D-Link®



User Manual

AC2600 MU-MIMO Wi-Fi Router

Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Revision Date Description		
1.00	July 7, 2017	Initial release for revision A1	

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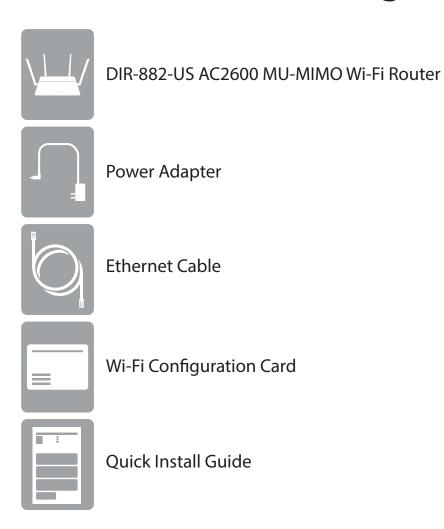
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Package Contents



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

Note: Using a power supply with a different voltage rating than the one included with the DIR-882 will cause damage and void the warranty for this product.

Minimum Requirements

Network Requirements	 An Ethernet-based broadband modem IEEE 802.11ac/n/g/b/a wireless clients 10/100/1000 Ethernet devices
Web-based Configuration Requirements	Computer with the following: • Windows® or macOS operating system • An installed Ethernet adapter or wireless adapter Browser Requirements: • Internet Explorer® 11 or higher • Mozilla® Firefox® • Google Chrome™ • Safari® 7 or higher Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.
QRS Mobile Requirements	For requirements refer to QRS Mobile page at: • iTunes Store (App Store > Utilities > D-Link Systems) • Google Play (Click link to www.dlink.com/qrsmobileapp)

Introduction

Overview

The AC2600 MU-MIMO Wi-Fi Router delivers premium performance for today's most demanding tasks: HD streaming, gaming, and multiple device usage. It comes packed with speeds of up to 2,533 Mbps (800 Mbps in 2.4GHz + 1,733 Mbps in 5GHz), a high-performance dual-core processor, AC SmartBeam technology, Intelligent Quality of Service (QoS) with traffic prioritization, four high-performance external antennas for maximum range, a new user interface, Smart Connect and with an easy setup. The DIR-882 is the perfect combination of performance and ease of use.

Superior data rates, range and reliability

The AC2600 Wi-Fi Router comes with a 4x4 data streams which can support faster Wi-Fi speeds. These streams can be combined through beamforming and MU-MIMO to increase reliability and range. This 4x4 AC router is the latest in AC technology, delivering independent data streams to devices on the network for speeds of up to 2,533 Mbps. The AC2600 helps provide the best overall performance to single devices that require high bandwidth such as video streaming or online gaming.

MU-MIMO Technology

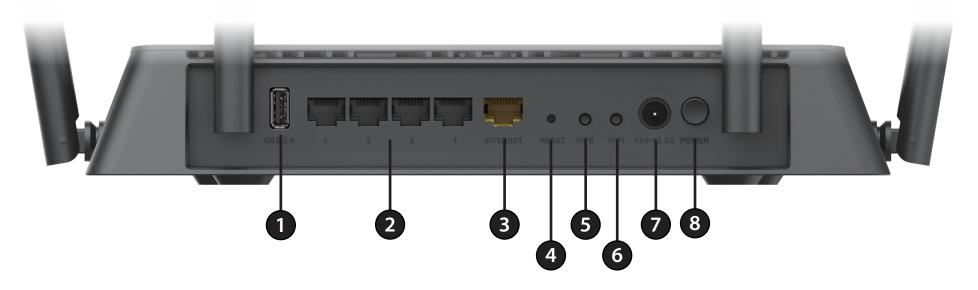
The DIR-882 is designed to support MU-MIMO (Multi-User Multiple Input Multiple Output) technology that allows multiple devices to get high-bandwidth Wi-Fi signal at the same time. You can stream HD media faster and play lag-free gaming. Compared to SU-MIMO (Single-User Multiple Input Multiple Output) technology, MU-MIMO distributes data more efficiently, giving you the fastest Wi-Fi speeds in your home.

160 MHz Support

The DIR-882 is 160 MHz enabled. It doubles the bandwidth, optimizing the intense data transferring. Ideal for 4K HD streaming and online gaming.

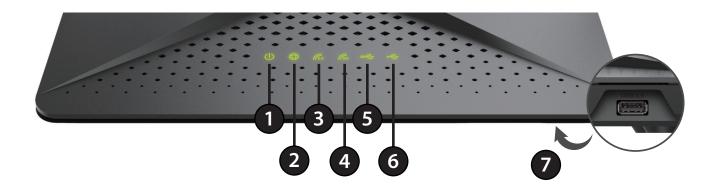
^{*} Maximum wireless signal rate derived from IEEE Standard 802.11ac, 802.11a, 802.11g, and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range. Multi-User MIMO (MU-MIMO) enabled clients needed for optimal performance.

Hardware Overview Back



1	USB 2.0 Port	Connect a USB flash drive to share content throughout your network. Supports USB 2.0 devices
2	LAN Ports (1-4) Connect Ethernet devices such as computers, switches, and game consoles.	
3	Internet Port Connect your broadband modem to this port using an Ethernet cable.	
4	Reset Button	Press and hold the reset button with a paper clip for 10 seconds to reset the router to the factory default settings.
5	WPS Button	Press to start the WPS process.
6	Wi-Fi Button	Press to turn on/off the wireless function.
7	Power Port	Connect the supplied power adapter.
8	Power Button	Press to power the router on and off.

Hardware Overview LED



1	Power LED	A solid light indicates a proper connection to the power supply. The light will be a solid orange during boot up.
2	Internet LED	A solid light indicates connection on the Internet port. If the LED is orange, the router cannot connect to the Internet.
3	Wireless (2.4 GHz) LED	A solid light indicates that the 2.4 GHz wireless band is enabled.
4	Wireless (5 GHz) LED	A solid light indicates that the 5 GHz wireless band is enabled.
5	USB 3.0 LED A solid white light indicates a USB 3.0 device is connected (front port).	
6	USB 2.0 LED	A solid white light indicates a USB 2.0 device is connected (back port).
7	USB 3.0 Port	Connect a USB flash drive to share content throughout your network. Supports USB 3.0 and USB 2.0 devices.

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

- **Users with DSL providers** If you are using a PPPoE connection, you will need your PPPoE user name and password. If you do not have this information, contact your ISP (Internet Service Provider). Do not proceed until you have this information. Also, make sure you disable or uninstall any PPPoE software such as WinPoET, MacPoET, BroadJump, or EnterNet 300 from your computer or you will not be able to connect to the Internet.
- **Users with Cable providers** Make sure you unplug the power to your modem. In some cases, you may need to turn it off for up to five minutes.
- Advanced Users If your ISP provided you with a modem/router combo, you will need to set it to "bridge" mode so the DIR-882 can work properly. For details, contact your ISP or refer to the user manual for your modem/router device.

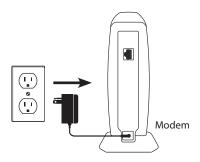
Wireless Installation Considerations

The D-Link wireless router lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind 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:

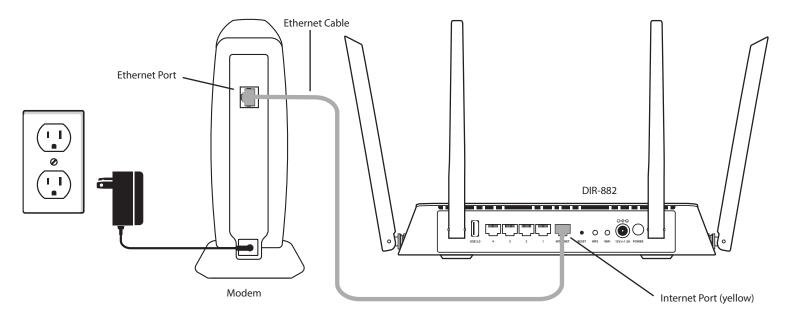
- 1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (0.5 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 2.4 GHz 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 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Manual Setup

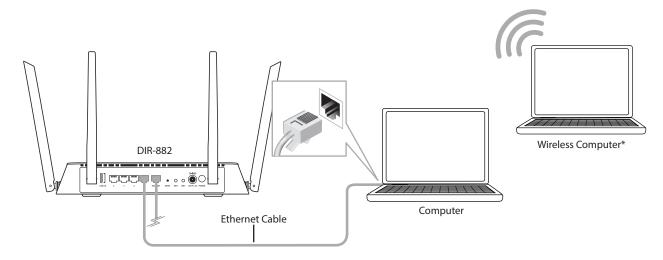
1. Turn off and unplug the power to your cable or DSL modem. This is required.



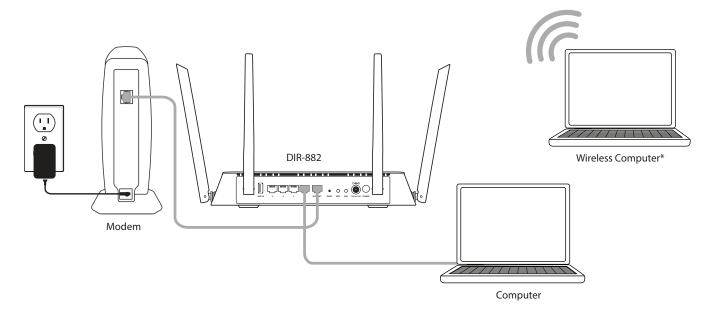
2. Connect an Ethernet cable from the Internet port of the router to the Ethernet port on your cable or DSL modem.



3. Connect another Ethernet cable from the Ethernet port on your computer to one of the LAN ports on the router. You can also connect wirelessly to the router with your computer. Use the supplied Wi-Fi Configuration Card for the Wi-Fi network name (SSID) and Wi-Fi password of the router. Complete steps 4 and 5 before attempting to connect.

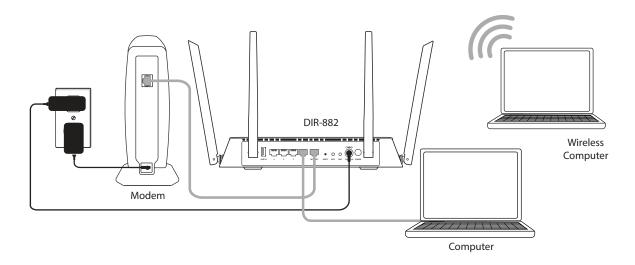


4. Plug the power back into your DSL or cable modem. Please wait about one minute before continuing.



^{*} If you are connecting wirelessly, you may now connect to the router using the supplied Wi-Fi Configuration Card for the Wi-Fi network name (SSID) and Wi-Fi password.

5. Plug the power adapter into your router and connect to an available power outlet or surge protector. If the LED does not light up, press the Power button on the back of the router.



6. After the router has powered up, verify that the LED is lit. Proceed with router configuration.

Configuration

There are several different ways you can configure your router to connect to the Internet and connect to your clients:

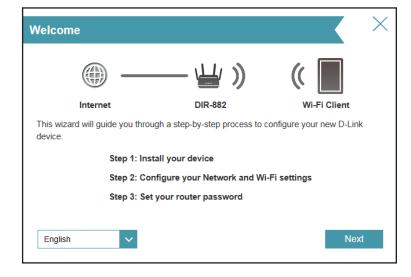
- **D-Link Setup Wizard** This wizard will launch when you log into the router for the first time using your web browser. Refer to page 12.
- QRS Mobile App Use your iPhone, iPad, iPod Touch, or Android device to configure your router. Refer to page 17.
- Manual Setup Log into the router using a web browser and manually configure your router. Refer to page 21

Setup Wizard

If this is your first time configuring the router, open your web browser (e.g., Internet Explorer, Chrome, Firefox, or Safari). This will automatically launch the *Setup Wizard*. If the wizard does not start automatically, you can enter **http://dlinkrouter.local./** or the IP address of the router (**192.168.0.1**).



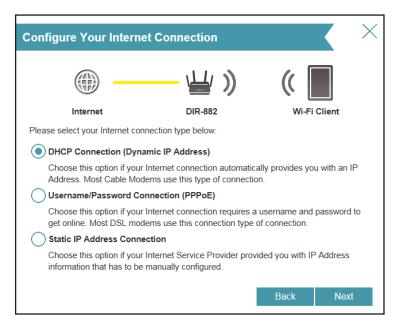
The wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet. When the welcome screen appears, click **Next** to continue. Wait a few moments while your router detects your Internet connection type.



If the router does not detect the type of Internet connection you have, you will see a list of connection types. Select your Internet connection type. This information can be obtained from your ISP (Internet Service Provider).

Select **DHCP Connection (Dynamic IP Address)** if your Internet connection automatically provides you with an IP address. This option is commonly used for cable modem services.

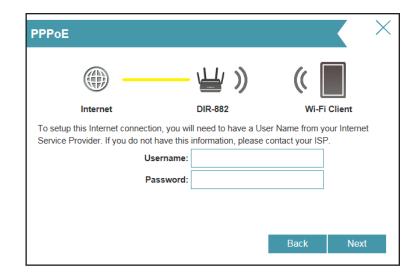
Click **Next** to continue.



If the router detected PPPoE or you selected **Username/Password Connection (PPPoE)**, enter your PPPoE username and password supplied by your ISP.

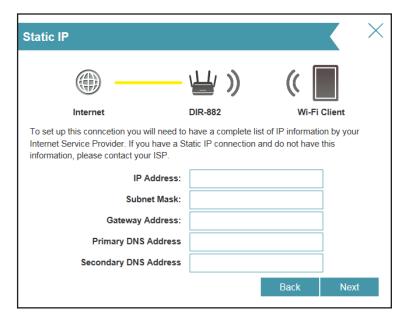
Click **Next** to continue.

Note: Make sure you remove your PPPoE software from your computer. The software is no longer needed and will not work through a router.



If the router detected or you selected **Static IP Address Connection**, enter the IP information and DNS settings supplied by your ISP.

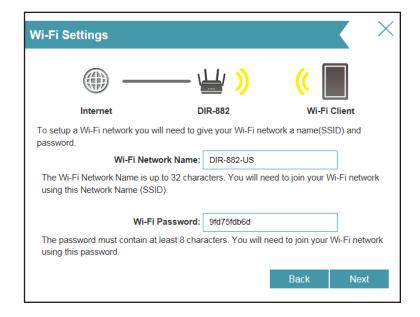
Click **Next** to continue.



For both the 2.4GHz and 5GHz bands, create a Wi-Fi network name (SSID) using up to 32 characters.

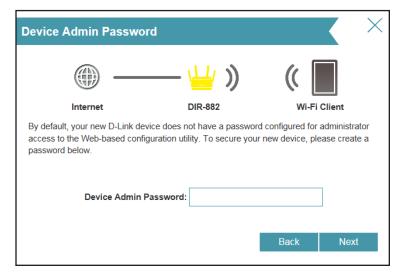
Create a Wi-Fi password (between 8-63 characters). Your wireless devices will need to have this passphrase or key entered to be able to connect to your wireless network.

Click **Next** to continue.



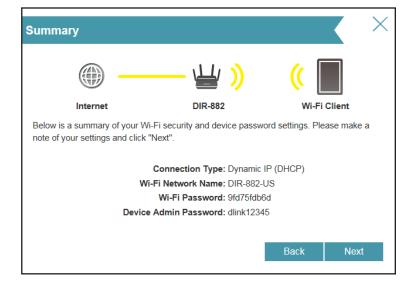
In order to secure your DIR-882, enter a new **Admin Password**. You will be prompted for this password every time you want to use the router's web configuration utility.

Click **Next** to continue.



The Summary window will display your settings. Click **Back** if you find it necessary to make changes. When the settings are correct, make a note of the of them so you can configure your Wi-Fi devices.

Click **Next** to continue.



At the end of the wizard, you will see a final summary of your settings. Click **Finish** to close the wizard.



QRS Mobile App

The QRS Mobile app allows you to install and configure your router from your mobile device.

Step 1

Search for the free **QRS Mobile** app on the App Store or Google Play.



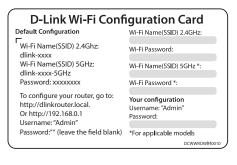




Step 2

Once your app is installed, you may now configure your router. Connect to the router wirelessly by going to your wireless utility on your device. Scan for the Wi-Fi name (SSID) as listed on the supplied info card. Select and then enter your Wi-Fi password.





Step 3

Once you connect to the router, tap on the **QRS Mobile** icon to launch the QRS mobile app from your mobile device.



Step 4

You will see the *Welcome* screen. Tap **Start** to proceed. When the *Operation Mode* screen appears, tap **Next**.





Step 5

At this point, make sure that your router is connected to a modem. Plug one end of the provided Ethernet cable into your DSL or cable modem, and plug the other end into the port marked INTERNET on the DIR-882. Tap **Next** to automatically detect your Internet connection and proceed to the next step.



Step 6

You will be prompted to set up each wireless frequency band; the 2.4GHz band followed by the 5GHz band.

- A. Enter a **Network Name** (SSID) of your choice, or you may leave it unchanged to accept the default SSID. Each wireless band can be assigned its own SSID.
- B. Choose a *Wi-Fi Password* of at least eight characters. You will need to enter this **Password** the first time you connect any device to the router wirelessly.

Tap **Next** to proceed.





Step 7

Enter the **Device Password** (Admin Password) of your choice. Unlike the Wi-Fi password, this password is only required when you need to configure the router. Refer to "Web-based Configuration Utility" on page 21 to learn how this password is used. Tap **Next** to proceed.



Step 8

If you would like to receive notification whenever a new firmware update is available, tap the **Notify me when new firmware is available** check box and tap **Next**.

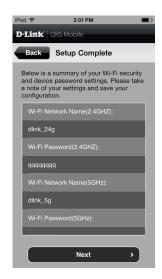
Otherwise, just tap **Next** to proceed.



Step 9

You will see a summary of your settings. If you need to make any changes, tap **Back** to step back through the previous pages.

Otherwise, tap **Next** to complete the setup.

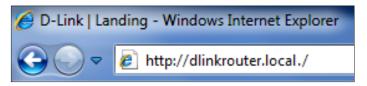




Congratulations, your device has been successfully configured! You may now exit the QRS Mobile app.

Web-based Configuration Utility

Open a web-browser (e.g., Internet Explorer, Chrome, Firefox, or Safari) and enter **http://dlinkrouter.local./** or the IP address of the router **(http://192.168.0.1)**.



Enter your password. If you did not create a password with the *Setup Wizard*, leave the **Admin Password** field blank by default. Click **Log In** to proceed.

Note: If you cannot remember your password and cannot log in, press the reset button (see page 4) to restore the router to its factory default settings.



The router's *Home* page will open, displaying its current connection status.

The bar at the top of the page has quick access to *Settings, Features,* and *Management* functions. You may easily navigate back *Home* at any time.

Note: The system will automatically time-out after a period of inactivity. (You will have to log back in as described above.)



Home

The current status of the router is displayed on the *Home* page in the form of an interactive diagram. You can click on an icon to see information about the selected part of the network at the bottom of the screen.

Internet

The Home page shows whether or not the router is currently connected to the Internet. If disconnected, click on **Click to repair** to launch the *Setup Wizard*. (Refer to "Setup Wizard" on page 12.)



To view details about your Internet connection, click on the **Internet** icon. Click **Release IP Address** to disconnect from the Internet. If you do this and wish to reconnect, click **Renew**.

To reconfigure the Internet settings, refer to "Internet" on page 26.



DIR-882

Click on the **DIR-882** icon to view details about the router and its wireless settings. Here you can see the router's current wireless settings, as well as its MAC address.



To reconfigure the router's network settings, either click **Go to settings** (at the bottom left side of the page), or click **Settings** (at the top of the page) and then **Network** from the drop-down menu that appears. Refer to page 52.

To reconfigure the router's wireless settings, either click **Go to settings** (at the bottom right side of the page), or click **Settings** (at the top of the page) and then **Wireless** from the drop-down menu that appears. Refer to page 49.



Connected Clients

Click on the **Connected Clients** icon to view details about all the clients currently connected to the router, and their corresponding IP addresses.

To edit a client's settings, click the **pencil** icon for the client you would like to edit.



Name: Enter a custom name for this client.

Vendor: Displays the vendor of the device.

IP Address: Enter a specific IP address for this client.

Reserve IP: Enable if you would like to reserve this IP address for this client. Every time this device joins the network, it will receive this IP address.

Parental Enable to block access to your router and then select a schedule you

Control: want the rule to be active from the drop-down menu.

Click **Save** when you are done.



USB Device

Click on the USB Device icon to view details about the currently connected USB device: DLNA media server, FTP server, and Windows File Sharing (SAMBA).

If you have a USB device connected, you can see its name and how much free space it has.

Click **Go to Settings** to take you to the USB Sharing section. Refer to page 54.



Settings Wizard

From the **Settings** menu, you can click **Wizard** to open the *Setup Wizard* and connect to the Internet. This is the same wizard that you launched when you first installed the router.

Internet

From the **Settings** menu on the bar on the top of the page, click **Internet** to configure your Internet connection manually.

My Internet Choose your Internet Connection type from the drop-down menu. Connection is: Depending on the connection type that you select, you may also see additional fields below that require input. For example, when you select PPPoE, you will see fields for *Username* and *Password*.



Click **Advanced Settings...** to expand the list and see all fields for the selected option.

For **Dynamic IP (DHCP)** refer to page 27.

For **Static IP** refer to page 28.

For **PPPoE** refer to page 29.

For **PPTP** refer to page 30.

For **L2TP** refer to page 32.

For **DS-Lite** refer to page 34.

Dynamic IP (DCHP)

Select **Dynamic IP (DHCP)** to obtain IP address information automatically from your Internet Service Provider (ISP). Select this option if your ISP does not provide you with an IP address to use.

Host Name: The **Host Name** is optional but may be required by some ISPs. Leave it blank if you are not sure.

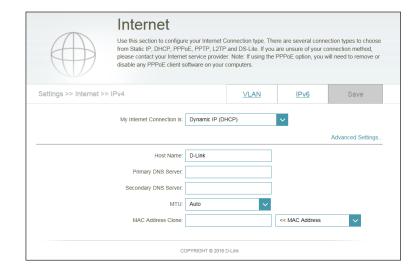
Primary DNS Enter the **Primary DNS Server** IP address assigned by your ISP. This **Server**: address is usually obtained automatically from your ISP.

Secondary DNS Enter the **Secondary DNS Server** IP address assigned by your ISP. This **Server**: address is usually obtained automatically from your ISP.

MTU: Maximum Transmission Unit - by default this field will be set to *Auto*. Select **Manual** if you need to change the MTU for optimal performance with your ISP.

MAC Address The default MAC address is set to the Internet port's physical interface Clone: MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.



Static IP

Select **Static IP** if your IP information is provided by your Internet service provider (ISP). Each IPv4 address must be entered in the appropriate form, known as dot-decimal notation. This means four decimal numbers separated by dots (x.x.x.x).

IP Address: Enter the **IP Address** provided by your ISP.

Subnet Mask: Enter the Subnet Mask provided by your ISP.

Default Enter the **Default Gateway** address provided by your ISP.

Gateway:

Primary DNS Enter the **Primary DNS Server** IP address assigned by your ISP.

Server:

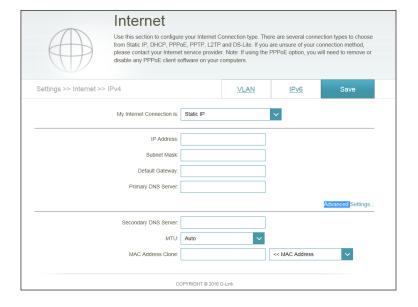
Secondary DNS Enter the Secondary DNS Server IP address assigned by your ISP.

Server:

MTU: Maximum Transmission Unit - by default this field will be set to Auto. Select Manual if you need to change the MTU for optimal performance with your ISP.

MAC Address The default MAC address is set to the Internet port's physical interface Clone: MAC address on the router. You can use drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.



PPPoE

Select **PPPoE** (Point to Point Protocol over Ethernet) if your Internet connection requires you to enter a username and password. This information can be provided by your Internet service provider (ISP). This option is typically used for DSL services.

Username: Enter the **Username** provided by your ISP.

Password: Enter the Password provided by your ISP.

Reconnect Select either **Always on**, **On demand**, or **Manual**.

Mode:

Maximum Idle Enter a maximum idle time during which the Internet connection

Time: is maintained during inactivity. To disable this feature, enable Auto-

reconnect.

Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask,

gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

IP Address: Enter the **IP Address** provided by your ISP (Static IP only).

Service Name: Enter the ISP **Service Name** (optional).

Primary DNS Enter the **Primary DNS Server** IP address assigned by your ISP.

Server:

Secondary DNS Enter the **Secondary DNS Server** IP address assigned by your ISP.

Server:

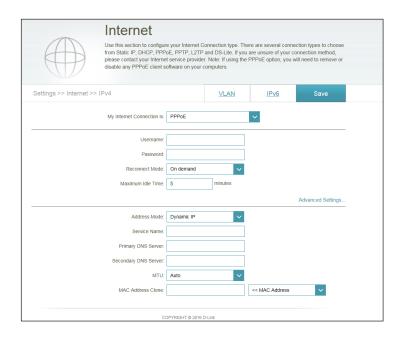
MTU: Maximum Transmission Unit - by default this field will be set to *Auto*.

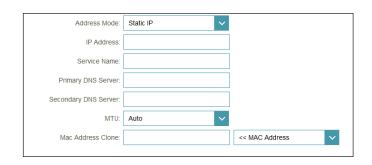
Select Manual if you need to change the MTU for optimal performance.

MAC Address The default MAC address is set to the Internet port's physical interface Clone: MAC address on the router. You can use drop-down menu to replace the

Internet port's MAC address with the MAC address of a connected client.

Click Save when you are done.





PPTP

Choose **PPTP** (Point-to-Point-Tunneling Protocol) if your Internet Service Provider (ISP) uses a PPTP connection. Your Internet service provider (ISP) can provide you with a username and password.

PPTP Server IP Enter the PPTP Server IP Address provided by your ISP.

Address:

Username: Enter the **Username** provided by your ISP.

Password: Enter the Password provided by your ISP.

Reconnect Select either **Always on**, **On demand**, or **Manual**.

Mode:

Maximum Idle Enter a maximum idle time during which the Internet connection

Time: is maintained during inactivity. To disable this feature, enable Auto-

reconnect.

Address Mode: Select Static IP if your ISP assigned you the IP address, subnet mask,

gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

PPTP IP Enter the PPTP IP Address provided by your ISP (for Static IP only).

Address:

PPTP Subnet Enter the **PPTP Subnet Mask** provided by your ISP (for Static IP only).

Mask:

PPTP Gateway Enter the **PPTP Gateway IP Address** provided by your ISP (for Static

IP Address: IP only).

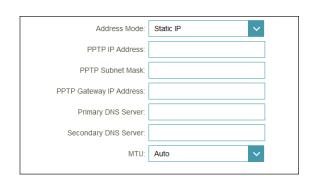
Primary DNS Enter the **Primary DNS Server** IP address assigned by your ISP.

Server:

Secondary DNS Enter the Secondary DNS Server IP address assigned by your ISP.

Server:

Use this section to configure from Static IP, DHCP, PPP, please contact your Internet disable any PPPoE client se	oE, PPTP, L2TP t service provide	and DS-Lite. If your. Note: If using the	are unsure of your c	onnection method,
Settings >> Internet >> IPv4		<u>VLAN</u>	IPv6	Save
My Internet Connection is:	PPTP		~	
PPTP Server:				
Usemame:				
Password:				
Reconnect Mode:	On demand	~		
Maximum Idle Time:	5	minutes		
				Advanced Settings
Address Mode:	Dynamic IP	~		
Primary DNS Server:				
Secondary DNS Server:				
MTU:	Auto	~		



MTU: Maximum Transmission Unit - by default this field will be set to *Auto*. Select **Manual** if you need to change the MTU for optimal performance with your ISP.

Click **Save** when you are done.

L2TP

Choose **L2TP** (Layer 2 Tunneling Protocol) if your Internet Service Provider (ISP) uses a L2TP connection. Your ISP can provide you with a username and password.

L2TP Server IP Enter the **L2TP Server IP Address** provided by your ISP. Address:

Username: Enter the **Username** provided by your ISP.

Password: Enter the Password provided by your ISP.

Reconnect Mode: Select either **Always on**, **On demand**, or **Manual**.

Maximum Idle Enter a maximum idle time during which the Internet connection

Time: is maintained during inactivity. To disable this feature, enable

Auto-reconnect.

Address Mode: Select Static IP if your ISP assigned you the IP address, subnet

mask, gateway, and DNS server addresses. In most cases, select

Dynamic IP.

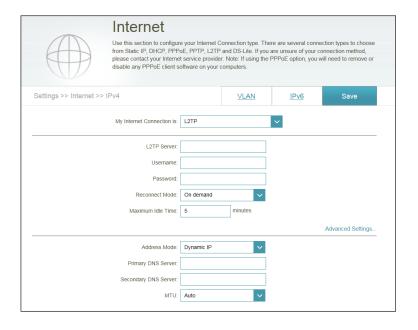
L2TP IP Address: Enter the **L2TP IP Address** provided by your ISP (for Static IP only).

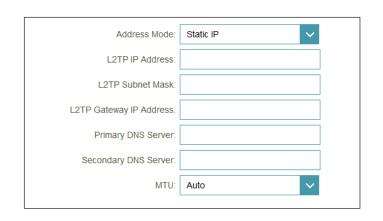
L2TP Subnet Enter the **L2TP Subnet Mask** provided by your ISP (for Static IP **Mask**: only).

L2TP Gateway IP Enter the **L2TP Gateway IP Address** provided by your ISP (for **Address:** Static IP only).

Primary DNS Enter the **Primary DNS Server** IP address assigned by your ISP. **Server**:

Secondary DNS Enter the **Secondary DNS Server IP** address assigned by your ISP. **Server**:





MTU: Maximum Transmission Unit - by default this field will be set to *Auto*. Select **Manual** if you need to change the MTU for optimal performance with your ISP.

Click **Save** when you are done.

DS-Lite

DS-Lite is an IPv6 (Internet Protocol version 6) connection type. DHCPv6 is the IPv6 equivalent of Dynamic Host Configuration Protocol for IPv4.

DS-Lite Select **DS-Lite DHCPv6 Option** to let the router allocate the AFTR **Configuration**: IPv6 address automatically. Select **Manual Configuration** to enter the AFTR IPv6 address manually.

AFTR IPv6 If you selected **Manual Configuration** above, enter the **AFTR IPv6 Address: address** used here.

B4 IPv6 Enter the **B4 IPv4 address** value used here.

Address:

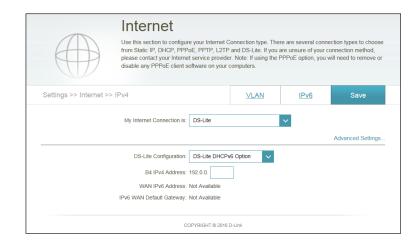
WAN IPv6 Once connected, the WAN IPv6 address will be displayed here.

Address:

IPv6 WAN Once connected, the IPv6 WAN Default Gateway address will be Default displayed here.

Gateway:

Click **Save** when you are done.



IPv6

My Internet Choose your IPv6 Internet Connection type from the drop-down Connection Is: menu. For most of the connection types, after you make a selection you will see additional fields below that require input. The exception is for Local Connectivity Only. For this connection type you must click on Advanced Settings... to see the additional fields below.



Click **Advanced Settings...** to expand the list and see all fields for the selected option.

For **Auto Detection** refer to page 36.

For **Static IPv6** refer to page 37.

For Auto Configuration (SLAAC/DHCPv6) refer to page 39.

For **PPPoE** refer to page 40.

For **IPv6 in IPv4 Tunnel** refer to page 42.

For **6 to 4** refer to page 44.

For **6rd** refer to page 45.

For **Local Connectivity Only** refer to page 47.

Auto Detection

This is a connection method where the ISP assigns your IPv6 address when your router requests one from the ISP's server. Some ISPs require you to change some settings on your side before your router can connect to the IPv6 Internet.

DNS Type: Select **Obtain DNS server address** or **Use the following DNS**.

Primary DNS If you selected **Use the following DNS**, enter the **Primary DNS**

Server: Server address.

Secondary DNS If you selected Use the following DNS, enter the Secondary DNS

Server: Server address.

Enable DHCP-PD: Enable or disable prefix delegation services.

LAN IPv6 Address: If you disabled DHCP-PD, enter the LAN (local) IPv6 address for

the router.

LAN IPv6 Link- Displays the router's LAN IPv6 Link-Local Address.

Local Address:

Enable Automatic Enable or disable the *Automatic IPv6 Address Assignment* feature.

IPv6 Address Assignment:

Enable Automatic Enable or disable Automatic DHCP-PD in LAN services.

DHCP-PD in LAN:

Autoconfiguration Select SLAAC + RDNSS, SLAAC + Stateless DHCP, or Stateful

Type: DHCPv6.

Router Enter the IPv6 address lifetime (in minutes).

Advertisement Lifetime:

Click **Save** when you are done.



Static IPv6

Select **Static IP** if your IPv6 information is provided by your Internet service provider (ISP).

Use Link-Local Enable or disable the Link-Local Address. (If you enable this option,

Address: you can skip the description of the next two fields.)

IPv6 Address: If you disabled Use Link-Local Address, enter the IPv6 Address

supplied by your ISP.

Subnet Prefix If you disabled Use Link-Local Address, enter the Subnet Prefix

Length: Length supplied by your ISP.

Default Gateway: Enter the **Default Gateway** for your IPv6 connection.

Primary DNS Enter the **Primary DNS Server** address.

Server:

Secondary DNS Enter the Secondary DNS Server address.

Server:

LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router.

LAN IPv6 Link- Displays the router's LAN IPv6 Link-Local Address.

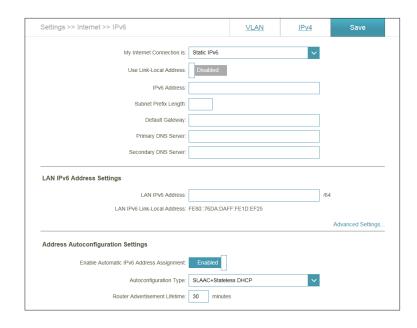
Local Address:

Enable Automatic Enable or disable the *Automatic IPv6 Address Assignment* feature.

IPv6 Address Assignment:

Autoconfiguration Select **SLAAC** + **RDNSS**, **SLAAC** + **Stateless DHCP**, or **Stateful**

Type: DHCPv6.





Router Enter the IPv6 address lifetime (in minutes).

Advertisement
Lifetime:

Click **Save** when you are done.



Auto Configuration

Auto Configuration is a connection method where the ISP assigns your IPv6 address when your router requests one from the ISP's server. Some ISPs require you to change some settings on your side before your router can connect to the IPv6 Internet.

DNS Type: Select either **Obtain DNS server address** or **Use the following**

DNS.

Primary DNS If you selected **Use the following DNS address** above, enter the

Server: Primary DNS Server address.

Secondary DNS If you selected Use the following DNS address above, enter the

Server: Secondary DNS Server address.

Enable DHCP-PD: Enable or disable prefix delegation services.

LAN IPv6 Address: If you disabled DHCP-PD, enter the LAN (local) IPv6 address for

the router.

LAN IPv6 Link- Displays the router's LAN Link-Local Address.

Local Address:

Enable Automatic Enable or disable the Automatic IPv6 Address Assignment

IPv6 Address feature.

Assignment:

Enable Automatic Enable or disable **Automatic DHCP-PD in LAN** services.

DHCP-PD in LAN:

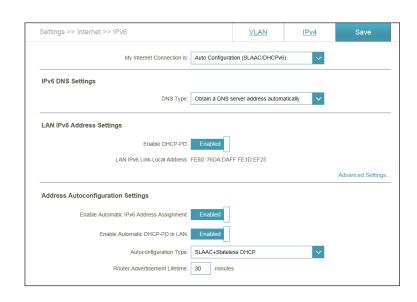
Autoconfiguration Select SLAAC + RDNSS, SLAAC + Stateless DHCP, or Stateful

Type: DHCPv6.

Router Enter the IPv6 address lifetime (in minutes).

Advertisement Lifetime:

Click **Save** when you are done.





PPPoE

Select **PPPoE** (Point-to-Point-Tunneling Protocol) if your Internet connection requires you to enter a username and password. This information can be provided by your Internet service provider (ISP). Required fields will vary, depending on the options you have enabled.

PPPoE Session: Choose **Share with IPv4** to re-use your IPv4 PPPoE username and password, or **Create a new session**.

Username: If you selected **Create a new session** above, enter the PPPoE **Username** provided by your ISP.

Password: If you selected **Create a new session** above, enter the PPPoE **Password** provided by your ISP.

Address Mode: Select **Static IP** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select **Dynamic IP**.

IP Address: Enter the **IP Address** provided by your ISP (for Static IP only).

Service Name: If you selected **Create a new session** above, enter the ISP **Service**

Name (optional).

Reconnect If you selected **Create a new session** above, select either **Always**

Mode: on, On demand, or Manual.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your ISP.

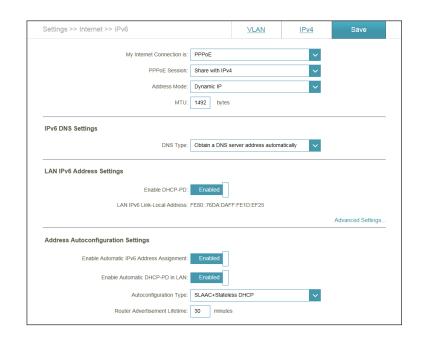
DNS Type: Select either **Obtain DNS server address** or **Use the following DNS**.

Primary DNS If you selected Use the following DNS, enter the Primary DNS

Server: Server address.

Secondary DNS If you selected Use the following DNS, enter the Secondary DNS

Server: Server address.



Enable Enable or disable prefix delegation services.

DHCP-PD:

LAN IPv6 Enter the LAN (local) IPv6 address for the router. (This field is only

Address: required when DHCP-PD is disabled.)

LAN IPv6 Link- Displays the router's LAN IPv6 Link-Local Address.

Local Address:

Enable Enable or disable the **Automatic IPv6 Address Assignment** feature.

Automatic IPv6 Address Assignment:

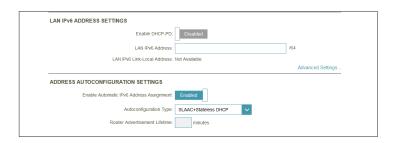
Auto Select SLAAC + RDNSS, SLAAC + Stateless DHCP or Stateful DHCPv6.

Configuration Type:

Router Enter the IPv6 address lifetime (in minutes).

Advertisement Lifetime:

Click **Save** when you are done.



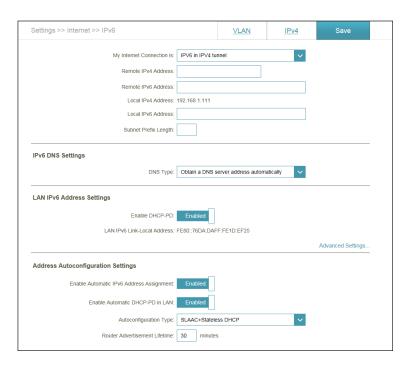
IPv6 in **IPv4** Tunnel

You can configure the IPv6 connection to run in IPv4 Tunnel mode. IPv6 over IPv4 tunneling encapsulates IPv6 packets in IPv4 packets so that IPv6 packets can be sent over an IPv4 infrastructure.

Remote IPv4 Enter the Remote IPv4 address you will use. **Address: Remote IPv6** Enter the **Remote IPv6** address you will use. **Address:** Local IPv4 Displays the Local IPv4 address. **Address: Local IPv6** Enter the **Local IPv6** address you will use. **Address:** Subnet Prefix Enter the Subnet Prefix Length supplied by your ISP. Length: **DNS Type:** Select either **Obtain DNS server address** or **Use the following DNS**. Primary DNS If you selected Use the following DNS above, enter the Primary Server: DNS Server address. Secondary DNS If you selected Use the following DNS above, enter the Secondary Server: DNS Server address. **Enable DHCP**- Enable or disable prefix delegation services. PD: LAN IPv6 If you disabled DHCP-PD, enter the LAN (local) IPv6 address for the Address: router.

LAN IPv6 Link- Displays the router's LAN IPv6 Link-Local Address.

Local Address:





Enable Automatic Enable or disable the **Automatic IPv6 Address Assignment IPv6 Address** feature.

Assignment:

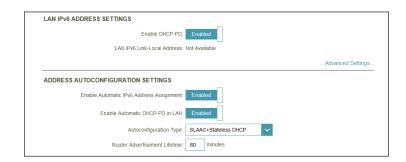
Enable Automatic Enable or disable **Automatic DHCP-PD in LAN** services. **DHCP-PD in LAN**:

Autoconfiguration Select SLAAC + RDNSS, SLAAC + Stateless DHCP, or Stateful Type: DHCPv6.

Router Enter the IPv6 address lifetime (in minutes).

Advertisement Lifetime:

Click **Save** when you are done.



6 to 4

In this section, the user can configure the IPv6 6 to 4 connection settings. 6 to 4 is an IPv6 address assignment and automatic tunneling technology that is used to provide unicast IPv6 connectivity between IPv6 sites and hosts across the IPv4 Internet.

6to4 Address: Displays the 6to4 Address.

6to4 Relay: Enter the 6to4 Relay supplied by your ISP.

Primary DNS Enter the **Primary DNS Server** address.

Server:

Secondary DNS Enter the Secondary DNS Server address.

Server:

LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router.

LAN IPv6 Link- Displays the router's LAN IPv6 Link-Local Address.

Local Address:

Enable Automatic Click to enable the **Automatic IPv6 Address Assignment** feature.

IPv6 Address Assignment:

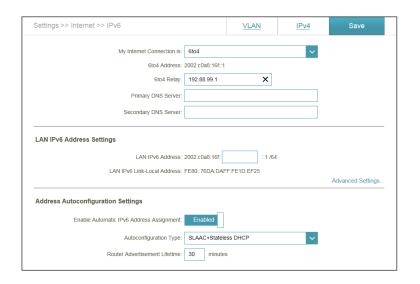
Autoconfiguration Select **SLAAC + RDNSS** or **SLAAC + Stateless DHCP**, or **Stateful**

Type: DHCPv6.

Router Enter the IPv6 address lifetime (in minutes).

Advertisement Lifetime:

Click **Save** when you are done.



6rd

In this section, the user can configure the IPv6 6rd connection settings.

Assign IPv6 Currently unsupported.
Prefix:

Primary DNS Enter the **Primary DNS Server** address.

Server:

Secondary DNS Enter the **Secondary DNS Server** address.

Server:

Enable Hub and Enable if you want to minimize the number of routes to the **Spoke Mode:** destination by using a hub and spoke method of networking.

6rd Choose the **6rd DHCPv4 Option** to automatically populate the data

Configuration: values, or **Manual Configuration** to enter the settings manually.

6rd IPv6 Prefix: Enter the 6rd IPv6 Prefix and mask length supplied by your ISP (for

manual configuration only).

WAN IPv4 Displays the WAN IPv4 Address. Enter the mask length (for manual

Address: configuration only).

6rd Border Enter the 6rd border relay IPv4 Address supplied by your ISP (for

Relay IPv4 manual configuration only).

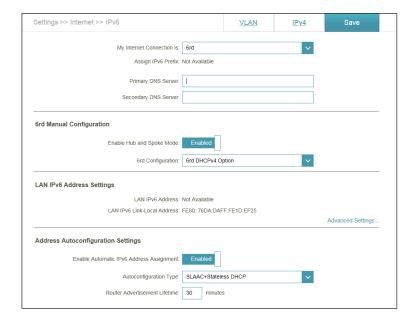
Address:

LAN IPv6 Displays the LAN (local) IPv6 address for the router.

Address:

LAN IPv6 Link- Displays the router's LAN Link-Local Address.

Local Address:



Enable Automatic Click to enable the Automatic IPv6 Address Assignment feature.

IPv6 Address Assignment:

Autoconfiguration Select **SLAAC + RDNSS**, **SLAAC + Stateless DHCP**, or **Stateful**

Type: DHCPv6.

Router Enter the IPv6 address lifetime (in minutes).

Advertisement Lifetime:

Click **Save** when you are done.



Local Connectivity Only

Local Connectivity Only allows you to set up an IPv6 connection that will not connect to the Internet. For this Internet Connection type, you must click on **Advanced Settings...** to see the required fields below.

Enable ULA: Click to enable Unique Local IPv6 Unicast Addresses settings.

Use Default When ULA is enabled, you may also enable automatic configuration **ULA Prefix:** of the ULA prefix.

Current ULA Will display the *Current ULA Prefix*. **Prefix**:

LAN IPv6 ULA: Will display the LAN IPv6 ULA.

Click **Save** when you are done.



Triple-Play VLAN

Triple-Play is the delivery of Internet, Voice over IP (VoIP), and IPTV (video multicast) data by your ISP.

Enable: Click to enable Triple-Play VLAN.

Priority ID: Click to set a priority to each VLAN ID.

VLAN IDs: Enter the VLAN ID for each service.

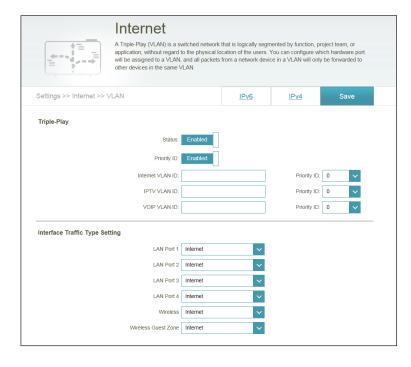
Priority: If enabled, select the priority for each service. Priority tags are between

0 to 7 with 0 being assigned to the lowest priority and 7 assigned to

the highest.

Interface Traffic Select which port/band you want to assign each service from the drop-

Type Setting: down menu.



Wireless

From the **Settings** menu, click **Wireless** to begin wireless configuration. You will see the *Wi-Fi Name (SSID)* and *Password* for both the 2.4GHz and 5GHz bands. Click **Advanced Settings...** to expand the list and allow you to view all fields corresponding with each frequency band.

The following options apply to both the 2.4GHz and the 5GHz wireless frequency bands:

Status: Enable or disable Smart Connect. If enabled, you can enter one Wi-Fi network/password for both wireless bands and the router will automatically select which band your wireless clients will connect to. If you want to have different Wi-Fi network names for each band, select **Disable**.

Wi-Fi Name Create a Wi-Fi Name for your wireless network using up to 32 (SSID): characters.

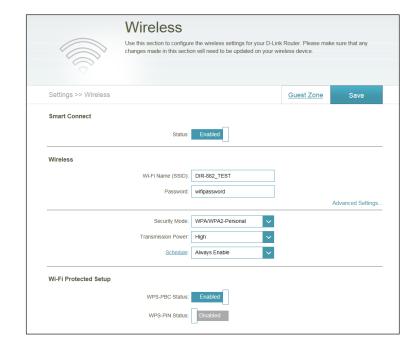
Password: Create a **Password** to use for wireless security. Wireless clients will need to enter this password to successfully connect to the network.

Security Mode: Select None, WEP, or WPA/WPA2-Personal (recommended).

802.11 Mode: Select the preferred wireless networking standard for each band. The available options will depend on the wireless frequency band, as well as the currently selected security mode.

Wi-Fi Channel: Select the desired channel. The default is **Auto** (recommended).

Transmission Select the desired wireless transmission power (**High**, **Medium** or **Power: Low**).



Advanced Settings

Security Mode:	WPA/WPA2-Personal	~
802.11 Mode:	Mixed 802.11b/g/n	Y
Wi-Fi Channel:	Auto	Y
Transmission Power:	High	v
Channel Width:	Auto 20/40 MHz	v
HT20/40 Coexistence:	Enabled	
Visibility Status:	Visible	~
<u>Schedule</u> :	Always Enable	~

Channel Width: For the 2.4GHz band:

Select **Auto 20/40 MHz** if you are using both 802.11n and non-802.11n wireless devices, or select **20 MHz** if you are not using any 802.11n wireless clients.

For the 5GHz band:

Select Auto 20/40/80 MHz if you are using 802.11ac, 802.11n, and non-802.11n wireless devices, or select Auto 20/40 MHz if you are using both 802.11n and non-802.11n wireless devices.

HT20/40 Enable this option to reduce interference from other wireless networks Coexistence in your area. If the channel width is operating at 40MHz and there (2.4 GHz only) is another wireless network's channel over-lapping and causing interference, the router will automatically change to 20MHz.

Visibility Status: The default setting is Visible. Select Invisible if you do not want to broadcast the SSID of your wireless network.

Schedule: Use the drop-down menu to select a schedule for enabling the rule. The schedule may be set to Always Enable, or you can create your own schedules in the **Schedules** section (refer to page 68).

Click **Save** when you are done.



Guest Zone

A Guest Zone is a temporary zone that can be used by guests to access the Internet. Guest Zones are separate from your main wireless network.

To configure a Guest Zone, click on the **Guest Zone** link. You may configure different zones for the 2.4 GHz and 5 GHz wireless bands.

The following options apply to both the 2.4GHz and the 5GHz wireless frequency bands:

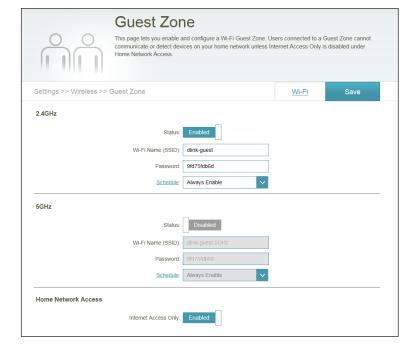
Status: Enable or disable the Guest Zone for each wireless frequency band.

Wi-Fi Name Enter a wireless network name (SSID) that is different from your main (SSID): wireless network.

Password: Create a **Password** to use for wireless security. Wireless clients will need to enter this password to successfully connect to the guest zone.

Internet Access Enabling this option will limit connectivity to the Internet. Guests Only: will not be allowed to access other local network devices.

Click Save when you are done.



Network

This section allows you to change the local network settings of the router and to configure the DHCP (Dynamic Host Control Protocol) settings. You can enable the use of the DIR-882 as a DNS server. From the **Settings** menu, click **Network**.

Click **Advanced Settings** to expand the list and see all of the available options.

LAN IP Address: Enter the LAN IP Address of the router. The default IP address is

192.168.0.1.

If you change the IP address, once you click **Save**, you will need to enter the new IP address in your browser to get back into the configuration utility.

Subnet Mask: Enter the **Subnet Mask** of the router. The default subnet mask is **255.255.255.0**.

Management The default address to access the router's configuration utility is

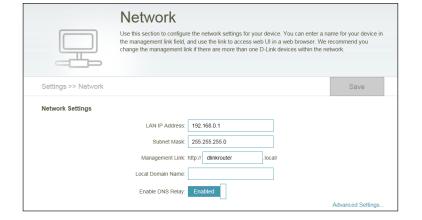
Link: http://dlinkrouter.local./You may replace dlinkrouter with a name

of your choice by entering it into this field.

Local Domain Enter the **Local Domain Name** (optional). Name:

Enable DNS If enabled, your computers will use the router for a DNS server.

Relay: Disable to transfer the DNS server information from your ISP to your computers.



Status: Enable or disable the DHCP server.

DHCP IP Enter the starting and ending IP addresses for the DHCP server's IP **Address Range:** assignment.

Note: If you statically (manually) assign IP addresses to your computers or devices, make sure the IP addresses are outside of this range or you may have an IP conflict.

DHCP Lease Enter the length of time for the IP address lease in minutes. **Time**:

Always Enable this feature to broadcast your networks DHCP server to LAN/Broadcast: WLAN clients.

WAN Port You may set the port speed of the Internet port to 10 Mbps, 100 **Speed:** Mbps, 1000 Mbps, or **Auto** (recommended).

UPnP: Enable or disable Universal Plug and Play (UPnP). UPnP provides compatibility with networking equipment, software and peripherals.

IPv4 Multicast Enable to allow IPv4 multicast traffic to pass through the router from Streams: the Internet.

IPv6 Multicast Enable to allow IPv6 multicast traffic to pass through the router from Streams: the Internet.

Click **Save** when you are done.



USB Sharing

This page will allow you to set up access to files on an external USB drive plugged into the router. You can do this through the local network or from the Internet. In the Settings menu on the bar on the top of the page, click **USB Sharing**.

Click **User** at the top to create user accounts to access the below services. Refer to page 72.

Status: Click to enable DLNA media server functions, allowing connected

clients access to media files over the network.

DLNA Media Server: Create a name for your DLNA media server.

Windows File Sharing Click to enable local file sharing.

(SAMBA):

FTP Server: Click to enable and then click **Advanced Settings** if you want

users from outside your local network to access files on your

USB drive.

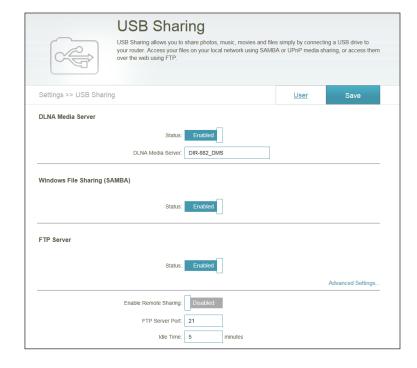
Enable Remote Enable to allow users from the Internet to access your USB drive.

Sharing:

FTP Server Port: Enter a port for your FTP server. Default is 21.

Idle Time: Enter the time in minutes where the user will be logged off if idle.

Default is 5 minutes.



Features QoS Engine

Quality of Service (QoS) improves data flow. It allows you to prioritize clients, so that high-priority clients receive higher bandwidth. For example, if one client is streaming a movie and another is downloading a non-urgent file, you might wish to assign the former client a higher priority, so that the movie streaming is not disrupted by the traffic of the other devices on the network.

From the **Features** menu on the bar on the top of the page, click **QoS Engine**.

Under *Connected Clients*, you will see client cards representing each device. If some client cards are off-screen, you can use the < and > buttons to scroll left and right.

A maximum of **one** device can be assigned **Highest** priority.

A maximum of **two** devices can be assigned **High** priority.

A maximum of **eight** devices can be assigned **Medium** priority.

If connected clients are not assigned a priority, all devices will be treated with equal priority. If some devices are assigned a priority and others are not, the unassigned devices will be treated with the lowest priority.

Connected clients can be assigned Internet access priority. Click and drag client cards into open slots.

Features >> QoS Engine

Bandwidth

Uplink Speed (Mbps) 300

Downlink Speed (Mbps) 300

Connected Clients

Fing the delece cards above to the priority boxes below:

Inghest

Inghest

Medium

Committed Clients

To assign a priority level to a device, drag the device card from the *Connected Clients* list over an empty slot and release the mouse button. The card will remain in the slot. If you want to remove a priority assignment from a device and return it to the *Connected Clients* list, click the cross icon in the top right corner of the device card.

Highest

dlink-PC
DELL
192.168.0.196

Click **Save** when you are done.

Firewall Settings

A firewall protects your network from malicious attacks over the Internet. The DIR-882 offers a high-performance firewall features like SPI (Stateful Packet Inspection).

From the Features menu, click Firewall.

Enable DMZ: Enable or disable Demilitarized Zone (DMZ). Enabling this feature creates a subnetwork that can be used to expose a single computer to the Internet for applications that do not run well behind the router. This may expose the computer to a variety of security risks and is not recommended.

DMZ IP If you enabled DMZ, enter the **IP Address** of the client you wish to **Address:** expose, or select a **Computer Name** from the drop-down menu.

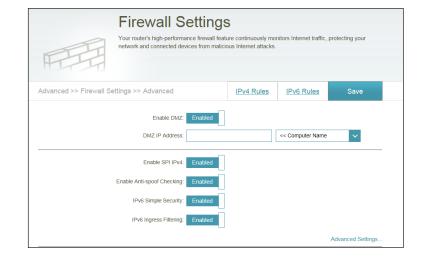
Enable SPI IPv4: Click to enable Stateful Packet Inspection (SPI) to help prevent cyber attacks. This technique validates that the traffic passing through the session conforms to the protocol.

Enable Click to enable **Anti-Spoof Checking**, which will protect your **Anti-Spoof** network from certain kinds of "spoofing" attacks. **Checking:**

IPv6 Simple Click to enable **IPv6 Simple Security**, which will provide simple **Security**: security capabilities for a local-area IPv6 network.

IPv6 Ingress Click to enable IPv6 Ingress Filtering, which will verify the incoming **Filtering:** packets are coming from the network from which they claim to originate.

Click **Advanced Settings** to expand the list and view more options.



PPTP: Click to enable **PPTP**, which will allow multiple machines on the LAN to connect to their corporate network using the PPTP protocol.

IPSec (VPN): Enable to allow multiple VPN clients to connect to their corporate network using IPSec. Some VPN clients support traversal of IPSec through NAT. This Application Level Gateway (ALG) may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, try turning this ALG off. Check with the system administrator of your corporate network to find out whether your VPN client supports NAT traversal.

RTSP: Enable to allow applications that use Real Time Streaming Protocol (RTSP) to receive streaming media from the Internet.

SIP: Enable to allow devices and applications using VoIP (Voice over IP) to communicate across NAT. Some VoIP applications and devices have the ability to discover NAT devices and work around them. This Application Level Gateway (ALG) may interfere with the operation of such devices. If you are having trouble making VoIP calls, try turning this ALG off.

Click **Save** when you are done.

Application Level Gateway (ALG) Configuration	
PPTP:	Enabled
IPSec (VPN):	Enabled
RTSP:	Enabled
SIP:	Enabled

IPv4/IPv6 Rules

The IPv4/IPv6 Rules section allows you to specify the kind of traffic that is allowed to pass through the network. Click either IPv4 Rules or IPv6 Rules.

Use the drop-down menu to select whether you want to **Turn IPv4 Filtering ON** and **ALLOW** or **DENY** the rules you create. Or you may choose to **Turn IPv4 Filtering OFF**.

If you wish to remove a rule, click on its **trash** can icon in the *Delete* column. If you wish to edit a rule, click on its **pencil** icon in the *Edit* column. If you wish to create a new rule, click **Add Rule**. Click **Save** when you are done.

When you click on **Add Rule**, the *Create New Rule* window will open. Enter the required information into the fields described below:



Name: Enter a Name for the new rule.

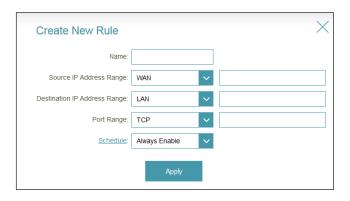
Source IP Enter the **Source IP Address Range** that the rule applies to. Using **Address Range**: the drop-down menu, specify whether it is a **WAN** or **LAN** IP address.

Destination IP Enter the **Destination IP Address Range** that the rule applies to. **Address Range:** Using the drop-down menu, specify whether it is a **WAN** or **LAN** IP address.

Port Range: Select the protocol of the traffic to allow or deny (**Any**, **TCP**, or **UDP**) and then enter the range of ports that the rule will apply to.

Schedule: Use the drop-down menu to select a **Schedule** when the rule will be enabled. The schedule may be set to **Always Enable**, or you can create a schedule from the **Schedules** section (refer to page 68).

Click **Apply** when you are done.



Port Forwarding

Port forwarding allows you to specify a single port or a range of ports to open for specific devices on the network. It allows traffic requests from a specific application to be directed to a specific client.

From the Features menu, click Port Forwarding.

If you wish to remove a rule, click on its **trash** can icon in the *Delete* column. If you wish to edit a rule, click on its **pencil** icon in the *Edit* column. If you wish to create a new rule, click **Add Rule**. Click **Save** when you are done.

When you click on **Add Rule**, the *Create New Rule* window will open. Enter the required information into the fields described below:

Name: Enter a Name for the new rule.

Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Or, select the **Computer Name** from the drop-down menu.

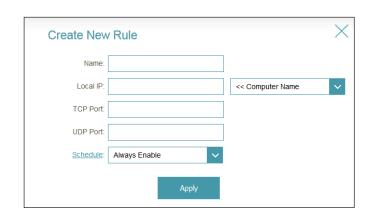
TCP Port: Enter a **TCP Port** (or a range of TCP ports) you want to open. Separate ports with a comma (for example: 24,1009,3000-4000).

UDP Port: Enter a **UDP Port** (or a range of UDP ports) you want to open. Separate ports with a comma (for example: 24,1009,3000-4000).

Schedule: Use the drop-down menu to select a **Schedule** when the rule will be enabled. The schedule may be set to **Always Enable**, or you can create a schedules from the **Schedules** section (refer to page 68).

Click **Apply** when you are done.





Virtual Server

The Virtual Server allows you to specify a single public port for redirection to an internal LAN IP Address and Private LAN port.

From the *Port Forwarding* page click **Virtual Server**.

The DIR-882 can store a maximum of 15 rules. If you wish to remove a rule, click on its **trash** can icon in the *Delete* column. If you wish to edit a rule, click on its **pencil** icon in the *Edit* column. If you wish to create a new rule, click the **Add Rule** button. Click **Save** when you are done.

When you click on **Add Rule**, the *Create New Rule* window will open. Enter the required information into the fields described below:

Name: Enter a **Name** for the new rule or select an application from the drop-down menu.

Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Or, select the **Computer Name** from the drop-down menu.

Protocol: Select the protocol of the traffic to allow or deny (**TCP**, **UDP**, **Both**,

or **Other**).

Protocol If you selected **Other**, enter the **Protocol Number**.

Number:

External Port: Enter the public port you want to open.

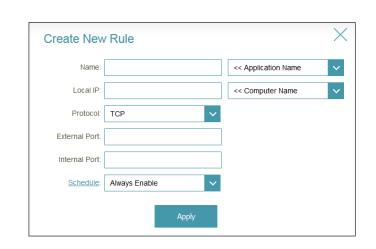
Internal Port: Enter the private port you want to open.

Schedule: Use the drop-down menu to select a schedule when the rule will

be enabled. The schedule may be set to **Always Enable**, or create your own schedule from the **Schedules** section (refer to page 68).

Click **Apply** when you are done.





Website Filter

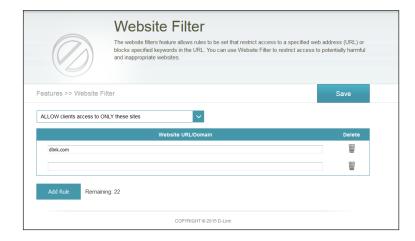
The website filter setting allows you to block access to certain web sites. You can either create a list of sites to block, or create a list of sites to allow (with all other sites being blocked).

In the Features menu on the bar on the top of the page, click **Website Filter**.

If you want to create a list of sites to block, select **DENY computers access to ONLY these sites** from the drop-down menu. All other sites will be accessible. If you want to specify a list of sites to allow, select **ALLOW computers access to ONLY these sites** from the drop-down menu. All other sites will be blocked.

You may specify a maximum of fifteen web sites. To add a new site to the list, click **Add Rule**. Next, under Website URL/Domain enter the URL or domain. If you wish to remove a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, simply replace the URL or domain.

Click **Save** when you are done.



Static Routes

The Static Routes section allows you to define custom routes allowing traffic to be directed to a specific client or location.

From the **Features** menu, click **Static Route**.

To configure IPv6 rules, click **IPv6** and refer to page 63. To return to the main IPv4 static routes page, click **IPv4**.

If you wish to remove a route, click on its **trash** icon in the *Delete* column. If you wish to edit a route, click on its **pencil** icon in the *Edit* column. If you wish to create a new route, click the **Add Route** button. Click **Save** when you are done.

When you click on **Add Route**, the *Create New Route* window will open. Enter the required information into the fields described below:

Name: Enter a Name for the new rule.

Destination Enter the IP address of packets that will take this route.

Network:

Mask: Enter the netmask of the route.

Gateway: Enter your next hop gateway to be taken if this route is used.

Metric: The route metric is a value from 1 to 16 that indicates the cost of using this route. A value 1 is the lowest cost and 15 is the highest cost.

Interface: Select the interface that the IP packet must use to transit out of the

router when this route is used.

Click **Apply** when you are done.





IPv6

If you wish to remove a route, click on its **trash** can icon in the *Delete* column. If you wish to edit a route click on its **pencil** icon in the *Edit* column. If you wish to create a new route, click the **Add Route** button. Click **Save** when you are done.

When you click on **Add Route**, the *Create New Route* window will open. Enter the required information into the fields described below:



Name: Enter a Name for the new rule.

DestNetwork: This is the IP address of the router used to reach the specified

destination.

PrefixLen: Enter the IPv6 address prefix length of the packets that will take this

route.

Gateway: Enter the IPv6 gateway address. This is the next hop that will be taken

if this route is used.

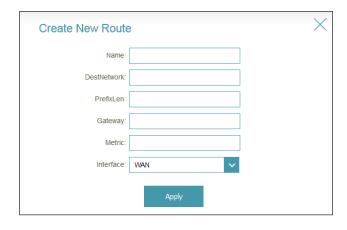
Metric: The route metric is a value from 1 to 16 that indicates the cost of

using this route. A value 1 is the lowest cost and 15 is the highest cost.

Interface: Select the interface that the IP packet must use to transit out of the

router when this route is used.

Click **Apply** when you are done.



Dynamic DNS

Most Internet Service Providers (ISPs) assign dynamic (changing) IP addresses. Using a Dynamic DNS (DDNS) service provider, people can enter your domain name in their web browser to connect to your server, no matter what your current IP address assignment.

From the **Features** menu, click **Dynamic DNS**.

Enable Enabling DDNS will reveal additional configuration options.

Dynamic DNS:

Status: Displays the current dynamic DNS connection *Status*.

Server Address: Enter the address of your dynamic DNS server, or select one from

the drop-down menu.

Host Name: Enter the Host Name that you registered with your dynamic DNS

service provider.

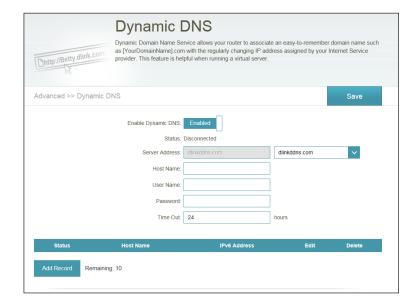
User Name: Enter your dynamic DNS **User Name**.

Password: Enter your dynamic DNS Password.

Time Out: Enter a Time Out (in hours).

Click **Save** when you are done.

At the bottom of the page are the IPv6 host settings. To configure an IPv6 dynamic DNS host, refer to page 65.



IPv6 Host

The IPv6 host settings are found at the bottom of the Dynamic DNS page.

If you wish to remove a rule, click on its **trash** can icon in the *Delete* column. If you wish to edit a rule, click on its **pencil** icon in the *Edit* column. If you wish to create a new rule, click the **Add Record** button. Click **Save** when you are done.

When you click on **Add Record**, the *Create New Record* window will open. Enter the required information into the fields described below:



Host Name: Enter the **Host Name** that you registered with your dynamic DNS service provider.

IPv6 Address: Enter the **IPv6 Address** of the dynamic DNS server. Or, select the **Computer Name** from the drop-down menu.

Click **Apply** when you are done.



QuickVPN

The QuickVPN feature is a fast and easy way to create a profile for secure remote access to a Local Area Network (LAN). This profile can be used to configure other devices to connect to your LAN via a secure VPN tunnel. Note that only one account (user name/password) can be created.

From the **Features** menu, click **Quick VPN**. Click **Advanced Settings** to expand the list and see all of the options. To create users to give or remove VPN access to, click **User** and refer to page 72.

L2TP over Enable to allow QuickVPN access to your network. **IPSec:**

Username: Enter a username of your choice.

Password: Enter a password of your choice.

PSK: Enter a pre-shared key (PSK). The client attempting to connect to your network through a VPN will need to enter this key.

Authentication Select either **MSCHAPv2**, **PAP** (Password Authentication Protocol),

Protocol: or **CHAP** (Challenge-Handshake Authentication Protocol).

MPPE: Select either None, RC4-40, or RC4-128 (encryption).

Click **Save** when you are done.



Management Time & Schedule

Time

The Time page allows you to configure, update, and maintain the correct time on the DIR-882's internal system clock. The router's internal clock is used for data logging and schedules.

From the Management menu, click Time & Schedule.

Time Zone: Select your **Time Zone** from the drop-down menu.

Time: Displays the current date and time.

Enable Daylight Enable or disable daylight saving time.

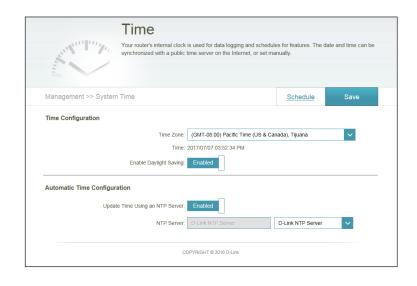
Saving:

Update Time Enable to allow an NTP (Network Time Protocol) server on the Internet Using an NTP to synchronize the time and date with your router. If you enable this **Server:** option, select an NTP server from the drop-down menu. Or, you can select Manual from the drop-down menu and manually enter the NTP Server.

> **Note:** To configure the router's time and date manually, disable the Update Time Using NTP Server option and use the drop-down menus that appear to input the time and date.

Click **Save** when you are done.

To configure and manage your schedules, click **Schedule** and refer to page 68.

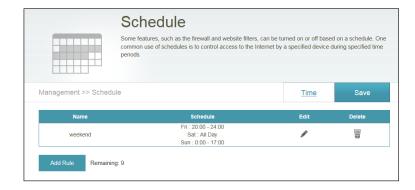




Schedule

Create schedules for use with enforcing rules. To create, edit, or delete schedules, from the *Time* page click **Schedule**.

If you wish to remove a rule, click on its **trash** icon in the *Delete* column. If you wish to edit a rule, click on its **pencil** icon in the *Edit* column. If you wish to create a new rule, click the **Add Rule** button. Click **Save** when you are done.

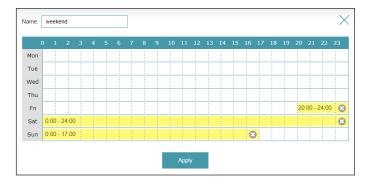


When you click on **Add Rule**, the following screen will appear: First, enter the **Name** of your schedule.

Each row represents a day, and each box represents one hour, with the time at the top of each column. To add a time period to the schedule, simply click on the start hour and drag to the end hour. You can add multiple days to the schedule, but only one period per day.

To remove a time period from the schedule, click on the X icon at the end of the row.

Click **Apply** when you are done.



System Log

The router keeps a running log of events. The logs can be sent to a Syslog server and delivered to your email address.

From the **Management** menu, click **System Log**.

Check System Click to save a file to your computer. Open using WordPad or similar **Log:** program.

Enable Logging Enable to send the router logs to a SysLog Server. If this is disabled, **to Syslog** there will be no other options on this page.

Server:

Syslog Server IP Enter the IP address for the Syslog server. If the Syslog server is Address: connected to the router, you can select it from the drop-down menu to automatically populate the field.

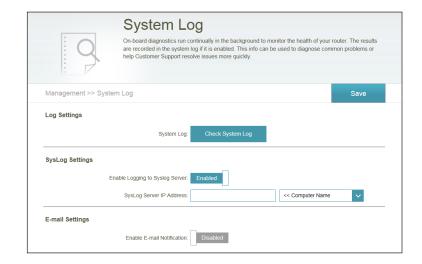
Enable E-mail Enable this option if you want the logs to be automatically sent to **Notification:** an e-mail address. Then enter the settings for your e-mail account. These can be obtained from your e-mail service provider.

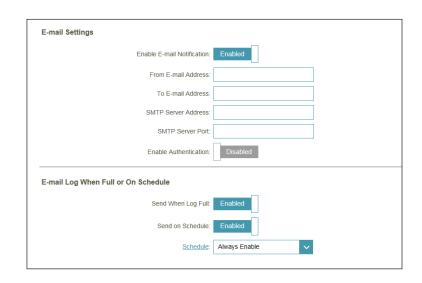
Send When Log If e-mail notification is enabled, you may also enable this option. **Full:** When the log is full, the router will send it by e-mail.

Send on Enable to send an e-mail according to a specified schedule. **Schedule:**

Schedule: If you enable **Send on Schedule**, use the drop-down menu to select the schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedule from the **Schedules** section (refer to page 68).

Click **Save** when you are done.





Admin

This page allows you to change the administrator settings, such as change the Admin password and enable remote management.

From the **Management** menu, click **System Admin**.

Password: Enter a new **Password** for the administrator account. You will need to enter this password whenever you configure the router using a web browser.

Enable Enables a challenge-response test designed to prevent online hackers
Graphical and unauthorized users from gaining access to your router's network
Authentication settings.
(CAPTCHA):

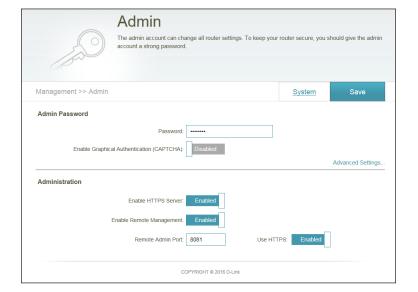
Enable HTTPS Check to enable HTTPS to connect to the router securely. This means **Server:** to connect to the router, you must enter **https://192.168.0.1** instead of **http://192.168.0.1**.

Enable Remote Remote management allows the DIR-882 to be configured from the **Management:** Internet by a web browser. A password is still required to access the web management interface.

Remote Admin The port number used to access the DIR-882 is used in the URL. Example: **Port:** http://x.x.x.x:8080 where x.x.x.x is the Internet IP address of the DIR-882 and 8080 is the port used for the web management interface. If you enable HTTPS Server, you must enter https:// as part of the URL to access the router remotely.

Click **Save** when you are done.

To load, save, or reset the settings, or to reboot the router, click **System** and refer to page 71.



System

This page allows you to save the DIR-882's current configuration, load a previously saved configuration, and reset the router to the factory default settings.

From the **Admin** page click **System**.

Save Settings Click **Save** to save the current router configuration settings to a file on **To Local Hard** your computer's hard drive.

Drive:

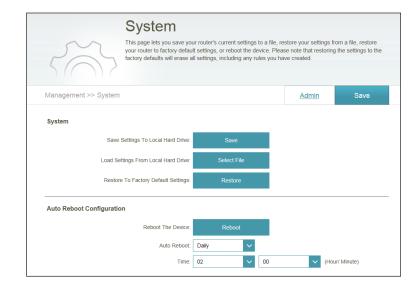
Load Settings Click **Select File** to locate and load previously saved router configuration **From Local** file. This will overwrite the router's current configuration.

Hard Drive:

Restore To This option will restore all configuration settings back to the settings **Factory Default** that were in effect at the time the router was shipped from the factory. **Settings:** Any settings that have not been saved will be lost, including any rules that you have created. If you want to first save the current router configuration settings to your computer, use the **Save** button above.

Reboot The Click **Reboot** to reboot the router. **Device:**

Auto Reboot: Select a time frame for the router to reboot automatically.



User

The Create User page allows you to manage your user accounts. The current list of user accounts will be displayed, along with their current permissions for SAMBA and FTP access, as well as VPN status.

If you wish to remove an account, click on its trash can icon in the *Delete* column. If you wish to edit an account, click on its pencil icon in the *Edit* column. If you wish to create a new account, click the **Create User** button. If you edit or create a user, the following options will appear:



User Name: Enter a user name.

Password: Create a password.

SAMBA/FTP: Click to enable access to file sharing and/or FTP. Select either **Read Only** or **Read/Write** to control whether the user can edit, add, or delete files

on the device. Then choose the parent folder that the user will be able to access. Files and folders on a higher level will be unavailable. "root" means that the user can access all files on the device. To change the selected folder, click **Browse** and browse to the desired folder.

VPN: Enable to give the user Open VPN access.

Click **OK** to save.

Create New	User		×
User Name:			
Password:			
SAMBA			
Status:	Enabled		
Permission:	Read Only		
Folder:	root	Browse	
FTP			
Status:	Disabled		
Permission:	Read Only		
Folder:	root	Browse	
VPN			
Status:	Disabled		
	ОК		

Device (MAC Filtering)

The Device page will allow you to allow or deny devices based on MAC address. Select to either an allow list or a block list from the drop-down menu and then click **Add Rule**.



Name: Enter a name for the rule.

MAC Address: Manually enter the MAC address of the device or, only if the device is

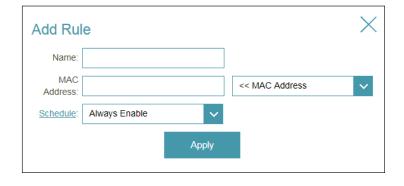
currently connected to the router and set to DHCP, select the device

from the drop-down menu.

Schedule: Select a schedule when you want the rule to apply. Click Schedule to

create a new time range.

Click **Apply** to save.



Upgrade

This page will allow you to upgrade the router's firmware, either automatically or manually. To manually upgrade the firmware, you must first download the file from http://support.dlink.com/DIR-882-US.

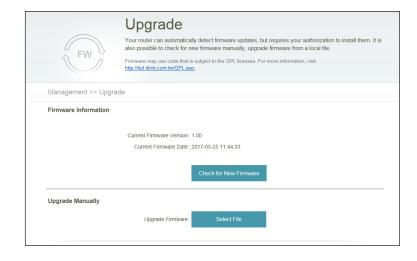
From the **Management** menu, click **Upgrade**.

Firmware Displays the Current Firmware Version and Current Firmware Date. Information:

Check for New Click Check for New Firmware to prompt the router to check for a new Firmware: firmware version. If a newer version is found, you will be prompted to install it*.

Upgrade If you prefer to upgrade manually, first download the firmware file to Firmware: your computer that you wish to upgrade to. Next, click the **Select File** button and browse to locate the file and install the new firmware.

> *Note: When you click **Check for New Firmware** you will see a message that says, "Checking". If what you have currently installed is the latest version, you will see a message that says, "This firmware is the latest version".



Statistics

On the Statistics page you can view the number of packets that pass through the router on the WAN, LAN, and wireless segments.

From the **Management** menu, click **Statistics**.

You can view the **Internet**, **LAN**, **Wi-Fi 2.4GHz**, or **Wi-Fi 5GHz** statistics by clicking on the respective tabs at the top. The graph will update in real time. To clear the information on the graph, click **Clear**.

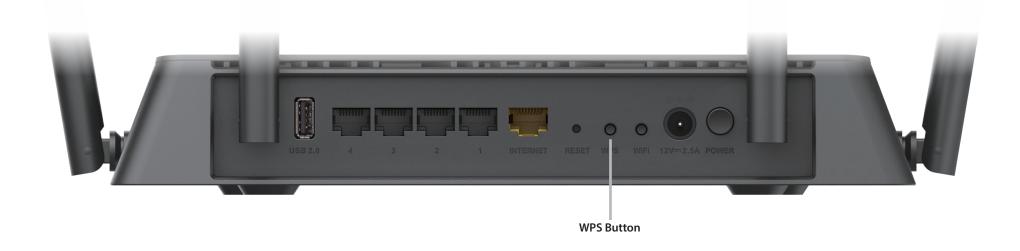
The traffic counter will reset if the device is rebooted.



Connect a Wireless Client to your Router WPS Button

The easiest and most secure way to connect your wireless devices to the router is with WPS (Wi-Fi Protected Setup). Most wireless devices such as wireless adapters, media players, Blu-ray DVD players, wireless printers and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DIR-882 router. Refer to your user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

Step 1 - Press the WPS button on the back of the DIR-882 for about one second. The LED on the front will start to blink.



- **Step 2** Within two minutes, press the WPS button on your wireless client (or launch the software utility and start the WPS process).
- **Step 3** Allow up to one minute for your connection to be configured. Once the Power LED stops blinking, you will be connected and your wireless connection will be secure with WPA2.

Windows® 10

When connecting to the DIR-882 wirelessly for the first time, you will need to input the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to. If your product has a Wi-Fi configuration card, you can find the default network name and Wi-Fi password here. Otherwise refer to the product label for the default Wi-Fi network SSID and password, or enter the Wi-Fi credentials set during the product configuration.

To join an existing network, click the wireless network icon in the taskbar, next to the time display.

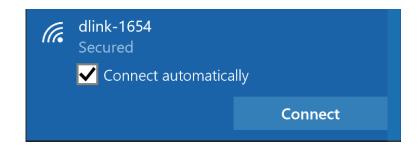


A list of wireless networks which are within range of your computer will appear. Select the desired network by clicking on the SSID.



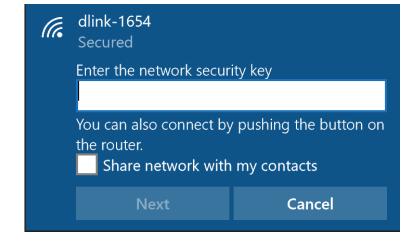
To connect to the SSID, click **Connect**.

To automatically connect with the router when your device next detects the SSID, click the **Connect Automatically** check box.



You will then be prompted to enter the Wi-Fi password (network security key) for the wireless network. Enter the password into the box and click **Next** to connect to the network. Your computer will now automatically connect to this wireless network when it is detected.

You can also use Wi-Fi Protected Setup (WPS) to connect to the router. Press the WPS button on your D-Link device and you will be automatically connected.



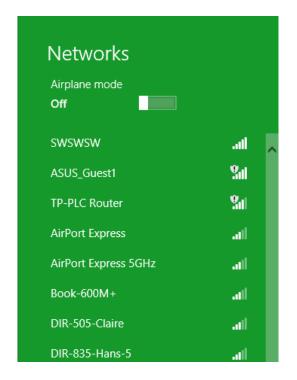
Windows® 8

It is recommended that you enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key (Wi-Fi password) being used.

To join an existing network, locate the wireless network icon in the taskbar next to the time display.

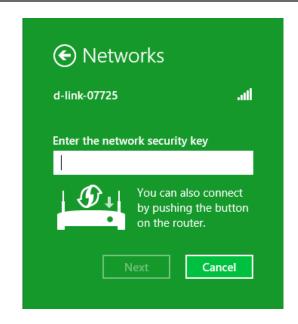


Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.

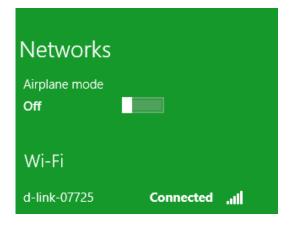


You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

If you wish to use Wi-Fi Protected Setup (WPS) to connect to the router, you can also press the WPS button on your router during this step to enable the WPS function.



When you have established a successful connection to a wireless network, the word **Connected** will appear next to the name of the network to which you are connected to.



Windows® 7 WPA/WPA2

It is recommended that you enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Click on the wireless icon in your system tray (lower-right corner).



2. The utility will display any available wireless networks in your area.

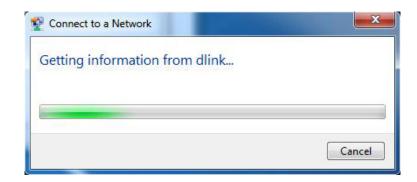


3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to the Networking Basics section in this manual for more information.



4. The following window appears while your computer tries to connect to the router.



5. Enter the same security key or passphrase (Wi-Fi password) that is on your router and click **Connect**. You can also connect by pushing the WPS button on the router.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.

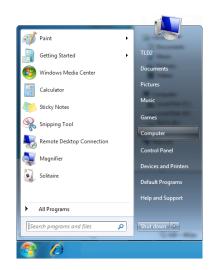


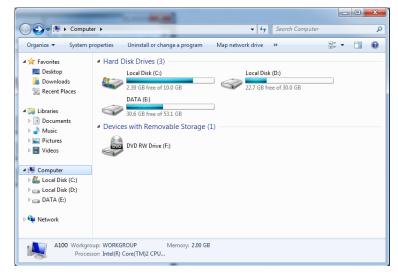
WPS

The WPS feature of the DIR-882 can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

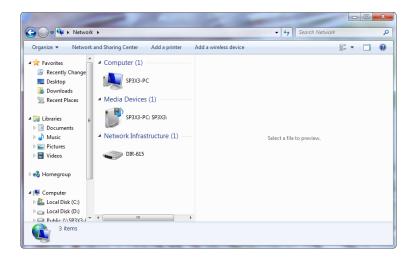
1. Click the **Start** button and select **Computer** from the Start menu.



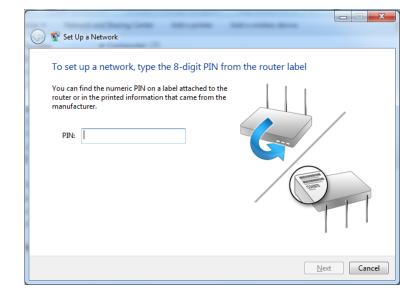




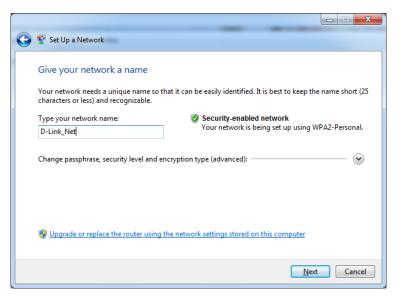
3. Double-click the DIR-882.



4. Input the WPS PIN number (on the router label) in the **Setup** > **Wireless Setup** menu in the Router's Web UI) and click **Next**.

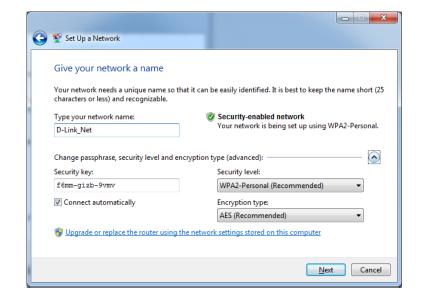


5. Type a name to identify the network.



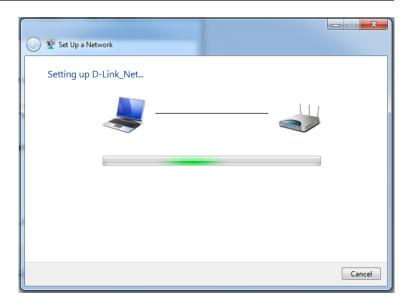
6. To configure advanced settings, click the vicon.

Click **Next** to continue.



7. The following window appears while the Router is being configured.

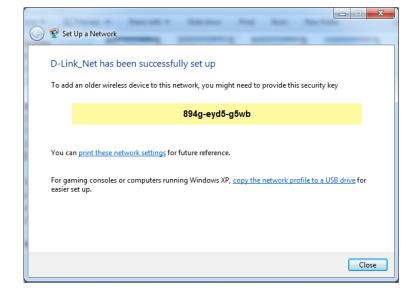
Wait for the configuration to complete.



8. The following window informs you that WPS on the router has been set up successfully.

Make a note of the security key as you may need to provide this security key if adding an older wireless device to the network in the future.

9. Click **Close** to complete WPS setup.



Windows Vista®

Windows Vista® users may use the built-in wireless utility. If you are using another company's wireless utility, please refer to the user manual of your wireless adapter for help connecting to a wireless network. Most wireless utilities will have a "site survey" option similar to the Windows Vista® utility as seen below.

If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **Connect to a network**.



The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click the **Connect** button.

If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



WPA/WPA2

It is recommended that you enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Open the Windows Vista® Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower right corner of screen). Select **Connect to a network**.

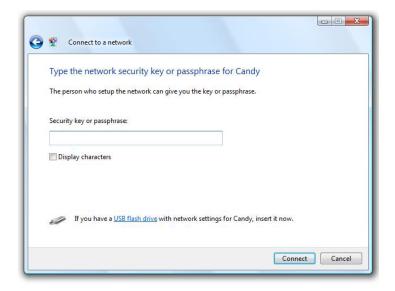


2. Highlight the Wi-Fi name (SSID) you would like to connect to and click **Connect**.



3. Enter the same security key or passphrase (Wi-Fi password) that is on your router and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.



Troubleshooting

This chapter provides solutions to problems that may occur during the installation and operation of the DIR-882.

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

When entering the IP address of the D-Link router (**192.168.0.1** for example), you are not connecting to a website, nor do you 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:
 - Explorer® 11 or higher
 - Firefox®
 - Chrome™
 - Safari® 7 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 connecting to a different port on the device. 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, and Norton Personal 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 the **Internet Options** Icon. From the **Security** tab, click the button to restore the settings to their defaults.
 - Click the **Connection** tab and set the dial-up option to *Never Dial a Connection*. Click the **LAN Settings** button. Make sure nothing is checked. Click **OK**.
 - Go to the **Advanced** tab and click the button to restore these settings to their defaults. Click **OK** 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 your 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. How do I connect my wireless devices to the DIR-882 router?

- 1. Open your wireless network utility that displays available wireless networks.
- 2. Select the Wi-Fi Network name you assigned during the Setup Wizard and connect.

Note: If you did not run the Setup Wizard or you reset the router to its default settings, refer to the Wi-Fi Configuration Card included for the default Wi-Fi Network Name and Wi-Fi Password.

You can also connect wireless devices to the DIR-882 router using WPS:

- 1. Press the WPS button on the DIR-882 for a minimum of three seconds, or until the Power LED starts to blink green.
- 2. Within one minute press the WPS button on your wireless device.
- 3. Allow up to two minutes to connect.

Note: Some devices may require you to log in to a utility to start the WPS process. Refer to the user manual for the device you want to connect to the router if you do not know how to start the WPS process.

3. What can I do if I forget my password?

If you forget 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 back of the unit. With the router powered on, use an unfolded paper clip to press and hold the button down for about 10 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router.

4. Can I connect the DIR-882 to an existing router?

We recommend that you replace your existing router with the DIR-882 instead of using both. If your modem is a combo router, you may want to contact your ISP or review the manufacturer's user guide so you can put the combo router into *Bridge* mode, which will turn off the device's NAT functions.

5. Why can't I connect to certain sites or send and receive e-mails when connecting through my router?

If you are having a problem sending or receiving e-mail, or connecting to secure sites such as eBay and banking sites, we suggest lowering the MTU in increments of ten (e.g., 1492, 1482, 1472, etc).

To find the proper MTU Size, you'll have to do a special ping of the destination you're trying to go to. A destination could be

another computer, or a URL.

- Click on Start and then click Run.
- Windows® 8, 7, and Vista® users type in **cmd** and press **Enter** (or click **OK**).
- Once the window opens, you'll need to do a special ping.
 Use the following syntax:

ping [url] [-f] [-l] [MTU value]

Example: ping yahoo.com -f -l 1472

C:\>ping yahoo.com -f -l 1482

Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:

Packet needs to be fragmented but DF set.

Ping statistics for 66.94.234.13:
 Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
Approximate round trip times in milli-seconds:
 Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping yahoo.com -f -l 1472

Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:

Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52

Ping statistics for 66.94.234.13:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
 Minimum = 93ms, Maximum = 203ms, Average = 132ms

C:\>

You should start at 1472 and work your way down by 10 each time. Once you get a reply, go up by 2 until you get a fragmented packet. Take that value and add 28 to the value to account for the various TCP/IP headers. For example, lets say that 1452 was the proper value, the actual MTU size would be 1480, which is the optimum for the network we're working with (1452+28=1480).

Once you find your MTU, you can now configure your router with the proper MTU size.

To change the MTU rate on your router follow the steps below:

- Open your browser, enter the IP address of your router (192.168.0.1) and click OK.
- Enter your username (**admin**) and password (blank by default). Click **OK** to enter the web configuration page for the device.
- Click on **Setup** and then click **Manual Configure**.
- To change the MTU, enter the number in the MTU field and click **Save Settings** to save your settings.
- Test your e-mail. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.

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 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 similarly to how cordless phones work, through radio signals that 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 a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point 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, university 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. This 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 Uses/Benefits

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

Small Office and Home Office Uses/Benefits

- Stay on top of everything at home as you would at office
- Remotely access your office network from home
- Share 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 the 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 your next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the router. Refer to the 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 DIR-869 wireless network Cardbus adapters.

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 communicate.

Networking Basics

Check your IP address

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** button in the lower left corner of the screen, or press the **Windows** button on your keyboard. In the *Search* field, type *cmd* and press **Enter**.

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.

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® 8 - Press the Windows key and then type **IP**. Click **Settings** on the right side and then click **View Network Connections**. Windows® 7 - Click on **Start** > **Control Panel** > **Network and Internet** > **Network and Sharing Center**.

Windows Vista® - Click on Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections.

Step 2

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

Step 3

Highlight Internet Protocol (TCP/IP) and click Properties.

Step 4

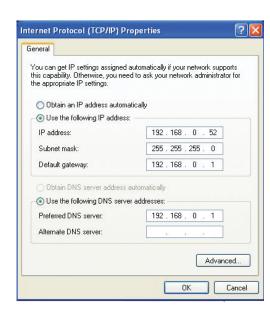
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

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 the Default Gateway the same as the LAN IP address of your router (i.e., 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 **OK** twice to save your settings.



Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DIR-869 offers the following types of security:

- WPA2 (Wi-Fi Protected Access 2)
- WPA (Wi-Fi Protected Access)

- WPA2-PSK (Pre-Shared Key)
- WPA-PSK (Pre-Shared Key)

What is WPA?

WPA (Wi-Fi Protected Access), is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy).

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and by adding an integrity-checking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more secure public-key encryption system to ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless router or access point.

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network.

Technical Specifications

Device Interfaces

- Four 10/100/1000 Mbps Gigabit Ethernet ports (LAN)
- One 10/100/1000 Mbps Gigabit Ethernet port (INTERNET)
- WPS (Wi-Fi Protected Setup) Push Button
- Reset Button
- USB 2.0 Port
- USB 3.0 Port

Standards

- IEEE 802.11ac
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11a
- IEEE 802.3ab
- IEEE 802.3u

Security

- Wi-Fi Protected Access (WPA/WPA2)
- WPS PIN/PBC (Wi-Fi Protected Setup)

Power

- Input: 100 to 240 V AC, 50/60 Hz
- Output: 12 V, 1.5 A

Temperature

- Operating: 32 to 104°F
- Storage: -4 to 149°F

Humidity

- 10% to 90% non-condensing (Operating)
- 5% to 95% non-condensing (Storage)

Certifications

- FCC Class B
- IPv6 Ready
- Wi-Fi Certified

Dimensions

• 10 x 7 x 1.75 inches

Warranty

•1-Year Limited Warranty

Maximum wireless signal rate derived from IEEE Standard 802.11ac, 802.11g, and 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

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

Before you contact technical support, please have the following ready:

- Model number of the product (e.g., DIR-882-US)
- Hardware Revision (located on the label on the bottom of the router [e.g., rev A1])
- Serial Number (s/n number located on the label on the bottom of the router).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

For customers within the United States:

Phone Support:

(877) 453-5465

Internet Support:

http://support.dlink.com

For customers within Canada:

Phone Support:

(800) 361-5265

Internet Support:

http://support.dlink.ca

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Please direct all inquiries to: Email: GPLCODE@DLink.com Snail Mail: Attn: GPLSOURCE REQUEST D-Link Systems, Inc. 17595 Mt. Herrmann Street Fountain Valley, CA 92708

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and non-commercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

Limited Warranty:

D-Link warrants that the hardware portion of the D-Link product described below ("Hardware") will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below ("Warranty Period"), except as otherwise stated herein.

- Hardware (excluding power supplies and fans): One (1) year
- Power supplies and fans: One (1) year
- Spare parts and spare kits: Ninety (90) days

The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty:

D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Software Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty:

The Limited Warranty provided hereunder for Hardware and Software portions of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim (USA):

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at https://support.dlink.com, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at https://rma.dlink.com/.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Please refer to shipping and packaging instructions located online at http://rma.dlink.com/.
- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

Submitting A Claim (Canada):

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- Customers need to provide their receipt (proof of purchase) even if the product is registered. Without a receipt, no warranty service will be done. The registration is not considered a proof of purchase.
- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-800-361-5265, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at https://rma.dlink.ca/.
- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to
 ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not
 include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the product and will not ship
 back any accessories.

- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will be rejected by D-Link. Products shall be fully insured by the customer and shipped to D-Link Networks, Inc., 2525 Meadowvale Boulevard Mississauga, Ontario, L5N 5S2 Canada. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via Purolator Canada or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in Canada, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.
- RMA phone number: 1-800-361-5265 Hours of Operation: Monday-Friday, 9:00AM 9:00PM EST

What Is Not Covered:

The Limited Warranty provided herein by D-Link does not cover:

Products that, in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product.

While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

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CE Mark Warning:

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Operations in the 5.15-5.25GHz / $5.470 \sim 5.725$ GHz band are restricted to indoor usage only.

IMPORTANT NOTICE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

If this device is going to be operated in $5.15 \sim 5.25$ GHz frequency range, then it is restricted in indoor environment only. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

ICC Notice:

Operation is subject to the following two conditions:

- 1) This device may not cause interference and
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

- (i) The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems;
- (ii) The maximum antenna gain (2dBi) permitted (for devices in the band 5725-5825 MHz) to comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate, as stated in section A9.2(3).

In addition, users should also be cautioned to take note that high-power radars are allocated as primary users (meaning they have priority) of the bands 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

Règlement d'Industry Canada

Les conditions de fonctionnement sont sujettes à deux conditions:

- (1) Ce périphérique ne doit pas causer d'interférence et.
- (2) Ce périphérique doit accepter toute interférence, y compris les interférences pouvant perturber le bon fonctionnement de ce périphérique.

Registration

Register your product online at registration.dlink.com



Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

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