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>)

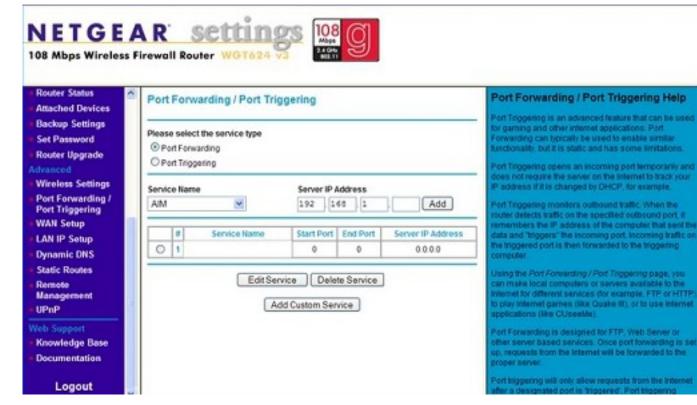
3)Below are screenshot samples of common router's Port Forwarding sections. Please note that exact locations may differ depending on your router's model. If your model is not listed, try looking through Advanced, Firewall, or Forwarding sections in your router to find the exact location.

Linksys

Applications & Gaming		Wireless-G Breadband Router wats+a									
	Setup	Wire	1 1515	Secur		Licess trictions	Applications & Garning	Administration	Status		
	Port Range F	orward	- 1	Fort Trip	agening I	0HZ	9/5				
Port Range Forward								Port Range Fee			
				Par	i Range			Contain application to open specific			
	Application	ion Start		End	Professel	IP Askdresse	Enulais	For 8 to Function Examples of the			
		Û	10	Ú	Both 💌	152.168.10		include servers online games .W	fren a request		
		0	to.	0	Both 💌	192.168.10.0		for a certain por the internet, the	router will rout		
		0	11	0	Both 💌	152.168.10.0		the data to the o specify. Due to a	security		
		Ù	10	Û.	Both 💌	152.168.10		port for working ports you are us	to only those		
		0	10	Ó	Both 🛩	192 168 10 0		uncheck the Enk	shie checilitor		
		0	10	0	Both 💌	182 160 10 0		Mare			
		0	to	0	Both 💌	192.168 10 0					
		0	10	0	Both 💌	112.168.10					
		Ú	10	0	Both M	152.168.10.0					
		A	-	TA I		10000	1 -				

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 ADVANCED MAINT	HELP	
Port Forwarding	PORT FORWARDING		Helpful Hints
Application Rules	This is the ability to open ports in your router and re-direct data throu	wh 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 Pilter	PORT FORWARDING RULES CONFIGURATION	can still easily define a new rule.	
Inbound Filter	Remaining number of rules that can be created: 48	More	
Wireless Filter		THORE.	
DNS Setup	Exte	TCP TCP	
Firewall & DMZ	Application Name -		
Advanced Internet	IP Address << Computer Name	UDP UDP	
Advanced Wireless		1 (11	
Advanced LAN	Use Interface: pppos_0/pppos0 _		
SHMP Setup	Add/Apply		
Remote Management			
Routing Setup	ACTIVE PORT FORWARDING RULES		
Wi-Fi Protected Setup	Name Address External Port Internal Port Protoco	WAN Interface Edit Remove	af l
Logout		The first sector of the sector	9
1			

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

Belkin

BELKIN	F	Router Setup Utility	Ho	ne Help Log	out Internet Status: Com	nected
LAN Setap LAN Settings DHCP Cleant List	Th	II > Virtual servers is function will allow you to r L FTP server (Port 21), or at				
Internet WAN						
			Clear Changes App	ly Changes		
		Add Active World	5		 Add 	
MAC Address		Clear entry 1]		Clear	
Wreless	En	able Description	Inbound port	Type	Private IP address	Private port
Channel and SSID Security	1.	23		BOTH .	192.168.2.	
	2,			BOTH .	192.168.2.	
	3.			BOTH -	192.160.2.	
Firewall	4.		-	BOTH .	192.168.2.	-
Virtual General Cleat IP Filters	ş.			BOTH .	192.168.2.	
MAC Address Filtering	6.		•	BOTH .	192.160.2.	
	7.		· ·	BOTH .	192.168.2.	
	8.			BOTH .	192.168.2.	
Becurity Log	9,		-	BOTH .	192.168.2.	
a second of a		-			Contraction of the local distance of the loc	

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.

Edit firewall settings for this co			
 Maximum protection – Dis 	allow unsolicited	inbound traffic.	
 Allow individual application Click ADD to add it to the Ho 			abled to pass through the firewall to this compute
All applications	 	Hosted Applications:	
Age of Empires Age of Kings Age of Wonders Aliens vs Predator Anarchy Online Asheron's Call Baldur's Gate BattleCom Battlefield Communicator	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 arding. If the application y dow, it is recommended th	ou are adding
Protocol:	@ TCP	OUDP	
Port (or Range):	From:	To:	
Protocol Timeout (seconds):		TCP default 8640 UDP default 600	0
Map to Host Port		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				
etopia.	<u>Home</u> - Configure								
Duickstart LAN WAN Advanced	To make configural 1. Make a chan 2. Click Submit 3. Make more o 4. Click the Ale 5. If your chang	 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 Configuration options for the Wide Area Network connection on the Gateway.								
	Advanced configuration options for the Gateway. Consult the user documentation or help tex before changing any of these configuration options.								
			© 2005 Netopla, Inc.						

Next, click on Advanced.

lome	Configure Troubleshoot Sec	urity Install Re	start	Help
otonio	Home > Configure > Advanced			a an
netopia.		Network Configuration		
	IP Static Routes	Build IP static route table		
uickstart NN	IP Static ARP	Build IP static ARP table		
AN .		NAT		
vanced	Pinholes	Set up pinholes through NAT		
	IPMaps	Set up NAT one-to-one IP address mappings		
	Default Server	Set up NAT default server options	100	
	NAT Table Monitoring	Set up NAT Table Monitoring options		
		Services		
	Differentiated Services	Set up Differentiated Service options		
	DNS	Set up DNS options	1000	
	DHCP Server	Set up DHCP server and relay-agent options		
	RADIUS Server	Set up RADIUS server options	1000	
	SNMP	Set up SNMP community, trap and system group options	TAR	
	IGMP	Set up IGMP options	1200	
	Access Control	Set up Access Control		
	UPnP	Enable or disable Universal Plug'n'Play		
	LAN Management (TR-06	4) Enable or disable DSL Forum LAN-Side DSL CPE Configuration ser	vices	
	Ethernet Bridge	Set up ethernet MAC bridge		
		Miscellaneous		

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From the Advanced menu, click on Pinholes.

Home	Configure	Troubleshoot	Security	Insta			Restart	Help
	Home Con	figure > Advance	d > Pinholes	į > Edi	t Pinhole			
netopia.			P	inhol	e Entry			
Quickstart		P	inhole Name	• [
		P	rotocol Selec	x (TCP 🛟			
Advanced		E	External Port S	Start	0			
		E	External Port E	End	0			
		Ir	nternal IP Add	dress	192.168.1.0			
		Ir	nternal Port	[0			
				Sub	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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