DVR-H9108V / DVR-H9108UV Remote Network Setup

Once you have completed the <u>Local Network Setup</u>, you should have an internal IP address for your DVR.

The next step in the process is to forward ports pertaining to the DVR, so that you can see your cameras remotely.

We recommend that you follow the steps in our network tutorial located at <u>www.zmodo.com/network</u>. This video walks through using our network tutorial:

Forward DVR's Ports

1) Log in to your router by entering the gateway IP, such as 192.168.1.1, in to your browser window. Enter the login information for your router. If you cannot remember this, you can check the default username/password combinations for most routers at http://www.pcwintech.com/default-router-modem-passwords. If you are unable to locate this information, please contact your router manufacturer or Internet Service Provider.

2) Once you've logged in to your router, you will need to enter the Port Forwarding section of your router. There, you'll enter the IP address, protocols, and port numbers for your DVR.

IP Address = IP address in your DVR's Network Settings

Protocol = BOTH (TCP/UDP) OR TCP

Service or Application Name can be anything you wish, like DVR1 or DVR2

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Create 1 rule per port number; Start and End Ports will be the same number

Here are the default ports for Zmodo units (last port # is the mobile port):

H9104, H9108, H9106, H9116: 80, 9000, 18004

H9114, H9118: 80, 5050, 6050, 7050

H9124, H9128, DR-SFN6: 80, 9000, 15961

H8000/H8100 series: 80, 7777, 8888

Note: If you are using a DSL internet service, you may need to use port 81 (instead of 80) as your web port. If so, be sure to change this in your DVR's network settings, and restart the unit. Once the port number is changed, you will need to use it when connecting to the unit (ie. <u>http://192.168.1.1</u> becomes <u>http://192.168.1.140:81</u>)

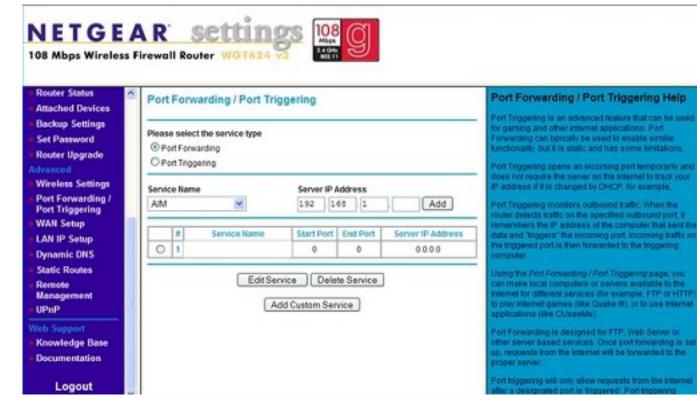
3)Below are screenshot samples of common router's Port Forwarding sections. Please note that exact locations may differ depending on your router's model. If your model is not listed, try looking through Advanced, Firewall, or Forwarding sections in your router to find the exact location.

Linksys

Applications & Gaming		Wireless-G Broadband Router							
	Setup	Wire	1 155	Secur		Lccoss drictions	Applications & Gerning	Administration	Status
	Port Range F	lan ward	1	Fort Trip	agening	DHIZ	005		
Port Range Forward								Port Range Fer	warding:
				Per	i Range			Certain application to open specific	
	Application	51	erit.	End	Professel	IP Askdresse	Enuble	For 8 to Function- Examples of the	correctly.
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		0	10	0	Both 💌	152.168.10		for a certain port the internet, the r	router will rout
		0	10	0	Both 💌	112.168.10.0		the data to the co specify. Due to a	security
		Ú.	10	Û	Both 💌	152.168.10		port for working t	to only those
		0	11	0	Both 💌	152 168 10 0		ports you are Lo uncheck the Ena after you are fin	vible checkbox
		0	10	0	Both 💌	182 160 10 0		Mare	
		0	to	0	Both 💌	192.168.10			
		0	10	0	Both 💌	192.168.10.0			
		Ú	10	0	Both M	152.168.10.0			
		(A	-	EA .		1000			

In Linksys routers, you will typically enter Applications & Gaming, then Port Range Forward. Exact names/places will differ depending on model. Be sure to create forward 1 port range per line, and check the 'Enable' box at the end of the line, then save changes.

Netgear



In Netgear routers, you will typically look under Advanced for Port Forwarding/Triggering. Select Port Forwarding as your service type. Then, select 'Add Custom Service' for each port you forward.

D-Link

Product: DSL-27408					Firmware Version: EU_5.17
D-Lin	K				
DSL-27408	SETUP AD	ANCED	MAINTENANCE	STATUS	HELP
Port Forwarding	PORT FORWARDING				Helpful Hints
Application Rules	This is the ability to open ports in you	router and re-direct	data through those ports (to a single PC on your	Check the Application Name drop down menu for
QoS Setup	network.	a list of predefined applications. If not you			
Outbound Piter	PORT FORWARDING RULE	can still easily define a new rule.			
Inbound Filter	Remaining number of rules that	Hore			
Wireless Filter		THE CASE			
DNS Setup	Name		External Port TCP	Internal Port TCP	
Firewall & DMZ	<	Ication Name 💽			
Advanced Internet	IP Address << [Cor	puter Name 💌	UDP	UDP	
Advanced Wireless	1		1	1	
Advanced LAN	Use Interface: pppoa_0,	pppoa0 +			
SMMP Setup		Add/Apply	,		
Remote Management					
Routing Setup	ACTIVE PORT FORWARDI	IG RULES			
Wi-Fi Protected Setup	Name Address External Po	t Taternal Bost	Protocol WAN Inter	face Edit Remove	
Logout	Autores External Po	e ancernarrore	Troubles most litter	Inca con Remove	
1 web					

For D-Link Routers, you will enter Advanced, then Port Forwarding. Click 'Add/Apply' when you have finished each rule.

Belkin

LAN Setup Firewall > Virtual servers LAN Setup Dis function will allow you is noute external (internet) calls for sentors such as a web server (pot got, got, professions funcuph your Router to your internal network. More into internet water (pot got, professions funcuph your Router to your internal network. More into internet water (pot got, professions funcuph your Router to your internal network. More into internet water (pot got, professions funcuph your Router to your internal network. More into internet water (pot got, professions funcuph your Router to your internal network. More into internet water (pot got, professions funcuph your Router to your internal network. More into internet water (pot got, professions funcuph your Router to your internal network. More into into internet water (pot got, professions funcuph your Router to your internal network. More into into internet water (pot got, professions funcuph your Router to your internal network. More into into internet water (pot got, professions funcuph your Router to your internal network. More into into internet water (pot got, professions funcuph your Router to your internal network. More into internet water (pot got, professions funcuph your Router to your internal network. More into internet water into internet into internet water internet wate
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Enable Description Inbound port Type Private IP address Private port Security 1.
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No.F1 Protected Selas 2. 2. BOTH 192.168.2. - Use as Access Ford 3. C - BOTH 192.168.2. - VAC Address Control 3. C - BOTH 192.168.2. - Prevail 4. C - BOTH 192.168.2. -
MAC Address Control 3. . BOTH 192.168.2. - Firewall 4. .
Firewall 4
Vital Grant
Varias Servers
Clert P Files 5
MAC Address Filtering 6. 🖸 - BOTH 💌 192.168.2
Coss 7. B07H • 192.168.2
NUM Plag Blocking 8. BOTH - BOTH - 192.168.2
Security Lay
TERIES 9. BOTH • 192.168.2

For Belkin routers, access port fowarding under Firewall, Virtual Servers. Be sure to check the 'Enable' box, then hit the 'Set' button, and save your changes.

2-Wire

For 2-Wire modems, enter Firewall, then Advanced Settings.

dit firewall settings	and the second of					
 Maximum protection 	tion - Disallo	w unsolicited i	nbound traffic.			
Allow individual Click ADD to add				l be enabled to	pass through th	e firewall to this compute
All applicati	ons	~	Hosted Applications	s:		
Age of Empires Age of Kings Age of Wonders Aliens vs Preda Anarchy Online Asheron's Call Baldur's Gate BattleCom Battlefield Com Black and Whit	tor	Add Remove				

First, look for the DVR's IP address under (1) Select a computer. If you do not see the DVR's IP address here, you may need to go in to the DVR's Network Settings, and set the DVR to DHCP (instead of Static), then reboot the DVR. Once the unit reboots, check it's IP address in the Network Settings, then go back to your router to select the DVR from the list.

Next, you will need to click on "Add a new user-defined application", to come to the this new screen:

Profile Name			
Enter a name for the	application pro	ofile that you are creati	ng.
Application Name:			
Definition			
	multiple ports	on to the Definition Lis or both TCP and UDP	
changes in addition to	simple port forwa	oplication types require a ording. If the application y low, it is recommended to	ou are adding
Protocol:	@ TCP	C UDP	
Port (or Range):	From:	To:	
Protocol Timeout (seconds):		TCP default 8640 UDP default 600	0
Map to Host Port		Default = the sam above.	e port as defined
	None (Def	ault)	-
Application Type:			

Create your rule, and click 'Add Definition'. Create a rule for each port. Then, click Back.

Edit firewall setting	s for this compu	ter:		
Maximum prote	ection - Disallow	unsolicited i	nbound traffic.	
	application(s) - d it to the Hosted			abled to pass through the firewall to this comput
All applicat	ions	~	Hosted Applications:	
Age of Empire Age of Kings Age of Wonde Aliens vs Pred Anarchy Onlin Asheron's Call Baldur's Gate BattleCom Battlefield Con	rs ator e	Add Remove		

When done, select each application you have created, and click 'Add', so that you see the desired applications in the Hosted Applications table. When finished, click 'Done' at the bottom of the screen.

Netopia

For Netopia routers, click on the Configure tab at the top of the page.

Home	Configure Troub	leshoot Security	Install	Restart	Help				
netopia.	Home = Configure								
Duickstart AN WAN Advanced	 To make configuration changes, follow these steps: Make a change to a field or parameter. Click Submit. This change isn't permanent; you'll save it later. The Alert button (top right corner) appears. Make more changes, if desired. Click the Alert button. The Save Changes page appears. If your changes are validated, you can save them. If not, a descriptive message appears. Choose Save and Restart. The Gateway restarts with your changes. 								
	Quickstart For most users, Quickstart includes everything needed to configure a connection to your Provider.								
	LAN Configuration options for the Local Area Network side of the Galeway.								
	WAN	WAN Configuration options for the Wide Area Network connection on the Gateway.							
	Advanced		ation options for the Gateway. Consult the user documer ny of these configuration options.	itation or help	text				
			© 2005 Netopia, Inc.						

Next, click on Advanced.

Configure Troubleshoot Sec	surity Install Resta	rt Helj
Home - Configure - Advanced		
	Network Configuration	
IP Static Routes	Build IP static route table	
IP Static ARP	Build IP static ARP table	
	NAT	
Pinholes	Set up pinholes through NAT	
IPMaps	Set up NAT one-to-one IP address mappings	
Default Server	Set up NAT default server options	
NAT Table Monitoring	Set up NAT Table Monitoring options	
	Services	
Differentiated Services	Set up Differentiated Service options	
DNS	Set up DNS options	
DHCP Server	Set up DHCP server and relay-agent options	
RADIUS Server	Set up RADIUS server options	
SNMP	Set up SNMP community, trap and system group options	
IGMP	Set up IGMP options	
Access Control	Set up Access Control	
UPnP	Enable or disable Universal Plug'n'Play	
LAN Management (TR-08	(4) Enable or disable DSL Forum LAN-Side DSL CPE Configuration service	s
Ethernet Bridge	Set up ethernet MAC bridge	
	Miscellaneous	
	Home - Configure - Advanced	Network Configuration P Static Routes Build IP static route table P Static ARP Build IP static ARP table NAT Pinholes Set up pinholes through NAT PMaps Set up NAT one-to-one IP address mappings Default Server Set up NAT default server options NAT Table Monitoring Set up NAT default server options NAT Table Monitoring Set up DNS options Differentiated Services Set up DNS options DHCP Server Set up BADIUS server options SNMP Set up SNMP community, trap and system group options IGMP Set up Access Control UPnP Enable or disable Universal Plugh Play LAN Management (TR-064) Enable or disable DSL Forum LAN-Side DSL CPE Configuration service

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From the Advanced menu, click on Pinholes.

Home	Configure	Troubleshoot	Security	Insta	all		Restart	Help
	Home Cor	nfigure > Advance	ed > Pinholes	i≥ Ed	it Pinhole			
netopia.			P	inhol	e Entry			
Quickstart		P	Pinhole Name					
LAN		F	Protocol Selec	t	ТСР ≑			
Advanced		E	External Port S	Start	0			
		E	External Port E	End	0			
		le de la della d	nternal IP Add	dress	192.168.1.0			
		Ir	nternal Port		0			
				Sut	omit			
						-		

Create your rule, then hit 'Submit', and repeat for each port. When you have completed, click on the yellow triangle with an '!' inside (located at the top righthand corner) to save your changes.

Checking Your Connection

4) Once you have forwarded all ports necessary for your DVR, you'll want to check and make sure each of these ports was successfully opened. To check this, go to <u>http://www.yougetsignal.com/tools/open-ports/</u>

Here, you will see fields for **Remote Address** and **Port Number**.

To check that your ports are open, enter each port you've forwarded (one at a time) in to the Port Number field, and click 'Check'.

If you see a green flag, and a statement "Port X is open on XXX.XXX.XXX.XXX", you have fowarded your ports correctly. You are now able to view your DVR remotely.

If you see a red flag, the port is not open. Go back in to your router, and double check at all information is correct. In some cases, a port may be blocked by your ISP. To find out why, or to request it opened, please contact your ISP.

Important: The Remote Address that you see is **your DVR's external IP address**. This is the address that you will use to access your DVR from a different computer. Write this down!! And remember, ActiveX settings must be changed on each new computer that you are viewing from before you'll be able to bring your DVR up.

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