USER MANUAL
DSL-2740U
VERSION 1.0

Wireless ADSL Router

Power   LAN   WLAN   DSL   Internet

1   2   3   4

DSL-2740U

D-Link®

BROADBAND

Table of Contents

Package Contents

- DSL-2760U Wireless ADSL Router
- 2 Antennas
- Power Adapter
- CD-ROM with Installation Wizard, User Manual, and Special Offers
- One twisted-pair telephone cable used for ADSL connection
- One straight-through Ethernet cable
- One Quick Installation Guide

Note: Using a power supply with a different voltage rating than the one included with the DSL-2760U will cause damage and void the warranty for this product.

System Requirements

- ADSL Internet service
- Computer with:
    - 200MHz Processor
    - 64MB Memory
    - CD-ROM Drive
    - Ethernet Adapter with TCP/IP Protocol Installed
    - Windows 2000/XP/Vista
    - Internet Explorer v6 or later, FireFox v1.5
- D-Link Click'n Connect Utility
    - Computer with Windows 2000/XP/Vista

Introduction

HIGH-SPEED ADSL2/2+ INTERNET CONNECTION
Latest ADSL2/2+ standards provide Internet transmission of up to 24Mbps downstream, 1Mbps upstream.

HIGH-PERFORMANCE WIRELESS
Embedded latest draft 802.11n technology for high-speed wireless connection, complete compatibility with 802.11b/g wireless devices

TOTAL SECURITY & QoS
Firewall protection from Internet attacks, user access control, WPA/WPA2 wireless security and priority queues for smooth VoIP traffic/streaming multimedia

ULTIMATE INTERNET CONNECTION
The DSL-2760U RangeBooster N ADSL2+ router is a versatile, high-performance remote router for home and the small office. With integrated ADSL2/2+ supporting up to 24Mbps download speed, firewall protection, Quality of Service (QoS), draft 802.11n wireless LAN and 4 Ethernet switch ports, this router provides all the functions that a home or small office needs to establish a secure and high-speed remote link to the outside world.

ULTIMATE WIRELESS CONNECTION WITH MAXIMUM SECURITY
Powered by RangeBooster N technology, this router provides wireless speeds that are up to 4 times faster than 802.11g 1. Maximize wireless performance by connecting this router to computers equipped with RangeBooster N wireless interfaces and stay connected from virtually anywhere at home and in the office. The router can also be used with 802.11g and 802.11b wireless networks to enable significantly improved reception. It supports WPA/WPA2 and WEP for flexible user access security and data encryption methods.

FIREWALL PROTECTION & QoS
Security features prevents unauthorized access to the home and office network, be it from the wireless devices or from the Internet. The router provides firewall security using Stateful Packet Inspection (SPI) and hacker attack logging for Denial of Service (DoS) attack protection. SPI inspects the contents of all incoming packet headers before deciding what packets are allowed to pass through. Router access control is provided with packet filtering based on port and source/destination MAC/IP addresses. For Quality of Service (QoS), the router supports multiple priority queues to enable a group of home or office users to experience the benefit of smooth network connection of inbound and outbound data without concern of traffic congestion. This QoS support allows users to enjoy high ADSL transmission for applications such as VoIP and streaming multimedia over the Internet.

*Maximum wireless signal rate derived from IEEE standard 802.11g and draft 802.11n specifications. 802.11n speeds obtainable when operating among RangeBooster N products. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.
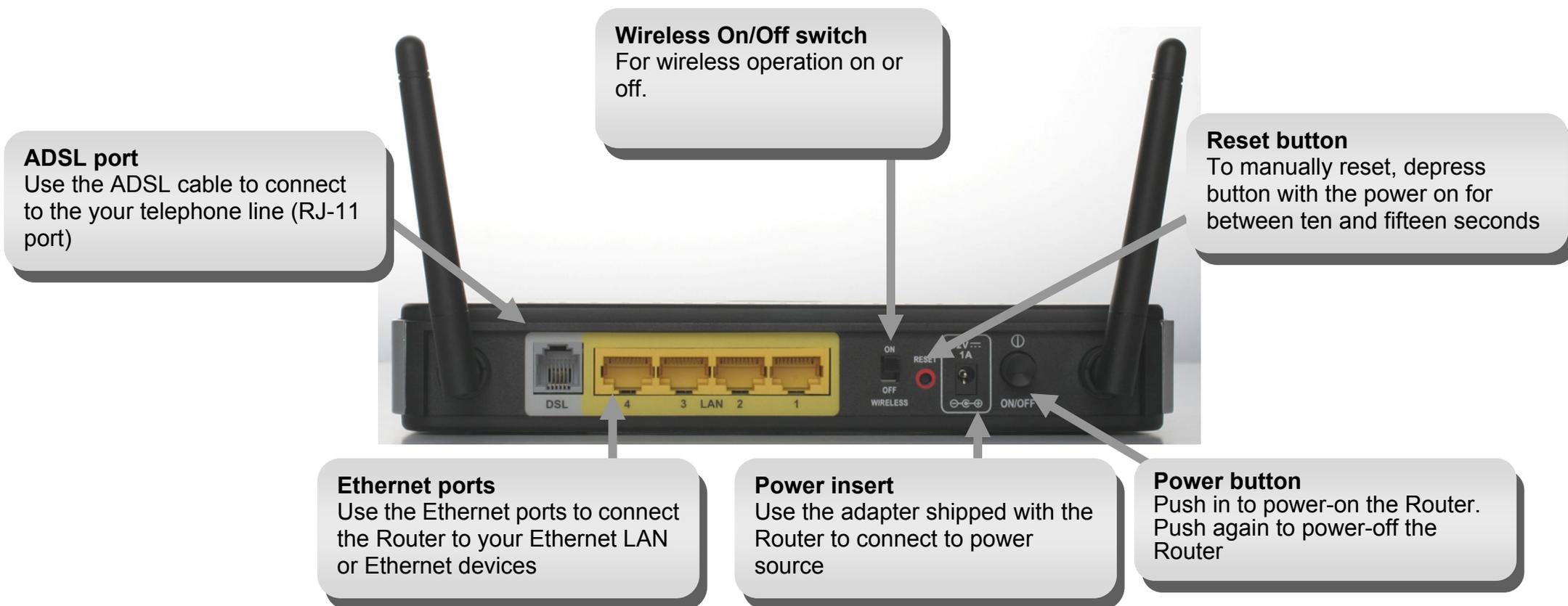
Features

- **Faster Wireless Networking** - The DSL-2760U provides up to 270Mbps* wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio.

- **Compatible with 802.11b and 802.11g Devices** - The DSL-2760U is still fully compatible with the IEEE 802.11b and g standards, so it can connect with existing 802.11b and g PCI, USB and Cardbus adapters.

- **DHCP Support** - Dynamic Host Configuration Protocol automatically and dynamically assigns all LAN IP settings to each host on your network. This eliminates the need to reconfigure every host whenever changes in network topology occur.

- **Network Address Translation (NAT)** - For small office environments, the DSL-2760U allows multiple users on the LAN to access the Internet concurrently through a single Internet account. This provides Internet access to everyone in the office for the price of a single user. NAT improves network security in effect by hiding the private network behind one global and visible IP address. NAT address mapping can also be used to link two IP domains via a LAN-to-LAN connection.

- **Precise ATM Traffic Shaping** - Traffic shaping is a method of controlling the flow rate of ATM data cells. This function helps to establish the Quality of Service for ATM data transfer.

- **High Performance** - Very high rates of data transfer are possible with the Router. Up to 24Mbps downstream bit rate using the G.dmt standard. (For ADSL2+)

- **Full Network Management** - The DSL-2760U incorporates SNMP (Simple Network Management Protocol) support for web-based management and text-based network management via Telnet connection.

- **Easy Installation** - The DSL-2760U uses a web-based graphical user interface program for convenient management access and easy set up. Any common web browser software can be used to manage the Router.

*Maximum wireless signal rate derived from IEEE standard 802.11g and draft 802.11n specifications. 802.11n speeds obtainable when operating among RangeBooster N products. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.
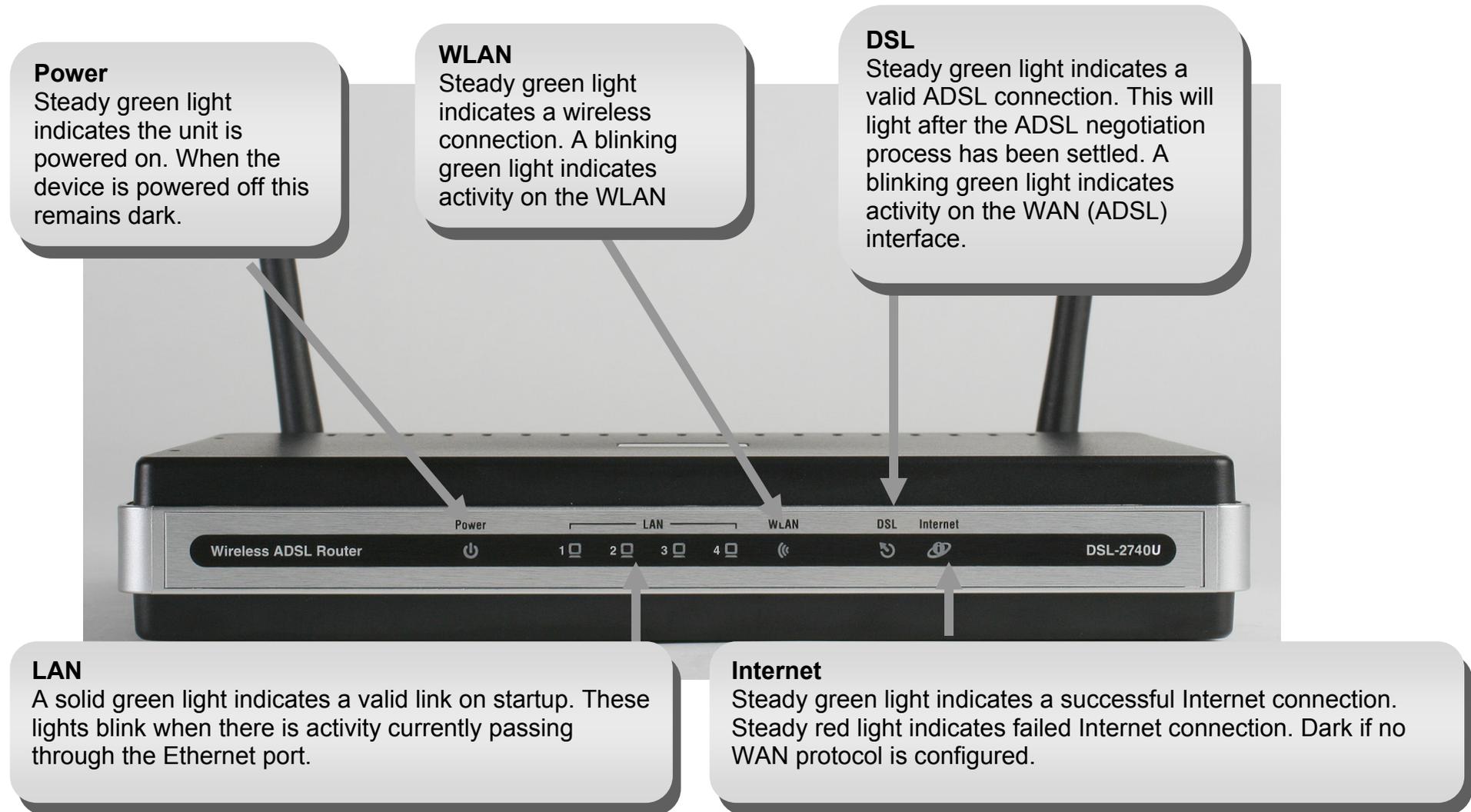
Hardware Overview
Connections

Wireless On/Off switch
For wireless operation on or off.

ADSL port
Use the ADSL cable to connect to the your telephone line (RJ-11 port)

Reset button
To manually reset, depress button with the power on for between ten and fifteen seconds

Ethernet ports
Use the Ethernet ports to connect the Router to your Ethernet LAN or Ethernet devices

Power insert
Use the adapter shipped with the Router to connect to power source

Power button
Push in to power-on the Router. Push again to power-off the Router

Hardware Overview
LEDs

Power
Steady green light indicates the unit is powered on. When the device is powered off this remains dark.

WLAN
Steady green light indicates a wireless connection. A blinking green light indicates activity on the WLAN

DSL
Steady green light indicates a valid ADSL connection. This will light after the ADSL negotiation process has been settled. A blinking green light indicates activity on the WAN (ADSL) interface.

LAN
A solid green light indicates a valid link on startup. These lights blink when there is activity currently passing through the Ethernet port.

Internet
Steady green light indicates a successful Internet connection. Steady red light indicates failed Internet connection. Dark if no WAN protocol is configured.

Installation

This section will walk you through the installation process. Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, or in the attic or garage.

Before you Begin

Please read and make sure you understand all the prerequisites for proper installation of your new Router. Have all the necessary information and equipment on hand before beginning the installation.

Installation Notes

In order to establish a connection to the Internet it will be necessary to provide information to the Router that will be stored in its memory. For some users, only their account information (Username and Password) is required. For others, various parameters that control and define the Internet connection will be required. You can print out the two pages below and use the tables to list this information. This way you have a hard copy of all the information needed to setup the Router. If it is necessary to reconfigure the device, all the necessary information can be easily accessed. Be sure to keep this information safe and private.

Low Pass Filters
Since ADSL and telephone services share the same copper wiring to carry their respective signals, a filtering mechanism may be necessary to avoid mutual interference. A low pass filter device can be installed for each telephone that shares the line with the ADSL line. These filters are easy to install passive devices that connect to the ADSL device and/or telephone using standard telephone cable. Ask your service provider for more information about the use of low pass filters with your installation.

Operating Systems
The DSL-2760U uses an HTML-based web interface for setup and management. The web configuration manager may be accessed using any operating system capable of running web browser software, including Windows 98 SE, Windows ME, Windows 2000, and Windows XP/Vista.

Web Browser
Any common web browser can be used to configure the Router using the web configuration management software. The program is designed to work best with more recently released browsers such as Opera, Microsoft Internet Explorer® version 6.0, Netscape Navigator® version 6.2.3, or later versions. The web browser must have JavaScript enabled. JavaScript is enabled by default on many browsers. Make sure JavaScript has not been disabled by other software (such as virus protection or web user security packages) that may be running on your computer.

Ethernet Port (NIC Adapter)
Any computer that uses the Router must be able to connect to it through the Ethernet port on the Router. This connection is an Ethernet connection and therefore requires that your computer be equipped with an Ethernet port as well. Most notebook computers are now sold with an Ethernet port already installed. Likewise, most fully assembled desktop computers come with an Ethernet NIC adapter as standard equipment. If your computer does not have an Ethernet port, you must install an Ethernet NIC adapter before you can use the Router. If you must install an adapter, follow the installation instructions that come with the Ethernet NIC adapter.

802.11 Wireless LAN Configuration
All the 802.11 wireless LAN settings may be configured on a single page using the web-based manager. For basic wireless communication you need to decide what channel to use and what SSID to assign. These two settings must be the same for any wireless workstations or other wireless access point that communicate with the DSL-2760U through the wireless interface.
Security for wireless communication can be accomplished in a number of ways. The DSL-2760U supports WPA (Wi-Fi Protected Access), WPA2, and mixed WPA/WPA2. Wireless access can also be controlled by selecting MAC addresses that are allowed to associate with the device. Please read the section on Wireless Configuration.

Additional Software
It may be necessary to install software on your computer that enables the computer to access the Internet. Additional software must be installed if you are using the device a simple bridge. For a bridged connection, the information needed to make and maintain the Internet connection is stored on another computer or gateway device, not in the Router itself.
If your ADSL service is delivered through a PPPoE or PPPoA connection, the information needed to establish and maintain the Internet connection can be stored in the Router. In this case, it is not necessary to install software on your computer. It may however be necessary to change some settings in the device, including account information used to identify and verify the connection.
All connections to the Internet require a unique global IP address. For bridged connections, the global IP settings must reside in a TCP/IP enabled device on the LAN side of the bridge, such as a PC, a server, a gateway device such as a router or similar firewall hardware. The IP address can be assigned in a number of ways. Your network service provider will give you instructions about any additional connection software or NIC configuration that may be required.

Information you will need from your ADSL service provider

Username
This is the Username used to log on to your ADSL service provider's network. It is commonly in the form user@isp.co.uk. Your ADSL service provider uses this to identify your account.

Password
This is the Password used, in conjunction with the Username above, to log on to your ADSL service provider's network. This is used to verify the identity of your account.

WAN Setting / Connection Type
These settings describe the method your ADSL service provider uses to transport data between the Internet and your computer. Most users will use the default settings. You may need to specify one of the following WAN Setting and Connection Type configurations (Connection Type settings listed in parenthesis):
- PPPoE/PPoA (PPPoE LLC, PPPoA LLC or PPPoA VC-Mux)
- Bridge Mode (1483 Bridged IP LLC or 1483 Bridged IP VC Mux)
- IPoA/MER (Static IP Address) (Bridged IP LLC, 1483 Bridged IP VC Mux, 1483 Routed IP LLC, 1483 Routed IP VC-Mux or IPoA)
- MER (Dynamic IP Address) (1483 Bridged IP LLC or 1483 Bridged IP VC-Mux)

Modulation Type
ADSL uses various standardized modulation techniques to transmit data over the allotted signal frequencies. Some users may need to change the type of modulation used for their service. The default DSL modulation (ADSL2+ Multi-Mode) used for the Router automatically detects all types of ADSL, ADSL2, and ADSL2+ modulation. However, if you are instructed to specify the modulation type used for the Router, you may choose among the numerous options available on the Modulation Type drop-down menu on the ADSL Configuration window (Advanced > ADSL)

Security Protocol
This is the method your ADSL service provider will use to verify your Username and Password when you log on to their network. Your Router supports the PAP and CHAP protocols.

VPI
Most users will not be required to change this setting. The Virtual Path Identifier (VPI) is used in conjunction with the Virtual Channel Identifier (VCI) to identify the data path between your ADSL service provider's network and your computer. If you are setting up the Router for multiple virtual connections, you will need to configure the VPI and VCI as instructed by your ADSL service provider for the additional connections. This setting can be changed in the WAN Settings window of the web management interface.

VCI
Most users will not be required to change this setting. The Virtual Channel Identifier (VCI) used in conjunction with the VPI to identify the data path between your ADSL service provider's network and your computer. If you are setting up the Router for multiple virtual connections, you will need to configure the VPI and VCI as instructed by your ADSL service provider for the additional connections. This setting can be changed in the WAN Settings window of the web management interface.

Information you will need about DSL-2760U

Username
This is the Username needed access the Router's management interface. When you attempt to connect to the device through a web browser you will be prompted to enter this Username. The default Username for the Router is "admin." The user cannot change this.

Password
This is the Password you will be prompted to enter when you access the Router's management interface. The default Password is "admin." The user may change this.

LAN IP addresses for the DSL-2760U
This is the IP address you will enter into the Address field of your web browser to access the Router's configuration graphical user interface (GUI) using a web browser. The default IP address is 192.168.1.1. This may be changed to suit any IP address scheme the user desires. This address will be the base IP address used for DHCP service on the LAN when DHCP is enabled.

LAN Subnet Mask for the DSL-2760U
This is the subnet mask used by the DSL-2760U, and will be used throughout your LAN. The default subnet mask is 255.255.255.0. This can be changed later.

Information you will need about your LAN or computer:

Ethernet NIC

If your computer has an Ethernet NIC, you can connect the DSL-2760U to this Ethernet port using an Ethernet cable. You can also use the Ethernet ports on the DSL-2760U to connect to other computer or Ethernet devices.

DHCP Client status

Your DSL-2760U ADSL Router is configured, by default, to be a DHCP server. This means that it can assign an IP address, subnet mask, and a default gateway address to computers on your LAN. The default range of IP addresses the DSL-2760U will assign are from 192.168.1.2 to 192.168.1.254. Your computer (or computers) needs to be configured to Obtain an IP address automatically (that is, they need to be configured as DHCP clients.)

It is recommended that your collect and record this information here, or in some other secure place, in case you have to re-configure your ADSL connection in the future.
Once you have the above information, you are ready to setup and configure your DSL-2760U Wireless ADSL Router.

Wireless Installation Considerations

DSL-2760U lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum - each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.

2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.

3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.

4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.

5. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone in not in use.

Device Installation

The DSL-2760U Wireless ADSL Router maintains three separate interfaces, an Ethernet LAN, a wireless LAN and an ADSL Internet (WAN) connection. Carefully consider the Router's location suitable for connectivity for your Ethernet and wireless devices. You must have a functioning broadband connection via a bridge device such as a Cable or ADSL modem in order to use the Router's WAN function.

Place the Router in a location where it can be connected to the various devices as well as to a power source. The Router should not be located where it will be exposed to moisture, direct sunlight or excessive heat. Make sure the cables and power cord are placed safely out of the way so they do not create a tripping hazard. As with any electrical appliance, observe common sense safety procedures.
The Router can be placed on a shelf, desktop, or other stable platform. If possible, you should be able to see the LED indicators on the front if you need to view them for troubleshooting.

Power on Router

The Router must be used with the power adapter included with the device.

1. Insert the AC Power Adapter cord into the power receptacle located on the rear panel of the Router and plug the adapter into a suitable nearby power source.
2. Push down the Power button, and you should see the Power LED indicator light up and remain lit.
3. If the Ethernet port is connected to a working device, check the Ethernet Link/Act LED indicators to make sure the connection is valid. The Router will attempt to establish the ADSL connection, if the ADSL line is connected and the Router is properly configured this should light up after several seconds. If this is the first time installing the device, some settings may need to be changed before the Router can establish a connection.

Factory Reset Button

The Router may be reset to the original factory default settings by using a ballpoint or paperclip to gently push down the reset button in the following sequence:

1. Press and hold the reset button while the device is powered off.
2. Turn on the power.
3. Wait for 10~15 seconds and then release the reset button.

Remember that this will wipe out any settings stored in flash memory including user account information and LAN IP settings. The device settings will be restored to the factory default IP address **192.168.1.1** and the subnet mask is **255.255.255.0**, the default management Username is "admin" and the default Password is "admin."

Network Connections

Connect ADSL Line
Use the ADSL cable included with the Router to connect it to a telephone wall socket or receptacle. Plug one end of the cable into the ADSL port (RJ-11 receptacle) on the rear panel of the Router and insert the other end into the RJ-11 wall socket. If you are using a low pass filter device, follow the instructions included with the device or given to you by your service provider. The ADSL connection represents the WAN interface, the connection to the Internet. It is the physical link to the service provider's network backbone and ultimately to the Internet.

Connect Router to Ethernet
The Router may be connected to a single computer or Ethernet device through the 10BASE-TX Ethernet port on the rear panel. Any connection to an Ethernet concentrating device such as a switch or hub must operate at a speed of 10/100 Mbps only. When connecting the Router to any Ethernet device that is capable of operating at speeds higher than 10Mbps, be sure that the device has auto-negotiation (NWay) enabled for the connecting port. Use standard twisted-pair cable with RJ-45 connectors. The RJ-45 port on the Router is a crossed port (MDI-X). Follow standard Ethernet guidelines when deciding what type of cable to use to make this connection. When connecting the Router directly to a PC or server use a normal straight-through cable. You should use a crossed cable when connecting the Router to a normal (MDI-X) port on a switch or hub. Use a normal straight-through cable when connecting it to an uplink (MDI-II) port on a hub or switch. The rules governing Ethernet cable lengths apply to the LAN to Router connection. Be sure that the cable connecting the LAN to the Router does not exceed 100 meters.

Hub or Switch to Router Connection
Connect the Router to an uplink port (MDI-II) on an Ethernet hub or switch with a straight-through cable as shown in this diagram. If you wish to reserve the uplink port on the switch or hub for another device, connect to any on the other MDI-X ports (1x, 2x, etc.) with a crossed cable.

Switch/Hub

DSL-2740B

10/100 BASE-TX Cable
Work with Uplink and Ethernet
MDI/ MDIX Port
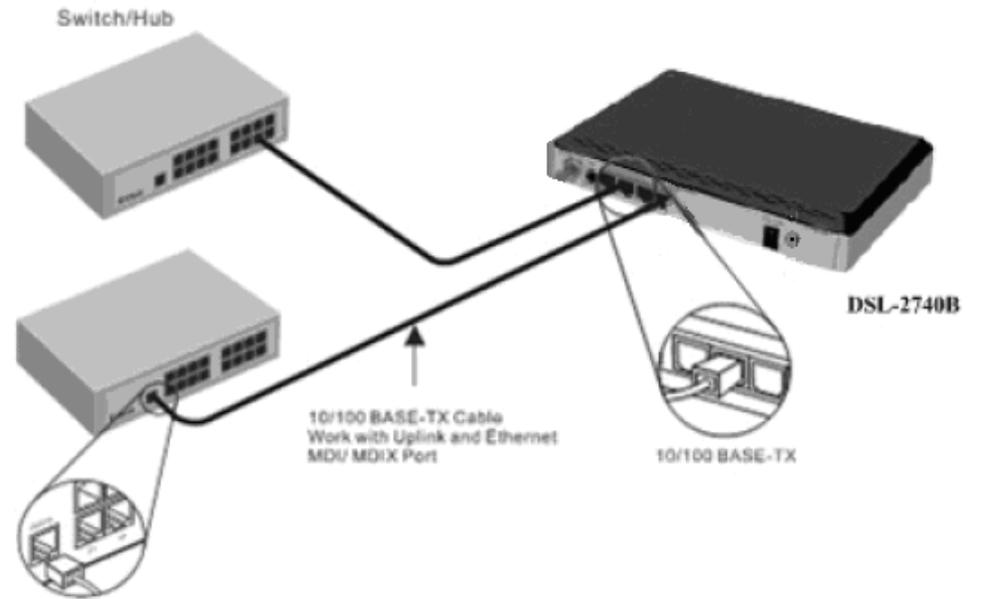
10/100 BASE-TX

Computer to Router Connection
You can connect the Router directly to a 10/100BASE-TX Ethernet adapter card (NIC) installed on a PC using the Ethernet cable provided as shown in this diagram.

DSL-2740B

10/100 BASE-TX Cable

PC

10/100 BASE-TX
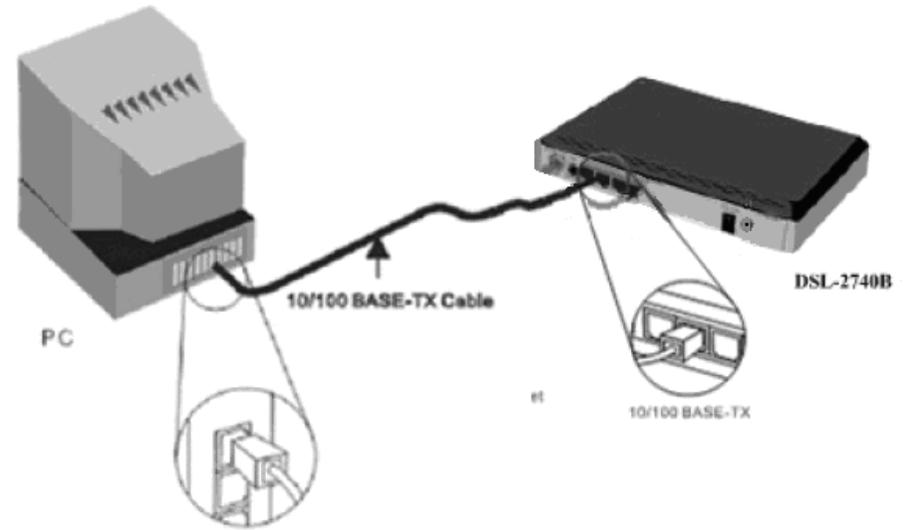
Configuration

This section will show you how to configure your new D-Link wireless router using the web-based configuration utility.

Web-based Configuration Utility

Connect to the Router
To configure the WAN connection used by the Router it is first necessary to communicate with the Router through its management interface, which is HTML-based and can be accessed using a web browser. The easiest way to make sure your computer has the correct IP settings is to configure it to use the DHCP server in the Router. The next section describes how to change the IP configuration for a computer running a Windows operating system to be a DHCP client.

To access the configuration utility, open a web-browser such as Internet Explorer and enter the IP address of the router (192.168.1.1).
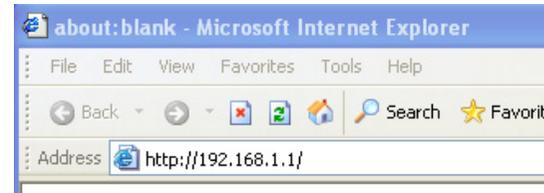
Type "**admin**" in the Password field. If you get a **Page Cannot be Displayed** error, please refer to the **Troubleshooting** section for assistance.

SETUP

This chapter is concerned with using your computer to configure the WAN connection. The following chapter describes the various windows used to configure and monitor the Router including how to change IP settings and DHCP server setup.

WIZARD

ADSL SETUP
Click on the **Setup Wizard** button to launch the **Setup Wizard.**
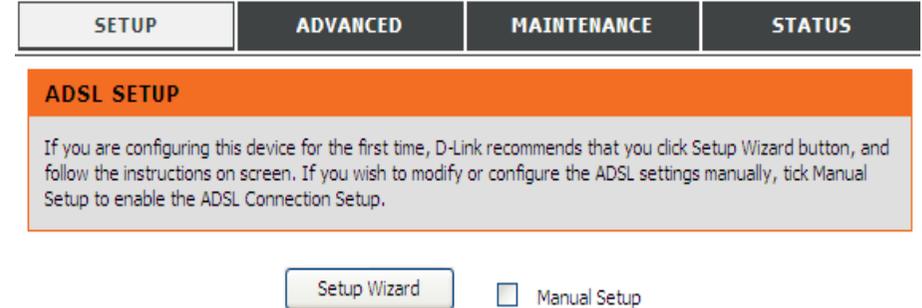
WELCOME TO D-LINK SETUP WIZARD
There are three steps to configuring your router. Click on the **Next** to continue.
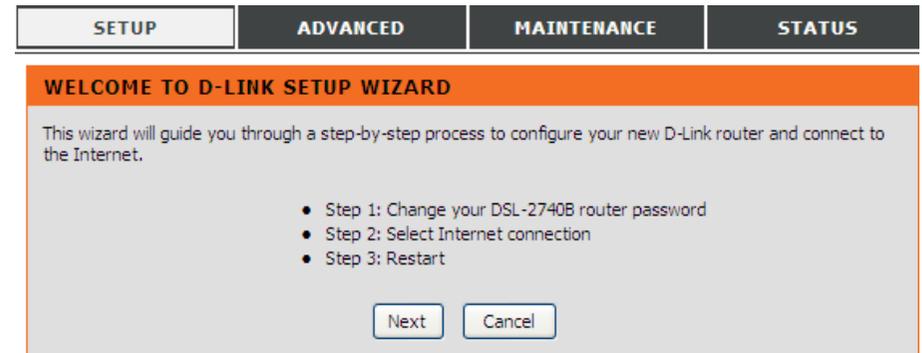
STEP 1: CHANGE YOUR DSL-2760U PASSWORD

The default password is "**admin**", in order to secure your network, please modify the password. Note: Confirm Password must be same as "**New Password**". Of course, you can click on the **Skip** to ignore the step.

| SETUP | ADVANCED | MAINTENANCE | STATUS |

STEP 1: CHANGE YOUR DSL-2740B PASSWORD

The factory default password of this router is 'admin'. To help secure your network, D-Link recommends that you should choose a new password. If you do not wish to choose a new password now, just Click **Skip** to continue. Click **Next** to proceed to next step.

Current password : [____]
New password : [____]
Confirm password : [____]

[Back] [Next] [Skip] [Cancel]

STEP 2: SELECT INTERNET CONNECTION TYPE

Please select your **Country** and **ISP**, the VPI and VCI information Will display Automatically. Of course, you can modify the information.

If, you can not find the country and ISP in the list below; you can select "**Others**", and then input the "**VPI**" and "**VCI**" and Connection Type.

Click on the **Next** button to go to the next **Setup Wizard** window.

| SETUP | ADVANCED | MAINTENANCE | STATUS |

STEP 2: SELECT INTERNET CONNECTION TYPE

Please select your Country and ISP (Internet Service Provider) from the list below. If your Country or ISP is not in the list, please select "Other".

Country : [(Click to select) ▼]
ISP Provider : [(Click to select) ▼]

VPI : [(Enter a number)]
VCI : [(Enter a number)]
Connection Type : [Click to select ▼]

[Back] [Next] [Cancel]

STEP 2: SELECT INTERNET CONNECTION TYPE

Select the appropriate Internet connection type based on the information provided to you by your ISP.

Please enter the VPI/VCI numbers if provided by the ISP.

Click on the **Next** button to go to the next **Setup Wizard** window.

Using the Setup Wizard - For PPPoE/PPPoA connection

Type in the **Username** and **Password**.

Click on the **Next** button to go to the next **Setup Wizard** window.

Using the Setup Wizard - For Dynamic IP Address connection

Please enter the appropriate information below as provided by your ISP.

Maybe, you have to input your **PC MAC** address if ISP requires, and you can click on the **Copy Your PC's MAC Address** button to copy it.

Click on the **Next button** to go to the next **Setup Wizard** window.

STEP 2: SELECT INTERNET CONNECTION TYPE

You have selected Dynamic IP Internet connection. Please enter the appropriate information below as provided by your ISP. The Auto PVC Scan feature will not work in all cases so please enter the VPI/VCI numbers if provided by the ISP. Some ISPs require that you clone your PC MAC address to the DSL router, simply Click on the button provided. Click **Next** to continue.

Auto PVC Scan : ☐

VPI : 0

VCI : 33

Connection Type : 1483 Bridged IP LLC

Cloned MAC Address : |

[Copy Your PC's MAC Address]

[Back] [Next] [Cancel]

Using the Setup Wizard - For Static IP Address connection

Please enter the appropriate information below as provided by your ISP.

Please input the correct **IP address**, **Subnet Mask**, **Default Gateway** and **DNS information**.

Note: Should you select to leave default Gateway and DNS information blank, they should be automatically generated.

Click on the **Next button** to go to the next **Setup Wizard** window.

STEP 2: SELECT INTERNET CONNECTION TYPE

You have selected Static IP Internet connection. Please enter the appropriate information below as provided by your ISP. The Auto PVC Scan feature will not work in all cases so please enter the VPI/VCI numbers if provided by the ISP. Click **Next** to continue.

Auto PVC Scan : ☐

VPI : 0

VCI : 33

IP Address :

Subnet Mask :

Connection Type : 1483 Routed IP LLC

Obtain default gateway automatically : Disabled

Default Gateway :

DNS Relay Selection : Use User Configured DNS Servers Only

Primary DNS Server :

Secondary DNS Server :

[Back] [Next] [Cancel]

STEP 3: RESTART

Click **Back** to review or modify settings. Click on **Apply** to apply current settings. If your Internet connection does not work after the wizard configuration, you can try the **Setup Wizard** again with alternative settings or use Manual Setup instead provided you have your Internet connection details as provided to you by your ISP.

STEP 3: RESTART

Setup complete. Click Back to review or modify settings. Click Restart to apply current settings and reboot the router. If your Internet connection does not work after restart, you can try the Setup Wizard again with alternative settings or use Manual Setup instead if you have your Internet connection details as provided by your ISP.

[Back]   [Apply]   [Cancel]

ADSL SETUP

To access the **ADSL SETUP** (WAN) settings window, click on the **Internet Setup** button in the **SETUP** directory and select the **Manual Setup** to configure the MANUAL ADSL interface in this page:

WAN INTERFACE SETUP There are two ways to setup your wan interfaces. You can use the ATM Setup wizard or you can use ETH setup wizard. Click **Setup** button in the **ADSL INTERFACE** section if you want to use ATM to configure your wan interface. Please refer to page 26 **ATM Interface - ADSL SETUP** for the next step. Click **Setup** button in the **ETHERNET WAN INTERFACE** section if you want to use ETH to configure your wan interface. Please refer to page 28 **ETH Interface – ETH WAN Setup** for the next step.	DSL-2740B SETUP ADVANCED MAINTENANCE STATUS Internet Setup Wireless Setup LAN Setup Time and Date Parental Control Wireless Schedule Logout Internet Offline English Reboot **INTERFACE SETUP** There are 2 ways to setup your internet. You can use ADSL to configure the internet or you can assign one of the Ethernet ports as a WAN port to internet. **ADSL INTERFACE** Use ADSL interface to setup your internet. Setup **ETHERNET WAN INTERFACE** Assign one of the Ethernet ports as a WAN port to internet. Setup

ATM Interface - ADSL SETUP

Check the **Manual Setup** check box and configure the below messages with the required information as the same as in **WIZARD**.

Click on the **Apply** button to apply and save your settings.

Click on the **Connect button** to connect the router to the Internet with the WAN interface.

When the router is connected to the Internet, the **Internet Online** graphical icon will be in color. If it is in dark and you are having problems browsing web pages, then there may be a problem with your internet settings and you will need to revert to step 2.

Click on the **Disconnect button** to disconnect the router to the Internet and the icon will be dark.

ETH Interface – ETH WAN Setup

This screen allows you to configure an ETH port to be WAN port.

Select the port from drop down menu and configure the below messages with the required information as the same as in **WIZARD**.

Click on the **Apply** button to apply and save your settings.

DSL-2740B	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP

Internet Setup
Wireless Setup
LAN Setup
Time and Date
Parental Control
Wireless Schedule
Logout

Internet Offline

English

Reboot

ETHERNET WAN SETUP

You can setup this device to Internet by another ways, assigning one of the LAN ports to be a WAN port. Therefore, you can keep using this device even you changed your internet service from ADSL to others, e.g. Cable Modem, FTTH.

ETHERNET WAN PORT SELECTION

Please assign a Ethernet port to be the WAN port.

Assign a Ethernet port: LAN1

MANUAL ETH WAN CONNECTION SETUP

Please select the appropriate option to connect to your ISP.

○ PPPoE   Choose this option if your ISP uses PPPoE.(For most DSL users)
○ Dynamic IP Address Choose this option if your ISP uses Dynamic IP Address over DSL.
○ Static IP Address   Choose this option if your ISP uses Static IP assignments.
○ Bridge   Choose this option if your ISP uses Bridge.

PPPOE INTERNET CONNECTION TYPE :

Enter the information provided by your Internet Service Provider (ISP).

Username :   auto
Password :   ●●●●
Servername :
MTU :   1492
Idle Time Out :
Minutes (0 = Always On)
PPP IP Extension :   ☐

DNS AND DEFAULT GATEWAY:

⦿ Obtain DNS server address automatically
WAN Interface selected: CurrentIface
○ Use the following DNS server addresses
Preferred DNS server:
Alternate DNS server:

Default Gateway interface

Selected Gateway Interface: CurrentIface

Enable NAT :   ☑
Enable FIREWALL :   ☑
Enable IGMP Proxy :   ☐
Enable VLAN :   ☐
VLAN ID[0-4095] :

Apply   Cancel

BROADBAND

WIRELESS

Use this section to configure the wireless settings for your D-Link router. Please note that changes made in this section will also need to be duplicated onto your wireless clients and PC.

To access the **WIRELESS** (WLAN) settings window, click on the **Wireless Setup** button in the **SETUP** directory.

Wireless Network Setting
Click on the **Wireless Connection Setup Wizard** button to setup the wireless connection in an easy way. It will use Web-based Wizard to assist you in connecting to your new D-Link Systems Wireless Router.

Note: Before launching the wizard, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

Click on the **Add Wireless Device with WPS** button. This wizard is designed to assist you in connecting your wireless device to your router with WPS. It will guide you through step-by-step instructions on how to get your wireless device connected.

If you would like to configure the Internet settings of your new D-Link Router manually, then click on the **Manual Wireless Connection Setup** button.

Wireless Connection Setup Wizard

Network Name(SSID) identifies members of the Service Set. Accept the default name or change it to something else. If the default SSID is changed, all other devices on the wireless network must also use the same SSID.

Select **Automatically assign a network key** or **Manually assign a network key** to prevent outsides from accessing your network, the router will automatically assign a security key (also called WEP or WPA key) to your network.

Enable **Use WPA encryption instead of WEP** will help provide a more secure wireless network. WPA is stronger than WEP and all D-Link wireless client adapters support WPA.

Click **Prev** to go back to previous page.
Click **Next** button to proceed the next page.
Click **Cancel** button to return to the main menu of Wireless Setup page.

Wireless Connection Setup Wizard (Manually assign a network key with WPA enabled)

The WPA(Wi-Fi Protected Access)key must meet one of the following guidelines:

- Between 8 and 63 characters(A longer WPA key is more secure than a short one)
- Exactly 63 characters using 0-9 and A-F

Click **Prev** to go back to previous page.
Click **Next** button to proceed the next page.
Click **Cancel** button to return to the main menu of Wireless Setup page.

Wireless Connection Setup Wizard (Manually assign a network key with WEP)

The WEP(or Wired Equivalent Privacy)key must meet one of the following guidelines:

- Exactly 5 or 13 characters
- Exactly 10 or 26 characters using 0-9 and A-F

A longer WEP key is more secure than a short one.

Click **Prev** to go back to previous page.
Click **Next** button to proceed the next page.
Click **Cancel** button to return to the main menu of Wireless Setup page.

Wireless Connection Setup Wizard (Configuration Information)
This screen shows the information for the SSID, Wireless Security Mode and the Network key.

Click **Prev** to go back to previous page.
Click **Save** button to save the current setting.
Click **Cancel** button to return to the main menu of Wireless Setup page.

WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD

The WEP(or Wired Equivalent Privacy)key must meet one of the following guidelines:

- Exactly 5 or 13 characters
- Exactly 10 or 26 characters using 0-9 and A-F

A longer WEP key is more secure than a short one.

Network Key :

Prev   Next   Cancel

WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD

Please enter the following settings in the wireless device that you are adding to your wireless network and keep a note of it for future reference.

Network Name(SSID) :   DLink
Wireless Security Mode :   WEP
Network Key :   lto4n

Prev   Save   Cancel

Add Wireless Device with WPS

The wizard shows the option to setup WPS by **Auto** or **Manual**.

Auto -- Select this option if your wireless device supports WPS(Wi-Fi Protected Setup)

Manual -- Select this option will display the current wireless settings for you to configure the wireless device manually.

Click **Next** button to proceed the next page.
Click **Cancel** button to return to the main menu of Wireless Setup page.

Add Wireless Device with WPS (Manually)

This screen shows the information for the SSID, Wireless Security Mode and the Network key and allow you to modify the current setting, if you select **Auto** in the previous page, you won't see this page and please refer to next column.

Click **OK** button to proceed the next page.

Add Wireless Device with WPS (Manually)
This page allows you to select PIN or PBC to use WPS method.
PIN- Enter the PIN code from your wireless device and click the below **Connect** button to start the handshaking.
PBC- Please press the push button on your wireless device and press the **Connect** button below within 120 seconds to start the handshaking.

Click **Prev** to go back to previous page.

Add Wireless Device with WPS (PIN)
This page will count down the timer and please start WPS on the wireless device you are adding in time.

Add Wireless Device with WPS (Push Button)
This page will count down the timer and please start WPS in time by pressing down the Push button on your wireless device you are adding.

Manual WIRELESS Connection Setup SETTINGS
Click on the **Enable Wireless** check box to allow the router to operate in the wireless environment.

The **SSID** identifies members of the Service Set. Accept the default name or change it to something else. If the default SSID is changed, all other devices on the wireless network must also use the same SSID.

Enable Auto Channel Scan so that the router can select the best possible channel for your wireless network to operate on.

The **Wireless Channel** can let you select the channel of your access point. Channel availability is different for different countries due to their regulation.

Select **802.11 Mode** to operate in b/g/n mode. Or select specified mode to use.

Channel Width, Maximum rate for **20 MHz** is 130 Mbps. Maximum rate for **40 MHz** is 270 Mbps.

Transmission Rate, suggest keeping the Best (automatic) selection.

Click on the **Hide Wireless Network** check box to allow the router to stop broadcasting its SSID.

WIRELESS SECURITY WIZARD

Click on the **Secure My Wireless Network** button to enter the **SECURE MY WIRELESS NETWORK** window.

Please follow refer to page 30~31.

WIRELESS SECURITY MODE - WEP

WEP (Wireless Encryption Protocol) 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. The router offers 64 or 128 bit encryption with four keys available.

Select **WEP Key Length** from the drop-down menu. (**128 bit** is stronger than **64 bit**)

Enter the key into the **WEP Key** field 1~4. (Key length is outlined at the bottom of the window.)

Specify the encryption key from the **Default WEP Key** drop-down menu.

Select **Authentication** type from the drop-down menu. (**Shared** is better than **Open**)

Click on the **Apply Settings** button to apply settings.

WIRELESS SECURITY WIZARD

If you are setting up your wireless network for the first time, D-Link recommends that you click the Secure my Wireless Network button and follow the step by step instructions.

Secure My Wireless Network

WEP

If you choose the WEP security option this device will ONLY operate in Legacy Wireless mode (802.11B/G). This means you will NOT get 11N performance due to the fact that WEP is not supported by the Draft 11N specification.

WEP is the wireless encryption standard. To use it you must enter the same key(s) into the router and the wireless stations. For 64 bit keys you must enter 10 hex digits into each key box. For 128 bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to "Shared Key" when WEP is enabled.

You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64 bit keys, and a maximum of 13 characters for 128 bit keys.

WEP Key Length : 128 bit (13 characters or 26 hex digits)   (length applies to all keys)

WEP Key 1 : 1234567890123

WEP Key 2 : 1234567890123

WEP Key 3 : 1234567890123

WEP Key 4 : 1234567890123

Default WEP Key : WEP Key 1

Authentication : Open

Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.

Apply Settings   Cancel

WIRELESS SECURITY MODE – **WPA-Personal**

WPA-PSK
WPA-PSK configuration is similar to WEP. The key length is between 8 to 63 ASCII codes.

WIRELESS SECURITY MODE

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA, WPA2 and Auto.

The **WEP** mode is the original wireless encryption standard. WPA provides a higher level of security.

For maximum compatibility, use **WPA**. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode. For best security, use **WPA2** mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. Use **Auto(WPA or WPA2)** mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used

To achieve better wireless performance use **WPA2** security mode (or in other words AES cipher).

Security Mode : Auto (WPA or WPA2) ⌄ (TKIP or AES)

AUTO (WPA OR WPA2)

WPA-Personal does not require an autherntication server. The WPA-Enterprise option requires an external RADIUS server

WPA Mode : WPA/WPA2-PSK (Personal) ⌄
Group Key Update Interval : 0 (seconds)

PRE-SHARED KEY

Pre-Shared Key : zlejc58aq

Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.

Apply Settings   Cancel

WIRELESS SECURITY MODE – WPA-Enterprise

802.1x

Some network-security experts now recommend that wireless networks use 802.1X security measures to overcome some weaknesses in standard WEP applications. A RADIUS server is used to authenticate all potential users. .

Enter your RADIUS server data: **IP Address, Port, and Shared Secret**.

Click on the **Apply Settings** button to apply settings.

EAP (802.1X)

When WPA enterprise is enabled, the router uses EAP (802.1x) to authenticate clients via a remote RADIUS server.

Authentication Timeout : 36000 (minutes)

RADIUS server IP Address : 0.0.0.0

RADIUS server Port : 1812

RADIUS server Shared Secret :

Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.

Apply Settings   Cancel

LAN SETUP

You can configure the LAN IP address to suit your preference. Many users will find it convenient to use the default settings together with DHCP service to manage the IP settings for their private network. The IP address of the Router is the base address used for DHCP. In order to use the Router for DHCP on your LAN, the IP address pool used for DHCP must be compatible with the IP address of the Router. The IP addresses available in the DHCP IP address pool will change automatically if you change the IP address of the Router.

To access the **LAN SETUP** setting window, click on the **LAN Setup** button in the **SETUP** directory.

ROUTER SETTINGS
To change the **Router IP Address** or **Subnet Mask**, type in the desired values.

DHCP SERVER SETTINGS (OPTIONAL)
The **Enable DHCP Server** is selected by default for the Router's Ethernet LAN interface. DHCP service will supply IP settings to workstations configured to automatically obtain IP settings that are connected to the Router though the Ethernet port. When the Router is used for DHCP it becomes the default gateway for DHCP client connected to it. Keep in mind that if you change the IP address of the Router the range of IP addresses in the pool used for DHCP on the LAN will also be changed. The IP address pool can be up to 253 IP addresses.

ADD DHCP RESERVATION (OPTIONAL)
Select the **DHCP Reservation Enable** can let you reserve the **IP Address** for the designate PC with the configured **MAC Address**.

The **Computer Name** can help you recognize the PC with the **MAC Address**, such as "Father's Laptop".

Clicking on the **Copy Your PC's MAC Address** button will help you get the MAC address from the PC you are using now browsing this web page.

Click on the **Apply** button to save the settings

DHCP RESERVATIONS LIST
After saved the DHCP reservation, the **DHCP RESERVATIONS LIST** will list the configuration.

The **NUMBER OF DYNAMIC DHCP CLIENTS** shows how many DHCP clients (PC or Laptop) connected to the router currently.

Click on the **Save Settings** button to apply your settings.

TIME

The **TIME** configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to automatically adjust the time when needed.

To access the **TIME** setting window, click on the **Time and Date** button in the **SETUP** directory

TIME CONFIGURATION

Check the **Automatically synchronize with Internet time servers** check box.

Select specific time server to use from the **NTP Server** drop-down menu.

Select your operating time zone from the **Time Zone** drop-down menu.

Check the **Enable Daylight Saving** if needed and then select the proper **Daylight Saving Offset** drop-down menu. **Configure the Daylight Saving Dates** from start date to end.

Set the Date and Time Manually
You can either manually set the time for your router here, or you can click the "Copy Your Computer's Time Settings" button to copy the time from the computer you are using.

Click on the **Apply** button to apply your settings.

PARENTAL CONTROL

The **PARENTAL CONTROL** provides two useful tools for restricting Internet access. **Block Websites** allows you to quickly create a list of all web sites that you wish to stop users from accessing. **Time Restrictions** allows you to control when clients or PCs connected to Router are allowed to access the Internet.

To access the **PARENTAL CONTROL** setting window, click on the **Parental Control** button in the **SETUP** directory

BLOCKED WEBSITES SCHEDULING

Type the **Website** and select the corresponding time and days. Click on the **Block Website** button to add to your blocked websites scheduling configuration.

Check the **Unblock field** in the tail of the row, and then click on the **Unblock Website** button. The checked items will be deleted from the table.

INTERNET ACCESS TIME RESTRICTIONS

Select days and time frame to allow/deny this rule.

Click on the **Save Settings** button to apply settings.

WIRELESS SCHEDULE

The **Wireless Schedule** page allows you to create scheduling rules to be applied for your Wireless network.

To access the **WIRELESS SCHEDULE** setting window, click on the **Wireless Schedule** button in the **SETUP** directory

WIRELESS SCHEDULING
Click on the **Edit** button to select the day and specify the time for your wireless network schedule.

Click **Save** button to save and apply your settings.

LOGOUT

The **LOGOUT** page enables you to logout of your router and closes the browser.

To access the **LOGOUT** setting window, click on the **Logout** button in the **SETUP** directory

LOGOUT
Click on the **Logout** button to logout of the router configuration settings and close the browser.
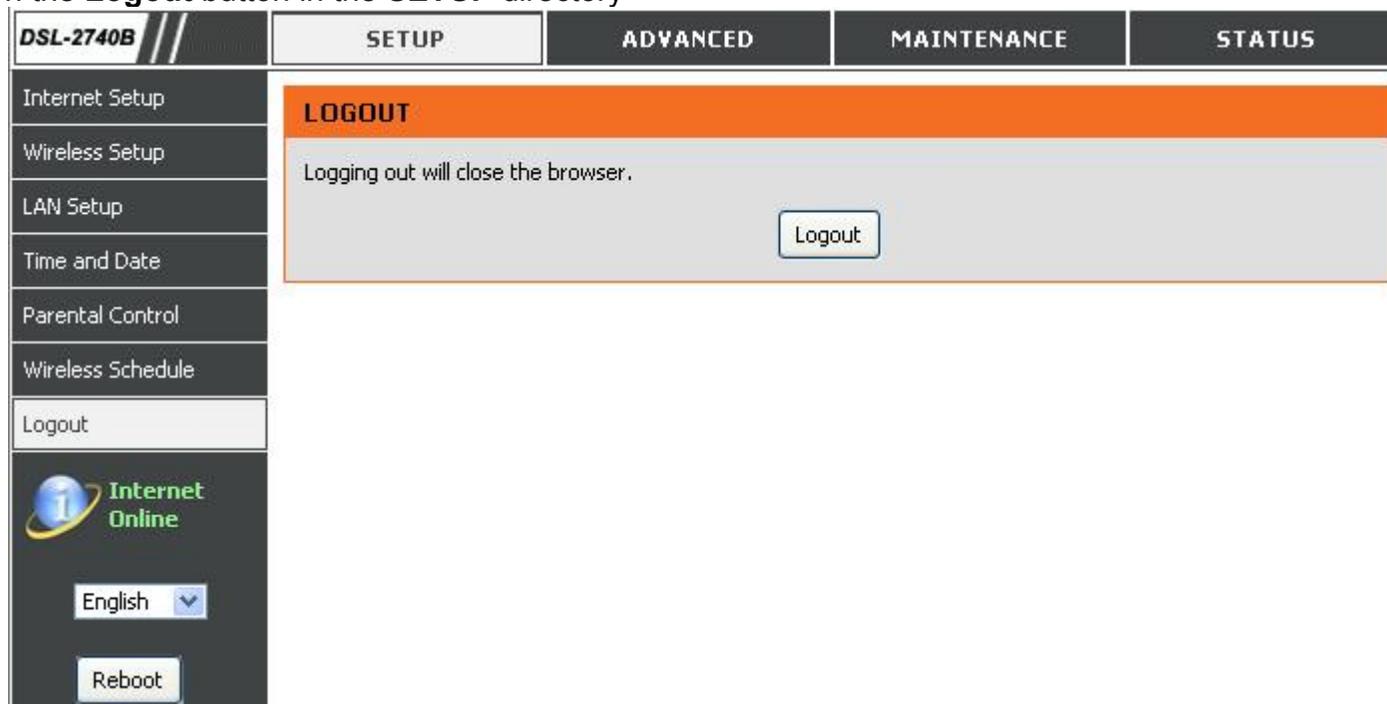
ADVANCED

This chapter include the more advanced features used for network management and security as well as administrative tools to manage the router, view status and other information used to examine performance and for troubleshooting.

PORT FORWARDING

Use the **PORT FORWARDING** window to open ports in your router and re-direct data through those ports to a single PC on your network (WAN-to-LAN traffic). The Port Forwarding function allows remote users to access services on your LAN such as FTP for file transfers or SMTP and POP3 for e-mail. The DSL-2760U will accept remote requests for these services at your Global IP Address, using the specified TCP or UDP protocol and port number, and then redirect these requests to the server on your LAN with the LAN IP address you specify. Remember that the specified Private IP Address must be within the useable range of the subnet occupied by the Router.

To access the **PORT FORWARDING** settings window, click on the **Port Forwarding** button in the **ADVANCED** directory

PORT FORWARDING RULES CONFIGURATION

Select a name from the **Application Name** drop-down menu for a pre-configured application or type a name in the **Name** input box to define your own application.

Select a name from the **Computer Name** drop-down menu or type an IP address in the **IP address** input box to appoint the PC to receive the forwarded packets.

The **External Port** shows the ports opened for remote users in the WAN side of the router. The **TCP/UDP** means the protocol type of the opened ports.

The **Internal Port** shows the ports opened in the PC with the appointed **IP Address**. The **TCP/UDP** means the protocol type of the opened ports.

Click on the **Add/Apply** button to apply settings.

APPLICATION RULES

Some applications require that specific ports in the Router's firewall be opened for access by the remote parties. Application rules dynamically open up the **Firewall** ports when an application on the LAN initiates a TCP/UDP connection to a remote party using the **Trigger** ports. The router allows the remote party from the WAN side to establish new connections back to the application on the LAN side using the **Firewall** ports. A maximum of 16 entries can be configured.

To access the **APPLICATION RULES** setting window, click on the **Application Rules** button in the **ADVANCED** directory.

APPLICATION RULES CONFIGURATION

Select a name from the drop-down menu for pre-configured application or type a name in the **Name** input text box to define your own rules.

Enter your **Trigger** and **Firewall** port(s), and select the **Traffic Type**.

Click on the **Add/Apply** button to apply settings.

QoS SETUP

QoS or Quality of service allows your Router to help prioritize the data packet flow in your router and network. This is very important for time sensitive applications such as VoIP where it may help prevent dropped calls. Large amounts of non-critical data can be scaled so as not to affect these prioritized sensitive real-time programs. D-Link has pre-setup some often used rules for the QoS. VoIP and H.323 are often used for Internet calls.

To access the **QoS SETUP** setting window, click on the **QoS Setup** button in the **ADVANCED** directory.

QoS SETUP

Check the service type and configure the port range if need.

Click on the **Save Settings** button to apply settings

WMM is used to prioritize the data packets from LAN to WLAN. It is very useful when transmitting delay-sensitive packets like VoIP.

Select **Disabled** of **WMM No Acknowledgment** to avoid re-transmission of highly delay-sensitive packets

Click on the **Apply WME Settings** button to activate the WMM

ADVANCED QoS SETUP

Click on the **Wireless QoS** button to enter the **WIRELESS QoS RULES CONFIGURATION** window.

WIRELESS QOS RULES CONFIGURATION

Enter the **Name** and **Priority** (1~255) of the rule.

Specify traffic classification rules. The classification can be defined in the following parameters: **Protocol**, **Source/Destination IP Range**, **and Source/Destination Port Range**.

Click on the **Add/Apply** button to add and apply this rule.

ACTIVE WIRELESS QoS RULES

Check the **Remove** items and click on the **Remove Selected** button to delete settings.

OUTBOUND FILTER

By default, all outgoing IP traffic from the LAN is allowed. The Outbound Filter allows you to create a filter rule to block outgoing IP traffic by specifying a filter name and at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to take effect.

To access the **OUTBOUND FILTER** setting window, click on the **Outbound Filter** button in the **ADVANCED** directory.

ADD OUTBOUND IP FILTER

Enter the **Filter name** and at least one of the following criteria: **Protocol**,
Source/Destination IP Address and **Subnet Mask**, and **Source/Destination Port**.

Click on the **Add/Apply** button to add and apply settings.

INBOUND FILTER

By default, all incoming IP traffic that does not originate from the internal network is blocked when the firewall is enabled. Normal outgoing Internet requests created by web browsing, email and other software you run will work as usual as the requests originate from inside your internal network. The Inbound Filter allows you to create a filter rule to allow incoming IP traffic by specifying a filter name and at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to take effect.

To access the **INBOUND FILTER** setting window, click on the **Inbound Filter** button in the **ADVANCED** directory.

ADD INBOUND IP FILTER

Enter the **Filter name** and at least one of the following criteria: **Protocol**, **Source/Destination IP Address** and **Subnet Mask**, and **Source/Destination Port**.

Click on the **Add/Apply** button to add and apply settings.

Note: This section only applies when the Firewall is enabled.

WIRELESS FILTER

This page adds a MAC address filter to deny or allow special WLAN devices connected to the router.

To access the **WIRELESS FILTER** setting window, click on the **Wireless Filter** button in the **ADVANCED** directory.

ADD WIRELESS FILTER

Select the **Wireless Filter Policy** as **Disabled** to disable this filter

Select the **Wireless Filter Policy** as **Deny All** to filter out all wireless MAC address besides the MAC addresses in the Wireless MAC Filter lists.

Select the **Wireless Filter Policy** as **Allow All** to filter out all wireless MAC address in the Wireless MAC Filter lists.

Enter the **Filter name** and the **Wireless MAC Address**. Click on the **Add/Apply** button to add in the wireless MAC filter list.

DNS SETUP

The Router can be configured to relay DNS settings from your ISP or another available service to workstations on your LAN. When using DNS relay, the Router will accept DNS requests from hosts on the LAN and forward them to the ISP's, or alternative DNS servers. DNS relay can use auto discovery or the DNS IP address can be manually entered by the user. Alternatively, you may also disable the DNS relay and configure hosts on your LAN to use DNS servers directly. Most users, who are using the Router for DHCP service on the LAN and are using DNS servers on the ISP's network, should check **Obtain DNS server address automatically** check box.

The Router supports DDNS (Dynamic Domain Name Service). The Dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, allowing access to a specified host from various locations on the Internet. This is enabled to allow remote access to a host by clicking on a hyperlinked URL in the form hostname.dyndns.org, Many ISPs assign public IP addresses using DHCP, and this can make it difficult to locate a specific host on the LAN using standard DNS. If for example you are running a public web server or VPN server on your LAN, this ensures that the host can be located from the Internet if the public IP address changes. DDNS requires that an account be setup with one of the supported DDNS service providers (DyndDNS.org or TZO).

To access the **DNS SETUP** setting window, click on the **DNS Setup** button in the **ADVANCED** directory.

DNS SERVER CONFIGURATION

If you are using the Router for DHCP service on the LAN and are using DNS servers on the ISP's network, check **Obtain DNS server address automatically** box.

If you have DNS IP addresses provided by your ISP, enter these IP addresses in the available entry fields for the **Primary DNS Server** and the **Secondary DNS Server**.

DDNS CONFIGURATION

Check the **Enable Dynamic DNS** check box.

Select DDNS Service provider from the **Server Address** drop-down menu and enter your account data.

After configure the DNS settings as desired, click on the **Apply Settings** button to apply settings.

Server Address:	Select one of the DDNS registration organizations form those listed in the pull-down menu. Available servers include DynDns.org and Dlinkddns.com.
Host Name:	Enter the Host Name that you registered with your DDNS service provider.
Username:	Enter the Username for your DDNS account.
Password:	Enter the Password for your DDNS account.

FIREWALL & DMZ

The **Firewall & DMZ** window allows the Router to enforce specific predefined policies intended to protect against certain common types of attacks. There are two general types of protection (DoS, Port Scan) that can be enabled on the Router, as well as filtering for specific packet types sometimes used by hackers.

Since some applications are not compatible with NAT, the Router supports use of a DMZ IP address for a single host on the LAN. This IP address is not protected by NAT and will therefore be visible to agents on the Internet with the right type of software. Keep in mind that any client PC in the DMZ will be exposed to various types of security risks. If you use the DMZ, take measures (such as client-based virus protection) to protect the remaining client PCs on your LAN from possible contamination through the DMZ.

To access the **FIREWALL & DMZ** setting window, click on the **Firewall & DMZ** button under the **ADVANCED** tab.

FIREWALL SETTINGS

SPI: SPI (Stateful Packet Inspection) is a firewall feature that checks the state of network connections. Only legitimate packets are allowed to pass through.

DoS and Port Scan Protection: A DoS (denial-of-service) attack is characterized by an explicit attempt by attackers to prevent legitimate users of a service from using that service. Examples include: attempts to "flood" a network, thereby preventing legitimate network traffic, attempts to disrupt connections between two machines, thereby preventing access to a service, attempts to prevent a particular individual from accessing a service, or, attempts to disrupt service to a specific system or person.

Port scan protection is designed to block attempts to discover vulnerable ports or services that might be exploited in an attack from the WAN.

DMZ SETTING
Check the **Enable DMZ** check box and type the IP Address of the server or device on your LAN in the **DMZ IP Address** box.

DMZ SETTING

The DMZ (Demilitarized Zone) option lets you set a single computer on your network outside of the router. If you have a computer that cannot run Internet applications successfully from behind the router, then you can place the computer into the DMZ for unrestricted Internet access.

Note: Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.

Enable DMZ : ☐

DMZ IP Address : [   ] [<<]
[Computer Name   ▼]

APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION
Check the relevant ALG options as required.

Click on the **Apply Settings** button to apply settings**.**

APPLICATION LEVEL GATEWAY (ALG) CONFIGURATION

PPTP : ☐
IPSec (VPN Passthrough) : ☐
RTSP (Online Video Streaming) : ☐
Windows/MSN Messenger : ☐
FTP : ☐
H.323 (Video Conferencing) : ☐
SIP : ☐
Wake-On-LAN : ☐
MMS : ☐

[Apply Settings] [Cancel]

ADVANCED INTERNET

The **ADVANCED INTERNET** settings allow you to choose which ADSL modulation settings your modem router will support. D-Link does not recommend changing these settings unless directed to do so by your ISP.

To access the **ADVANCED INTERNET** setting window, click on the **Advanced Internet** button in the **ADVANCED** directory.

ADVANCED ADSL SETTINGS
The **Modulation Type** drop-down menu allows the user to select the configuration for ADSL protocols. For most ADSL accounts the default settings (**Auto sense)** will work. This configuration works with all ADSL implementations. Do not change any settings unless you have been instructed.

To make ADSL settings, select the desired items and click on the **Apply Settings** button to apply the settings.

ADVANCED WIRELESS

These options are for users that wish to change the behavior of their 802.11g wireless radio from the standard setting. D-Link does not recommend changing these settings from the factory default. Incorrect settings may impair the performance of your wireless radio. The default settings should provide the best wireless radio performance in most environments.

To access the **ADVANCE WIRELESS** setting window, click on the **Advanced Wireless** button in the **ADVANCED** directory.

ADVANCE WIRELESS SETTINGS

AP Isolation: Enable/Disable AP Isolation. To avoid of the communication between wireless clients.

Band: Select the band of the wireless channel according to the current wireless module ability.

Channel: Select the wireless channel from 1 to 13, or auto for determination automatically.

802.11n/EWC: Disable or enable 802.11n as Auto.

Bandwidth: 20MHZ and 40MHZ selection for 2.4G and 5G bands.

802.11n Rate: Select the desired rate for 802.11n.

802.11n Protection: To enable or disable the function of 802.11n protection.

Support 802.11n Client Only: Enable/Disable the function to allow the access with 802.11n client only.

Multicast Rate: To limit the multicast rate from 1Mbps to 54Mbps.

Basic Rate: Recommend to leave it as default.

Fragmentation Threshold: Maximum frame size. Frame larger than the threshold are fragmented into multiple packets and transmitted. The range is **256~2346** bytes.

RTS Threshold: If a network packet is smaller than the preset RTS threshold size, the RTS/CTS mechanism will not be enabled. The router sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. The range is **1~2347** bytes.

DTIM Interval: Interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the router has buffered broadcast or multicast for associated clients, it sends the next DTIM with a DTIM Interval value. Its clients hear the beacons and awaken to receive the broadcast and multicast

message. The range is **1~255** milliseconds,

Beacon Interval: This value indicates the frequency interval of the beacon. A beacon is a packet broadcast by the router to synchronize the wireless network. The value is **1~65535** milliseconds.

Xpress Technology: Enable this function to extend the connection speed for 802.11n. But client has to support this function as well.

Preamble Type: You can select it as long or short. Recommend to leave it as default setting.

Transmit Power: 5-levels of transmit power are available: 20%, 40%, 60%, 80% and 100%.

Wireless Guest Network: To enable Guest Network allows you to access this wireless network without any encryption for normal guest.

Guest SSID When you are browsing for available wireless networks, SSID is the name that will appear in the list. Guess SSID is a multi-SSID feature.

ADVANCED LAN

The **ADVANCED LAN** options are for users that wish to change the LAN settings. D-Link does not recommend changing these settings from factory default. Changing these settings may affect the behavior of your network.

UPnP is used for much popular Audio Visual software. It allows the auto discovery of your device on the network. If you feel that UPnP is a security concern we provide you with the option to disable it here. Block ICMP Ping should be enabled so that the router does not respond to malicious Internet requests. Multicast streams are used by advance network functions like IPTV and distributed by your ISP.

To access the **ADVANCED LAN** setting window, click on the **Advanced LAN** button in the **ADVANCED** directory.

UPNP
Check the **Enable UPnP** box to enable the UPnP function.

BLOCK ICMP PING
Check the **Enable WAN Ping Respond** box and select **Allow all** or **Deny all** respond or block the ICMP Ping from WAN side.

MULTICAST STREAMS
Check the **Enable Multicast Streams** box to allow the multicast packets received from WAN to LAN.

Click on the **Apply Settings** button to apply settings.

SNMP SETUP

Simple Network Management Protocol is a standard for inter-network and intra-network management. Please contact your ISP for all necessary information before configuring SNMP.

To access the **SNMP SETUP** setting window, click on the **SNMP SETUP** button under the **ADVANCED** tab.

SNMP SETUP SETTINGS

Click the check box to Enable SNMP Agent. Enter all data provided by your ISP.

DSL-2740B	SETUP	ADVANCED	MAINTENANCE	STATUS

SNMP

Simple Network Management Protocol (SNMP) allows a management application to retrieve statistics and status from the SNMP agent in this device.

Select the desired values and click "Apply" to configure the SNMP options.

SNMP -- CONFIGURATION

Enable SNMP Agent : ☐
Read Community : public
Set Community : private
System Name : Broadcom
System Location : unknown
System Contact : unknown
Trap Manager IP : 0.0.0.0

[Apply] [Cancel]

Port Forwarding
Application Rules
QoS Setup
Outbound Filter
Inbound Filter
Wireless Filter
DNS Setup
Firewall & DMZ
Advanced Internet
Advanced Wireless
Advanced LAN
SNMP Setup
Remote Management
Routing Setup
Wi-Fi Protected Setup
Logout

Internet Online

English ▾

[Reboot]

REMOTE MANAGEMENT

This section allows you to enable/disable remote access to the router from the Internet. Remote access control allows you to configure access via specific services. Most users will not need to change any of these settings.

To access the **REMOTE MANAGEMENT** setting window, click on the **Remote Management** button under the **ADVANCED** tab.

REMOTE MANAGEMENT SETTINGS

Check the **Enable Remote Management** check box to enable the remote management.

Input the **Remote Admin Port** listened by the web UI for the remote PC to browse.

Select the **Remote Admin Inbound Filter** to filter the remote PCs who want to use remote management.

REMOTE ACCESS CONTROL

Select the management services which you want to enable/disable on your LAN/WAN interface.

Click on the **Apply Settings** button to apply settings.

Notice: If you disable HTTP service, you'll not be able to access the router's configuration window permanently.

ROUTING SETUP

The **Static Route** and **RIP** type routing configurations can be performed here

To access the **ROUTING SETUP** setting window, click on the **Routing Setup** button under the **ADVANCE** tab.

STATIC ROUTE

Enter the destination network address, subnet mask, gateway AND/OR available WAN interface then click "**Apply**" to add the entry to the routing table.

RIP

To activate RIP service, select the desired RIP version and operation, followed by placing a check in the 'Enabled' checkbox for the interface. To stop RIP service, uncheck the 'Enable' checkbox for the interface. Click the '**Save/Apply**' button to save the configuration and to start or stop RIP.

NOTE: RIP cannot be configured on the WAN interface which has NAT enabled (such as PPPoE).

DSL-2740B	SETUP	ADVANCED	MAINTENANCE	STATUS

Port Forwarding
Application Rules
QoS Setup
Outbound Filter
Inbound Filter
Wireless Filter
DNS Setup
Firewall & DMZ
Advanced Internet
Advanced Wireless
Advanced LAN
SNMP Setup
Remote Management
Routing Setup
Wi-Fi Protected Setup
Logout

ROUTING -- STATIC ROUTE

Enter the destination network address, subnet mask, gateway AND/OR available WAN interface then click "Apply" to add the entry to the routing table.

A maximum 32 entries can be configured

Allows you to configure RIP (Routing Information Protocol). To activate RIP for the device, select the 'Enabled' radio button for Global RIP Mode. To configure an individual interface, select the desired RIP version and operation, followed by placing a check in the 'Enabled' checkbox for the interface. Click the 'Apply' button to save the configuration, and to start or stop RIP based on the Global RIP mode selected.

ROUTING -- STATIC ROUTE

Destination	Subnet Mask	Gateway	Interface

[Add] [Edit] [Delete]

ROUTING -- RIP CONFIGURATION

Interface	VPI/VCI	Version	Operation	Enabled

[Apply] [Cancel]

Internet Online

English

Reboot

WI-FI PROTECTED SETUP

Wi-Fi Protected Setup is a standard for easy and secure establishment of a wireless home network.

To access the **WI-FI Protected Setup** Configuration window, click on the **WI-FI Protected Setup** button under the **ADVANCED** tab.

WI-FI Protected Setup
Check the **Enable** checkbox to activate Wi-Fi Protected Setup service.

Check **Lock Wireless Settings** checkbox to let user keep their wireless settings like SSID, Security Mode and key.

Current PIN textbox shows the PIN code used currently. User can use a new PIN code by clicking **Generate New PIN** button.

Click **Add Wireless Device with WPS** button will bring you to the WPS wizard. Please refer to page 33.

Click the **Apply** button to save and apply your settings.

MAINTENANCE

Click on the **MAINTENANCE** tab to reveal the window buttons for various functions located in this directory. The **PASSWORD** window is the first item in the **MAINTENANCE** directory.

PASSWORD

The factory default password of this router is 'admin'. To help secure your network, D-Link recommends that you should choose a new password. Please make sure to choose a password you can remember or write it down and keep in a safe and separate location for future reference. If you forget your device password, the only solution is to reset your router to factory default settings and you will loose all your device configuration settings.

To access the **PASSWORD** setting window, click on the **Password** button under the **MAINTENANCE** tab.

SET PASSWORD (OPTIONAL)
To change password, enter the old/new password. Click on the **Apply Settings** button to apply settings.

CAPTCHA SETTING

CAPTCHA (**C**ompletely **A**utomated **P**ublic **T**uring test to tell **C**omputers and **H**uman **A**part) is a graphical password challenge-response test used in computing to ensure that the response is not generated by a computer. This page allows you to enable, or disable the CAPTCHA feature in your log in page. If you want to enhance your router security, you should enable the feature. Otherwise you could disable it if you could not recognize the authenticate picture.

To access the **CAPTCHA SETTING** setting window, click on the **CAPTCHA Setting** button under the **MAINTENANCE** tab.

CAPTCHA SETTING
Click **Enable CAPTCHA** check box to enable this feature.

Click **Apply Settings** button to apply your setting.

SAVE/RESTORE SETTINGS

Once the router is configured you can save the configuration settings to a configuration file on your hard drive. You also have the option to load configuration settings, or restore the factory default settings.

To access the **SAVE/RESTORE SETTINGS** setting window, click on the **Save/Restore Settings** button under the **MAINTENANCE** tab.

SAVE/RESTORE CONFIGURATION
Click on the **Save** button to Save Settings to Local Hard Drive. You will be prompted to select a location on your computer to put the file. You may name the configuration file anything you like.

Click on the **Browse** button to browse to the configuration file in the PC and click on the **Update Settings** button to load settings from local hard drive. Confirm that you want to load the file when prompted and the process will complete automatically. The Router will reboot and begin operating with the configuration settings that have just been loaded.

To reset the Router to its factory default settings, click on the **Restore Device** button. You will be prompted to confirm your decision to reset the Router. The Router will reboot with the factory default settings including IP settings (192.168.1.1) and Administrator password (admin).

FIRMWARE UPDATE

Use the **FIRMWARE UPGRADE** window to load the latest firmware for the device. Note that the device configuration settings may return to the factory default settings, so make sure you first save the configuration settings with the **SAVE/RESTORE SETTINGS** window described above.

To access the **FIRMWARE UPGRADE** setting window, click on the **Firmware Update** button under the **MAINTENANCE** tab.

FIRMWARE UPGRADE
To upgrade firmware, click on the **Browse…** button to search for the file and then click on the **Upload** button to begin copying the file. The Router will load the file and restart automatically.

Notice Performing a Firmware Upgrade can sometimes change the configuration settings. Be sure to back-up the Router's configuration settings before upgrading the firmware.

DIAGNOSTICS

This page shows the result of your router's self diagnostic and connection test results. The Internet connectivity status will only show **PASS** if you have correctly configured your Internet connection and your router is currently online.

To access the **DIAGNOSTICS** setting window, click on the **Diagnostics** button under the **MAINTENANCE** tab.

INTERNET CONNECTIVITY CHECK
Click on the **Test** button to run the diagnostics again.

Notice: The **Diagnostic Test** window is used to test connectivity of the Router. A Ping test may be done through the local or external interface to test connectivity to known IP addresses. The diagnostics feature executes a series of test on your system software and hardware connections. Use this window when working with your ISP to troubleshoot problems.

SYSTEM LOG

The system log displays chronological event log data. The event log can be read from local host or sent to a System Log server. The available event severity levels are: **Emergency, Alert, Critical, Error, Warning, Notice, Informational and Debugging**.

To access the **SYSTEM LOG** setting window, click on the **System Log** button under the **MAINTENANCE** tab.

REMOTE LOG SETTING

Click on the **Log Enable** check-box and select **Log/Display Level** from the drop- down menu.

Select display mode from the **Mode** drop-down menu; enter the **Server IP Address** and **Server UDP Port** number if **Both/Remote** Mode is selected.

DSL-2740B	SETUP	ADVANCED	MAINTENANCE	STATUS

Password	**SYSTEM LOG**
CAPTCHA Setting	The system Log allows you to configure local, remote and email logging, and to view the logs that have been created.
Save/Restore Settings	
Firmware Update	**REMOTE LOG SETTING**
Diagnostics	Log Enable: ☐
System Log	Log Level: Debugging
Logout	Display Level: Error
Internet Online	Mode: Local
	Server IP Address:
	Server UDP Port:

Log Level: All events above or equal to the selected level will be logged.

Display Level: All logged events above or equal to the selected level will be displayed.

Mode: Display mode of system log. Local: Display on local host only. Remote: Send log file to remote system log server only

Server IP Address: IP address of the remote system log server

Server UDP Port: UDP port number of the remote system log server

ENABLE EMAIL NOTIFICATION

Click on the **Enable EMAIL Notification** check-box to enable the E-mail alarm system log.

ENABLE EMAIL NOTIFICATION

Enable EMAIL Notification: ☐

EMAIL SETTINGS

Set the E-mail address messages to receive the E-mail alarm system log.

EMAIL SETTINGS

From MAIL Address:	
To MAIL Address:	
SMTP Server Address:	
Enable Authentication:	☐
Account Name:	
Account Password:	
Verify Password:	

EMAIL LOG WHEN FULL

Click on the **On Log Full** check-box to let the system send the E-mail alarm message when the local log is full.

EMAIL LOG WHEN FULL

On Log Full: ☐

VIEW SYSTEM LOG

The table lists the system log.

Click on the **Apply Settings** button to apply your settings.

VIEW SYSTEM LOG

Date/Time	Facility	Severity	Message
Jan 1 06:34:16	user	crit	kernel: eth0 Link UP.
Jan 1 06:34:16	user	crit	kernel: ADSL G.994 training
Jan 1 06:34:16	user	crit	kernel: ADSL G.992 started
Jan 1 06:34:16	user	crit	kernel: alysis
Jan 1 06:34:16	user	crit	kernel: ADSL G.992 message exchange
Jan 1 06:34:16	user	crit	kernel: ADSL link up, fast, us=800, ds=3808

[Apply Settings]   [Cancel]

STATUS

Click on the **STATUS** tab to reveal the window buttons for various functions located in this directory. The **DEVICE STATUS** window is the first item in the **STATUS** directory. Use these windows to view system information and monitor performance.

DEVICE STATUS

The **Device Info** page displays a summary overview of your router status, including: Device software version and summary of your Internet configuration (both wireless and Ethernet status).

To access the **DEVICE STATUS** setting window, click on the **Device Info** button in the **STATUS** directory.

GENERAL

This window displays current system time and the firmware version.

INTERNET INFO
This window displays WAN information including IP address, Default Gateway, Primary/Secondary DNS Server.

INTERNET INFO

Internet Connection: [pppoe_atm0_1 ▼]

Internet Connection Status:	CONNECTED
Internet Connection Up Time	0 days 0 hours 15 minutes 39 seconds
Default Gateway:	ppp0_1
Preferred DNS Server:	168.95.1.1
Alternate DNS Server:	168.95.192.1
Downstream Line Rate (Kbps):	2046
Upstream Line Rate (Kbps):	509

Interface	Service Name	Link Type	IGMP	QoS	Status	IP Address
ppp0_1	pppoe_atm0_1	PPPoE	Disabled	Enabled	Connected	10.67.15.11

WIRELESS LAN
This window displays WLAN information including Radio status, MAC address, SSID, Channel, and Security Type.

WIRELESS LAN

Wireless Radio : ON
MAC Address : 00:19:5B:42:93:4B
Network NAME(SSID) : dlink
Channel : 6
Security Type : open

LAN
This window displays LAN information including MAC address, IP address, Mask, and DHCP Server.

LAN

MAC Address : 00:03:41:38:de:13
IP Address : 192.168.1.1
Subnet Mask : 255.255.255.0
DHCP Server : ON

CONNECTED CLIENTS

This page shows all the currently connected wireless and LAN computers or PCs.

To access the **CONNECTED CLIENTS** setting window, click on the **Connected Clients** button in the **STATUS** directory.

CONNECTED WIRELESS CLIENTS
This window displays authenticated wireless stations and their status.

CONNECTED LAN CLIENTS
This window displays all the client devices which have obtained IP addresses from the router.

BLOCKED MAC ADDRESS
This window displays all the blocked devices MAC address.

STATISTICS

This page displays your router network and data transfer statistics and is helpful for D-Link technicians to assist you in identifying if your router is functioning properly. The information provided is primarily informative and does not affect the function of your router.

To access the **STATISTICS** setting window, click on the **Statistics** button in the **STATUS** directory.

WAN STATUS
This window displays WAN information

LAN STATISTICS
This window displays LAN information.

ADSL STATISTICS
This window displays ADSL information including Link Rate, SNR, and some Error Counters.

ADSL STATISTICS

Mode:	ADSL_Modulation_All
Traffic Type:	ATM
Status:	Up
Link Power State:	L0

	Downstream	Upstream
Line Coding(Trellis):	On	On
SNR Margin (0.1 dB):	334	266
Attenuation (0.1 dB):	0	0
Output Power (0.1 dBm):	-67	84
Attainable Rate (Kbps):	29307	1441

	Path 0		Path 1	
	Downstream	Upstream	Downstream	Upstream
Rate (Kbps):	2046	509	0	0
K (number of bytes in DMT frame):	0	0	0	0
R (number of check bytes in RS code word):	0	0	0	0
S (RS code word size in DMT frame):	0.50	0.00	0.0	0.0
D (interleaver depth):	192	4	0	0
Delay (msec):	3.95	3.20	0.0	0.0
INP (DMT symbol):	5.83	1.60	0.0	0.0
Super Frames:	216546	208434	0	0
Super Frame Errors:	0	0	0	0
RS Words:	169772590	81338	0	0
RS Correctable Errors:	0	0	0	0
RS Uncorrectable Errors:	0	0	0	0
HEC Errors:	0	0	0	0
OCD Errors:	0	0	0	0
LCD Errors:	0	0	0	0
Total Cells:	16888723	800781233	0	0
Data Cells:	129098	11867618	0	0
Bit Errors:	0	11971	0	0
Total ES:	0	89		
Total SES:	0	86		
Total UAS:	72	629310		

[ADSL BER Test]   [Reset Statistics]

ROUTING INFO

To access the **ROUTING INFO** setting window, click on the **Routing Info** button in the **STATUS** directory.

ROUTING TABLE LIST
It shows the static routing table which include destination, subnet mask and gateway.

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DSL-2760U. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

1. Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link router (192.168.1.1 for example), you are not connecting to a website on the Internet or have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself.
Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
  - Internet Explorer 6.0 or higher
  - Firefox 1.5 or higher

- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.

- Disable any internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

- Configure your Internet settings:
    - Go to **Start > Settings > Control Panel**. Double-click on the **Internet Options** Icon. From the **Security** tab, click on the button to restore the settings to their defaults.
    - Click on the **Connection** tab and set the dial-up option to Never Dial a Connection. Click on the LAN Settings button. Make sure nothing is checked. Click on the **OK**.
    - Go to the **Advanced** tab and click on the button to restore these settings to their defaults. Click on the **OK** button three times.
    - Close your web browser (if open) and open it.

- Access the web management. Open your web browser and enter the IP address of your D-Link router in the address bar. This should open the login page for the web management.

- If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

2. What can I do if I forgot my password?

If you forgot your password, you must reset your router. Unfortunately this process will change all your settings back to the factory defaults.

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process.

Wait about 30 seconds to access the router. The default IP address is 192.168.1.1. When logging in, type in the default User Name "admin," and the default Password "admin" then click on the OK button to access the web-based manager.

Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to securely access the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A Wireless Router is a device used to provide this link.

What is Wireless?
Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly, so you have the freedom to connect computers anywhere in your home or office network.

Why D-Link Wireless?
D-Link is the worldwide leader and award winning designer, developer, and manufacturer of networking products. D-Link delivers the performance you need at a price you can afford. D-Link has all the products you need to build your network.

How does wireless work?
Wireless works similar to how cordless phone work, through radio signals to transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networks Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

Wireless Local Area Network (WLAN)
In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has an hidden antenna attached, which allows it to transmit data back and forth over radio signals. With an indoor access point as seen in the picture, the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, college and high school campuses, airports, golf courses, and many other outdoor venues.

Wireless Personal Area Network (WPAN)
Bluetooth is the industry standard wireless technology used for WPAN. Bluetooth devices in WPAN operate in a range up to 30 feet away. Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power which makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.

Who uses wireless?
Wireless technology as become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it.

Home
- Gives everyone at home broadband access
- Surf the web, check email, instant message, download multimedia files.
- Gets rid of the cables around the house
- Simple and easy to use

Small Office and Home Office
- Stay on top of everything at home as you would at the office
- Remotely access your office network from home
- Share the Internet connection and printer with multiple computers
- No need to dedicate office space

Where is wireless used?
Wireless technology is expanding everywhere not just at home or office. People like the freedom of mobility and it's becoming so popular that more and more public facilities now provide wireless access to attract people. The wireless connection in public places is usually called "hotspots".

Using a D-Link Cardbus Adapter with your laptop, you can access the hotspot to connect to Internet from remote locations like: Airports, Hotels, Coffee Shops, Libraries, Restaurants, and Convention Centers.

Wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network.

Tips
Here are a few things to keep in mind, when you install a wireless network.

Centralize your router or Access Point
Make sure you place the router/access point in a centralized location within your network for the best performance. Try to place the router/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range.

Eliminate Interference
Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the router/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency.

Security
Don't let you next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA security feature on the router. Refer to product manual for detail information on how to set it up.

Wireless Modes
There are basically two modes of networking:
- **Infrastructure** – All wireless clients will connect to an access point or wireless router.
- **Ad-Hoc** – Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more D-Link wireless network adapters (for example DWA-645 Rangebooster N 650 Draft 801.11n Wireless PCI Adapter or DWA-142 Rangebooster N Draft 802.11n Wireless USB Adapter.).

An Infrastructure network contains an Access Point or wireless router. All the wireless devices, or clients, will connect to the wireless router or access point.

An Ad-Hoc network contains only clients, such as laptops with wireless cardbus adapters. All the adapters must be in Ad-Hoc mode to connect.

Networking Basics

Check your IP address

After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start** > **Run**. In the run box type **cmd** and click on the **OK**.

At the prompt, type **ipconfig** and press **Enter**.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

If you are connecting to a wireless network at a hotspot (e.g. hotel, coffee shop, airport), please contact an employee or administrator to verify their wireless network settings.
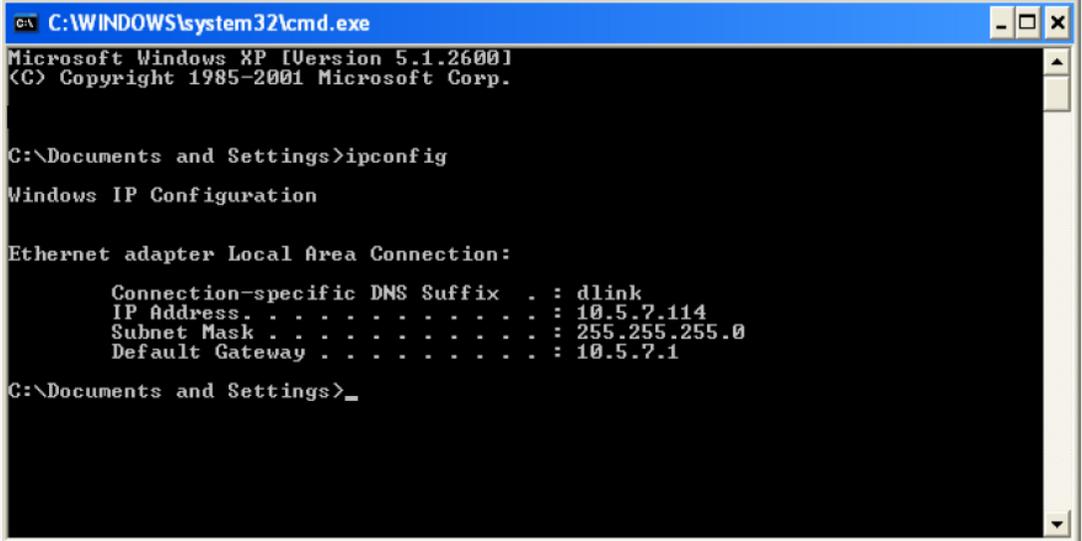
```
C:\WINDOWS\system32\cmd.exe

Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.


C:\Documents and Settings>ipconfig

Windows IP Configuration


Ethernet adapter Local Area Connection:

        Connection-specific DNS Suffix  . : dlink
        IP Address. . . . . . . . . . . . : 10.5.7.114
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . . : 10.5.7.1

C:\Documents and Settings>_
```

Statically Assign an IP address

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

Step 1
Windows® XP - Click on **Start** > **Control Panel** > **Network Connections**.
Windows® 2000 - From the desktop, right-click on the **My Network Places** > **Properties**.

Step 2
Right-click on the **Local Area Connection** which represents your D-Link network adapter and select **Properties**.

Step 3
Highlight **Internet Protocol (TCP/IP)** and click on the **Properties**.

Step 4
Click on the **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.
Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your router (192.168.0.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.0.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

Step 5
Click on the **OK** twice to save your settings.
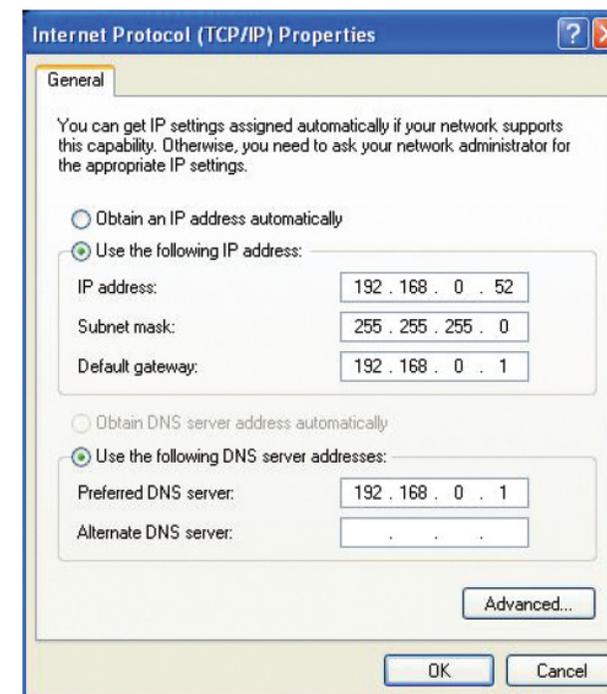
Technical Specifications

ADSL Standards
- ANSI T1.413 Issue 2
- ITU G.992.1 (G.dmt) Annex A
- ITU G.992.2 (G.lite) Annex A
- ITU G.994.1 (G.hs)
- ITU G.992.5 Annex A

ADSL2 Standards
- ITU G.992.3 (G.dmt.bis) Annex A
- ITU G.992.4 (G.lite.bis) Annex A

Protocols
- IEEE 802.1d Spanning Tree
- TCP/UDP
- ARP
- RARP
- ICMP
- RFC1058 RIP v1
- RFC1213 SNMP v1 & v2c
- RFC1334 PAP
- RFC1389 RIP v2
- RFC1577 Classical IP over ATM
- RFC1483/2684 Multiprotocol Encapsulation over ATM Adaptation Layer 5 (AAL5)
- RFC1661 Point to Point Protocol
- RFC1994 CHAP
- RFC2131 DHCP Client / DHCP Server
- RFC2364 PPP over ATM
- RFC2516 PPP over Ethernet

Data Transfer Rate
- G.dmt full rate downstream: up to 8 Mbps / upstream: up to 1 Mbps
- G.lite: ADSL downstream up to 1.5 Mbps / upstream up to 512 Kbps
- G.dmt.bis full rate downstream: up to 12 Mbps / upstream: up to 12 Mbps
- ADSL full rate downstream: up to 24 Mbps / upstream: up to 1 Mbps

Media Interface
- ADSL interface: RJ-11 connector for connection to 24/26 AWG twisted pair telephone line
- LAN interface: RJ-45 port for 10/100BASE-T Ethernet connection

WIRELESS LAN
- 802.11b/g standards
- 802.11n draft
- Wireless speed: up to 54Mbps (802.11G), 270Mbps (802.11n)
- Frequency range: 2.4 GHz to 2.484G Hz
- WEP data encryption
- WPA/WPA2 (Wi-Fi Protected Access) security
- Multiple SSID
- 802.11e Wireless QoS (WMM/WME)
- MAC address-based access control

* Maximum wireless signal rate derived from IEEE Standard 802.11g and Draft 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

Contacting Technical Support

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

If you require product support, we encourage you to browse our FAQ section on the Web Site before contacting the Support line. We have many FAQ's which we hope will provide you a speedy resolution for your problem.

For Customers within the United Kingdom & Ireland:

D-Link UK & Ireland Technical Support over the Internet:

http://www.dlink.co.uk

ftp://ftp.dlink.co.uk

D-Link UK & Ireland Technical Support over the Telephone:

08456 12 0003 (United Kingdom)

+1890 886 899 (Ireland)

Lines Open

8.00am-10.00pm Mon-Fri

10.00am-7.00pm Sat & Sun

For Customers within Canada:

D-Link Canada Technical Support over the Telephone:

1-800-361-5265 (Canada)

Mon. to Fri. 7:30AM to 9:00PM EST

D-Link Canada Technical Support over the Internet:

http://support.dlink.ca

email: support@dlink.ca