LAN,*	IP (0),*	
<input checked="" type="checkbox"/> Allow	Default	LAN,*	*,*	IP (0),*	

This will need to be done for each camera and their respective ports.

To contact these cameras from a remote location (across the Internet), use the Public IP address (WAN) of the router along with the appropriate web port. Using the above example:

To remotely contact camera 1 with Internet Explorer, enter `http://63.116.231.25:80`

To remotely contact camera 2 with Internet Explorer, enter `http://63.116.231.25:81`

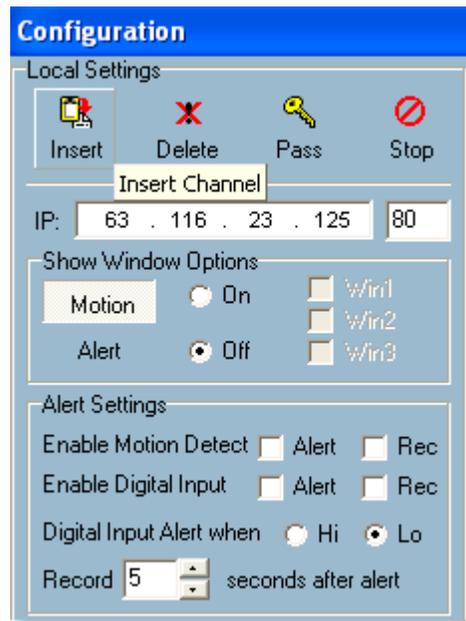
To remotely contact camera 3 with Internet Explorer, enter `http://63.116.231.25:82`

These cameras can also be contacted remotely with IP surveillance (included software).

Step 1 Launch the Monitor application and choose **Function Menu > Camera Configurations**.



Step 2 Enter the routers Public IP address and port number in the IP address field in the top left corner.



Step 3 Click the **Insert** button directly above.

Step 4 Click **Save**.