





NETWORK SET UP GUIDE FOR

USX11ZAN /USX11ZS-J USX31ZAN/USX21ZS-J USX51ZAN/USX41ZS-J USX81ZAN/USX61ZS-J USX82ZAN/USX62ZS-J HDDX13D/HDDX03ZS DVRX16D/DVRX13D USHX16/USHX08

SUPPORTING ROUTER D-Link Linksys NETGEAR BELKI

If your router manufacturer is not listed please go to http://portforward.com/ and search your router model number for instruction on how to do your specific router setting and cross match it with our guide

IP Addresses on the Internet

When you connect to the Internet, through dialup connection, cable, DSL, or by other means, your Internet Service Provider assigns you an IP (Internet Protocol) address. This is a set of numbers that lets other computers on the Internet get in touch with you. An example of an IP address is 192.168.1.212. Any computer or network device connected to the Internet must have an IP address to be able to communicate over the internet.

Of course, when you connect to a web site or another type of server over the Internet, you usually don't type an IP address to get there. Instead you type something like http://www.burtek.com. "cnn.com" is a domain name, or host name. A host name is an easy-to-remember alias for an IP. Computers don't understand host names, they understand IP addresses.

DNS

DNS, or the Domain Name System, is the system that translates host names into IP addresses for the entire Internet. Whenever you type a domain name into your web browser, DNS translates that name into an IP address with which your computer can communicate. DNS is an Internet directory service; think of it as the Yellow Pages of the Internet.

Connecting to your DVR

As mentioned earlier, your ISP assigns you your IP address. Using this address and your remote access software, you are able to connect to your DVR. Unfortunately, if you do not have the most recent address assigned to you, you will be unable to connect. Most, if not all ISPs offer a premium service where they will assign a "Fixed" or "Static" IP address which will never change, this will no doubt resolve your issue.

Unfortunately this premium service is usually more expensive than your regular service... Static IP is an added cost that most customers will have to add to the internet service they have.

Dynamic DNS

DDNS is a service that maps Internet domain names to IP address, much like DNS. Unlike DNS, which only works with static IP addresses, DDNS works with dynamic IP addresses, such as those assigned by ISPs. To use DDNS, one simply signs up with a provider and installs the network software on any PC behind the modem, to monitor it's IP address.

The DDNS service gives your connection a friendly name on the internet. You can register Your's-dvr-name.com and have it point to your connection. Your unique host name will point to your connection as long as it is alive, no matter how often you're dynamic IP address changes. Most DDNS service providers offer free, yes free. Most will limit you by having to add their service name to your unique name: yourdvrname.theirname.org, a small price to pay for a free service.

P2P Cloud

Simply put, a P2P networking is an IP networking that uses peer-to-peer (P2P) network technology to simplify the linkage between IP DVR/XVR/NVR and your smart phone or PC when you view camera feed locally and remotely.

So how does a P2P IP camera work?

1- Using P2P Easy Networking QR code

Each P2P security DVR/XVR/NVR have a unique ID number (UID) and a QR code that will never change. Simply plug your network cable to the back of your security DVR/XVR/NVR. A true plug and play connection. Scan your QR code with your phone or input the UID to your remote software and you are connected. Your unique security DVR/XVR/NVR QR code and unique ID number (UID) will generate and display under system information in Configuration.

	System	Information	
Hybrid DVR Model: Version: Power On:		160	CH (R_VI_HB) (NTSC) 2.0b1_20200601 2020/03/09 17:10:57
Network IP: MAC:		annanaannaano annanaannaano	192.163.0.211 1C:CA:EB:57:AD:6D
HDD Recording Scheme:			Continuous Record
1 ST10000VX0004-1Z	Recording	Overwritable	9.6GB/9.1TB
		S.M.A.F	A.T. Information

QR code use for Smart phone connection SOcatch App simply scans the code with your phone. UID is used with SOcatch for MAC or Iwatch DVR. For PC simply put the UID in place of the host number.

Port is: 80 User name: admin Password is: 123456 unless you change it.

P2P can be easily disabled or enabled or set to renew P2P connection under network set up.

2- Using Static IP Address:

If you are using a static IP address there is two ways to configure your DVR on the network and make it visible to the world wide network:

A. Dedicated static IP address:

When using a dedicated Static IP address setting is simple you will need your static IP number from your internet service provider and you will need to make sure your internet modem or router as the gateway of the static IP.

20	See a second	2.2GB/	<mark>/931.5GB</mark> ork Setup			9	/11/2	013 PN	1 12:33:0
	🔲 Bandwidth Limit	ed			0	3		Mbps	
-	DHCP	Static IP	P	PPOE			36		
-	🗹 Encble								
	0Pe		192	0	168	<u>.</u> 1		212	
	Subnet Mask:		255		255	a 25	5.	0	
	Gatewayı		192		168	a 1		1	
	DNSI		8	o	8	. 8	}	8	
	Hrtrp Inable Ports	DDNS	<u>NTP</u>	Met	il Setu	IP		7P 33333)
8		OK 11	080P	Cano	cel				

On your DVR right click and Select the **configure** tab. Select the **network setup** tab on the right. Select the **static** tab. Check **Enable**.

In the **IP** field enter your Static IP address.

In the **subnet Mask** field enter your internet service provider subnet Mask. In the **Gateway** field enter your Static IP Gateway address.

In the **DNS** field enter your internet service provider primary DNS number. Select the **HTTP** tab. Check **Enable**.

In the **port** field enter port 80.

B. Using shared Static IP address:

If you are using a shared Static IP address with other device on your network this is when Static IP address is assigned to your router. You will need to complete the next step **configuring your router for non static IP section** and complete the port forwarding for your DVR to be viewable on line and via smart phone.

3- Configuring your Router for none static IP:

Router is the bridge between your DVR and the Internet. Connecting your DVR to your router will enable your DVR to become part of your network.

Due to the various brand and model of routers in the market, this guide might not cover all the aspect of setting your router. If you have any problem following the guide or need assistance, please **consult a Network specialist.**

In most of our router setting we will set your DVR as static device on your network keep in mind some router will require that you set your DVR to DHCP for it to be visible on the network.

Before you set up your router, please make sure that your computer and DVR are hardwired connected to the same router (not wirelessly) first step is to know your router IP address.

A. Knowing your Gateway (router) IP address:

In order to configure your router you need to know the address to your router also known as the gateway so we are able to log in to it and configure it, to so we have to use the IPConfig Command using the Window command prompt.

IPConfig is a command line utility available on all versions of Microsoft Windows starting With Windows NT. IPConfig is designed to be run from the Windows command prompt. This utility allows you to get the IP address information of a Windows computer. It also allows some control over active TCP/IP connections.

Open the Command Prompt. You can do this from the Start button, going to Programs > Accessories > Command Prompt. Or, click "Run..." under the start menu, type "cmd" into the box, and hit enter.



In the command prompt window, type "ipconfig" and press enter. Don't include the quotation marks. This will show you your Default Gateway current IP address.



Now that we know our router IP address (Default Gateway) you can exit the Command Prompt by typing "exit" and pressing enter.

The next step is to set the port forwarding in your router

B. Setting up your port forwarding:

Port Forwarding is also known as Port Mapping, is a method of making a computer on your network accessible to computers on the Internet, even though you are behind a router to redirect certain network traffic from the outside to a specific network device inside the local network. With Port Forwarding set up properly, the router knows which local device is outside traffic need to go to

Port forwarding feature is needed when there is the Iwatch-DVR device installed in local network and you require connection to the Iwatch-DVR from remote computers outside the local network or using a mobile device.

Ports are virtual pathways on which information on the Internet travel. There are 65,536 ports to choose from. A good analogy is to think of ports like extensions on a phone system.

Port to avoid every program on your computer that uses the internet is programmed to send its packets through specific ports. Sometimes the ports are selected arbitrarily by the programmers of the software, but other times programmers will use a more standard port depending on the functionality of the software. Here are some common ports you need to avoid using:

HTML pages: port 80 FTP file transferring: port 21 POP3 email: port 110 MSN Messenger: port 6901 and ports 6891-6900 In our guide will we always set the port to **88** but it you choice you may pick different number but keep in mind the port number set in the DVR has to match the port forwarding rule

C. Setting up your router D-Link:

The port forwarding process is dependent on the brand and model number of the router being used. Port forwarding of a router is required with your system to allow user access to your DVR.

Regardless of the D-LINK Router being used, the process of port forwarding is similar. You will need to enable the ports by locating the port range forwarding screen. With some D-LINK routers the port forwarding screen is located within the Applications and Games or Filters tab; in others it is located in the advance tools tab.

Let us start:

Open your web browser. Enter the router IP address <u>Http://192.168.0.1</u> in the address bar, followed by pressing **Enter**.

Product Page	: DIR-615	Hardware Version: E3 Firmware Version: 5.10	
D-Li	ink		
	LOGIN		
	Log in to the router: User Name : Admn • • • • A Password : I Login • C	_b	
WIRELE	ss		
	Capyright & 2004-2019 DUnk, Tric.		

Enter the user name (admin). Leave the password blank followed by pressing the **Login** button.

Note: if you change the user name or the password of your router use your new user name and password to login the default will not work.

Select the **Advanced** tab. Select the **Port Forwarding** on the left.



In the **Name** field enter a description of your DVR (e.g. DVR Home) Leave the application name and computer name.

In the **IP Address** field enter the DVR IP address (192.168.0.212). In the **TCP** enter the port number you need to port forward (88).

In the **UDP** re-enter the port number you entered in the private port field (88). Put a **check** mark next the entry.

Click save settings.

DIR-615		SETUP	ADVANCED		TOOLS	STATUS	SUPPORT
VIRTUAL SERVER	POF	T FORWARDING	G RULES:				Help ful Hints
PCRT FORWARDING ANTILICATION RULES QOS ENGINE NETWORK FILTER	This throu vario (102	option is used to on ugh those ports to us formets including (0-5000, 589), save Settings	pen multiple ports or a ran a single PC on your netwo g, Port Ranges (100-150), e Don't Save Settings	ye of p ck. This Individu	orts in your router feature allows yo ial Ports (60, 68, 1	r and redirect data outo enter ports in 800), or Mixed	Check the Application Name crop down menu for a list of predefined applications. If you select one of the predefined
WEISTIEFILIER	24	PORT FORW	ARDING BULES				applications, click the arrow button next to
INDOUND FILTER	-		a hí		Dante da Oa		the drop down menu to fill out the
FIREWALL SETTINGS		Name	a		TCP	02 Schedule	corresponding field.
ROUTING		DiskStation WebSer	 Application Name 	•	80 - 18	Always 👻	You can select a
	- M.	IP Address			UDP	Incound Litter	of DHCP, dents in the
ADVANCED WIRELESS					0	Allow All 👻	Computer Name drop
AUVANLED WIRELESS ADVANCED NETWORK		1 168.0.101	Sis Concuber Name		10.00		compared hanne drop
AUVANLED WIRELESS ADVANCED NETWORK EVS		1 5 168.0.101 Name	Consulter Name	-	ТСР	Schedule	down menu, or you can manualy enter the
ADVANCED WIRELESS ADVANCED NETWORK (395		Name d	Apu <mark>Coliun Name</mark>	÷		Schedule Aways	computer table drop down menu, or you can manualy onter the P address of the LAN computer to which
ADVANCED WIRELESS ADVANCTO NETWORK CIVE	0	Name d IP Add out	Ap Officin Name	•	0 0 UDP 0	Schedule Always - Incound Filter Alox All -	compared hand dop commenu, or you can manualy onter the IP address of the LAN computer to which you would like to open the specified not
AUYANCED WIRELESS AUYANCID NITWORK IZYS		Name IP Address 1.0.0.0 Name	Aparelium Name	•	TCP 0 UDP 0 TCP	Schedule Always • Intround Filter Allow All • Schedule	computer ranke wave you can manualy onter the P address of the LAN computer to which you would like to open the specified port.
ALVANCED WIRELESS ALVANCED NETVICEK (345		Name Mame IP Address 2.0.0.0 Name	Concuter Name Image: Application Name Image: Application Name Image: Application Name	•	тср 0 UDP 0 тср 0	Schedule Always - Incound Effer Alex All + Schedule Always +	compared many drop you commenu, or you can manually offer the P address of the LAN computer to which you would like to open the specified port. Select a schedule for when the mile with the

In older D-Link router setting has to be completed in virtual server Select the **Virtual Server** tab.

In the **Name** field enter a description of your DVR (e.g. DVR Home). In the **Private** IP field enter the DVR IP address (192.168.0.212).

In the **Protocol** field, select **both**.

In the Private port enter the port number you need to port forward (88)

In the **Public** port re-enter the port number you entered in the private port field (88) Select the **Schedule** to Always.

	Enha	DI-6 nced 2.4GHz	514+ z Wireless R	louter
Home	Advanced	Tools	Status	Help
Virtual Server	od to allow biomot u		N continue	
villuar Server is us			av services.	
	O Enabled	O Disabled		
Name			Clear	
Private IP	-			
Protocol Type	TCP			
Private Port				
Public Port				
Sebadula	0.41			
	O From			× 10
	O From	day Sun	: 00 M AM 00 M AM M 10 Sun M	× 10
Virtual Servers Li	O From	day Sun	100 M AM 10 M AM M 10 Sun M Apply 6	
Virtual Servers Li Name	O From st Priva	day Sun	100 MAM 10 MAM 10 Sun 10 Sun Apply C Sched	Cancel He
Virtual Servers Li Name	O From st FTP 0.0.0	day Sun	1 ahvay	Cancel He Jule
Virtual Servers Li Name Virtual Server f Virtual Server f	O From st FTP 0.0.0 HTTP 0.0.0	te IP Protocol 10 TCP 21/2 10 TCP 80.80	i 00 M AM 00 M AM to Sun M Apply C Sched 1 ahvay 0 ahvay	Cancel He Jule s
Virtual Servers Li Name Virtual Server Virtual Server Virtual Server Virtual Server	O From st FTP 0.0.0 HTTP 0.0.0 HTTPS 0.0.0	te IP Protocol 10 TCP 21/2 10 TCP 60/80 10 TCP 443/4	i 00 M AM 00 M AM M i to Sun M Apply C Sched 1 alway 0 alway 443 alway	Cancel He Jule s St s St
Virtual Servers Li Name Virtual Server Virtual Server Virtual Server Virtual Server	O From st FTP 0.00 HTTP 0.00 HTTPS 0.00 DNS 0.00	te IP Protocol 10 TCP 21/2 10 TCP 60/80 10 TCP 443/4 10 UDP 53/5	i 00 M AM 00 M AM to Sun M Apply C Sched 1 ahvay 0 ahvay 443 ahvay 3 ahvay	Cancel Ho Sule s Sta
Virtual Servers Li Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server	O From st FTP 0.00 HTTP 0.00 HTTPS 0.00 DNS 0.00 SMTP 0.00	te IP Protocol 10 TCP 21/2 10 TCP 60/80 10 TCP 443/4 10 UDP 53/5 10 TCP 25/2	i 00 M AM i 0 M M M i 10 Sun M Apply 0 Sched 1 ahvay 0 ahvay 443 ahvay 3 ahvay 5 ahvay	Cancel He Sule s Star s Star s Star s Star
Virtual Servers Li Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server	O From st Priva FTP 0.00 HTTP 0.00 HTTPS 0.00 DNS 0.00 SMTP 0.00 POP3 0.00	te IP Protocol 10 TCP 21/2 10 TCP 60/80 10 TCP 443/4 10 UDP 53/5 10 TCP 25/2 10 TCP 25/2 10 TCP 110/	i 00 M AM 00 M AM to Sun M Apply C Sched 1 ahvay 0 ahvay 443 ahvay 3 ahvay 5 ahvay 10 ahvay	Cancel Ho Sule s s s s s s
Virtual Servers Li Name Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server Virtual Server	O From st FTP 0.00 HTTP 0.00 HTTPS 0.00 ONS 0.00 SMTP 0.00 POP3 0.00 Telnet 0.00	te IP Protocol 10 TCP 21/2 10 TCP 60/80 10 TCP 443/4 10 UDP 53/5 10 TCP 110/ 10 TCP 110/ 10 TCP 110/ 10 TCP 23/2 10 TCP 23/2	i 00 M AM 00 M AM to Sun M Apply C Sched 1 ahvay 0 ahvay 443 ahvay 5 ahvay 10 ahvay 10 ahvay	Cancel Ho Sule s S s S s S s S

D. Setting up your router Linksys /Cisco:

The port forwarding process is dependent on the brand and model number of the router being used. Port forwarding of a router is required with your system to allow user access to your DVR.

Regardless of the Linksys / Cisco Router being used, the process of port forwarding is similar.

You will need to enable the ports by locating the port range forwarding screen.

With some Linksys routers the port forwarding screen is located within the Applications and Games or Filters tab; in others it is located in the advance tools tab.

The set up instruction outlined below is an example of port forwarding using

Let us start:

Open your web browser. Enter the router IP address <u>Http://192.168.1.1</u> in the address bar, followed by pressing **Enter**.

The server 192	.158.1.1 at Linksys E1200 requires a username and password
Warning: This sent in an inse connection).	server is requesting that your username and password be scure manner (basic authentication without a secure
	admin ••••• Remember my credentials

Enter the user name (admin) Enter the Password (admin) followed by pressing the **OK** button.

Note: if you change the password of your router use your new user name admin and new password to login the default will not work.

Select Application and gaming Tab.

						-11	Linksys E2000
Applications & - Gaming		Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration
	0-0	Single Port Forward	ing Por	t Range Forv	arding Port Ra	nge Triggering	DMZ QoS
Single Port	Forwarding						
Applica	tion Name	External Port	Internal Port	Protocol	To IP Address	Enabled	Help
	None 👻				192.168.1.0		
	None 💌				192.168.1.0		
	None 💌				192.168.1.0		
	None 💌				192.168.1.0		
[None 💌	1	22221		192.168.1.0		
WoW #1		3724	3724	Both 💌	192.168.1.126		
WoW #2		6112	6112	Both 💌	192.168.1.126		
		0	0	Both 💌	192.168.1.0		
		0	0	Both 👻	192.168.1.0		

Select the Single Range Forwarding tab.

In the **Application Name** column enter a description of your DVR (e.g. DVR Home). In the **External Port** field enter the port you need to port forward (88)

In the **Internal Port** field enter the port you need to port forward (88) In the **Protocol** field, select **both**.

In the IP address field, enter the DVR IP address (192.168.1.212).

Enable the system by checking the enabled box.

Select the **Save** settings button located at the bottom of the page to save your changes

Settings are successful.



C. Setting up your router NETGEAR Router:

The port forwarding process is dependent on the brand and model number of the router being used. Port forwarding of a router is required with your system to allow user access to your DVR.

Regardless of the NETGEAR Router being used, the process of port forwarding is similar. You will need to enable the ports by locating the port range forwarding screen. With some NETGEAR routers the port forwarding screen is located within the Applications

and Games or Filters tab; in others it is located in the advance tools tab.

The set up instruction outlined below is an example of port forwarding using

Let us start:

Open your web browser. Enter the router IP address <u>Http://192.168.1.1</u> or <u>Http://10.0.0.1</u> in the address bar, followed by pressing **Enter**.

Authentication	Required
0	A username and password are being requested by http://192.168.1.1. The site says: "NETGEAR WNR1000v3"
User Name:	admin
Password:	
	OK Cancel

Enter the user name (admin) Enter the Password (password) followed by pressing the **OK** button.

Note: if you change the user name or the password of your router use your new user name and password to login the default will not work.

Select the **Port Range Forwarding/ port triggering** on the left.

Click on Add Custom service.

F-mail Maintenance Router Status	Port Forwarding / Port Triggering
Attached Devices	Please select the service type
Backup Settings	Port Lorwarding
Set Password	C Port Enggering
Router Upgrade	
dvanced	Service Name Server II' Address
Wireless Settings	Age-o-Empire • 192 168 1
Repeating	U Survice Name Start Dart End Dart Survey ID Address
Function	THE SERVICE MAILINE STATE FOR SHOT PARTIES
Port Forwarding /	Edit Service Delete Service
WAN Setup	
LAN Setup	Adc Custom Service
QoS Setup	
Dynamic DNS	
Static Routes	
Remote	

On newer NETGEAR Routers

Select the **Advance** tab.

Select Advance setup on the left.

Select the Port Range Forwarding/ port triggering on the left. Click on Add Custom service.

BASIC ADV	Auto
ADVANCED Home	Port Forwarding / Port Triggering
Setup Wizard	Plane select the service time
WPS Wizard	Port Forwarding
▶ Setup	O For Higgeing
▶ USB Storage	Service Name Server IP Address
Security	# Service Name External Start Port External End Port Internal Start Port Internal End Port Internal IP addre
Administration	
· Advanced Setup	F Edit Service X Delete Service
Wireless Settings Wireless Repeating Function	+ Add Custom Service
Port Forwarding / Port	
Triggering	
Dynamic DNS Static Routes	? Help Center Show/Hide Help Center
Remote Management	
USB Settings	
IPv6	
Traffic Notor	

In the **Services** screen, proceed as follows:

NETGEAR SMARTWIZARD router manager 54 Mbps Wireless Router model WGR614 v6							
Setup Wizard	Ports - Custom Services	Ports - Custom Services - Help					
Setup Basic Settings Wireless Settings Content Filtering Logs Block Sites Block Services Schedule E-mail Maintenance Router Status Attached Devices Backup Settings	Service Name REMOTEDESKTO Service Type TCP/UDP Starting Port 3389 (1~65534) Ending Port 3389 (1~65534) Server IP Address 192 168 1 45 Apply Cancel	 To setup an application, game or service. Type the service name in the Service Name box. Type the beginning port number in the Starting Port box. If the application uses only a single port, type the same port number in the Ending Port box. If the application uses a range of ports; type the ending port number of the range in the Ending Port box. Type the IP address of the 					
 Set Password Router Upgrade 	-	computer in the Server IP Address box. 6. Click Apply button.					

In the **Service Name** field enter a description of your DVR (e.g. DVR Home). In the **Type** field, select TCP/UDP

In the **Start Port** field, enter the first number of the port you need to port forward (88) In the **Ending Port** field, enter the ending port number (88)

In the server IP address field, enter the DVR IP address (192.168.1.212).

ADVANCED Home	Ports - Custom Services		
Setup Wizard	× Cancel	Apply >	
WPS Wizard	Service Name		
► Setup	Protocol	TCP/UDP	
► USB Storage	External Starting Port	(1~65534)	
► Security	Use the same port range for internal port	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Administration	Internal Starting Port	(1~65534)	
Administration	Internal Ending Port	10 0 0	-
* Advanced Setup		Or select from currently attache	d devices
Wireless Settings		IP Address	Device Name
Wireless Repeating Function		0 10.0.0.2	
Port Forwarding / Port			
Triggering			
Dynamic DNS			
Static Routas			
Remote Management			
USB Settings			
UPnP			
IPv6			
Traffic Motor			

Select the **Apply** button to save your changes

D. Setting up your router BELKIN Router:

The port forwarding process is dependent on the brand and model number of the router being used. Port forwarding of a router is required with your system to allow user access to your DVR.

Regardless of the BELKIN Router being used, the process of port forwarding is similar. You will need to enable the ports by locating the port range forwarding screen. With some BELKIN routers the port forwarding screen is located within the Applications and Games or Filters tab; in others it is located in the advance tools tab.

The set up instruction outlined below is an example of port forwarding using

Let us start:

Open your web browser. Enter the router IP address <u>Http://192.168.2.1</u> in the address bar, followed by pressing **Enter**.

Note: if you change the user name or the password of your router use your new user name and password to login the default will not work.



Select the Login on the top right of the page

Nuter a	iciuli	
ogin		
	Before you can change any settings, you need to password. If you have not yet set a custom pass this field blank and click "Submit."	o log in with a word, then leave
	Password Default = leave blank	Leave the
	Clear Submit	Field blank and click Submit.

Leave the password blank followed by pressing the **Submit** button. Select the **Virtual servers** on the left.



Enable the system by checking the enabled box

In the **Description** column enter a description of your DVR (e.g. DVR Home).

In the **Inbound Port** entry field enter in the first box the first number of the port you need to port forward and the ending port number in the second box in (88 - 88).

In the **Type** field, select **both**.

In the **Private IP** Address field, enter the IP address of the DVR (192.168.2.212).

In the **Private Ports** column re-enter in the first box, the first number of the port you need to port forward and in the second box the ending port number(88-88).

Select the **Apply Changes** button located at the top of the page to save your changes

BELKIN	Ro	uter Setup				Home Help Logout	Internet Status: Conn	ected
LAN Setup	Fire	wall > V	/irtual server:	s				
DHCP Clien: List		This funct	ian mill al om vou :	to mute external (Inte	met) calls for	caru and such as a waa d		
Internet WAN Conrection Type		(port 80), network.	FTP server (Port More Info	21), or other applicatio	rs through yo	ur Router to your interna	al	
DNS			C	lass Charges	Apply Ch			
MAC Address			Add Cotholid	lear Charges	Apply Co	anges J		
Wireless				unus		- A00		
Geocrity			Clear entry	ali 💆		Clear		
Use as Access Point		Enable	Description	Inbound port	Турс	Privato IP address	Private port	
MAC Address Control	1.				TCP -	192.165.10.	-	
Firewall Mitusi Gervera	2.					192.168.10		
Cliert IF Fil:ers DMZ	ε.			-		192.168.10.	-	3
DDNS	4.				TC> -	192.168.10.		
WAN Ping Clocking Security Log	с.				TC7 -	192.160.10.	-	
Utilities Restart Router	ε.				TC> -	192.168.10.	-	8
Restore Factory Default	7.			-	TC ^{>}	192.168.10.	-	
Save/Backup Settings Restore Previcus Settings	٤,				TC> 💌	192.162.10.		
Frmware Update System Settings	s.					192.168.10.	-	

Select the Apply Changes button located at the top of the page to save your changes

Note: Many routers require restarting for changes to take effect which will cause a brief period of a disconnected internet connection.

3- Configuring your Digital video Recorder DVR:

After configuring your router and setting the port forwarding the next step now is to input our setting in the DVR

On your DVR right click and Select the **configure** tab.



Select the **network setup** tab on the right.



Select the static tab. Check Enable.



In the **IP** field enter your DVR IP address you input in to the port forwarding rule you created in your Route;

D-Link 192.168.0.212 Linksys /Cisco 192.168.1.212 NETGEAR 192.168.1.212 / 10.0.0.212 BELKIN 192.168.2.212 In the subnet Mask field enter Default subnet Mask (255.255.255.0). In the Gateway field enter your Default Gateway address (your router IP address). In the DNS field enter Default DNS (8.8.8.8). Select the HTTP tab. Check Enable. In the port field enter the port you input in to the port forwarding rule you created in your Route (88). Select OK button to save and exit.

4- Verifying your port forwarding and setting:

It is important to check and verify to make sure your port forwarding and your Recorder setting are all correct and working an easy way to check is to use yougetsigna.com.

http://www.yougetsignal.com

Using internet browser's go to address above Select **Port forwarding Tester**.

It will automatically identify your public IP address. Input the port you created (88).

Select the Check.



You should get Port 88 is open on (your public IP address).

5- Using DDNS Server with DHCP IP Address:

Dynamic DNS

DDNS is a service that maps Internet domain names to IP address, much like DNS. Unlike DNS, which only works with static IP addresses, DDNS works with dynamic IP addresses, such as those assigned by ISPs. To use DDNS, one simply signs up with a provider and installs the network software on any PC behind the modem, to monitor it's IP address.

The DDNS service gives your connection a friendly name on the internet. You can register yourdvr-name.com and have it point to your connection. Your unique host name will point to your connection as long as it is alive, no matter how often your dynamic IP address changes.

Most DDNS service providers offer free, yes free, packages. Most will limit you by having to add their service name to your unique name: yourdvrname.theirname.org, a small price to pay for a free service.

How it works

The application you install on your PC behind your modem is in constant communication with the DDNS servers on the Internet. There is a user specified setting which will send

the IP address of the PC it is installed on anywhere between 1 to 30 minutes. The DDNS servers will update its database for your entry if necessary.

When you try to communicate with yourdvr.theirname.org, the request is processed by their servers and redirected to your connection. It's that simple.

The Capture line of DVRs allows you to directly type your DDNS name in the address space of the remote client software.

This is the basic functionality, to find out more, open your favorite search engine and type DDNS or Dynamic DNS. You will see that there are many providers, offering different features. Here are a few of the popular names we came across:

www.dyndns.org www.no-ip.com www.tzo.com

Our DVR come with free DDNS service as well <u>Http://I-DVR.net</u> it is easy to use and easy to set up, allowing you to connect your system to the Internet, even if you don't have Static IP address.

Let us start activating your DDNS service and configure it on to your DVR, Every DVR comes with a software CD like the one shown below it continence Complete user manual for your DVR as well as quick start guide and central management software(for managing multiple DVR units in one central software).



On each CD there is a DDNS sticker (newer DVR's the sticker is located on the bottom of your <u>DVR</u>) with the unique username and password just for your DVR so do not use different username or password and please do not loss the sticker.

Note: We strongly recommend removing the sticker off the CD and placing it on the bottom of your DVR.

To start activating your free DDNS service log in to the DDNS server by using your computer browser go to the following web address <u>Http://i-dvr.net</u> and log in using your unique user name and password off of the DDNS sticker located on the DVR included CD :

http://i-dvr.net/	ר פ ל 🦉 i-dvr.net	×	ស្រីជ
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		and an an and a start of a	
User Logon			
	Control Pa	nel Logon	
	User Name: IC09911	16	
	Password:		
	Psesword is o	ese sensitve.	
	Logon	Reset	

After you are log in to the DDNS go to the **Add New Record** section and enter a **name of your choosing** in the blank space under (**host.domain**) with no spaces.

The IP section displays your current dynamic IP address do not edit it . After you enter a name of your choosing, click **insert** under **(actions)**.

	ag to taskbar to pin site			
		Hosts Logout		
st Manage	ſ			
	host.domain	IP	actions	
dd New Re	cord			
	host.domain	IP	actions	
	yournosthame × i-dvr.riet	74.92.29.137	insert	

After you click (insert), your new DDNS host domain will be displayed in the (Host Manager) section. Your complete host domain will be the name of your choosing plus .i-dvr.net (yourhostname.i-dvr.net).

	Hosts Locout	ha ana ana ana amin'ny	
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yourhostname.i-dvr.r	net 74.92.29.137	update delete	=
Add New Record		1	
Add New Record host.domain	IP	acuons	

Note: remember to log in to this website once in a while and click on the "update" bottom under "actions". This will refresh your dynamic IP address with the host to ensure your host domain is kept updating with your dynamic IP.

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d					{	3		Mbps	
Static I	P	P	DP@[BAU I			36		
	(192	a	163	a	1	a	212	
	(255	a	255	a	255	a	0	
	(192	a	168	a	1	σ	1	
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DDNS		l-dvr.n ez-dne		<u>nii Set</u>	<u>alb</u>		FT	'P	
	ł	dyndn	8.00	8	_		_		3
	2 N Static I	2.0GB/98 Network d Static IP	2.0GB/931.5GB Network Setup :d Stattic IP PF 1992 255 1992 8 DDINS NTP	2.0GB/931.5GB Network Setup :d Static IP PPPol 192 a 255 a 192 a 8 a DDNS NTP M I-dvr.net ez-dns.co i-dvr.net dyndns.or	2.0GB/931.5GB Network Setup :d [] Static IP PPPoE [192 . 163 [255 . 255 [192 . 163 [255 . 255][255][255][255][255][255][255][255]	2.0GB/921.5GB Network Setup :d 1 Static IP PPPoE 192 168 255 255 192 168 28 255 192 168 8 8 200NS NTP Mail Setup i-dvr.net dyndns.org	2.06B/931.5GB 9/1 Network Setup 1 :d 1 Static IP PPPole 192 a 168 a 1 255 a 255 192 a 168 a 1 8 a 8 a 8 DDNS NTP Mail Setup idvr.net dyndns.org	2.00B/931.5GB 9/11/2 Network Setup 1 3 1 :d 1 3 1 3 1 Static IP PPPolE 36 1 0 255 255 255 0 192 168 1 0	2.0GB/931.5GB 9/11/2013 P Network Setup 1 8 Mbps static IP PPPolE 36 192 168 1 212 255 255 255 0 192 168 1 1 8 8 8 8 8 DDNS NTP Mail Setup FTP I-dvr.net ez-dns.com -dyr.net dyndns.org

On your DVR right click and Select the **configure** tab. Select the **network setup** tab on the right. Select the **DDNS** tab. Check **Enable**.

Pick i-dvr.net from the server list

In the **Host** field enter the host you picked on I-DVR.net server page (yourhostname). In the **User** field enter user name off the DDNS sticker on the CD.

In the **password** field enter password off the DDNS sticker on the CD.



DDNS server activation and setup now is complete.

6- Connecting the DVR to the Internet:

To log in to your DVR using your computer Internet Explorer browser in the address bar;

If using the IP address type in (http://your local IP address: port number), in our example, it is (http://192.168.1.212:88) and press Enter key.

If using the DDNS type in (http://your host name: port number), in our example, it is (http://yourhost name.i-dvr.net:88) and press Enter key.

The server 74.	92.29.137 at . requires a username and password.	
Varning: This ent in an ins connection).	server is requesting that your username and passwo ecure manner (basic authentication without a secure	ord be
	admin	
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You should be prompted to enter User Name and Password. The default User Name is (admin), the default Password is (123456), In the User field enter user name admin. In the password field enter password 123456.

Your browser will display multiple options you will need to pick the option that work best for your device or computer;

iWatch DVR for Internet Explorer 7/ 8/ 9/ 10 this option will only work with Internet Explorer and require that you install active X add on in your browser.

Download iWatch DVR for Windows XP/Vista/ 7/ 8 this option if you do not want to use Internet explorer and like to have quick easy utility on your desktop to access your DVR.

Download iWatch DVR for Mac OS X 10.6 or above please do not use this option for Apple Mac computer you will need to download the latest version of SOCatch for MAC from the Apple app this will give you an easy utility (app)on your Mac computer to access your DVR.

JPEG viewer this easy option that will work with all devices and give you image like view of your cameras.

	http://74	<u>i92.29.137</u> ♀ - ≥ iWate <u>download</u> download	→ Ø DVR ch DVR for Inter d iWatch DVR for l iWatch DVR for JPEG v	× met Explorer ' or Windows X r Mac OS X 1 viewer	7/8/9/10 P/Vista/7/8 0.6 or above	□ □ × ☆ ©
And	roid		iPhone iPad		Windows Phone 7	

Note: Choose (Internet Explorer) if you want view the DVR in Internet Explorer. This is suggested if you are using a public computer. Choose (Download Iwatch DVR) if you want to save a copy of the viewing software onto your computer, recommended if you are using your personal computer.

You will be able to control the DVR anywhere and anytime as if you are in front of the actual DVR.

Congratulation, you have successfully connected your DVR to the Internet.



Here is the setup Quick check list without it your remote view will not work;

1- If you are a DSL user, and are using your own router please make sure your DSL Modem is set to bridge mode, if your DSL modem not bridged you have two routers back to back and your remote view will not work.

2- For DSL user Make sure the connection type setup in your secondary Router is set to PPOE, if it is not and you have internet connection that mean your DSL Modem/router is not in bridge mode, your Network remote view will not work.

3- Make sure the Router port forwarding is set correctly and is active with the same port number as the DVR (HTTP Tap enabled with matching port number) with the same IP address as the one you had assign to your DVR if you are off by one number or one zero your remote view will not work.

4- Make sure the DVR Network is set to LAN(static Tap enabled) and the IP address match the port forwarding IP in your Router and the Gateway match he IP address to the Router itself.

5- Make sure HTTP server is enabled (HTTP tap under network) and the port number matches the port number range in the port forwarding in the router.

6- Some routers you will need to enable the DHCP Tap in order for the DVR to pick a valid IP address.

Skipping any of the listed steps will result in your DVR not been viewable on line If you still have any question regarding connecting your DVR to the Internet and you cannot find the answer you need in this guide, please consult a network specialist for assistance.