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.

D-Link Building Hickneiks for Progle		DCS-2000 Audio Internet Camera	a
Network Video Image Setting Hotion Detection	Home Advanced Primary FTP passive mode 2nd FTP server 2nd FTP server 2nd FTP user name 2nd FTP password 2nd FTP password Secondary FTP passive mode 400 FTP HTTP 80 Streaming Control channel port 500 Video channel port 500 Audio channel port 500	Audio Internet Camera Tools Status	a Help
	I improve audio quality in low bar	Apply Ca	3 Incel

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:

g Networks for People			D Ethernet B	I-604 Iroadband	Router		
	Home	Advanced	Tools	Status	He	lp	
	Virtual Server Virtual Server is used to allow Internet users access to LAN services.						
Virtual Server		💿 Enabled 🔘 D	isabled				
	Name	Virtual Server HT	TP	Clear			
Applications	Private IP	192.168.0.10	1				
	Protocol Type	TCP 🔽	-				
Tillions	Private Port	80					
Filters	Private Polt	00					
	Public Port	80					
Firewall	Schedule	 Always 					
		O From time 0	1 💙 : 00 💙 Al	vi 💙 to 01 💙 :	00 🔽 AM	~	
DMZ		day St	un 💌 to Sun 🛉	~			
- Civitz							
					A 63	0	
	Virtual Server	e Liet		Ar	unly Concel	Helo	
	Virtual Server	s List Priv	ate IP P	rotocol	Schedule	Help	
	Virtual Server Name	s List Priv ver FTP 0.0.	ate IP P 0.0 T	Ap Protocol CP 21/21	Schedule always	Help	
	Virtual Server Name	s List Priv rer FTP 0.0. rer HTTP 0.0.	ate IP P 0.0 T <mark>0.0 T</mark>	Ar Protocol CP 21/21 CP 80/80	Schedule always always	Help	
	Virtual Server Name Virtual Server Virtual Server Virtual Server	s List Priv ver FTP 0.0. ver HTTP 0.0. ver HTTPS 0.0.	ate IP P 0.0 T 0.0 T 0.0 T	As Protocol CP 21/21 CP 80/80 CP 443/443	Schedule always always always always	Help	
	Virtual Server Name Virtual Sen Virtual Sen Virtual Sen	s List Priv Ner FTP 0.0. Ner HTTP 0.0. Ner HTTPS 0.0.	ate IP F 0.0 T <mark>0.0 T</mark> 0.0 T	Ag Protocol CP 21/21 CP 80/80 CP 443/443	Schedule always always always	Help	
	Virtual Server Name Virtual Serv Virtual Serv Virtual Serv	s List Priv ler FTP 0.0. ler HTTP 0.0. ler HTTPS 0.0.	ate IP F 0.0 T 0.0 T 0.0 T	Ar Protocol CP 21/21 CP 80/80 CP 443/443	Schedule always always always	Help	
)-Link	Virtual Server Name Virtual Server Virtual Server Virtual Server	s List Priv rer FTP 0.0. rer HTTP 0.0. rer HTTPS 0.0.	ate IP F 0.0 T 0.0 T 0.0 T	Ar Protocol CP 21/21 CP 80/80 CP 443/443 DI-604	Schedule always always always always	Help	
D-Link ding Networks for People	Virtual Server Name Virtual Serv Virtual Serv Virtual Serv	s List Priv Per FTP 0.0. Per HTTP 0.0. Per HTTPS 0.0.	ate IP F 0.0 T 0.0 T 0.0 T 0.0 T	Ar Protocol CP 21/21 CP 80/80 CP 443/443 DI-604 Proadband	Schedule always always always always always	Help	
)-Link ding Networks for People	Virtual Server Name Virtual Server Virtual Server Virtual Server	s List Priv Ver FTP 0.0. Ver HTTP 0.0.	ete IP F 0.0 T 0.0 T 0.0 T Ethernet E	Ar Protocol CP 21/21 CP 80/80 CP 443/443 DI-604 Proadband	Schedule always always always always Router	Help	
D-Link drag Networks for Progle	Virtual Server Name Virtual Serv Virtual Serv Virtual Serv	s List Priver FTP 0.0. Ner HTTP 0.0.	ate IP F 0.0 T 0.0 T 0.0 T Ethernet E	Ar Protocol CP 21/21 CP 80/80 CP 443/443 DI-604 Proadband Status	poply Cancel Schedule always always always Always	Help	

ing recovers to reque	Ethernet Broadband Ro					
	Home	Advanced	Tools	Status	Help	
Virtual Server	Firewall Rules	s can be used to allow o Enabled O Disabled	r deny traffic fro d	m passing through	the DI-604.	
Applications	Name Camera 1B Clear Action Allow O Deny Interface IP Range Start IP Range End Protocol Port Range					
Filters	Destination L/ Schedule	N 192.168.0.10 Always From time 00			- 5003	
DMZ		day Sun 💌	to Sun 💌	<u>ر موارد موارد</u>	3 3	
	Firewall Rules	s List	Source	Destination	Protocol Protocol	
	I Allow All I Deny De I Allow De	iow to Ping WAN port fault fault	WAN,* *,* LAN,*	LAN,192.168.0.1 LAN,*	ICMP,8 P IP (0),* 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**.

Hard Disk St	atus						
Usage: 24%							
FreeSpace: 29672004 KBFull							
Functi	Function Menu 🛛 🕲						
Camera C	onfigration .		l				
Global Set	tings						
Backup							
Full Screen	n	Alt+Enter	l				
About							
			1				
8 1		12					
12 1		16					
	1 8						

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

С	Configuration							
L	Local Settings							
			x		a,		0	
	Insert	0)elete		Pass		Stop	
		Inse	rt Chan	nel				
	IP: 6	З.	116 .	23	. 12	5	80	
	Show V	Vindo	w Optic	ons				
	Moti	on	00)n				
	Alert							
	Alert Settings							
	Enable Motion Detect 🥅 Alert 🔲 Rec							
	Enable Digital Input 🔽 Alert 🔽 Rec							
	Digital Input Alert when 🔿 Hi 💽 Lo							
	Record 5 🗧 seconds after alert							

Step 3 Click the Insert button directly above.

Step 4 Click Save.