D-Link DVG-G1402S

Wireless + 2Voice + 4SW VoIP Router

Manual



Building Networks for People

Version B.1

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Package Contents

- D-Link DVG-G1402S Router
- Power Adapter AC 12V, 1.2A
- Manual and Warranty on CD
- Quick Installation Guide
- Ethernet Cable (All the Ethernet ports on DVG-G1402S are Auto-MDIX)

Note: Using a power supply with a different voltage rating than the one included with the DVG-G1402S will cause damage and void the warranty for this product.

If any of the above items are missing, please contact your reseller.

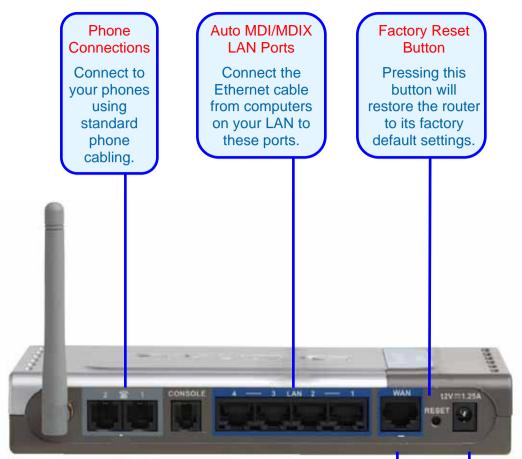
- System Requirements for Configuration
- Ethernet-Based Cable or DSL Modem
- Computers with Windows, Macintosh, or Linux-based operating systems with an installed Ethernet adapter
- Computers with Windows, Macintosh, or Linux-based operating systems with an installed Ethernet adapter
- Internet Explorer Version 6.0 or Netscape Navigator Version 6.0 and Above

Introduction

The D-Link DVG-G1402S High-Speed VoIP Router Links traditional telephony networks to IP networks with conventional telephony devices such as analog phones or fax machines. It can reduce long distance phone charges and deliver toll-quality voice communication over the IP network. This gateway provides two loop start Foreign Exchange Subscriber (FXS) ports and four LAN ports. One Ethernet port for a DSL/Cable Modem or other WAN devices, and the other for connection to create a home or small office LAN networks. The built-in DHCP server/client and Network Address Translation (NAT) function automatically assign IP address for LAN users, allowing multiple users to share a single Internet connection. It can be configured/monitored via the Console, Web browser, Telnet and HTTPS provisioning is also supported.

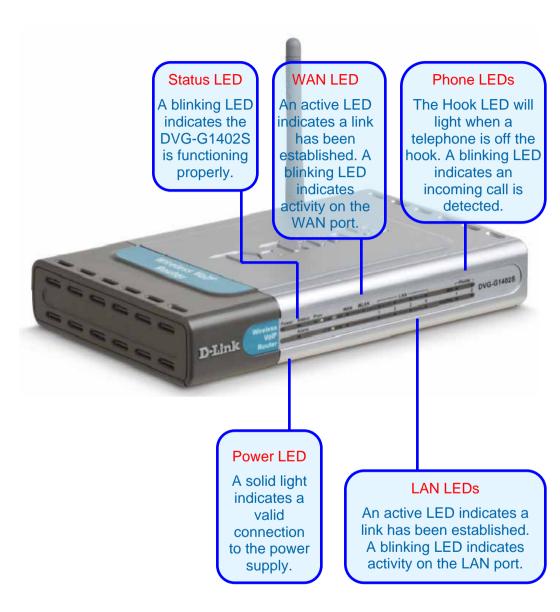


Rear Panel Connections



All Ethernet Ports (WAN and LAN) are auto MDI/MDIX, meaning you can use either a straight-through or a crossover Ethernet cable. WAN Port Connect the Ethernet cable from your ADSL modem to this port. Power Adapter Connect your 12V 1.25A power adapter here.

Front Panel LEDs



Features

- 1 NWay 10/100BASE-TX Fast Ethernet port for WAN-connection
- 4 NWay 10/100BASE-TX Fast Ethernet port for LAN-connection
- 2 Foreign Exchange Subscriber (FXS) POTS ports (RJ-11 Jacks)
- Voice Activity Detection (VAD) /Comfort Noise Generation (CNG)
- Silence suppression to reduce bandwidth consumption.
- Adaptive jitter buffer for a smooth voice reception
- Lost packet recovery ability for improved voice quality
- Support QoS (Quality of Service) for voice quality guarantee.
- Build-in PPPoE function to support dial-up connection for broadband technology.
- IP address assignment using DHCP or static configuration
- RIP1/RIP2 and static routing support
- Support IP sharing to allow multiple users to access the Internet via a single IP address
- Support Caller ID function
- Configuration download using HTTPS and SSL/TLS client certificate encryption and authentication
- Support VPN Pass-Through
- MAC and Packet filter support
- Remote configuration and management over the Internet using web browsers
- Firmware backup support
- Support configuration backup and restore

Installation

For a typical setup at home, please do the following:

- 1. You will need broadband Internet access (a Cable or DSL-subscriber line into your home or office)
- 2. Consult with your Cable or DSL provider for proper installation of the modem
- 3. Connect the Cable or DSL modem to the DVG-G1402S VoIP Router (see the printed Quick Installation Guide included with your router.)
- Install the D-Link DFE-530TX+ adapter into a desktop computer. The four Ethernet LAN ports of the DVG-G1402S are Auto MDI/MDIX and will work with both Straight-Through and Cross-over cables.

(See the printed Quick Installation Guide included with the DFE-530TX+.)

Using the Configuration Wizard

Whenever you want to configure your network or the DVG-G1402S, you can access the Configuration Menu by opening the web-browser and typing in the IP Address of the DVG-G1402S. The DVG-G1402S default IP Address is shown to the right:

- Open the web browser
- Type in the IP Address of the Router (http://192.168.15.1)
- Type admin in the User Name field
- Type admin in the Password field
- Click OK

The **Home > Wizard** screen will appear. Please refer to the Quick Installation Guide for more information regarding the Setup Wizard.



These buttons appear on most of the configuration screens in this section. Please click on the appropriate button at the bottom of each screen after you have made a configuration change.

Note: if you have changed the default IP Address assigned to the DVG-G1402S, make sure to enter the correct IP Address. Clicking this button will save configured settings to the router.



Apply

Clicking Cancel will clear changes made to the current page.



Clicking Help will provide the user with helpful information about the current window.



Click refresh will refresh the statistics of the current window.

Home > Wireless

				MAC Addr	
eless LAN Basic	2				
Vireless LAN Set	ttinas				
Vireless LAN		nabled 🔽			
Wireless LAN Mo	de II	EEE802.11Ł)/g 💌		
Channel	6	ch	~		
^o reamable	L	ong & Shor	t 💌		
SSID Settings					
SSID	d	efault			
	adcast 🛛 🗖	isabled 🔽			

Wireless LAN Usage	This drop-down menu allows you to enable or disable the Wireless LAN feature on the DVG-G1402S.					
Wireless LAN Mode	You can select between three IEEE WLAN standards – 802.11b/g. 802.11g, and 802.11b – depending upon which type of Wireless LAN devices you have.					
Channel	What channels are available for use by the access point depends on the local regulatory environment. Remember that all devices communicating with the device must use the same channel (and use the same SSID). Use the drop down menu to select the channel used for your 802.11b wireless LAN.					
Rate Config	You can select between Long, Short, and Long and Short.					
SSID	Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is default. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.					
Hidden SSID	Enabling this feature will prevent the DVG-G1402S from broadcasting it's SSID. Remote stations will have to have the router's SSID manually entered to connect.					

Home > Wireless > Wireless LAN Authorization

Home	Advanced	Tools	Status	Help
Wireless LAN C O Wireless LAN		s LAN Authoriza	ion O MAC Addres	ss Filter
Authorization Se Authorization Tyj	1. T. W. L.	N OWEP C	WPA OWPA-PS	NZ:
22	VINO Autr	I UWEP C	WPA OWPA-PS	or.
WEP Settings				
	💿 Open A	Auth OShared	Auth O Auto	
Encryption Type	Hex			
Key 1 🔿	64(40)b	it 🔍		
Key 2 🔿	64(40)b	it 🖂		
Key 3 🔿	64(40)b	it 👘		
Key 4 🔿	64(40)b	it 👻		
			CA	3 0
				<i>•</i> •
			Apply Co	incel Help

Authentication This router employs three basic types of Authentication for access to the router's wireless network, WEP, WPA, and WPA-PSK, which can be selected by clicking the corresponding radio button. No Auth will disable Wireless LAN authentication. Each selection will alter the window to accommodate the entry of the necessary keys. See the explanation below for more information.

Open Auth – Shared Key

Home	Advanced	Tools	Status	Help
	Configuration: AN Basic ⓒ Wireless	s LAN Authorizati	ion 🔿 MAC Addres	ss Filter
Authorization S Authorization T	and the second	0.WED 0		11.2-
Samonzanon i	ype 🔘 No Auth	N 💿 WEP 🔘	WPA OWPA-PS	oK
WEP Settings				
Auth Method	💿 Open A	uth O Shared	Auth 🔘 Auto	
Encryption Typ	e Hex 💌]		
Key 1 🔘	64(40)b	t 🔽		
Key 2 🔘	64(40)bi	it 🔽		
Key 3 🔘	64(40)bi	it 💌		
Key 4 🔘	64(40)bi	it 💌		
			-	
			V	90
			Apply Co	ncel Help

The Open Auth – Shared Key choice for Authentication will produce the screen shown above for the user's configuration. The Open Auth choice is for general use and utilizes basic WEP encryption. The Shared Key choice is used between cooperating devices that share a common encryption key. WEP (Wireless Encryption Protocol or Wired Equivalent Privacy) encryption can be enabled for security and privacy. WEP encrypts the data portion of each frame transmitted from the wireless adapter using one of the predefined keys. Decryption of the data contained in each packet can only be done if the both the receiver and transmitter have the correct shared key.

WEP – Click the Enabled radio button to employ WEP encryption on the router.

Auth Method – Select Open Auth, Shared Auth, or Auto.

Encryption Type – Use the pull-down menu to select the type of Key to be used for encryption. The user may choose HEX (Hexadecimal) or ASCII (American Standard Code for Information Interchange). Both will require the user to enter a key in the following field.

Key field drop-down menu - Use the drop down menu to select the type of WEP encryption. Select 64 Bit to enable 64 bit Hexadecimal encryption, 128 Bit to enable 128 bit Hexadecimal encryption, 152 Bit to enable 152 bit Hexadecimal encryption.

Key – The user may enter up to four keys to be used for encryption. Only the key selected using the corresponding radio button will be used for encryption.

Click Apply to set the information in the router's memory. You will be prompted to restart the router to make the settings current.

WPA

WPA or Wireless Protection Access is a new an improved standard of wireless security. WPA offers encryption keys of up to 256-bits that automatically change frequently. On this router, the WPA utilizes the RADIUS protocol, which utilizes a server to authorize the user by matching a Shared Secret password listed in its RADIUS database. There are three choices for the user to choose from. WPA, WPA2 which uses the Advanced Encryption Standard (AES), and WPA-Auto which will authorize clients using either WPA or WPA2. See the explanation below.

Home	Advanced	Tools	Status	Help
Nireless LAN Co	onfiguration: I Basic 💿 Wireless	LAN Authorizat	ion O MAC Adds	ooo Filtor
U Wileless LAN	i Dasic 🕑 Villeless			ess i iitei
Authorization Set Authorization Typ	Contraction of the second s	WEP 💿	WPA OWPA-F	PSK
WPA				1
Radius Server			1	
Port	1812			
Secret				
Group Key Interv	al 1800			
			0	0 0
			Apply C	ancel Help

RADIUS Server IP – Enter the IP address of the remote RADIUS server you will use to be authenticated through.

Port – Enter the virtual port number to which to connect through the RADIUS server. Common port numbers for RADIUS are 1812 and 1813.

Secret – Enter the password which will be used to authenticate you on the wireless network. This password must be on the RADIUS server in order for you to be authorized.

Group Key Interval – Enter the time period, in seconds, that group keys will be exchanged.

WPA-PSK

WPA-PSK (Pre-Shared Key) uses the same encryption as the WPA but is implemented differently. All devices on the wireless network share the same key (Passphrase) to activate the WPA security. There are three choices for the user to choose from. WPA-PSK, WPA2-PSK which uses the Advanced Encryption Standard (AES), and WPA-PSK-Auto which will authorize clients using either WPA or WPA2. To utilize, select one of the previous choices, enter the Passphrase, confirm it in the second field and click Apply.

Home	Advanced	Tools	Status	Help
Wireless LAN (Configuration: N Basic ⓒ Wireless	: I AN Authorizati	on 🔿 MAC Addre	ss Filter
Authorization S	ettings	225 225	WPA ⊙WPA-P	
WPA PSK				
Passphrase Group Key Inte	rval 1800			
			Monthank Contraction Contracti	3 🕄

Home > WAN

Home	Advanced	Tools	Status	Help
WAN Settings				
	e appropriate option i	to connect to you	ır ISP.	
⊙ Dynamic IP .	Address automa		tain an IP address ISP.(For most Cab	
◯ Static IP Ad		e this option to se d to you by your l	t static IP informat ISP.	ion
OPPPoE		e this option if you SL users)	ur ISP uses PPPoB	E.(For
Dynamic IP	inost D	OE doeroj		
Host Name			optional)	
MAC Address	00 - 50	- 22 - 33	. 44 - 55 (op	tional)
Clone MA	C Address		······································	
Primary DNS A	ddress 0 . 0	. 0 . 0		
Secondary DNS Address	0.0		(optional)	
Upstream Band	width 1024	Kbyte		
			Ø 🥝 Apply Cance	C) I Help
nic	Choose Dynar automatically f your ISP has r commonly use	from your IS not supplied y	P. This option	n should be so address. This
lame	The Host Nam The default he may be change	ost name is		
Address		on the Broad	dband Router.	/AN's physical It is not recor ess unless rec
MAC Address				/AN's physical You can use th

MAC Address" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP.

Enter a DNS Address if you wish not to use the address provided by your ISP.

Upstream Bandwidth The upstream bandwidth can be set for the data traffic. The bandwidth can be maximized for voice packets and limited for data that requires less throughput.

Home > WAN > Static IP Address

Reflection of the second s	lvanced	Тоо		Status	Help
WAN Settings					
Please select the app	opriate option t	o connec	t to your l	SP.	
ODynamic IP Addres		tically from		in an IP address P.(For most Cable	t:
 ● Static IP Address 			on to set s y your ISP	tatic IP informatio P	in
OPPP₀E		this optio SL users)		SP uses PPPoE.	(For
Static IP		5			
IP Address	0 . 0 ISP)	. 0	. 0	(assigned by	your
Subnet Mask	0.0	. 0	. 0		
Default Gateway	0,0	. 0	. 0]	
Primary DNS Address	0,0	. 0	. 0		
Secondary DNS Address	0.0	. 0	. 0	(optional)	
Upstream Bandwidth	1024	Kbyte			
				Ø 🙆	0
				Apply Cancel	Help

Static IP Address	Choose Static IP Address if all WAN IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The Router will not accept the IP address if it is not in this format.
IP Address	Input the public IP Address provided by your ISP.
Subnet Mask	Input your Subnet mask. (All devices in the network must have the same subnet mask.)
IP Gateway Address	Input the public IP address of the ISP to which you are connecting.
Primary DNS Address	Input the primary DNS (Domain Name Server) IP address provided by your ISP
Secondary DNS	This is an optional DNS Address entry to be used if the primary
Address	17

DNS Fails.

Upstream Bandwidth

The upstream bandwidth can be set for the type of packets that the will be sent. The bandwidth can be maximized for voice packets and limited for data that requires less throughput.

Please be sure to remove any existing PPPoE client software installed on your computers.

Choose PPPoE (Point to Point Protocol over Ethernet) if your ISP uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

Home > WAN > PPPoE

Home	Advanced	Tools	Status	Help
WAN Settings Please select th	he appropriate option		r ISP. obtain an IP address	
O Dynamic IP	Address autor mode	natically from you em users)	ir ISP. (For most Cal	ble
O Static IP Ad		se this option to : fed to you by you	set static IP informa r ISP.	tion
⊙ PPP₀E		se this option if y DSL users)	our ISP uses PPPo	E (For
PPPoE		0000000		
User Name]	
Password				
Retype Passwo	end .]	
IP Address	10.1.1.1			
Primary DNS A	ddress 0	0 0	0	
Secondary DNS	Address 0	0.0	0 (optional)	
Upstream Band	width 1024	Kbyte		
Auto-reconnect	Disconne	ict /		
PPPoE Status	Disconne	ét):		
		Connec	t Discon	nect
			🤣 🄇	3 0
			Apply Co	incel Help

PPPoE

Password **Retype Password** Service Name **IP** Address

MAC Address

Choose this option if your ISP uses PPPoE. (Most DSL users will select this option.)

Enter The PPPoE user name provided to you by your ISP.

Retype the password entered in the previous field.

Enter the Service Name provided by your ISP (optional).

This option is only available for Static PPPoE. Enter the static IP Address for the PPPoE connection.

The default MAC Address is set to the WAN's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by vour ISP.

Primary DNS Address	Input the primary DNS (Domain Name Server) IP address provided by your ISP
Secondary DNS Address	This is an optional DNS Address entry to be used if the primary DNS fails.
Upstream Bandwidth	The upstream bandwidth can be set to suit the type of packets that the connection will be sending. The bandwidth can be maximized for voice packets and limited for data that requires less throughput.

Home > LAN

LAN is short for Local Area Network. This is considered your internal network. These are the IP settings of the LAN interface for the DVG-G1402S and may be referred to as Private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

Home	Advanced	Tools	Status	Help
LAN Settings The IP address	of the DVG-G1402S.			
IP Adresss	192 . 168	3.15.1		
Subnet Mask	255 . 255	5 . 255 . 0		
			🤣 🥺 Apply Cancel	

IP Address The IP address of the LAN interface. The default IP address is 192.168.15.1.

Subnet Mask The subnet mask of the LAN interface. The default subnet mask is 255.255.255.0.

Home > VoIP

All of the screens necessary to setup and configure the router to handle VoIP traffic are accessed from the screen shown below.

To access any of the individual configuration screens, click on the corresponding radio-button and that screen will appear.

Home	Advanced	Tools	Status	Help
SIP Configura	tion			
O Server Co	nfiguration			
🔘 Provisioni	_			
O STUN Con	SS 47			
🔘 User Agen				
Peer to Pe	er			
🔘 Telephony	1			
🔘 Speed Dia	ıl			
O Misc.				
🔘 Manage F	eatures.			
				0
				U
				Help

Home > VoIP > Server Configuration

The Router can be configured to handle voice signals over the Internet Protocol (Voice over IP – VoIP). The screen shown to the right, along with those on the following pages are used to configure your router to communicate with the devices that will send and receive telephone calls over the Internet.

Home	Advanced	Tools	Status	Help
5IP Server				
Server FODN	D	sabled 🛩		
IP Address	0	0 0	0	
Domain Name	0.00			
Port	50	60		
Secondary Serv	er FQDN Di	sabled 🛩		
Secondary IP A	ddress 0	. 0 . 0	0	
Secondary Don	asin Name			
Secondary Port	0			
	-	Charles and		
Outbound Proxy	919 Marson 🏙	sabled 👻		
Outbound Prexy		sabled 🛩		
Outbound Pros	C. Statistics and the	0 0	0	
Outbound Pros	y Damain Name			
Outbound Pros	Pert 0			
Service Domain				
URL Format		IP-URL V		
User Parameter		sabled ¥		
Caller ID Delive		ES 💌		
Display CID		nabled 💌		
Timer T2	4	¥ 560		
	-			
Initial Unregiste	r Er	nabled 💌		
Register Expira	tion 36	i00 sec		
Session Expire	s 10	100 sec		
Min-SE	10	100 sec		
Session Expire	s Refresher	ac 🛩		
Cadao Driver	8 Dashat Istant		_	
G.711a-law	& Packet Interval 3rd V	20 🛩	ms	
G.711u-law	1st 💌	20 ¥		
G.729a	2nd 💌	20 ¥		
G.726	4th 💌	20 🛩		
Digit Map				
			-	

Server FQDN	Use this drop-down menu to Enable or Disable the Server Fully Qualified Domain Name (FQDN) function. This is disabled when the SIP URL domain name is different from the SIP proxy server domain name. The phone will then use the domain name in Domain Name field as part of SIP URL
	but send and receive SIP messages through the SIP proxy server defined in the Service Domain field.
IP Address	Enter the IP address of the SIP Server in this field.
Domain Name	Enter the domain name corresponding to the IP address entered above in this field.
Port	Enter the SIP server's listening port for the SIP in this field. Leave this field set to the default if your VoIP service provider did not give you a server port number for SIP.
Secondary SIP Server	The Secondary Features (FQDN, IP address, domain name and port), act as a backup for the initial connections' settings. In the event that the connection with the SIP server is lost, the backup settings will be used.
Outbound Proxy	The Outbound Proxy is a normal SIP proxy. If instructed to do so by your ISP, enable the Outbound Proxy, and enter its IP address, Domain Name and Port Number in the appropriate fields.
Service Domain	Enter the SIP service domain name in this field.
URL Format	Select SIP-URL to have the router include the domain name with the SIP number in the SIP messages that it sends. Select TEL-URL to have the router use the SIP number without a domain name in the SIP messages that it sends.
User Parameter	You can set this to phone or none . This determines whether or not the phone number is appended to the information forwarded to your SIP server. Your VoIP service provider will instruct you which setting to use.
Caller ID Delivery	Use this pull-down menu to initiate the delivery of the inbound caller ID.
Display CID	Use this pull-down menu to enable or disable the display of the Caller ID.
Timer T2	Set the timer to 4, 8, 16 or 32.
Initial Unregister	Enable or disable the initial unregister.
Register Expiration	Use this field to set how long the router will wait before sending a repeat registration request if a registration attempt fails or there is no response from the registration server.

Home > VoIP > Provisioning

Provisioning is a function that automatically updates your DVG-G1402S's VoIP configuration by using a TFTP server located on the Internet. If you have accesses to such a service, you will need to know the URL and Proxy Address of the Provisioning Server.

			(ML Provisioning
	*	Disabled	Provisioning Function
			Server URL
			Proxy Address
		8080	Proxy Port Number
	Ø 3		Proxy Address Proxy Port Number

Provisioning Function

Use this drop-down menu to Enable or Disable the Provisioning Function on the router.

Server URL	Enter the URL of the Provisioning Server in this field.
Proxy Address	Enter the IP address of the Proxy Server in this field.
Proxy Port Number	Enter the port number the Proxy Server will use to make the connection in this field.

Home > VoIP > STUN Configuration

Simple Traversal of UDP over NAT (STUN) - is a protocol which enables a VoIP device, such as this router or an IP phone. to detect the presence and type of NAT behind which the phone is placed. This router supports STUN and can intelligently modify the private IP address and port in its SIP/SDP message by using the NAT mapped public IP address and port through a series of STUN queries against a STUN server located on the public Internet. This will allow SIP signaling and RTP media to successfully traverse a NAT without requiring any configuration changes on the NAT

Home	Advanced	Tools	Status	Help
STUN Configurati	on			
STUN State STUN Server FQDN	Disabled 💙			
STUN Server Address	IP 0 . 0	. 0 .		
Stun Server I	Name			
STUN Server	Port 3478			
STUN ReqInt	erval 60			
STUN NAT T	ype UnKnown			
_	NAT Type Detec	t	G 💋 🙆	3 🗘
			Back Apply Ca	ncel Help

STUN is useful if you need to use the DVG-G1402S behind a modem or router that provides the connection to your ISP and then to the Internet and does not support symetric NAT. You will need access to a STUN server on the Internet and its IP address to use STUN on the DVG-G1402S.

STUN State	Use this drop-down menu to Enable or Disable STUN on the router.
STUN Server IP Address	Enter the IP address of a STUN server in this field.
STUN Server Port	Enter the port number the STUN server will use in this field. If you do not have any information as to the proper port number, leave the default setting here.
STUN ReqInterval	This determines the amount of time, in seconds, between STUN requests. If you do not have any information as to the

proper interval, leave the default setting here.

STUN NAT Type

Displays the result of the STUN NAT examination.

Home > VoIP > User Agent

The Router can be configured to handle	Home	Advanced	Tools	Status	Help
voice signals over the Internet Protocol (Voice Over IP – VOIP).	User Agent Same Phon Index Phone Num Display Nan User Agent Authenticati Password Retype Pas	ber 1	- - - - - - - - - - - - - - - - - - -	ly Cancel Help	

Same Phone Number Use this field to Enable or Disable the use of the same telephone number for the User Agent as for the Server Agent.

Use this field to assign line 1 or line 2 telephone sockets (on Index the back of the router) to the information entered in the User Agent.

The telephone number assigned to the User Agent. Phone Number

Domain Name The name that will be displayed when the User Agent is in use.

User Agent Port This selects the port number the router will listen to when determining when calls are being made.

Authentication Name The Username used to access your SIP server and your VoIP service provider.

Password The Password used to access your SIP server and your VoIP service provider.

Retype Password Retype your password to confirm.

To query the registration state of click Query. When the server responds you have the option to register or unregister.

Home > VoIP > Peer to Peer

The Router can be configured to handle voice signals over the Internet Protocol (Voice Over IP – VOIP).

Home	Advanced	Tools	Status	Help
Peer to Peer Index Phone Number User IP Address	1	. 0 . 0	. 0	
Port	5060			
		🎯 🥑 윌		

Phone Number User IP Address Port The telephone number assigned to this entry.

Enter the IP address of the remote peer in this field.

Enter the UDP port number the remote peer will use to make the connection in this field. If you do not have any information as to the proper port number, leave the default setting here.

Home > VoIP > Telephony

The Router can be configured to handle voice signals over the Internet Protocol (Voice Over IP – VoIP).

Home	Advanced	Tools	Status	Help
Telephony				
Index		1 🛩		
DTMF Meth	nod	RFC2833 🚩		
Payload Ty	pe	97]	
VAD		Enabled 💌		
		3	0 3	0
		Back	Apply Cance	

Index Use this field to assign line 1 or line 2 telephone sockets (on the back of the router) to the information entered in the User Agent.

- DTMF Method Out-of band Dual Tone Multi-frequency -The Dual Tone Multi-frequency (DTMF) mode sets how the router will handle the tones that your telephone makes when you push its buttons. It is recommended that you use the same mode that your VoIP service provider uses. Select **RFC 2833** to send the DTMF tones in RTP packets. Select **Inband** to include the DTMF tones in the voice data stream. This method works best when you are using a codec that does not use compression (like G.711). Select **INFO** to transmit DTMF tones out-of-band.
- Payload Type A payload type is a number from 96 through 127 that identifies the type of payload carried in the packet. For example, a payload type of 122 denotes a fax payload. This field is only active when the DTMF method is set to **RFC 2833**.

VAD Voice Activity Detection (VAD) -detects whether or not speech is present. This reduces the bandwidth that a call uses by not transmitting "silent Packets" when you are not speaking.

Home > VoIP > Speed Dial

The Router can be configured to dial a specified telephone number when you enter a numerical dial code. For example, you could assign 22 to the telephone number 555-1234. Then you can dial that telephone number by entering 22.

Ho	me 🚺	Advanced	Tools	Statu	5 Help
Speed	Dial				
Index		1			
Dial Co	Dial Code				
Phone N	lumber				
		2			
			G	Ø	0
			Back	Apply Canc	and a second
Speed [ial List			00 N	
Index	Dial Code	Phone I	lumber	Edit	Delete
1					11
2					1
3					1
4					1
5					11

Index Dial Code A number used to identify the current speed dial table entry.

e A numerical code that will correspond to the phone number entered in the field below. You will dial this number, and the router will dial the corresponding telephone number.

Phone Number Enter the telephone number you want the router to dial when you dial the Dial Code entered in the field above.

Home > VoIP > Misc.

Home	Advanced	Tool	5	Status	Help
MISC.					
Ring Cande	ence 🔘 Ring Det	ault Rule 🔘	Ring Rule		
ID Duration	On1 Off1	On2 Off.	2 On3	Off3 On	4 Off4
1 1800000	40 40	00	0	00	0
2 180000	40 80	0 0	0	0 0	0
3 180000	16 8	16 80) 0	0 0	0
4 180000	8 4	8 4	16	80 0	0
5 180000	8 4	16 4	8	80 0	0
6 180000	12 12	8 4	10	50 0	0
7 180000	20 60	0 0	0	0 0	0
8 180000	20 20	8 8	0	0	D
			<	9 🥑	3 0
			Bo	ick Apply (Cancel Help

Instead of adding additional lines to handle different telephone numbers, distinctive rings can be set to allow more than one telephone number to reach the same line. Calls coming in on different numbers on the same line can be identified by their distinctive ring pattern. For example, you could set a "short-short" ring for the sales department number, and a regular ring for the technical support number. Use the radio button to select *Ring Cadence, Ring Default Rule*, or *Ring Rule*. These three features allow the user to set distinctive rings. To configure distinctive rings, see the descriptions of the three features below.

Home > VoIP > Misc. > Ring Cadence

By using the Ring Cadence window, you can set up to 8 distinct ring patterns. The ring pattern of each distinct ring can be configured by setting the *On* and *Off* time. The amount of times that the ring pattern will repeat itself can also be set.

Home	Adva	nced	11	ools		Stat	us	Help
AISC.								
💿 Ring Cande	nce 🔘 Ri	ing Def	ault Rul	e 🔘 Ri	ng Rule			
ID Duration	On1	Off1	On2	Off2	On3	Off3	On4	Off4
1 1800000	40	40	0	0	0	0	0	0
2 180000	40	80	0	0	0	0	0	0
3 180000	16	8	16	80	0	0	0	0
4 180000	8	4	8	4	16	80][0	0
5 180000	8	4	16	4	8	80	0	0
6 180000	12	12	8	4	10	50	0	0
7 180000	20	60	0	0	0	0	0	0
8 180000	20	20	8	8	0	0	0	0
7 180000	20	60	0	0	0	0	0	0

- DurationThis field is used to limit the amount of times that the ring
pattern will repeat itself. For example, if a ring pattern is set for
16 seconds and the duration is set for 60000 ms, then the ring
pattern will repeat itself 3 times; then, 3 quarters of the way
through the fourth repetition, the ringing will stop. The default
value is 180000 ms.Ring on Ring offOne ring pattern is comprised of four rings and four periods of
 - Ring on Ring off One ring pattern is comprised of four rings and four periods of silence. The *On* field refers to the time of 1 ring. The *Off* time refers to the period of silence between rings. One unit of time in the *On* and *Off* fields is equal to 50 ms; so a value of 40 in the *On* field sets a 2000 ms ring (2 seconds). The sum of all the fields must be less than or equal to 320 ms and must be a multiple of 8. However, individual *On* and *Off* times don't necessarily have to be multiples of 8. A ring pattern could be

set at 12, 12, 8, 4, 10, 50, 0, 0. While some of the *On* and *Off* times are not multiples of 8, their sum of 96 meets the requirement so this would be a valid ring pattern.

Home > VoIP > Misc. > Ring Default Rule

The Ring Default Rule is set for inbound callers that are not defined by the Ring Rule. One Ring Default Rule can be set for each VoIP port.

Ring Default F	Rule 🔘 Ring Rule		
	Ding Coder	co profilo ID	_
From			n4:off4)
VOIP	1800000-40:4	0:0:0:0:0:0:0	*
VOIP	1800000-40:4	0:0:0:0:0:0:0	*
	G	on 👩	0
	Back	Apply Cancel	
	From VOIP	rom (Duration-on1:off1:or VOIP 1800000-40:40 VOIP 1800000-40:40 VOIP 1800000-40:40	Ring Cadence profile ID (Duration-on1:off1:on2:off2:on3:off3:or VOIP 1800000-40:40:0:0:0:0:0:0

Ring Cadence Profile ID

Use this pull-down menu to select a Ring Cadence for the Ring Default Rule. The 8 different Ring Cadences can be configured on the Ring Cadence window.

Home > VoIP > Misc. > Ring Rule

You can use the Ring Rule window to assign Caller IDs to frequently received inbound calls. Any call that has been assigned a caller ID will have its ID number displayed on the receiver's caller display. This way, the receiver knows which department the inbound call is attempting to reach by the ring cadence, and who the caller is by the caller ID

Home	e 🛛	Advanced	Tools	State	15	Help
MISC.						
🔘 Ring Ca	andence	🔘 Ring Defau	ılt Rule 💿 Ring Rul	e		
From		VoIP N				
Port		P1	×			
Cadence P	rofile	180000	0-40:40:0:0:0:0:0:	0:0 💌		
Caller ID						
Caller ID						
Caller ID						
Caller ID						
Caller ID			G	0	23	0
Caller ID			G		Cancel	
Caller ID			Bac	k Apply	Cancel	C) I Help
Caller ID	From	Port	Cadence Profile	k Apply	1999	Help Delete
	From VolP				1999	
Index		P1 180	Cadence Profile		1999	Delete
Index 1	VolP	P1 180 P1 180	Cadence Profile 00000-40:40:0:0:0:0:0:0		1999	Delete
Index 1 2	VoIP VoIP	P1 180 P1 180 P1 180	Cadence Profile 00000-40:40:0:0:0:0:0:0 00000-40:40:0:0:0:0:0:0:0		Edit	Delete

From
Port

Ring Cadence Profile ID

Caller ID

Use the From field to select either VoIP or PSTN.

Use the *Port* field to select either Port 1 or Port 2. You can also choose both ports 1 and 2.

Use this pull-down menu to select a Ring Cadence for the Ring Rule. The 8 different Ring Cadences can be configured on the Ring Cadence window.

Set a numerical *Caller ID* of up 32 digits. 32 caller IDs can be created and will be listed below the Ring Rule Configuration area. To edit or delete an entry that has already been created, find the entry in the list and click on the appropriate icon.

Home > VoIP > Manage Features > Reject Incoming Call

You can configure the router to reject incoming calls from particular telephone numbers by entering the telephone number in the screen shown below.

Hor	ne	Advanced	Tools	S	itatus	Help
Manage	Features	1				
🕑 Rejei	ct Incomin	g Call 🔘 Block C	Jutgoing Call			
Call Rej	ect Config	uration 1				
NECOST			-			
Name						
Phone	Num					
Status	1					
				G		<u>6</u> 3 🔂
				Back	Apply	Cancel Help
Status	Index	Name	PhoneNum	Edit	Delete	
	1				1	
	2			1	1	
	3				1	
	4					
	5				1	

Name PhoneNum Enter a name to identify the current entry.

Enter the telephone number you want to block incoming calls from.

Home > VoIP > Manage Features > Block Outgoing Call

You can configure the router to reject outgoing calls from particular telephone numbers by entering the telephone number in the screen shown below.

Hor	ne	Advanced	Tools	S	tatus	Help
Manage	Feature	S				
🔘 Reje	ct Incomi	ng Call 💿 Block C	Outgoing Call			
Call Blo	ck Config	juration 1				
Name						
Phone	Num					
Status	1					
				-		
				G	\mathbf{v}	<u>6</u> 3 🔁
				Back	Apply	Cancel Help
Status	Index	Name	PhoneNum	Edit	Delete	
	1			1		
	2			1		
	3			1	1	
	4			1	1	
	5			1	1	

Name PhoneNum Enter a name to identify the current entry.

Enter the telephone number you want to block outgoing calls to.

Home > DHCP

Dynamic Host Configuration Protocol (DHCP) allows the gateway to automatically obtain the IP address from a DHCP server on the service provider's network. The service provider assigns a dlobal IP address from a pool of addresses available to the service provider. Typically the IP address assigned has a long lease time, so it will likely be the same address each time the Router requests an IP address. If DHCP is not enabled on the Router, it is necessary for the user to assign a static IP address to each computer on your LAN. To setup DHCP for your LAN, first enable the Router as a DHCP server by clicking the corresponding Enabled radio button in the window above

Home	Advanced	Tools	Status	Help
OHCP Server The DVG-G1402 network.	'S can be setup as a	DHCP Server to d	listribute IP address	ies to the LAN
Name				
State	 Enable 	nd ODisabled		
Start IP Addres	s 192 .	160 15	2	
IP Range	250			
Leased Time	0	hours		
MAC address.	used to allow DHCP s	d	anne a anniess in i	
Name				
P	192 1	60 15 4	2	
MAC Address	00 + 00	00 - 00 - 00	, 00 , 00	
DHCP Client	00:00:6	e:aa:b9:c0 💌	Clone	
	50.0483.00			
			Ø	0
			Apply Cancel	

The next step is to set a range of IP addresses that you wish to allot to the devices on your LAN by entering a **Starting IP Address** and an **Ending IP Address**. This may be in a range from 2 to 254 (192.168.1.2 – 192.168.1.254). Computers on your LAN will have an IP address within this range then automatically assigned to them. Finally, enter the **Lease Time**, which is the time the Server will set for devices using DHCP to re-request an IP Address. Clients authorized for DHCP will be listed in the table at the bottom of the page. Click **Apply** to implement information set in this table. The DHCP Server is enabled by default.

DHCP may also be statically configured as well. This method allows the router to assign the same IP address information to a specific computer on the network, defined by its MAC address. This computer will get the same DHCP implemented IP address information every time the computer is turned on and this IP address will be specific to that computer's IP address on the local network. No other computer can be assigned this address. This is useful for computers on the LAN that are hosting applications such as HTTP or FTP. First, the user must enable the Static DHCP function by clicking the corresponding Enabled radio button. Next the user must enter the host name and the IP address for that computer by entering the last numbers into the space provided in the **IP** Address field. Next, the user is to enter the MAC address of the computer into the space provided. Click Apply to implement these static settings. The DHCP Client field will allow users to Clone the settings from their computer that were learned from the DHCP server. Simply use the pull down menu to select the MAC address of the computer will be implemented in the Static DHCP configuration area. Click Apply to implement these static settings from this computer will be implemented in the Static DHCP configuration area. Click Apply to implement these static settings. The lower portion of the window contains the Static DHCP Configuration List. Click on the inclust an entry and on the inclust control delete an entry.

Home > Proxy DNS

Advanced	Tools	Status	Help
nfiguration			
	Disabled 💌		
Address	0.0.0	. 0	
			😣 🛟 Cancel Help
	nfiguration	nfiguration	nfiguration Disabled 🕶 Address 0 .0 .0 .0

StateUse this drop down menu to enable or disable the Proxy DNS.Proxy DNS IP AddressEnter the IP Address of the Proxy DNS.

Advanced > Virtual Server

H	ome 🗛	dvanced	Tools	Statu	5 (Help	
√irtual			t users access to	o LAN services	2		
		Disabled		Close			
Name		Serve		Clear			
Privat	e IP	0	. 0 . 0	. 0			
Proto	col Type	TCP	~				
Public	Port	21	21				
Privat	e Port	21					
Virtua State	I Server List Name	e Privat	- 10 0	Apply C	ancel He	elp Delete	
State				-98-MG	Luit	1.25	
	Server FTP	0.0.0		TCP 21/21	4	1	
	Server HTTP	0.0.0		TCP 80/80	<u>_</u>		
	Server HTTPS	0.0.0	.0	TCP 443/443		1	
					and the second se	Û	
	Server DNS	0.0.0	.0	UDP 53/53		2.00	
	Server DNS Server SMTP	0.0.0 0.0.0		UDP 53/53 TCP 25/25		Û	
			.0			11 11	

To view the following window, click on the **Advanced** tab at the top of the window and then click the **Virtual Server** button to the left. The **Virtual Server** will allow remote users access to various services outside of their LAN through a public IP address, such as FTP (File Transfer Protocol) or HTTPS (Secure Web). After configuring the Router for these features, the Router will redirect these external services to an appropriate server on the user's LAN.

These external services may be modified by clicking its corresponding edit icon, or they may be deleted by clicking the corresponding delete icon. Though there are seven fields available to configure the Virtual Server, in most cases, only the IP address of the Virtual Server will be needed for implementation. To enable an already existing Virtual Server, click its corresponding edit button, configure the appropriate fields listed below

and set the **Status** fields to **Enabled** by clicking the radio button. To configure other virtual servers for the Router, configure the following fields and click **Apply**.

Index This is an index number used to identify the Virtual Server entry.

Private IP Enter the IP address of the Virtual Server.

Protocol Type The protocol type used for the Virtual Server. The user may select **TCP**, **UDP** or **Both**, depending on the type of Virtual Server implemented.

- Start/End Global Port Enter a range of ports on the device on the WAN side of the network that will be accessing the Virtual Server currently being configured. Commonly, this range of ports is identical to the local range of ports. Existing Virtual Servers may already have their well-known port ranges listed but this may need to be changed in certain circumstances.
- Start/End Local Port Enter the range of ports of the Virtual Server's computer. Existing Virtual Servers may already have their well-known port ranges listed but this may need to be changed in certain circumstances.

Advanced > Filters

Home	Advance	d Tool	s Status	Help
Filter Filters are u	sed to allow or deny	LAN users from	accessing the Interne	et.,
💿 IP Filter	O MAC Filter			
IP Filters Use IP Filte	rs to deny LAN IP ad	dresses access	to the Internet.	
Rule 1				
State Protocol IP Range Port Range	UDP 💌)isabled 0 . 0	- 0 . 0	. 0 . 0
Schedule				
Days	🔲 every day	🔲 Sun		. Wed
Times		⊂ From To	00 💙 00 🝸 AM	
IP Filter Lis	st Source IP Range	Port Range	Apply Protocol	3 Cancel Help
	0.0.0.0-0.0.0.0	0-0	UDP	1
	0.0.0.0-0.0.0.0	0-0	UDP	🖻 🗑
	0.0.0.0-0.0.0.0	0-0	UDP	📝 🗎
	0.0.0.0-0.0.0.0	0-0	UDP	📝 🗎
	0.0.0.0-0.0.0.0	0-0	UDP	📝 🗎
	0.0.0.0-0.0.0.0	0-0	UDP	📝 🗎

Packet filtering is a basic security measure that should be used on any network that is exposed to a security risk. A packet filter system examines data packets and scrutinizes them in order to control network access. Filtering rules determine whether packets are

passed through the Router from either side of the gateway. The rules are created and controlled by the network administrator and can be precisely defined. These rules are used to block access to the LAN from outside the network and/or to deny access to the WAN from within the network. The Router uses filtering rules to examine data packet headers for specific information. Packets passing through the Router that do not meet the criteria specified by the rule set are dropped.

Effective implementation of packet filtering requires detailed knowledge of network services and communication protocols. An overly complicated filtering scheme can adversely affect the Router's performance, while an inadequate set of rules may needlessly compromise security.

This Router has two fields to configure for filtering which are IP Filters and MAC Filters.

Advanced > Filters > IP Filters

This window will aid the use in configuring filters for IP addresses. This will denv specified LAN IP addresses or specific ports associated with these LAN IP address from accessing the Internet. Well known ports have already been previously set in the IP Filters List and can be modified by clicking their corresponding edit icon, and simple adding an IP address to the configuration.

Home	Advance	d Tool	5	Sta	tus	Help
Filter Filters are u	sed to allow or deny	LAN users from	accessi	ng the In	itemet.	
IP Filter	O MAC Filter					
IP Filters Use IP Filter	rs to deny LAN IP ad	dresses access	s to the h	nternet.		
Rule 1						
State Protocol	C Enabled OD	isabled				
IP Range	And and a second	0 0	. 0	1.0		
Port Range	hanned being the		- 10			السبا الأسبا
Schedule						
Days	🖾 every day	📑 Sun 🛄 Thu	I Mo		1000	Ned
Times	@ 24Hours	OFrom	00 💌	00 💌	AM ·	
		To	00 🛩	00 🛩	AM ¥	
IP Filter Lit	n			A	oply Co	3 🕄
State	Source IP Range	Port Range	1	Protocol	D.	
	0000-0000	0-0	1	109		3
	0.000-0.000	0-0	1	.CP		3 😭
	0.0.0.0-0.0.0.0	0-0		400		3 3
	0.0.00+0.0.0.0	0-0	1	QP.		3 1
	0.0.0.0-0.0.0.0	0-0	1	4QL		
	0.0.0.0-0.0.0.0	0-0	3	χp		

To access this screen, click the Advanced tab along the top of the configuration window

and then the Filters tab to the left hand side.

Protocol	The protocol associated with this IP filter. The user may choose between TCP , UDP or Both .
IP Address	An IP address or range of IP addresses that will be denied access to the Internet.
Subnet Mask	The subnet mask that corresponds to the IP address above.
Start Port/End Port	A port or range of ports that will be denied access to the Internet. If no port is entered, all ports in this IP range will be denied access to the Internet.

Advanced > Filters > MAC Filters

All computers are uniquely identified by their MAC (Media Access Control) address. The following window will allow users to deny computers access to the Internet or only allow certain computers access to the Internet, based on their MAC address. To access this screen, click the Advanced tab along the top of the configuration window, then the Filters tab to the left hand side and finally click the corresponding radio button for MAC Filters.

Index MAC Address State

Home	Advand	ced Tools	;	Status	Help
Filter Filters are used to	o allow or de	ny LAN users from	accessin	g the Internet.	
O IP Filter 💿 I	MAC Filter				
MAC Filters Use MAC Filters	to deny LAN	MAC addresses a	ccess to	the Internet.	
Index	1				
MAC Addres	is 00 -	00 . 00 . 00	. 00	. 00	
State	OEn	abled ③ Disabled	E .		
MAG	Ellter		Ap	ply Cancel H	lelp
Stat	to Index	MAC Address	Edd	Delete.	
	1	00.00-00-00-00-00	1	10	
	2	00.00.00.00.00.00	3	10	
	3	00.00.00.00.00.00		10	
	4	00.00.00.00.00.00	3	10	
	5	00-00-00-00-00-00		10	
	6	00:00:00:00:00:00	3	10	
	7	00:00:00:00:00:00	3	10	
	8	00.00.00.00.00.00	1	10	

A number used to identify this MAC address filter setting. Enter the MAC address to be filtered.

This field allows you to enable or disable this MAC address filter setting.

Advanced > Firewall

This Router comes equipped with a firewall. The **Firewall** configuration screen allows the Router to enforce specific predefined policies intended to protect against certain common types of attacks. To configure the Router's firewall, click the **Advanced** tab at the top of the screen and then the **Firewall** tab to the left.

Home	Advanc	ed	Tools		Sta	tus	Help	
G1402S	iles es can be used to	allow or	deny traffic	fram V	/AN pasi	sing th	rough the D∨G-	
Rule 1								
State	O Enabled	○ Enabled						
Action	Pass 💌							
Protocol	UDP 💌							
IP Range	0.0	. [0	. 0] 4		0	. 0 . 0	
Port Range	0	0		1				
Schedule				et.,				
Days	🔲 every di	γ	Sun	Mon	Tu		Wed	
Times	⊙24Hours		ALC: NOT	00 👻	All Street and a second se	AM NAM	1	
Firewall Ro	iles List Source IP Range	Port Ra	nge	Action	Ap		🧐 🛟 Cancel Help	
	0000-0000	0-0		921011	LOP	1	1	
	0000-0000	0-0		988	UDP	12	9	
	0000-0000	0-0	1	Ponte	UDP		10	
	0.0.0.0-0.0.0.0	0-0	1	911	UDP	10	10	
	0000-0000	0-0		ALL .	UDP	1	10	

Pass or Block	Select the action you want the filter to take when it finds a packet that meets the criteria entered below.
Protocol	The protocol associated with this IP filter. The user may choose between TCP , UDP or Both .
Source	Enter the IP address or range of IP addresses that you wish to block or allow to pass through the router. The Source may be identified on the LAN side, the WAN side or both by using the pull-down menu for the Interface heading.
Destination	Enter the IP address or range of IP addresses that you wish to deny or allow access to the Internet. The Destination may be identified on the LAN side, the WAN side or Both by using the pull-down menu for the Interface heading. The type of protocol may also be chosen by using the pull-down menu. The user

may choose between **TCP**, **UDP**, **ICMP** or (*) **Any**. The user may also select a range of ports of the destination IP addresses by entering the range under the **Port Range** heading.

Subnet Mask

The subnet mask that corresponds to the IP address above.

Advanced > Routing > RIP Configuration

RIP – Routing Information Protocol – specifies how routers exchange information. With RIP, routers occasionally exchange entire routing tables.

You can select **RIPv1** or **RIPv2** by clicking the radio button under the **Version** heading, and then **select On** or **Off** by clicking the radio button under the **State** heading.

Home	Advo	inced	Too	s	Status	Help
O Static Route RIP Configurat		Configuratio	no			
	Version		State			
LAN		ORIPv2	OOn	⊙ Off		
WAN		ORIPv2	On	🖲 Off		
			S	Cance	C) I Help	

LAN RIPv1	Select RIPv1 or RIPv2 for use by the router on your LAN.
LAN RIPv2	Select RIPv1 or RIPv2 for use by the router on your LAN.
WAN RIPv1	Select RIPv1 or RIPv2 for use by the router on the WAN.
WAN RIPv2	Select RIPv1 or RIPv2 for use by the router on the WAN.
State	Select On or Off to enable or disable RIP on either the LAN or the WAN

Advanced > Routing > Static Route

The Routing table, shown to the right, allows you to enter static routes between computers on both the WAN (Internet) and your LAN.

Home		Advance	d	Tools	1	Statu	5	Help
		D RIP Config guration – 1	uration					
IP Addres	\$	0	0	0	0			
Subnet M	ask	0	0	. 0	0			
Gateway		0	0	0	0			
Interface		WAN	¥.					
Metric		0						
State		Disabl	ed					
						Apply	Cance	C) el Help
State	id	IF Address	Subnet Maik	Outenay	Indestace	Metro	Edit	Delete
	8	0.000	0.0.0.0	0.0.0.0	WAN	۵		1
	2	0000	0.00.0	0.0.00	WAN	0		10
	3	0000	0.0.0.0	0.0.0.0	WAN	0		10
	.4	0.000	0.0.0.0	0.0.0.0	VON	0	2	10
	5	0.0.0.0	0.0.0.0	0.0.0.0	WAN	0		18
	6	0000	0.0.0.0	0.0.0.0	WAN	U	12	10
	7	0000	0000	0000	WAN	σ	2	1
		0000	0.0.0.0	0.0.0.0	WAN	0		10

IP Address	Enter the IP Address of the subnet or device where packets are to be routed.
Subnet Mask	Enter the subnet mask corresponding to the IP address entered above.
Gateway	Enter the IP address of the gateway used for packets that are to be routed to the IP address entered above.
Interface	Select the WAN (Internet) or LAN interface.
Metric	Enter the number of hops (the number of routers) that packets will be allowed to cross when being routed to the IP address entered above.
State	Use this drop-down menu to Enable or Disable this route.

Advanced > NAT > NAT Configuration

Notwork Addross	Home	Advanced	Tools	Status	Help
Network Address Translation (NAT) is a method by which the router translates between the IP address your ISP assigns to your account and the IP addresses assigned to the PCs on your LAN.	NAT Configurat NAT Configu NAT Interfac	tion: uration O Dynamic N ce IP Address ce Netmask		S	0
				Apply Cance	пер

NAT Interface IP Address	This field displays the current IP address of the LAN side of
	the router. All IP address that are translated by the router
	will be in the same range as this IP address.
	This field displays the submet meet a submet of the ID

NAT Interface Netmask This field displays the subnet mask corresponding to the IP address displayed above.

NAT Function Use this pull-down menu to enable or disable NAT on the router.

Advanced > NAT > Dynamic NAT

Network Address Translation (NAT) is a method by which the router translates between the IP address your ISP assigns to vour account and the IP addresses assigned to the PCs on your LAN. The Dynamic NAT entries are displayed below the Dynamic NAT configuration fields. To edit or delete an entry, find it on the list and click either the edit or delete icon.

	me	Advanced	Tool	s S	Status	Help
	nfiguration Configurat	n: ion 💿 Dynami		atic NAT		
		Un Cynann		and twit		
ynamio	: NAT	◯ Enat	oled 💿 Disa	blod		
Inde	×	U ⊑riac 1	oled Opiss	ibied		
	oal IP Starl	0	0.0	. 0		
Glob	oal IP End	0				
	al IP Start					
- E.222				. 0		
Loca	al IP End	0	0.0	. 0		
				54	0	•
				S Apply	Cancel He]) elp
State	Index	Global IP Star	t Global IP End			
State	Index 1	Global IP Star 0.0.0.0	t Global IP End 0.0.0			
State				Local IP Start	Local IP End	Edit Delete
State	1	0.0.0.0	0.0.0	Local IP Start	Local IP End 0.0.0.0	Edit Delete
State	1 2	0.0.0.0	0.0.0.0	Local IP Start 0.0.0.0 0.0.0.0	Local IP End 0.0.0.0 0.0.0.0	Edit Delete
State	1 2 3	0.0.0.0	0.0.0.0 0.0.0.0 0.0.0.0	Local IP Start 0.0.0.0 0.0.0.0 0.0.0.0	Local IP End 0.0.0.0 0.0.0.0 0.0.0.0	Edit Delete

Index

Global IP Start/End

This is an index number used to identify this NAT table entry.

Local IP Start/End

Enter the range of IP addresses that will be assigned to your Internet account by your ISP.

Enter the range of IP addresses that you will assign to PCs on your LAN.

Advanced > NAT > Static NAT

Network Address Translation (NAT) is a method by which the router translates between the IP address your ISP assigns to your account and the IP addresses assigned to the PCs on your LAN.

NAT	Configu	ration O	Dynamic N	IAT 💿 Static N/	¢1		
			OEna	bled 💿 Disable	d		
Inde	ER:		1				
Loc	al IP Ad	dress	0	0 0	0		
Gin	bal IP A	ddress	0	0 0	0		
					194.56	3 Gancel Help	
Utate	Inc	tex Li	scal IP Addres		194.56	ide D	P Palete
State	Inc	tex La			194.56		
State	1.00		0.0	B Global IP Adde		ide D	
51414	1	0.0	0.0 0.0	Global IP Adds	••• 1	iee 0	
	1 2	0.0	0.0 0.0 0.0	B Global IP Addi 00.00 00.00		100 D	
	1 2 3	0.0	0.0 0.0 0.0	Global IP Adds 0000 0000 0000		iet 0 10 10	

Index

This is an index number that will be used to identify this NAT table entry.

Local IP Address Global IP Address Enter the IP address of the PC on your LAN.

Enter the IP address assigned to your Internet account by your ISP.

Tools > Admin

At this page, the DVG-G1402S administrator can change the system password. There are two accounts that can access the Broadband Router's Web-Management interface. They are admin and user. Admin has read/write access while user has read-only access. User can only view the settings but cannot make any changes.

Home	Advanced	Tools	Status	Help
Administrator 5	Fettings			
Web Manageme	nt			1
Web Port Numb	er 80		Solution Apply Ca	3 🕄 ncel Help
WAN Access C Access WEB fro		nabled ⓒ Disable	алī	
			🥥 🄇	3 🕄 ncel Help
Administrator (T	he Login Name is ":	edmin")		5
Old P	assword			
New Pa	assword eeeee			
Confirm Pa	eeeee browsea			
			🥥 🍳	3 C

Web Port Number The port number used to access the Broadband Router. The default port number for web management is 80.

WAN Access Control WAN access control allows remote management via the DI-624 to be configured from the Internet by a web browser. A username and password are still required to access the Web-Management interface. In general, only a member of your network can browse the built-in web pages to perform Administrator tasks. This feature enables you to perform Administrator tasks from the remote (Internet) host. Click the radio button to *Enabled* to activate this feature.

Administrator Password Enter the password, admin, here and the same password in the Confirm Password field. This will be the password that the administrator will use to gain access to the configuration menu of the device. There is no default password for this device.

Tools > System

Home	Advanced	Tools	Status	Help
Backup and R	estore Configuration	ıfile		
Backup configu Backup	ration file)			
Restore Configu	ration File			
A TRANSFERRE	ory Default Settings			
Reset t	o Factory Default Sett	tings		C) Help

Backup

Click **Backup** to backup the configuration file to your local hard drive.

Restore Configuration File To restore the configuration file click on *Browse* to search the local hard drive and locate the configuration file to be used for the configuration restoration. Once the file has been located, click **Open** in the browser window and then **Upload** on the System window.

Restore Factory
Default SettingsClick Reset Factory Default Settings to restore the factory
default settings.

Tools > Firmware

ddress P . 0 . 0 0.0	. 0	
P . 0 . 0	. 0	
. 0 . 0	. 0	
	. 0	
0.0		
abled 🔽		
	Spply Ca	3 🔂 Incel Help
	abled 💌	

You can update both the software and firmware of the Router. Please check the D-Link Support site for firmware updates at <u>http://support.dlink.com</u>. You can download firmware upgrades to your hard drive from the D-Link support site.

Software Update Enter the TFTP server address.

Firmware Update Click Enabled to begin the firmware update.

File Name Enter the firmware file name and DOS path in this field. For example, C:\firmware.had

Tools > SNMP

This menu can be accessed directly by clicking on the **SNMP** button or hyperlink in the **Tools** setup menu. Simple Network Management Protocol (SNMP) is an OSI Layer 7 Application designed specifically for managing and monitoring network devices. SNMP enables network management stations to read and modify the settings of gateways, routers, switches, and other network devices.

Home	Advanced	Tools	Status	Help
SNMP Configur	ation			
SNMP IP Manag	ement Address			1
IP Address 1	ō	0 0	0	
IP Address 2	0	0 0	0	
SNMP Trap Man	agement		11.14 (F)	
SNMP Authentic	ation Disa	bled 💌		
Trap Manager IP	Q	0 0	0	
Trap Community	Name			
			2000	
			Ø (3 🗘
			Apply Ca	ncel Help

Use SNMP to configure system features for proper operation, performance monitoring, and detection of potential problems in the Router or network.

SNMP IP Management Address Manag

SNMP Trap Management Traps are messages that alert network personnel of events that occur on the Switch. The events can be as serious as a reboot (someone accidentally turned OFF the Switch), or less serious like a port status change. The Router generates traps and sends them to the trap management server. Typical traps include trap messages for Authentication Failure, Topology Change and Broadcast/Multicast Storms. Use the pull-down menu to enable or disable the SNMP on the device. Enter the **Trap Manager IP** and **Trap Community Name** of the trap management server.

Tools > Time

The system time is the time used by the DVG-G1402S for scheduling services. You can manually set the time, connect to a NTP (network time protocol) server or synchronize the time on the router with your PC. If an NTP server is set, you will only need to set the time zone (in the set up wizard).

Home	Advanced	Tools	Status	Help
NTP Configura	tion			
NTP Server	clos	k.isc.org].
Time Zone	GM	T Greenwich M	lean Time 💉	
NTP Time(h:m:)	a,m/d/y) Time (Not Ready		
			S Apply (🧭 🔁 Cancel Help

Status > Device Info

This page displays the current information for the DVG-G1402S. It will display the LAN, WAN, Disk Information statistics.

This window will show the DVG-G1402S's working status:

Home	Advanced	Tools	Status	Help
Device Information	6			
Device Type	VolP Gateway	C		
MAC Address	00 50 22 33 4			
Boot PROM Ve	rsion 1.00.001			
Firmware Versio	n 1.00.003CAR			
DSP Version	0.11.0.4			
SIP Version	10.4			
Current Mode	Rouber			
WAN				
IP Address	0.0.0.0			
	DHOP Client C	onnected		
Connection	Dhop	Release	Dhcp Renew	
Subnet Mask	0.0.0.0			
Default Gateway	0.0.00			
LAN				
LAN MAC Addr	ess 00:50:22:33.4	4.56		
IP Adresss	192 168 15 1			
Subnet Mask	255.255.255.0	1		
Wireless LAN				
AP Name	whinD			
MAC Address	00:0F 3D FF-5	1.80		
AP State	up .			
				C

WAN	
LAN	

IP Address: WAN/Public IP Address Subnet Mask: WAN/Public Subnet Mask Default Gateway: WAN/Public Gateway IP Address LAN MAC Address: MAC address of the DVG-G1402S IP Address: LAN/Private IP Address of the DVG-G1402S Subnet Mask: LAN/Private Subnet Mask of the DVG-G1402S

Status > Stats > Network

ne Advance	d 🖂	Fools	Status	Help
ork 🔘 Phone Call				
atistics				
tistics display Receive	and Tran	smit packets p	assing through th	e DVG-G1402S.
Receive		Transm	iit	
packets	0	packet	S	36
bytes	0	bytes		12030
NonUcastPackets	0	NonUc	astPackets	36
DiscardPackets	0	Discar	dPackets	0
FrameTooLong	0	Heartb	eatErrors	0
NonAlignedErrors	0	LateCo	Ilision	0
CollisionErrors	0	Retran	smissionLimit	0
ShortFrames	0	Under	runPackets	0
CRCErrors	0	Carrie	SenseLost	0
OverrunPackets	0			
Reset				
	ork O Phone Call atistics tistics display Receive Packets bytes NonUcastPackets FrameTooLong NonAlignedErrors CollisionErrors ShortFrames CRCErrors	ork O Phone Call atistics tistics display Receive and Trans Receive packets 0 bytes 0 NonUcastPackets 0 DiscardPackets 0 FrameTooLong 0 NonAlignedErrors 0 CollisionErrors 0 ShortFrames 0 CRCErrors 0 OverrunPackets 0	ork O Phone Call atistics tistics display Receive and Transmit packets packets packets O packet bytes O bytes NonUcastPackets O NonUc DiscardPackets O Discar FrameTooLong O Heartb NonAlignedErrors O LateCo CollisionErrors O Retran ShortFrames O Underne CRCErrors O Carrier OverrunPackets O	ork Phone Call atistics tistics display Receive and Transmit packets passing through th Receive Transmit packets packets bytes bytes NonUcastPackets DiscardPackets FrameTooLong HeartbeatErrors NonAlignedErrors RetransmissionLimit ShortFrames UnderrunPackets CRCErrors CarrierSenseLost OverrunPackets OverrunPackets

The Broadband Router keeps a running log of events and activities occurring on the Router. If the device is rebooted, the logs are automatically cleared. You may save the log files under Log Settings. The screen above displays the Network Statistics. Here you can view the amount of packets that pass through the DVG-G1402S on both the WAN and the LAN ports. The traffic counter will reset if the device is rebooted or can be reset by clicking the **Reset** button. To refresh current statistics, click the **Refresh** button.

Status > Stats > Phone Call

O Network (*) Phone Call Line 1 Status OnHook Registration State Not Registered Hook State StateNull Tone State Null Message Waiting IDLE Call 2 State IDLE Call 1 State IDLE Call 2 State IDLE Call 1 Mode Call 2 Mode Call 2 Mode IDLE Call 1 Codec Call 2 Packetization Call 2 Codec Call 2 Codec Call 1 Packetization Call 2 Hold Remote Call 2 Peer Name Call 2 Peer Name Call 1 Per Name Call 2 Peer Name Call 2 Peer Name Call 2 Packetization Call 1 Packetis Send Call 2 Packets Send Call 2 Packets Send Call 2 Packets Send Call 1 Packets Recv Call 2 Bytes Send Call 2 Packets Lost Call 2 Packets Lost Call 1 Packets Lost Call 2 Packets Lost Call 2 Packets Lost Not Registered Call 1 Packetization Call 2 State Not Registered Null Call 1 Packets Lost Call 2 Direction Call 2 Packets Lost Call 2 Direction Call 1 Packets Zate IDLE Call 2 Codec Call 2 Mode Null Call	Home	Advanced	Tools	Status	Help
Line 1 Status OnHook Registration State Not Registered Hook State StateNull Tone State Null Message Waiting IDLE Call 2 State IDLE Call 1 Direction Call 2 Direction Call 2 Direction IDLE Call 1 Direction Call 2 Direction Call 2 Mode IDLE Call 1 Packetization Call 2 Codec Call 2 Codec Call 2 Packetization Call 1 Packetization Call 2 Packetization Call 2 Packetization Call 1 Peer Name Call 2 Peer Name Call 2 Peer Name Call 1 Peer Number Call 2 Peer Number Call 2 Peer Name Call 1 Peer Number Call 2 Packets Send Call 2 Daration Call 1 Packets Send Call 2 Dackets Send Call 2 Dackets Send Call 1 Duration Call 2 Dackets Send Call 2 Dackets Send Call 2 Dackets Send Call 1 Decode Latency Call 2 Dackets Recv Call 2 Dackets Lost Call 2 Packets Lost Call 1 Packets Send Call 2 Dackets Lost Call 2 Dackets Lost Call 2 Dackets Lost Call 1 Packets Send Call 2 Dackets Cost Call 2 Dackets Cost Null Call 1 Dacke	O Network P	none Call			
Call State StateNull Tone State Null Message Waiting IDLE Call 2 State IDLE Call 1 Direction Call 2 Direction Call 2 Mode Call 1 Mode Call 2 Codec Call 2 Codec Call 1 Packetization Call 2 Packetization Call 2 T.38 Call 1 Per Name Call 2 Peer Name Call 2 Peer Name Call 1 Peer Name Call 2 Peer Name Call 2 Peer Name Call 1 Peer Name Call 2 Peer Name Call 2 Peer Name Call 1 Peer Name Call 2 Peer Name Call 2 Peer Name Call 1 Peer Name Call 2 Peer Name Call 2 Peer Name Call 1 Peer Name Call 2 Duration Call 2 Packets Send Call 1 Packets Send Call 2 Packets Send Call 2 Packets Send Call 1 Packets Send Call 2 Bytes Recv Call 2 Bytes Recv Call 1 Packets Send Call 2 Direction Call 2 Packets Lost Call 1 Packets Error Call 2 Dackets Lost Call 2 Direction Call 1 Packets Error Call 2 Direction Null Message Waiting Call 2 Direction Null Call 1 Direction Call 2 Direction Null Call 1 Packets Error Call 2 Direction Null Call 1 Direction Call 2 Direction Nu	Line 1 Status				
Call 1 State IDLE Call 2 State IDLE Call 1 Direction Call 2 Direction Call 2 Mode Call 1 Codec Call 2 Mode Call 2 Packetization Call 1 Packetization Call 2 Packetization Call 2 Packetization Call 1 Packetization Call 2 Packetization Call 2 Packetization Call 1 Packetization Call 2 Packetization Call 2 Packetization Call 1 Per Number Call 2 Peer Number Call 2 Peer Number Call 1 Peer Number Call 2 Peer Number Call 2 Peer Number Call 1 Peer Number Call 2 Duration Call 2 Duration Call 1 Packets Send Call 2 Packets Send Call 2 Packets Send Call 1 Packets Recv Call 2 Bytes Send Call 2 Direction Call 1 Packets Lost Call 2 Decode Latency Call 2 Packets Lost Call 1 Packets Lost Call 2 Direction Not Registered Call 1 Packets Error Call 2 Direction Null Message Waiting Call 2 Direction Null Call 1 Direction Call 2 Direction Null Call 1 Direction Call 2 Packetization Null Call 1 Direction Call 2	Call State				
Honk State On Hook Registration State Not Registered Call State StateNull Tone State Null Message Waiting IDLE Call 2 State IDLE Call 1 State IDLE Call 2 State IDLE Call 1 State IDLE Call 2 State IDLE Call 1 State IDLE Call 2 Direction IDLE Call 1 Mode Call 2 Ordec Call 2 Packetization Call 2 Packetization Call 1 Packetization Call 2 T 33 Call 2 Hold Remote Call 2 Peer Name Call 1 Hold Remote Call 2 Peer Name Call 2 Peer Namber Call 2 Peer Namber Call 1 Peer Name Call 2 Peer Namber Call 2 Peer Namber Call 1 Mapped RTP Port Call 2 Dearstion Call 1 Peer Number Call 2 Dearstion Call 2 Deackets Send Call 2 Packets Recv Call 1 Duration Call 2 Packets Recv Call 2 Packets Recv Call 2 Packets Recv Call 1 Packets Recv Call 2 Bytes Recv Call 2 Bytes Recv Call 2 Bytes Recv Call 1 Bytes Recv Call 2 Difter Call 2 Difter Call	Call 1 Štate Call 1 Direction Call 1 Dodec Call 1 Codec Call 1 Codec Call 1 Packetization Call 1 Hold Remote Call 1 Heer Name Call 1 Peer Name Call 1 Peer Number Call 1 Peer Number Call 1 Peer Number Call 1 Peer RTP Add Call 1 Peer RTP Add Call 1 Deckets Send Call 1 Packets Send Call 1 Bytes Send Call 1 Bytes Send Call 1 Bytes Recv Call 1 Jitter Call 1 Decode Laten Call 1 Deckets Lost	dr Port I	Call 2 Dir Call 2 Co Call 2 Pa Call 2 Pa Call 2 Ho Call 2 Ho Call 2 Pe Call 2 Pe Call 2 Pe Call 2 Da Call 2 Du Call 2 Da Call 2 Pa Call 2 By Call 2 By Call 2 By Call 2 Dit Call 2 De Call 2 De Call 2 Pa	IDLE	
Call State StateNull Tone State Null Message Waiting IDLE Call 2 State IDLE Call 1 State IDLE Call 2 State IDLE Call 1 State IDLE Call 2 Direction IDLE Call 1 Mode Call 2 Direction Call 2 Mode Call 1 Codec Call 2 Codec Call 2 Packetization Call 1 Packetization Call 2 Packetization Call 2 Remote Hold Call 1 Hold Remote Call 2 Remote Hold Call 2 Peer Name Call 1 Peer Name Call 2 Peer Name Call 2 Peer Name Call 1 Peer Number Call 2 Peer RTP Addr Call 2 Duration Call 1 Mapped RTP Port Call 2 Duration Call 2 Duration Call 1 Packets Send Call 2 Packets Send Call 2 Packets Recv Call 1 Packets Recv Call 2 Packets Recv Call 2 Packets Recv Call 1 Bytes Smed Call 2 Bytes Send Call 2 Bytes Recv Call 1 Bytes Recv Call 2 Bytes Recv Call 2 Bytes Recv Call 1 Bytes Recv Call 2 Bytes Recv Call 2 Bytes Recv	200 200 (CARDON CO.		ang sa pagas		
Call 1 State IDLE Call 2 State IDLE Call 1 Direction Call 2 Direction Call 1 Mode Call 2 Mode Call 1 Mode Call 2 Mode Call 1 Packetization Call 2 Packetization Call 1 Packetization Call 2 Packetization Call 1 Hold Remote Call 2 Hold Remote Call 1 Hold Remote Call 2 Packetization Call 1 Peer Name Call 2 Peer Name Call 1 Peer Name Call 2 Peer Name Call 1 Peer Name Call 2 Peer Name Call 1 Peer RIP Addr Call 2 Peer Name Call 1 Peer RIP Addr Call 2 Peer RIP Addr Call 1 Peer RIP Port Call 2 Mapped RTP Port Call 1 Packets Send Call 2 Packets Send Call 1 Packets Send Call 2 Packets Send Call 1 Packets Recv Call 2 Pytes Recv Call 1 Bytes Recv Call 2 Bytes Recv Call 1 Jitter Call 2 Jitter	Call State				
Call 1 Packets Lost Call 2 Packets Lost Call 1 Packets Error Call 2 Packets Error	Call 1 State Call 1 Direction Call 1 Direction Call 1 Mode Call 1 Codec Call 1 Packetization Call 1 Packetization Call 1 Hold Remote Hold Call 1 Peer Name Call 1 Packets Sent Call 1 Bytes Send Call 1 Bytes Send Call 1 Bytes Name Call 1 Decode Later Call 1 Decode Later	dr Pont d	Call 2 Dir Call 2 Mo Call 2 Pa Call 2 Pa Call 2 Pa Call 2 Ho Call 2 Pe Call 2 Pe Call 2 Pe Call 2 Pe Call 2 De Call 2 Da Call 2 Da Call 2 Pa Call 2 De Call 2 De Call 2 De Call 2 De Call 2 Pa	ection dec cketization 8 Id Remote mote Hold er Name er Number or RTP Addr pped RTP Port ration ckets Send ckets Send tes Recv tes Secv er code Latency ckets Lost	IDLE

The Broadband Router keeps a running log of events and activities occurring on the Router. If the device is rebooted, the logs are automatically cleared. You may save the log files under Log Settings. The screen above displays the Phone Statistics. Here you can view the amount of packets that pass through the DVG-G1402S on both Phone 1 and Phone 2 ports. The traffic counter will reset if the device is rebooted or can be reset by clicking the **Reset** button. To refresh current statistics, click the **Refresh** button.

Home	Advanced	Tools	Status	Help
Diagnostics				
This page provid problems.	des for ping diagnostic	s to the LAN	I to help with IP conr	nectivity
Ping Target	0.0	. 0	. 0	
Ping Result				
		Test		
				C
				Help

Status > Diagnostics

The Diagnostics window allows users to test the functionality of the router by executing a ping test. Enter the IP address of the Ping Target and then click **Test**.

Help

Home	Advanced	Tools	Status	Help
Home				
 Wizard 				
• Wireless				
 WAN 				
 LAN 				
• DHCP				
 ProxyDN: 	5			
Advanced				
 Virtual Se 	erver			
 Filters 				
 Firewall 				
RIP				
 Routing 				
 NAT 				
• Misc.				
Tools				
Admin				
 System 				
 Firmware 				
 SNMP 				
• Time				
 Reboot 				
Status				
Device Inf	ō.			
 Stats 				
 Diagnosti 				

The **Help** tab will give basic information referring to various screens locted in the Router. To view a specific section, click on its hyperlinked name. A new window of information will appear.

Technical Specifications

Standards

- IEEE 802.3
- IEEE 802.3u

VPN Pass Through/ Multi-Sessions

- PPTP
- L2TP
- I PSec

Device Management

- Web-Based- Internet Explorer v6 or later; Netscape Navigator v6 or later; or other Java-enabled browsers
- DHCP Server and Client

Advanced Firewall Features

- NAT with VPN Passthrough (Network Address Translation)
- MAC Filtering
- IP Filtering
- URL Filtering
- Domain Blocking
- Scheduling

Operating Temperature

32°F to 131 °F (0°C to 55°C)

Humidity:

95% maximum (non-condensing)

Safety and Emissions:

FCC

Technical Specifications

LEDs:

- Power
- WAN
- LAN (10/100)
- Phone
- Status
 Physical
 Dimensions:
- L = 7.56 inches (192mm)
- W = 4.65 inches (118mm)
- H = 1.22 inches (31 mm)

Power Input:

- Ext. Power Supply DC 12V, 1.5A
- Weight: 10.8 oz. (0.3kg)

Warranty:

3 year (depends on D-Link global warranty policy)

Technical Support

You can find software updates and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product.

U.S. and Canadian customers can contact D-Link technical support through our website, or by phone.

Tech Support for customers within the United States:

D-Link Technical Support over the Telephone:

(877) 453-5465

24 hours a day, seven days a week

D-Link Technical Support over the Internet:

http://support.dlink.com email:support@dlink.com

Tech Support for customers within Canada:

D-Link Technical Support over the Telephone:

(800) 361-5265

Monday to Friday 7:30am to 12:00 am EST

D-Link Technical Support over the Internet:

http://support.dlink.ca email:support@dlink.ca

