



User Manual

Wireless AC1900 Dual Band Gigabit Cloud Router

DIR-880L

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	Date	Description
1.00	February 07, 2014	<ul style="list-style-type: none">Initial release
1.04	May 5, 2016	<ul style="list-style-type: none">Update Regulatory Statements for EU

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ErP Power Usage

This device is an Energy Related Product (ErP) with High Network Availability (HiNA), and automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted. It can also be turned off through a power switch to save energy when it is not needed.

Network Standby: 8.4 watts

Switched Off: 0.1 watts

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Package Contents



DIR-880L
Wireless AC1900 Dual Band Gigabit Cloud Router



Three External Antennas



Ethernet Cable



Power Adapter



Wi-Fi Configuration Note



Quick Installation Card



D-Link Cloud Service Mobile Apps Guide



CD-ROM

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-880L will cause damage and void the warranty for this product.

System Requirements

Network Requirements	<ul style="list-style-type: none">• An Ethernet-based cable or DSL modem• 802.11ac (draft), n, g, b, or a wireless or Ethernet port
Web-based Configuration Utility Requirements	<p>Computer with the following:</p> <ul style="list-style-type: none">• Windows®, Macintosh, or Linux-based operating system• An installed Ethernet adapter <p>Browser Requirements:</p> <ul style="list-style-type: none">• Internet Explorer 7 or higher• Firefox 3.5 or higher• Safari 4 or higher• Chrome 8 or higher <p>Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p>
mydlink Requirements	<ul style="list-style-type: none">• iPhone/iPad/iPod Touch (iOS 4.0 or higher)• Android device (2.3 or higher)• Computer with the following browser requirements:<ul style="list-style-type: none">• Internet Explorer 7 or higher• Firefox 3 or higher• Safari 5 or higher• Chrome 5 or higher

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Introduction

The D-Link DIR-880L Wireless AC1900 Dual Band Gigabit Cloud Router uses advanced AC beamforming technology to maximize the speed and range of your wireless signal to significantly outperform 802.11n and other 802.11ac devices. It also comes equipped with four Gigabit ports to provide speeds up to 10x faster than standard 10/100 ports. With the addition of Advanced Quality of Service (QoS), data streams are separated, which helps organize and prioritize your network traffic so your video streaming, gaming, and VoIP calls run smoother over both your wired and wireless network.

The DIR-880L supports a host of cloud features including QRS Mobile, which allows you to setup and configure the router using a mobile app. You can set up your router right from your sofa, no PC required.

The Wireless AC1900 Dual Band Gigabit Cloud Router is also mydlink-enabled, which gives you access to your home network no matter where you go. Now you can monitor and manage your home network right from your laptop, iPhone®, iPad®, or Android™ device. mydlink-enabled routers can be configured to send an email to keep you informed anywhere, anytime when new devices are connecting to your network or unwanted access is detected. Monitor in real-time websites that are being visited with recent browser history displayed on the mydlink™ Lite app – which is great for parents.

SharePort technology lets you take advantage of the USB 3.0 port found on the back of your DIR-880L (as well as an additional USB 2.0 port). Plug in a USB storage drive and you can use the mydlink SharePort™ app for iPad®, iPhone®, iPod Touch®, and Android™ device to access files, stream videos, view photos, or listen to music on your laptop or mobile devices. Plug in a printer and you can use the mydlink SharePort app to share that printer with all of your devices.

The DIR-880L Wireless AC1900 Dual Band Gigabit Cloud Router provides incredible speeds, smart antenna technology, fast ports, cloud features, and terrific security features. It also features an innovative design and easy installation options.

Features

- **Faster Wireless Networking** - The DIR-880L uses advanced AC beamforming to provide up to a full 1900 Mbps* wireless connection with concurrent 801.11ac and 802.11n wireless clients . It also operates on both the 2.4 GHz and 5 GHz bands to allow separation of traffic so users can participate in high-bandwidth activities, such as video streaming, online gaming, and real-time audio, without affecting low-priority traffic like email and web surfing.
- **Cloud Features** - The DIR-880L support the QRS Mobile app to setup the router using a mobile device. It is also mydlink-enabled so you can remotely access and mange your DIR-880L from a mobile device. The mydlink SharePort™ app can be used to share files, stream videos, view photos, and play music. SharePort Plus lets you share a printer.
- **Compatible with 802.11n/g/b/a Devices** - The DIR-880L is still fully compatible with the 802.11n, IEEE 802.11g and 802.11a standards, so it can connect with existing 802.11n, 802.11g, 802.11b, and 802.11a wireless devices.
- **Advanced Firewall Features** - The web-based user interface displays a number of advanced network management features including:
 - **Content Filtering** - Easily applied content filtering based on MAC address, URL, and/or domain name.
 - **Filter Scheduling** - These filters can be scheduled to be active on certain days, or for a duration of hours or minutes.
 - **Secure Multiple/Concurrent Sessions** - The DIR-880L can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DIR-880L can securely access corporate networks.
- **User-friendly Setup Wizard** - Through its easy-to-use web-based user interface, the DIR-880L lets you control what information is accessible to those on the wireless network, whether from the Internet, or from your company's server. Configure your router to your specific settings within minutes.

* Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11b, 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.

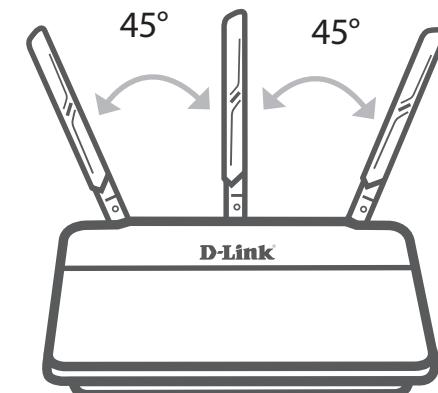
Antenna Setup

In order to use the router's wireless functionality, you need to attach the included three antennas to the router. To do this, screw each antenna into the three screw fittings on the back of the router.

Note: Each antenna is identical, so it does not matter which antenna is screwed into which fitting.

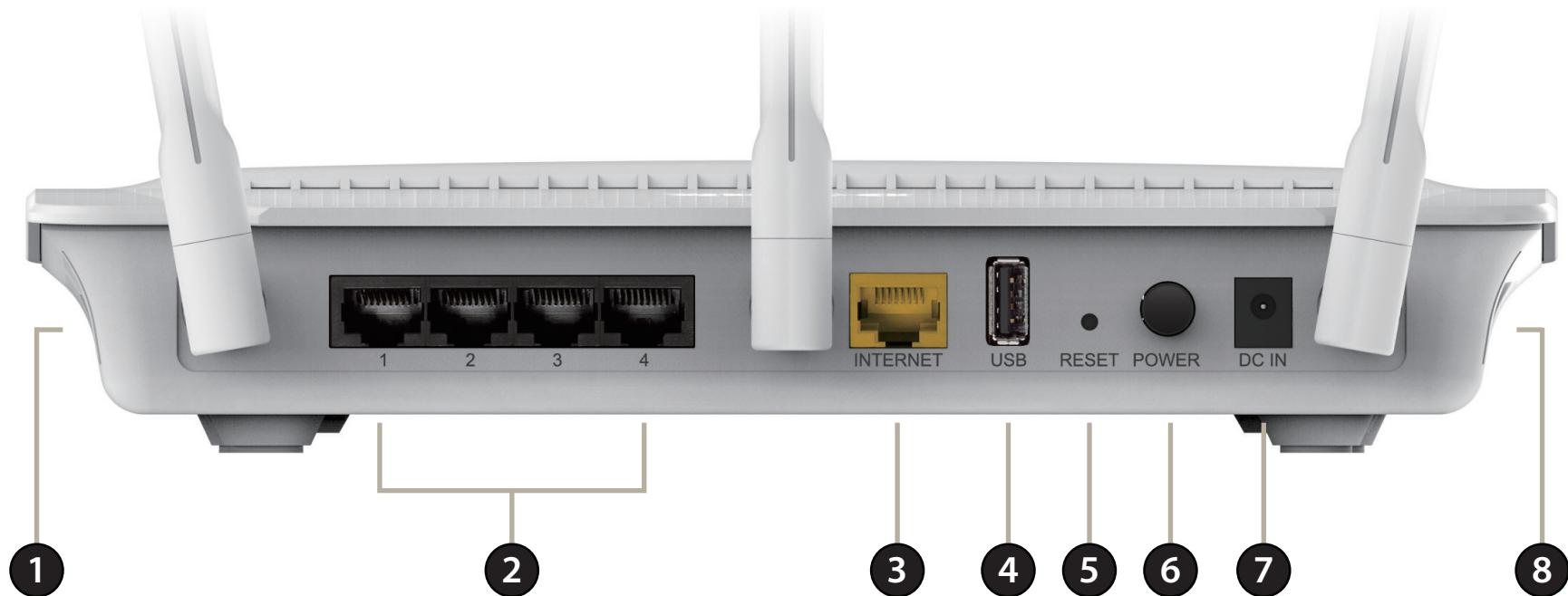


For best performance, position the router's antennas with their flat side facing towards the front, and tilt the left and right antennas sideways from the center at a 45 degree angle.



Hardware Overview

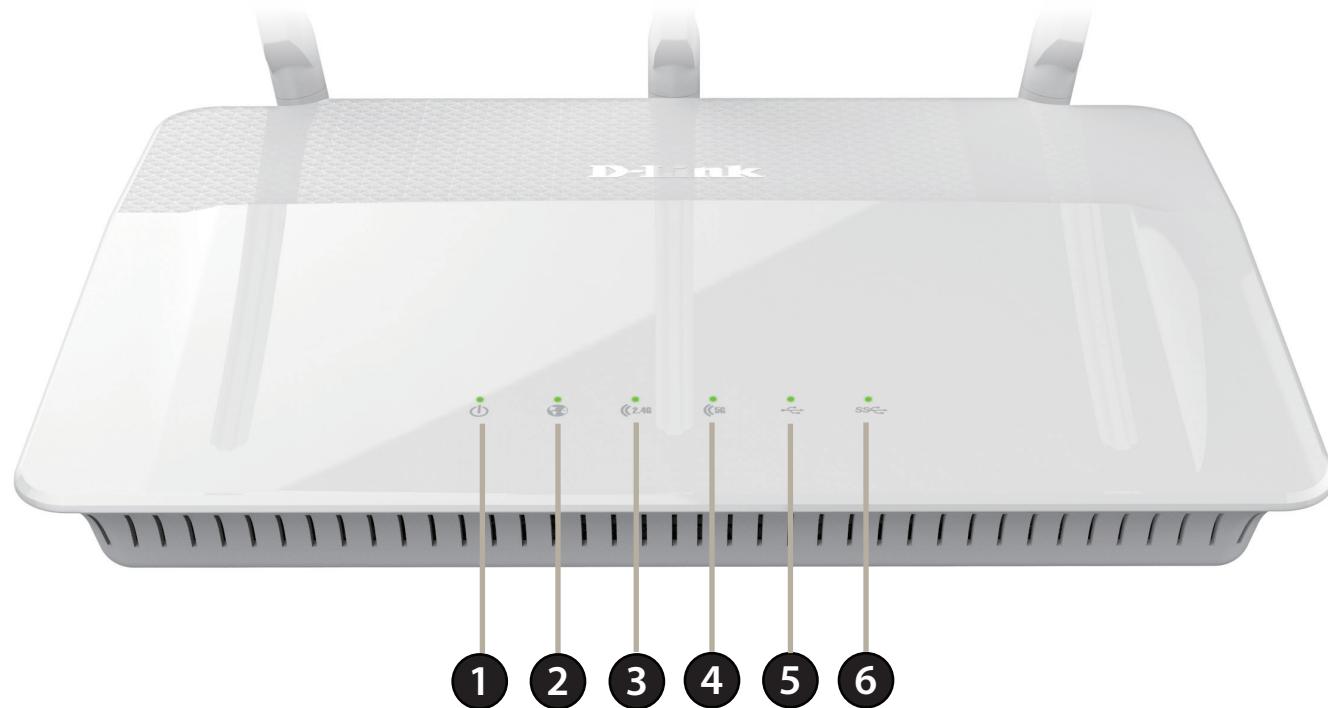
Connections



1	WPS Button	Press to start the WPS process and automatically create a secure connection to a WPS client.
2	Gigabit LAN Ports (1-4)	Connect Ethernet devices such as computers, switches, storage (NAS) devices and game consoles.
3	Gigabit Internet Port	Using an Ethernet cable, connect your broadband modem to this port.
4	USB 2.0 Port	Connect a USB flash drive to share content , or connect it to a USB printer to share it on your network.
5	Reset Button	Insert a paperclip in the hole and wait for several seconds to reset the router to default settings.
6	Power Button	Press the power button to power on and off.
7	Power Receptor	Receptor for the supplied power adapter.
8	USB 3.0 Port	Connect a USB flash drive to share content , or connect it to a USB printer to share it on your network.

Hardware Overview

LEDs



1	Power LED	A solid blue 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 connection is good but the router cannot connect to the Internet.
3	Wireless (2.4 GHz) LED	A solid blue light indicates that the 2.4 GHz wireless band is enabled.
4	Wireless (5 GHz) LED	A solid blue light indicates that the 5 GHz wireless band is enabled.
5	USB 2.0 LED	A solid blue light indicates that a USB device detected in the USB 2.0 port.
6	USB 3.0 LED	A solid blue light indicates that a USB device detected in the USB 3.0 port.

Installation

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

Before you Begin

- Please configure the router with the computer that was last connected directly to your modem.
- You can only use the Ethernet port on your modem. If you were using the USB connection before using the router, then you must turn off your modem, disconnect the USB cable and connect an Ethernet cable to the Internet port on the router, and then turn the modem back on. In some cases, you may need to call your ISP to change connection types (USB to Ethernet).
- If you have DSL and are connecting via PPPoE, make sure you disable or uninstall any PPPoE software such as WinPoET, BroadJump, or EnterNet 300 from your computer or you will not be able to connect to the Internet.

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.

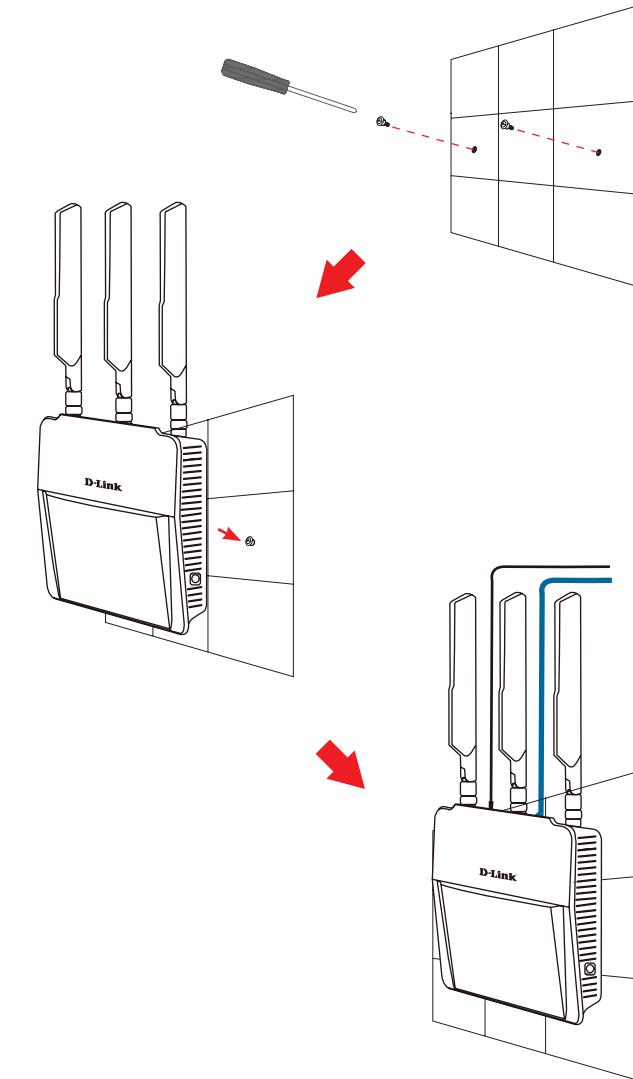
Wall Mounting

You can mount the DIR-880L on a wall or partition for ease and convenience.

To wall mount your device:

Step 1

Screw the provided screws to the wall to which the router will be mounted.

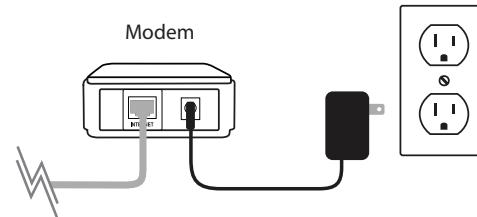


Step 3

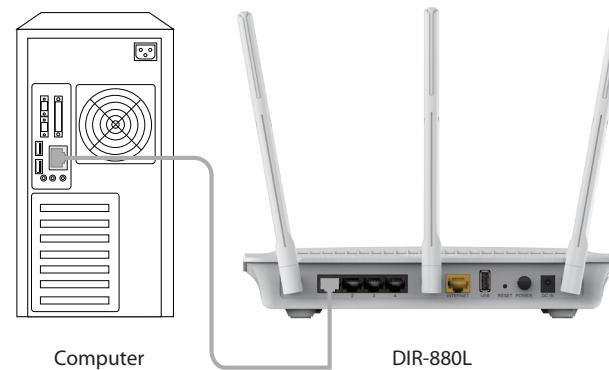
Finally, connect the required cables to the device as outlined on page 11.

Manual Setup

1. Turn off and unplug your cable or DSL broadband modem. This is required.



2. Position your router close to your modem and a computer. Place the router in an open area of your intended work area for better wireless coverage.
3. Unplug the Ethernet cable from your modem (or existing router if upgrading) that is connected to your computer. Plug it into the LAN port labeled **1** on the back of your router. The router is now connected to your computer.



4. Plug one end of the included Ethernet cable that came with your router into the yellow port labeled INTERNET on the back of the router. Plug the other end of this cable into the Ethernet port on your modem.



5. Reconnect the power adapter to your cable or DSL broadband modem and wait for two minutes.
6. Connect the supplied power adapter into the power receptor on the back of the router and then plug it into a power outlet or surge protector. Press the power button and verify that the power LED is lit. Allow 1 minute for the router to boot up.

Note: This unit is to be used with power supply model WA-36C12R.



7. If you are connecting to a broadband service, you may be online already and further configuration will be optional.

Getting Started

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. Refer to page 14.
- **QRS Mobile App** - Use your iPhone, iPad, or iPod Touch to configure your router. Refer to page 19.
- **Manual Setup** - Log into the router and manually configure your router. Refer to page 60

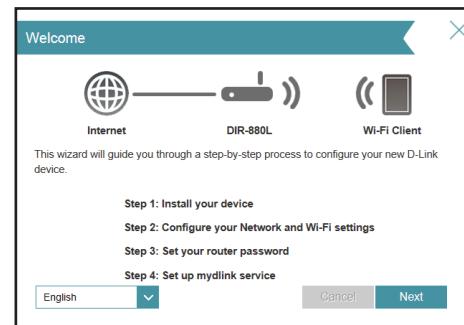
Setup Wizard

If this is your first time installing the router, open your web browser and enter **http://dlinkrouter.local/** in the address bar. Alternatively, enter the IP address of the router (default: **http://192.168.0.1**). Please refer to page 60.

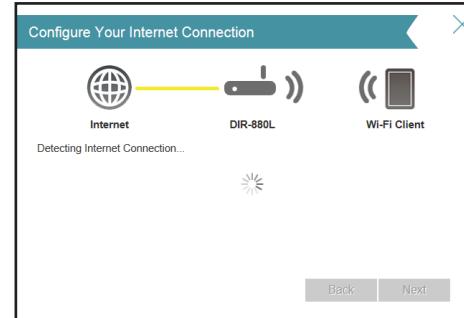


The wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

Click **Next** to continue.

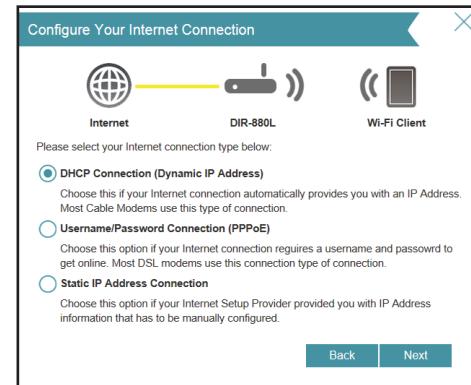


Please wait while your router detects your Internet connection type. If the router detects your Internet connection, you may need to enter your ISP information such as username and password.



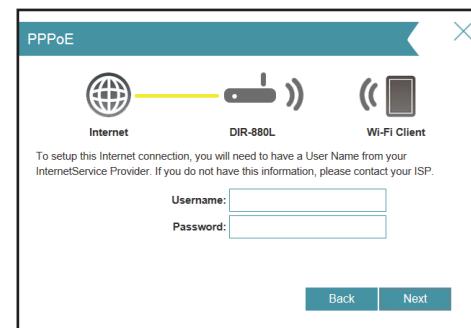
If the router does not detect a valid Internet connection, a list of connection types to choose from will be displayed.

Select your Internet connection type (this information can be obtained from your Internet service provider) and click **Next** to continue.

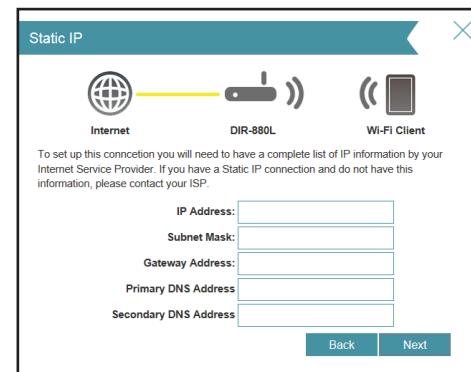


If the router detected or you selected **PPPoE**, enter your PPPoE username and password and click **Next** to continue.

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



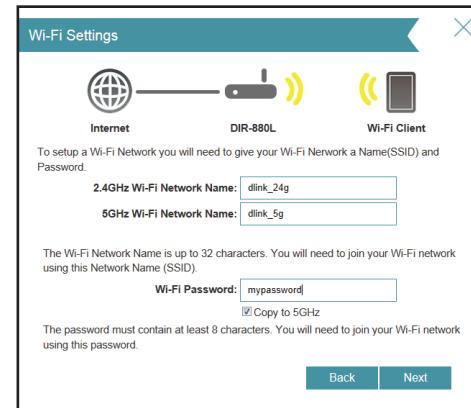
If the router detected or you selected **Static**, enter the IP and DNS settings supplied by your ISP. Click **Next** to continue.



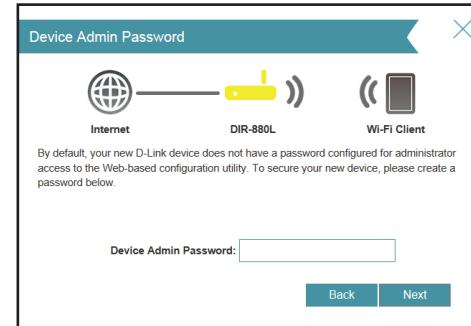
For both the 2.4 GHz and 5 GHz segments, create a Wi-Fi network name (SSID) using up to 32 characters.

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

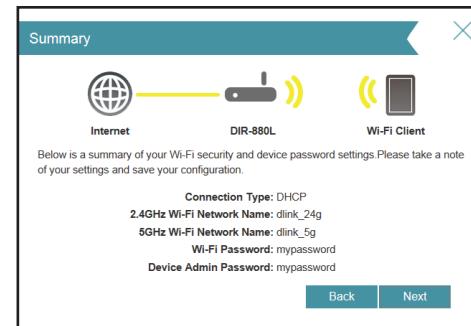
Click **Next** to continue.



In order to secure the router, please enter a new password. You will be prompted for this password every time you want to use the router's web configuration utility. Click **Next** to continue.



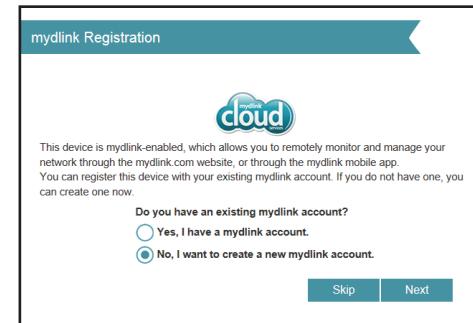
The Summary window will display your settings. Click **Next** if you are satisfied, or click **Back** to make changes to them.



To use the mydlink service (mydlink.com or the mydlink Lite app), you must have an account. Select **Yes** if you have a mydlink account already, or **No** if you want to create one. Click **Next** to continue.

If you do not want to register at this time, click **Skip**.

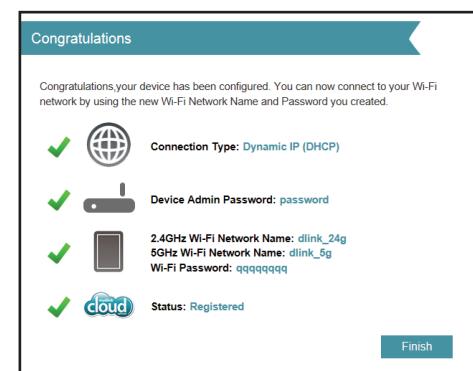
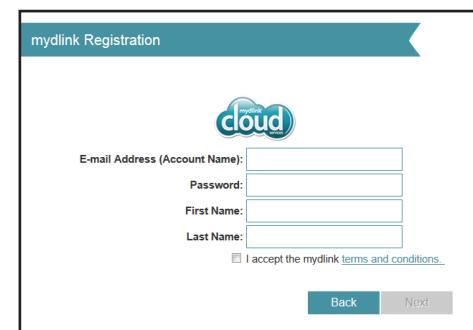
If you clicked **Yes**, enter your mydlink account name (email address) and password. Click **Next** to register your mydlink account with the router.



If you clicked **No**, fill out the requested information and click **Next** to create your mydlink account.



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



The mydlink App will allow you to receive notices, browse network users, and configure your router from an iPhone/iPad/iPod Touch (iOS 3.0 or higher), Android device (1.6 or higher).

To download the "mydlink Lite" app, visit the Apple Store, Android Market or <http://mydlink.com/Lite>.



PC and Mac users can use the mydlink portal at <http://mydlink.com>.

A screenshot of the mydlink portal website. The header includes links for 'FAQ | Support | Language: English' and social sharing options ('Share' and 'Tweet'). The main navigation bar has tabs for 'What's mydlink', 'Access Anywhere', 'Product Family', and 'Experience mydlink'. A large banner image shows a golden retriever lying on a sofa. To the right is a 'Sign in to mydlink' form with fields for 'Name@example.com' and 'Password', a 'Remember me' checkbox, and a 'Sign in' button. Below the sign-in is a section titled 'See your home from anywhere' with a subtext about mydlink-enabled network cameras. There are also news items in a 'News & Maintenance' section and a 'Support & Download' section.

QRS Mobile App

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

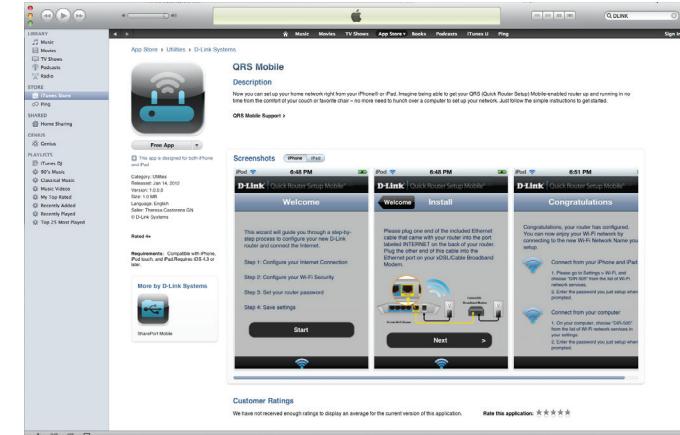
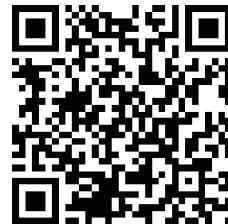
Step 1

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

For the iTunes Store, you may also scan this code to download.



For Google Play, you may also scan this code to download.



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.

D-Link DIR-836L Router Wi-Fi Configuration Note
Web browser link: http://dlinkrouter.or http://192.168.0.1
Default configuration
Username: "Admin"
Password: "" (leave the field blank)
Wi-Fi Name (SSID): dlink-a8fa
Wi-Fi Password: akbdj19368
Web browser link: http://dlinkrouter.or http://192.168.0.1
Your configuration
Username: Admin
Password:
Wi-Fi Name (SSID): <input type="text"/>
Wi-Fi Password: <input type="password"/>

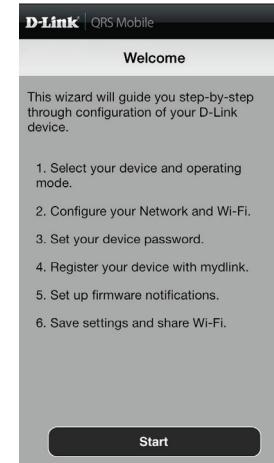
Step 3

Once you connect to the router, launch the QRS mobile app from the Home screen of your device.



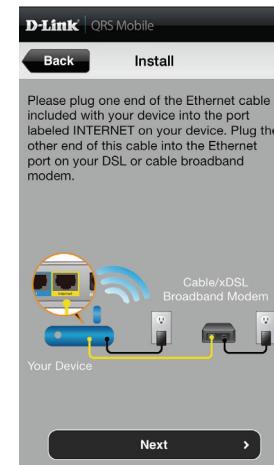
Step 4

You will see the welcome screen. Tap **Start** to proceed, then **Next** once the Operation Mode screen appears.



Step 5

At this point, please ensure that you the 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-880L. Tap **Next** to automatically detect your Internet connection and proceed to the next step.



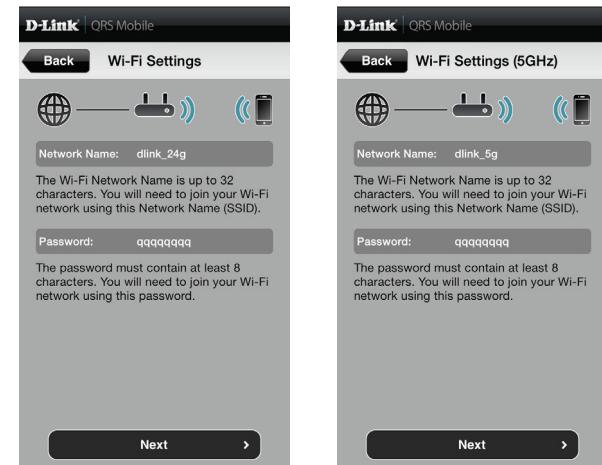
Step 6

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

Firstly, enter a network name (SSID) of your choice, or leave it unchanged to accept the default SSID. Each wireless band can be assigned its own SSID.

Secondly, choose a Wi-Fi password of at least 8 characters. Any device trying to connect to the router wirelessly will need to enter this password the first time it connects.

Finally, tap **Next** to proceed.



Step 7

Enter the administrator password of your choice. Unlike the Wi-Fi password, this password is only required when you need to configure the router. See page 60 for details of when this password is used. Tap **Next** to proceed.

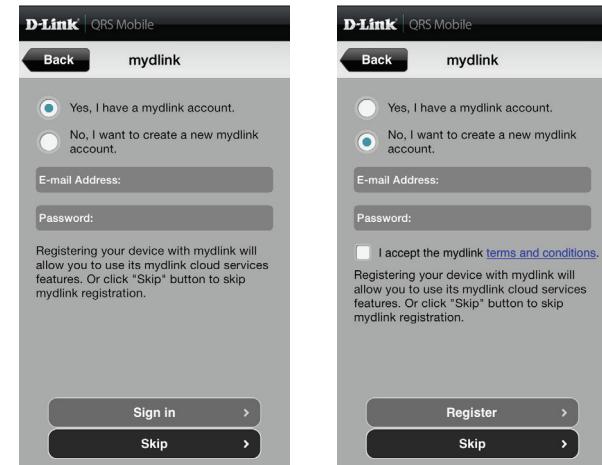


Step 8

If you already have a mydlink account, select **Yes, I have a mydlink account** and enter your mydlink email address and password. Lastly, tap **Sign In** to set up the router to use your mydlink account.

If you do not have a mydlink account, select **No, I want to create a new mydlink account**. Enter your email address, choose a mydlink password and check the **I accept the mydlink terms and conditions** box. Finally, tap **Register** to create your new mydlink account.

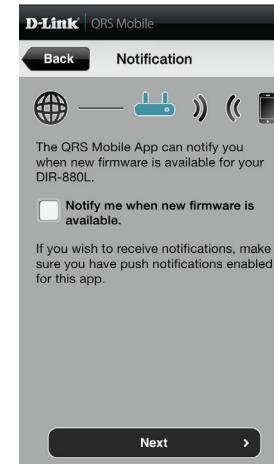
If you do not want to configure your router with mydlink at this stage, tap **Skip** to proceed.



Step 9

If you wish to receive push notifications whenever a new firmware update is available, check the **Notify me when new firmware is available** box and tap **Next**.

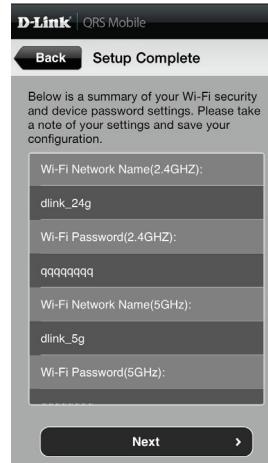
Otherwise, just tap **Next** to proceed.



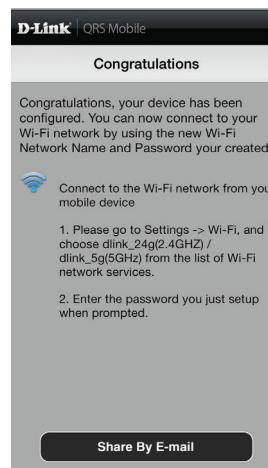
Step 10

You will be presented with a summary of your chosen settings. If you wish 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 app.



mydlink SharePort

Using the mydlink SharePort™ app for iPad®, iPhone®, and iPod Touch®

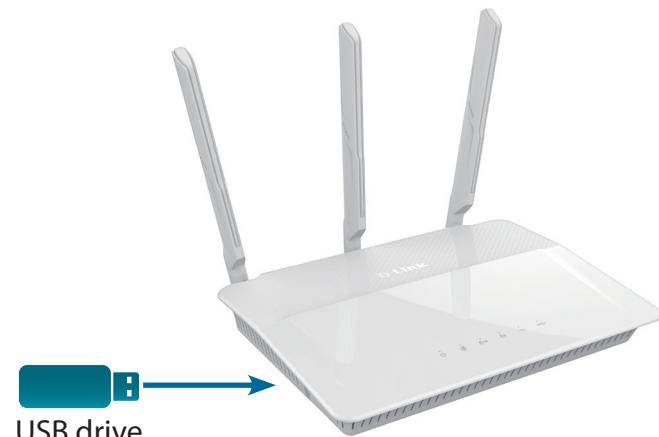
The mydlink SharePort™ app is a streamlined mobile application that allows you to conveniently stream media and share files stored on a removable storage connected to your router. Once the router is set up, you can start the app and easily connect from a local network or through the Internet to access your photos, videos, music, and documents. It allows you to create your own personal cloud storage. You can upload files and photos from your mobile device to the removable storage via the app from anywhere in the world!

Note: In order to ensure smooth streaming performance, you will need a minimum of 2 Mbit/s upload bandwidth for your router's Internet connection. Streaming performance will vary depending on the quality of your Internet connection.

Note: If you choose to skip the mydlink SharePort registration during the initial setup of your DIR-880L, you may begin the registration process anytime by accessing the mydlink SharePort feature from within the router configuration. Please see page 95 for details on how to begin the mydlink shareport registration process.

1. If you are connecting remotely through the mydlink SharePort™ app from the Internet, you will need a **mydlink** account.
2. Make sure the device is powered on. Then plug your USB drive into the USB port of the device.

Note: If you connect a removable storage with many files or a large capacity, it may take a while for the router to scan and catalog your files.



3. Use your iPhone, iPad or iPod Touch to search for and download the free **mydlink SharePort™** app from the App Store.



If you have a QR code reader, you can scan the code for **mydlink SharePort™** to the right.



4. If you are connecting to the router from a local network:

On your mobile device, go to your Wi-Fi settings and connect to your router's wireless network using the default Wi-Fi settings. Locate the Wi-Fi name (SSID) and password for your device as printed on the included Wi-Fi Configuration Card.

If you are connecting to the router from a remote network:

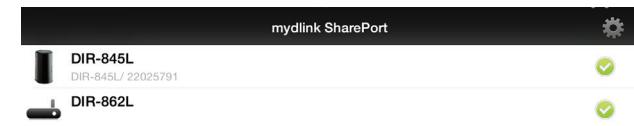
Go directly to the next step.



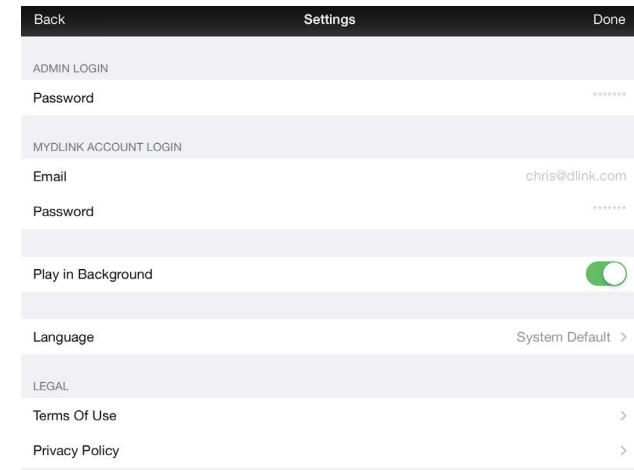
5. Tap the mydlink SharePort icon, and the app will load.



6. At the mydlink SharePort device list page, tap the gear icon at the top right to enter the Settings page.



7. Enter your Admin Login and your mydlink Account Login information in the fields and click **Done**. You will be taken back to the device list where you can select the device for use with mydlink SharePort.



8. You can now use the mydlink SharePort app interface to stream media and access files stored on your removable drive. The wireless icon at the bottom will be lit blue to indicate a Local Access connection. It will be green to indicate you are connected to the router through Remote Access.

Note: If you see a red wireless icon, your router's network environment may not be suitable for a direct network connection and you may experience slow network speeds.



Main Menu

The mydlink SharePort main menu has different sections that let you see all the documents, photos, movies, or music stored on your removable storage. Tap < or >, or swipe left or right to move between the different sections. The Wi-Fi icon at the bottom indicates an active local network connection (blue) or remote connection (green/red). Tap **Log In** if it is not lit, or **Log Out** to return to the login page.



Tap on the document icon to view documents.



Tap the camera icon to view photos.



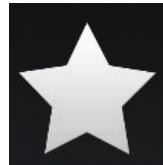
Tap on the movie icon to play videos.



Tap on the music icon to play audio files.



Tap on the folder icon to browse all files in a folder view.

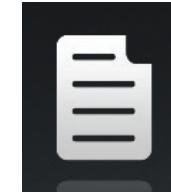


Tap on the star icon to access your favorite files.



Documents

The Documents section allows you to share, print, and view documents streamed from your DIR-880L to your mobile device. Tap the document icon on the main menu to browse the documents on your mobile device.



Search Bar: Enter a filename here to search your storage.



Tap to mark files for deletion.



Tap the star icon next to each file to download it to your device and add it into your Favorites section.



Tapping this icon gives you additional options:

- **Mail:** Tap to e-mail the file.
- **iCloud:** Tap to store the file on iCloud.
- **AirPrint:** Tap to print the file.
- **Open In....** Tap to use a third-party app to open the file.

File Name	Size	Last Modified	Actions
Giltbox Editing.pptx	7.64MB	2009-06-16 13:40:34	
Network Storage - DAS, NAS, SAN.ppt	6.94MB	2009-06-24 06:52:38	
Network Storage - NAS.ppt	3.84MB	2009-03-18 02:44:30	
Switch - D-View 6 Introduction.ppt	1.20MB	2009-02-20 09:55:13	
Switch - Switch Basics.ppt	1.20MB	2009-03-12 03:42:10	
Wireless - Antenna Concepts.ppt	17.08MB	2009-03-20 06:06:36	
Wireless - Wireless Access Point.ppt	3.63MB	2009-02-11 06:31:45	
20090514 GPON introduction.ppt	6.86MB	2009-05-17 14:04:28	
20090714_CableModem.ppt	8.29MB	2009-07-31 03:58:54	
20090911_CableModem.ppt	7.31MB	2009-10-20 10:04:20	
UTM Firewall Management.pdf	728.70KB	2009-01-15 06:47:02	
Second Generation D-Link Green Switches_2009_01_12.pdf			

Home Refresh Sort

The bottom menu bar includes these options:



Tap to go back to the main menu.



Tap to update the list of files.



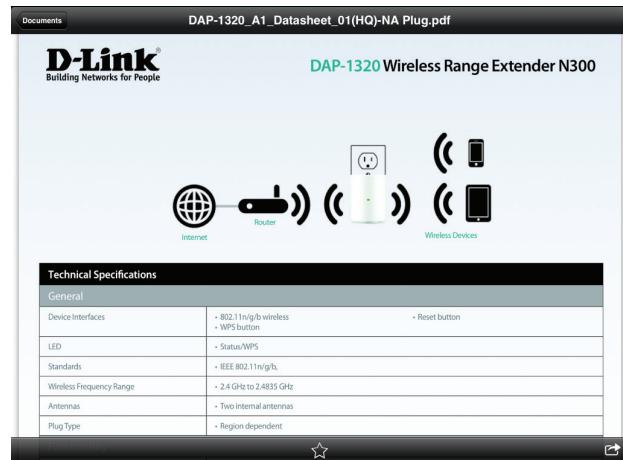
Tap to reorder the files alphabetically.

Tap on a file to start the document viewer. In the viewer:

 Tap to add/remove the file from your Favorites.

 Tap to bring up the same options as >.

Note: Some files may require a third-party app to view them.



Pictures

The Pictures section allows you to stream images from your DIR-880L to your mobile device. Tap the camera icon on the main menu to browse your photo collection on your removable storage.



Search Bar: Enter a filename here to search your storage.



Tap to mark files for deletion.



Tap the star icon next to each file to download it to your device and add it into your Favorites section.



Tapping this icon gives you additional options:

- **Mail:** Tap to e-mail the image.
- **iCloud:** Tap to store the image on iCloud.
- **AirPrint:** Tap to print the image.
- **Facebook:** Tap to upload the image to your Facebook account.
- **Twitter:** Tap to upload the image to your Twitter account.
- **Open In...:** Tap to use a third-party app to open the file.

The bottom menu bar includes these options:



Tap to go back to the main menu.



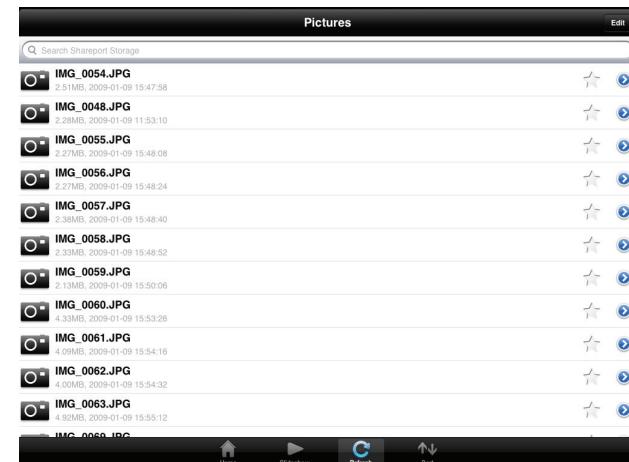
Tap to start a slideshow of your photos. Tap the screen again to bring up the menu.



Tap to update the list of files.

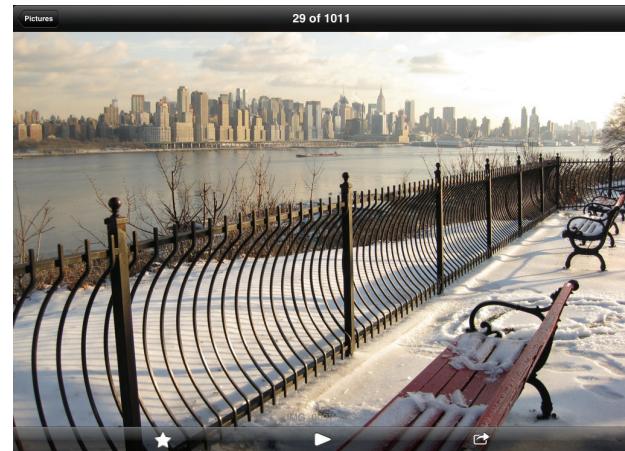


Tap to reorder the files alphabetically.



Tap on a file to start the photo viewer. In the viewer:

- ☆ Tap to add/remove the current image from your Favorites.
- ▶ Tap to start the slideshow.
- ⟳ Tap to bring up the same options as >.



Videos

The Videos section allows you to stream video clips and movies from your DIR-880L to your mobile device. Tap the movie icon on the main menu to browse your videos on your removable storage.



Search Bar: Enter a filename here to search for a specific file.

-  Tap to mark files for deletion.
-  Tap the star icon next to a file to download it to your device and add it into your Favorites section.
-  Tapping this icon gives you additional options:
 - **Mail:** Lets you e-mail the file.
 - **iCloud:** Lets you store the file on iCloud.
 - **Open In...:** Lets you use a third-party app to open the file.

A screenshot of the DIR-880L SharePort Storage interface. The screen shows a list of video files with their names, sizes, and upload dates. Each file entry includes a star icon for favoriting, a trash bin icon for deletion, and a more options icon. At the bottom of the screen, there is a navigation bar with icons for Home, Refresh, and Sort.

File Name	Size	Last Modified	Actions
20130509_110404_IMG_0240.MOV	5.02MB	2013-05-09 11:04:04	Star, Delete, More
DIR-865L Introduce Flash.mp4	27.36MB	2012-09-10 09:00:00	Star, Delete, More
DIR-865L Introduce Video.mp4	12.83MB	2012-07-17 21:30:00	Star, Delete, More
DIR-505 Introduce Flash.mp4	5.10MB	2012-05-22 02:14:22	Star, Delete, More
DIR-505_Sales_Video.mp4	98.97MB	2012-06-22 02:59:24	Star, Delete, More
Dlink_SharePort Video_DUS.mp4	9.13MB	2012-07-17 20:20:00	Star, Delete, More
DIR-505_Setup_Video.mp4	125.30MB	2012-09-21 07:52:14	Star, Delete, More
Movie1.mp4	22.57MB	2011-12-06 17:08:46	Star, Delete, More
Movie2.mp4	7.81MB	2011-12-06 17:10:16	Star, Delete, More
Movie3.mp4	24.97MB	2011-12-06 17:14:18	Star, Delete, More
Movie4.mp4	23.09MB	2011-12-06 17:19:00	Star, Delete, More
Movie5.mp4	22.09MB	2011-12-06 17:19:00	Star, Delete, More

The bottom menu bar includes these options:

-  Tap to go back to the main menu.
-  Tap to update the list of files.
-  Tap to reorder the files alphabetically.

Tap on a file to start playing it. In the player:

 Tap to play/pause the video. You can scroll to any time on the time line by holding and sliding your finger.

 Tap to enter/exit fullscreen mode.

 Tap to add/remove the file from your Favorites.

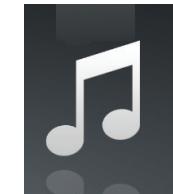
 Tapping this icon gives you additional options:

- **Mail:** Lets you e-mail the video.
- **iCloud:** Lets you store the video on iCloud.
- **Open In...:** Lets you use a third-party app to open the file.



Music

The Music section allows you to stream songs from your DIR-880L to your mobile device. Tap the music icon on the main menu to browse your music collection on your removable storage.



Search Bar: Enter a filename here to search your storage.

Tap to create a playlist and mark files for deletion.

Tap the star icon next to each file to download it to your device and add it into your Favorites section.

Tapping this icon gives you additional options:

- **Mail:** Lets you e-mail the file.
- **iCloud:** Lets you store the file on iCloud.
- **Open In...:** Lets you use a third-party app to open the file.

The bottom menu bar includes these options:

Tap to go back to the main menu.

Tap to update the list of files.

Tap to reorder the files alphabetically.

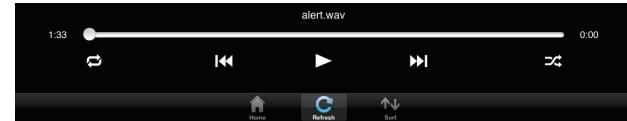
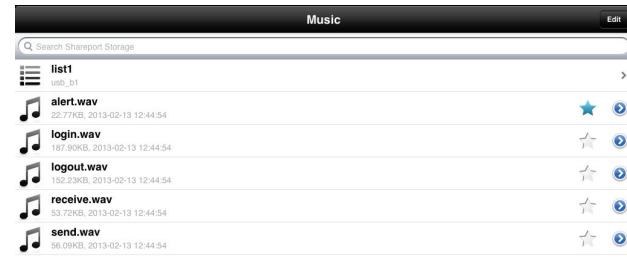
The interface shows a list of audio files in a table format. The columns include file name, size, and date modified. Each row has a delete icon and a favorite star icon. Below the list is a media control bar showing a progress bar at 1:33, and buttons for play, previous, next, and stop.

Tap on a file to start playing it. In the player:

 Tap to repeat all. Tap again to repeat a single song.

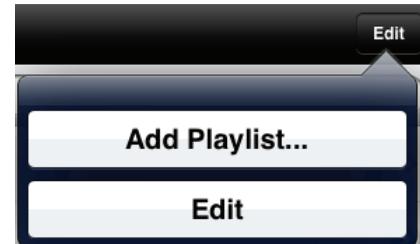
 Tap to skip to the previous/next song.

 Tap to enable/disable shuffle mode.



To create a playlist:

Tap **Edit** > **Add Playlist**.



Enter a name for the playlist, then tap **Save**.



The name of the playlist will appear in the browser next to the  icon.

To add songs to a playlist:

Tap the playlist in the browser.

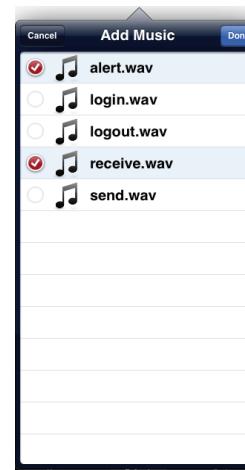
Tap **Add Music...** to add songs to the current playlist.

Tick the songs you wish to add and tap **Done**.

To delete songs from the playlist:

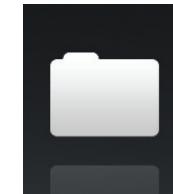
Tap **Edit** in the playlist browser and mark the files to be deleted.

Tap **Delete**.



Folders

You can browse your removable storage in a folder view in the folders section. Tapping the filename will open the viewer/player for that file type as described in the previous pages. You can also upload files from your mobile device to the removable storage attached to your router.



Search Bar: Enter a filename here to search your storage.

-  Tap to take you to the editing screen where you can add a folder and mark files for deletion or copying.
-  Tap the star icon next to each file to download it to your device and add it into your Favorites section.
-  Tapping the > icon gives you additional options depending on the file type.

File/Folder	Details
[Training Materials]	
test	
Global Marketing Digital Lib	
Martina.jpg	117.47KB, 2009-12-31 20:09:50
beyonce-the-destroyer.jpg	103.34KB, 2013-02-22 01:35:22
_dpi	
Programs	
Global Marketing Team Contact List_2013.xlsx	12.61KB, 2013-02-22 08:08:02
testa	
團體保險健康聲明書1020301.pdf	299.71KB, 2013-03-06 05:32:32
友訊團體保險名冊.pdf	220.09KB, 2013-03-06 05:32:16
ICON.indd	

The bottom menu bar includes these options:

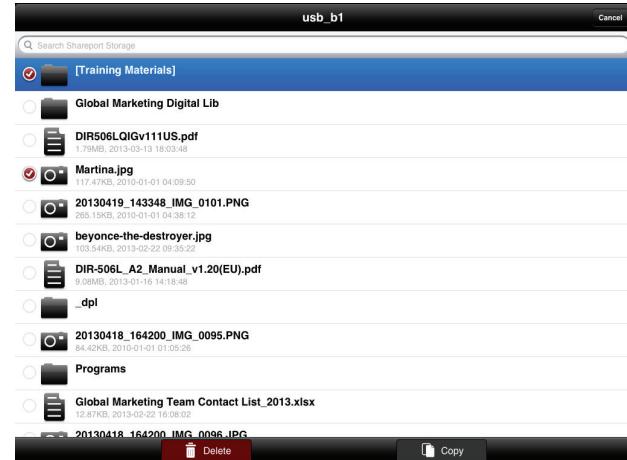
-  Tap to go back to the main menu.
-  Tap to upload files from your device to your removable storage.
-  Tap to update the list of files.
-  Tap to reorder the files alphabetically.

To delete files:

Tap **Edit** at the top right.

Tick the circle next to a file to mark it for deletion.

Tap on **Delete** at the bottom to delete the file.



To copy files:

Tap on **Copy** to bring up a window where you can select the folder to copy to.

Browse to the directory you want to copy the marked files to and tap **Paste**.

You can also tap **Add Folder** to create a new folder.



To create a new folder:

Browse to the directory you wish to create a new folder in.

Tap **Edit** at the top right.

Tap **Add Folder** to add a new folder.

Enter the name of the new folder, then tap **Save**.

Tap **OK** to confirm folder creation.



To upload images and videos from your mobile device:

Browse to the folder you wish to upload to.

Tap **Upload** at the bottom.

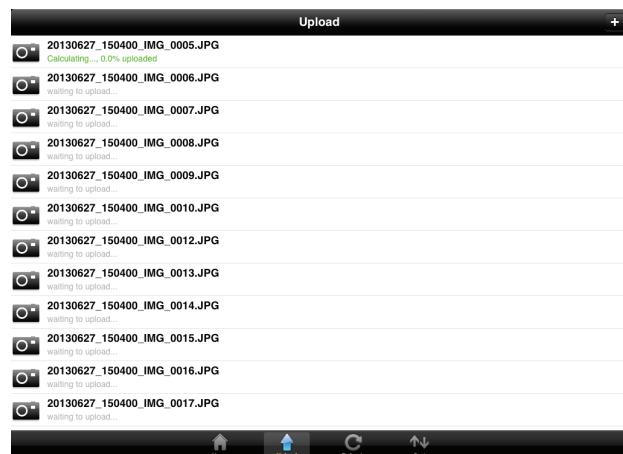
Select the photos/videos you wish to upload.

Tap **Done**.



During the upload process, the size of the file and the upload progress will be displayed.

To upload more files, tap the + icon at the top right and repeat the steps listed above.



Favorites

The Favorites section allows you to quickly access your most often used files, no matter what file type, in a special section. Files added to the Favorites section will be copied here for playback in a centralized location.



-  Tap to mark files for deletion from the local storage in Favorites. The file will still be accessible in other mydlink SharePort sections.
-  Tapping this icon gives you additional options depending on the file type.

The bottom menu bar includes these options:

-  Tap to go back to the main menu.
-  Tap to update the list of files.
-  Tap to reorder the files alphabetically.

Tap on a file to start the file viewer. In the viewer:

-  Tap to add/remove the file from your Favorites.
-  Tap to bring up additional options.



Downloaded	Favorites
20130509_115547.JPG 317.52KB, 2009-12-31 18:20:32	
dir636.JPG 1.46MB, 2009-12-31 18:37:22	
Network Storage - DAS, NAS, SAN.ppt 6.94MB, 2009-06-24 06:52:38	
20130509_110404.JPG_0240.MOV 5.02MB, 2009-12-31 17:28:56	
03.Pretty Boy.mp3 6.10MB, 2011-08-23 20:37:12	



Note: The file options available will vary depending on the file type.

Using the mydlink SharePort™ app for Android™

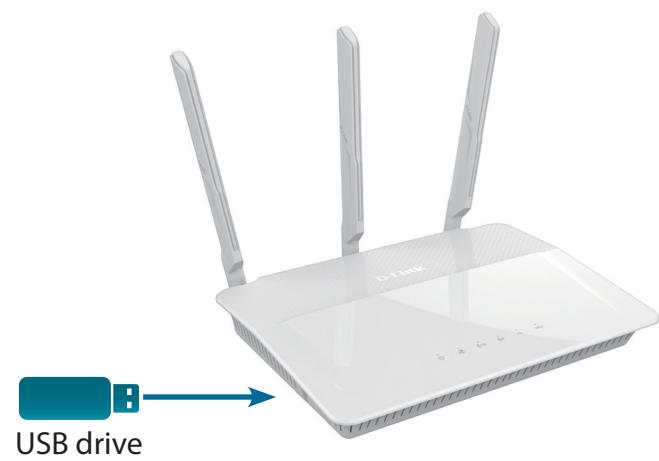
The mydlink SharePort™ app is a streamlined mobile application that allows you to conveniently stream media and share files stored on a removable storage connected to your router. Once the router is set up, you can start the app and easily connect from a local network or through the Internet to access your photos, videos, music, and documents. It allows you to create your own personal cloud storage; you can upload files and photos from your mobile device to the removable storage via the app from anywhere in the world!

Note: In order to ensure smooth streaming performance, you will need a minimum of 2 Mbit/s upload bandwidth for your router's Internet connection. Streaming performance will vary depending on the quality of your Internet connection.

If you are connecting remotely through the mydlink SharePort™ app from the Internet, you will need a **mydlink** account.

Make sure the device is powered on. Then plug your USB drive into the USB port of the device.

Note: If you connect a removable storage with many files or a large capacity, it may take a while for the router to scan and catalog your files.



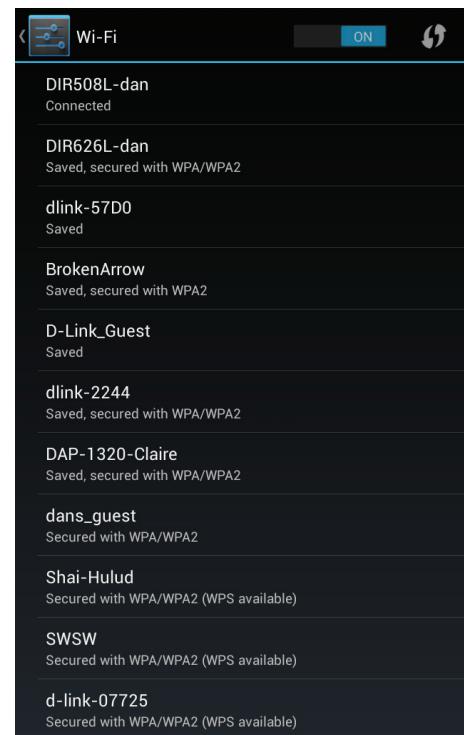
Use your Android mobile device to search for and download the free **mydlink SharePort™** app from Google Play™.



If you have a QR code reader, you can scan the code for **mydlink SharePort™** to the right.



On your mobile device, go to your Wi-Fi settings and connect to your router's wireless network using the default Wi-Fi settings. Your Wi-Fi network details can be found on the included Wi-Fi configuration card included with your router, or on the bottom of the router.



Once connected, tap the **mydlink SharePort™** icon, and the app will load.

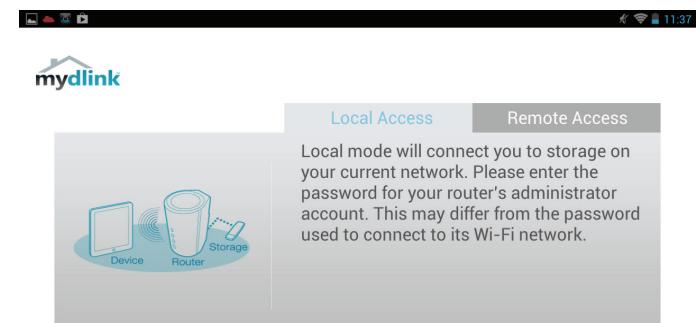
At the login page:

You can tap ? to see diagrams with descriptions of the two types of connections available.

If you are unsure about which connection method to choose, you can click **Remote Access**.

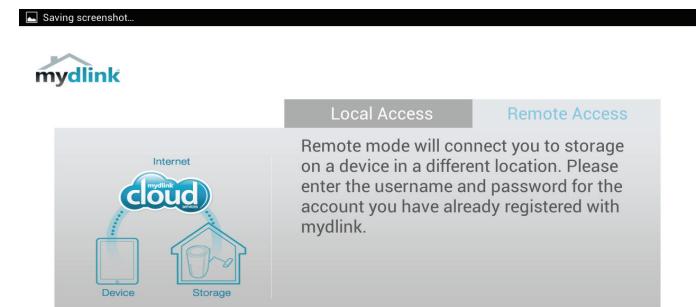
Local Access:

Local mode will connect you to storage on your current network. For example, if you are at home connecting to your router, choose this mode.

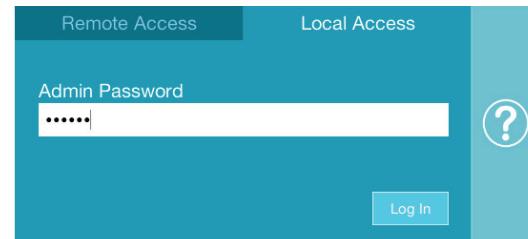


Remote Access:

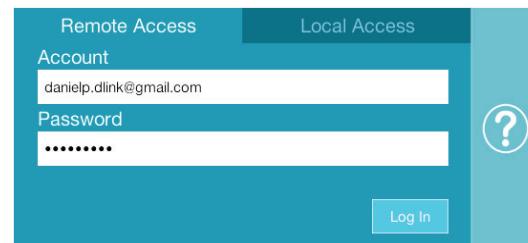
Remote mode will connect you to storage on your router in a different location. For example, you are at your office connecting to your router at home.



If you are directly connected to the DIR-880L's wireless network, tap Local Access and enter the Admin Password of your router, then tap Log In.



If you are connecting through the Internet tap Remote Access and enter your mydlink login information, then tap Log In. Tap on your router on the devices page that appears. You can now share your files.



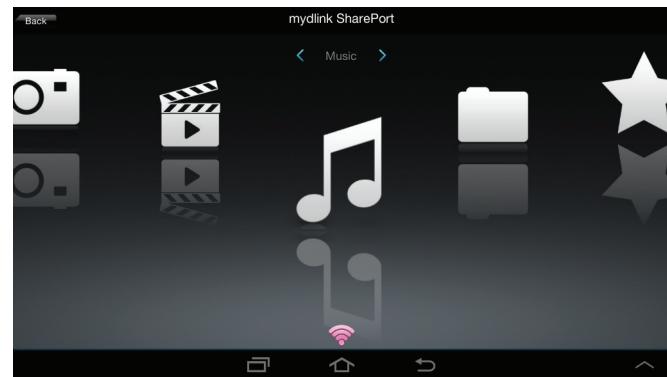
After logging in, select your router from the device list.



You can use the mydlink SharePort™ app interface to stream media and access files stored on your removable drive.

The wireless icon at the bottom will be lit blue to indicate a Local Access connection. It will be green to indicate you are connected to the router through Remote Access.

Note: If you see a red wireless icon, your router's network environment may not be suitable for a direct network connection and you may experience slow network speeds.



Main Menu

The mydlink SharePort main menu has different sections that let you see all the documents, photos, movies, or music stored on your removable storage. Tap < or >, or swipe left or right to move between the different sections. The Wi-Fi icon at the bottom indicates an active local network connection (blue) or remote connection (green/red). Tap **Log In** if it is not lit, or **Log Out** to return to the login page.



Tap on the document icon to view documents.



Tap the camera icon to view pictures.



Tap on the movie icon to play videos.



Tap on the music icon to play audio files.



Tap on the folder icon to browse all files in a folder view.



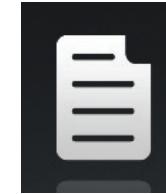
Tap on the star icon to access your favorite files.



Note: Available features may differ depending on the Android OS version of your device.

Documents

The Documents section allows you to share, print, and view documents streamed from your DIR-880L to your mobile device. Tap the document icon on the main menu to browse the files on your mobile device.



Search Bar: Type in the name of a file to search for it.



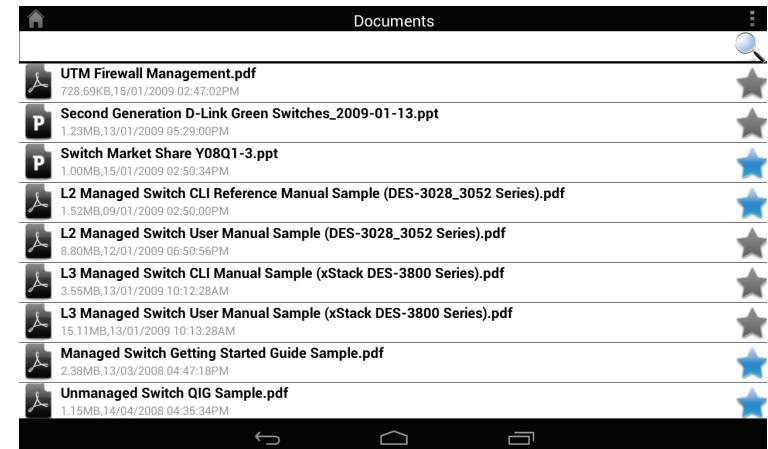
Tap to return to the main menu.



Tap to refresh, sort, or mark files for deletion.



Tap the star icon next to each file to download it to your device and add it into your Favorites section.



Tap for additional options:



Tap to return to the main menu.



Tap to update the list of files.



Tap to sort the files by name, size, type, or date.



Check a file then tap to delete it.



Tap on a file to start the document viewer. In the viewer:

Tap the screen to bring up zoom in/out buttons.

Drag the screen up or down to scroll between pages.

Tap  to perform File, Find, Zoom, Reading View, Go To Page, and Bookmarks actions.

Note: Available actions may differ depending on your Android OS.



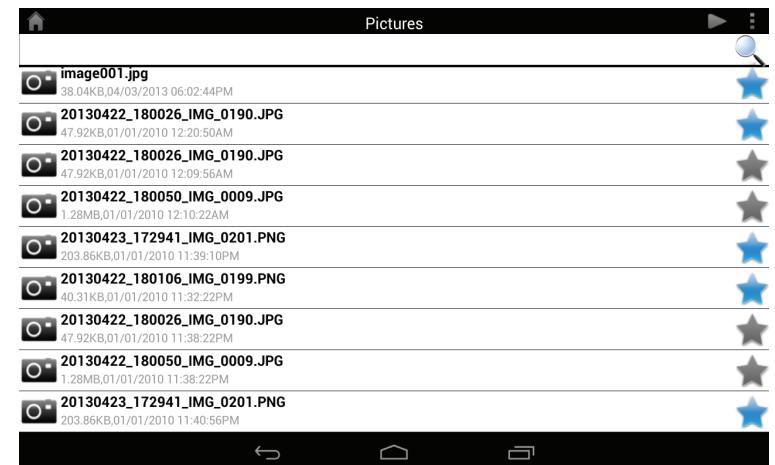
Pictures

The Pictures section allows you to view images streamed from your DIR-880L to your mobile device. Tap the camera icon on the main menu to browse your photo collection on your removable storage.



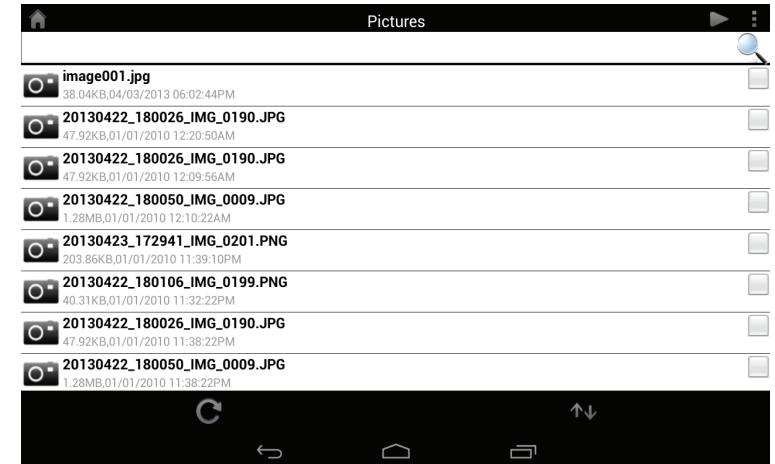
Search Bar: Type in the name of a file to search for it.

- Tap to return to the main menu.
- Tap to start a slideshow.
- Tap to refresh, sort, or mark files for deletion.
- Tap the star icon next to each file to download it to your device and add it into your Favorites section.



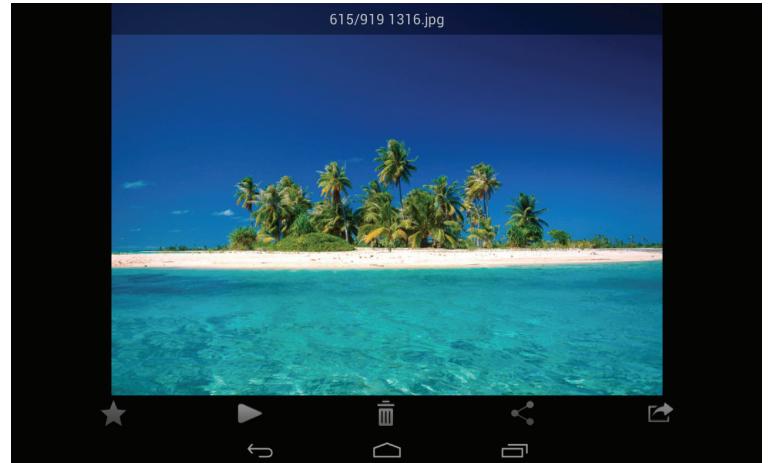
Tap for additional options:

- Tap to return to the main menu.
- Tap to update the list of files.
- Tap to sort the files by name, size, type, or date.
- Check a file then tap to delete it.



Tap on an image file to start the image viewer. In the viewer:

- ★ Tap the star icon to download it to your device and add it into your Favorites section.
- ▶ Tap to start a slideshow. Tap the image to stop the slideshow.
- trash Tap to delete the current image. Tap **OK** to confirm.
- share Tap to bring up additional options using other applications.
- edit Tap to access the image editor.



Note: This function may vary depending on the version of your Android OS.

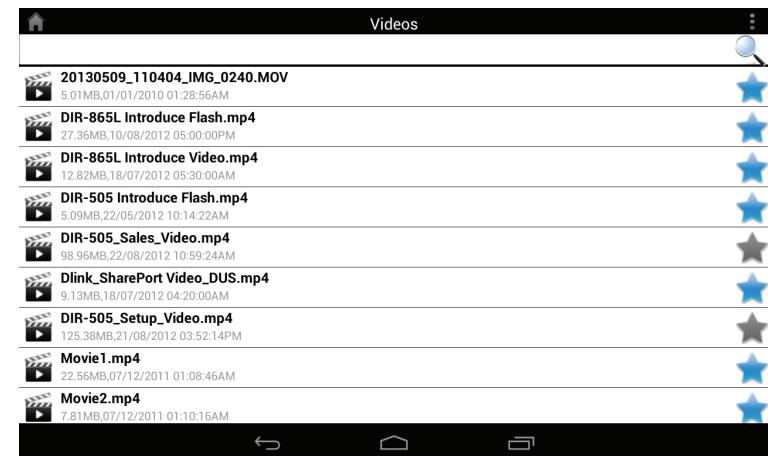
Videos

The Videos section allows you to stream video clips and movies from your DIR-880L to your mobile device. Tap the movie icon on the main menu to browse your videos on your removable storage.



Search Bar: Type in the name of a file to search for it.

- Tap to return to the main menu.
- Tap to refresh, sort, or mark files for deletion.
- Tap the star icon next to a file to download it to your device and add it into your Favorites section.



Tap for additional options:

- Tap to return to the main menu.
- Tap to update the list of files.
- Tap to sort the files by name, size, type, or date.
- Check a file then tap this icon to delete it.

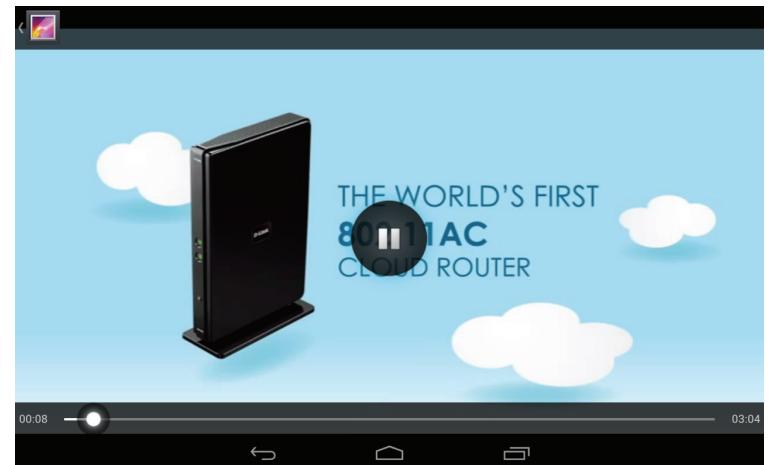


Tap on a file to start playing it. Tap on the screen to bring up the scroll bar, pause button, and play button.

▶ Tap to resume playback.

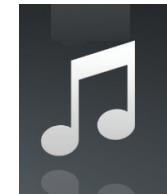
⏸ Tap to pause the video.

Note: Available features may vary depending on the Android OS version installed on your device.



Music

The Music section allows you to stream songs from your DIR-880L to your mobile device. Tap the music icon on the main menu to browse your music collection on your removable storage.



Search Bar: Type in the name of a file to search for it.

-  Tap to return to the main menu.
-  Tap to refresh, sort, or mark files for deletion.
-  Tap to browse your playlists.
-  Tap the star icon next to a file to download it to your device and add it into your Favorites section.



Tap  for additional options:

-  Tap to return to the main menu.
-  Tap to update the list of files.
-  Tap to sort the files by name, size, type, or date.
-  Check a file then tap this icon to delete it.



Tap on a file to start playing it. In the player:

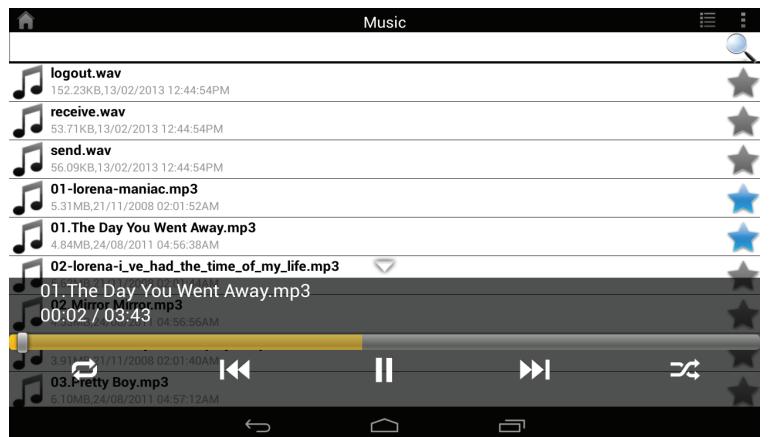
Tap on the up/down arrow to show/hide the player controls.

Tap to repeat all. Tap again to repeat a single song.

Tap to skip to the previous/next song.

Tap to play or pause the song.

Tap to enable/disable shuffle mode.



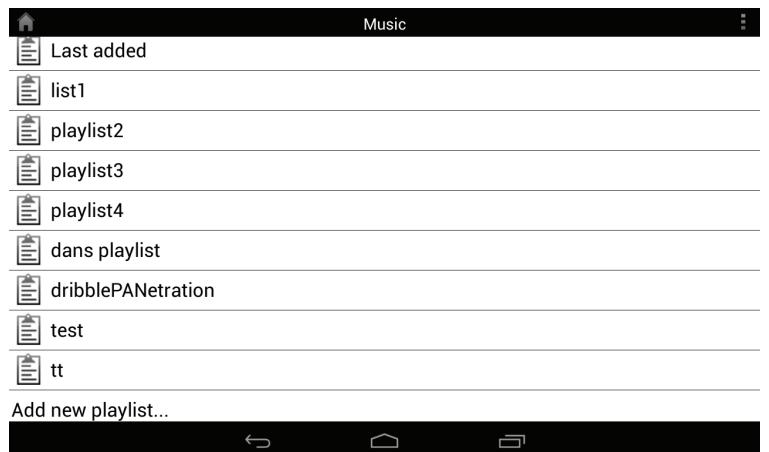
To create a playlist:

Tap

Tap **Add new playlist...**

Enter a name for the playlist, then tap **OK**. The name of the playlist will appear in the browser next to the icon.

You can tap then to refresh the playlist page.

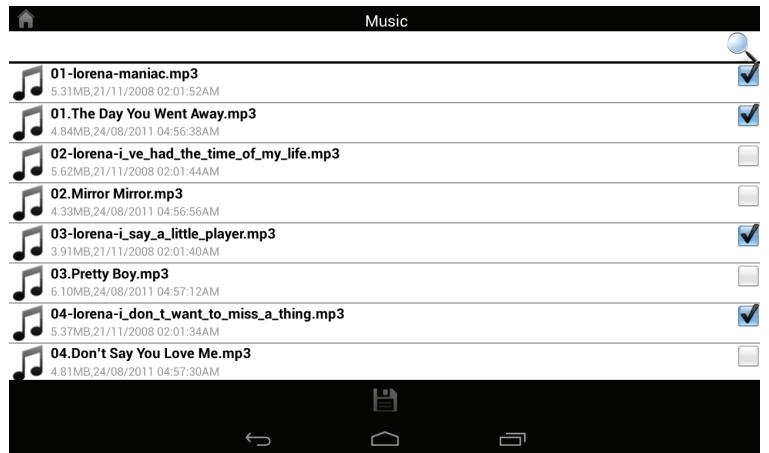


To add songs to a playlist:

Tap a playlist to see its contents.

Tap **Add Music...** to add songs to the current playlist.

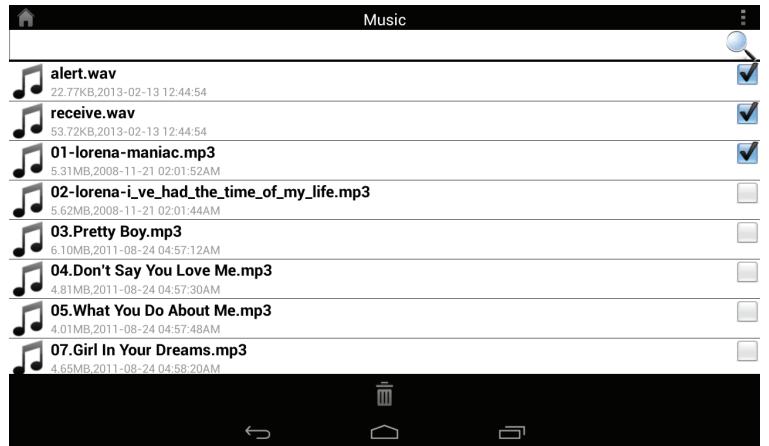
Tick the songs you wish to add and tap  to save.



To delete songs from the playlist:

Tap **Edit** in the playlist browser and mark the files to be deleted.

Tap  then tap **OK** to confirm.



Folders

You can browse your removable storage in a folder view in the folders section. Tapping the filename will open the viewer/player for that file type as described in the previous pages. You can also upload files from your mobile device to the removable storage attached to your router.



Search Bar: Type in the name of a file to search for it.



Tap to return to the main menu.



Tap to access file options.



In the file browser:



Tap to return to the main menu.



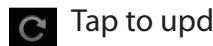
Tap to upload files.



Tap to refresh, sort, create a new folder, or mark files for deletion and copying.



Tap  to select files and perform the following actions:



Tap to update the list of files.



Tap to sort the files by name, size, type, or date.



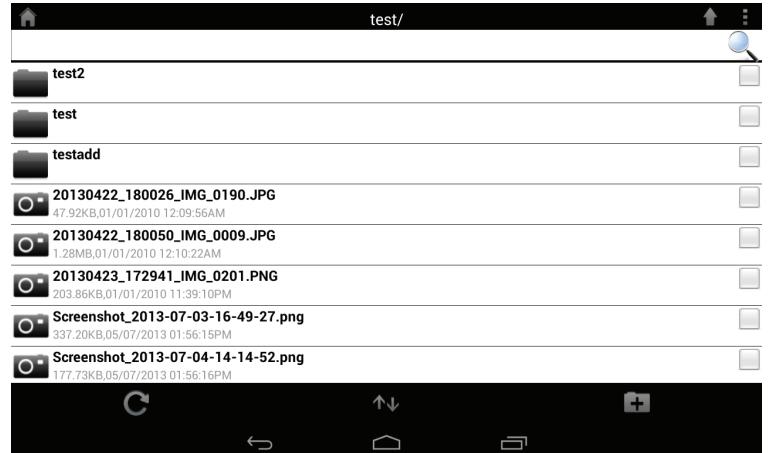
Tap to create a new folder.



Mark a file then tap this icon to delete it.



Mark a file then tap this icon to copy it.



To delete files:

Tap on  and tick the box next to a file for deletion.

Tap on  to delete your selected files. Tap **OK** to confirm.

To copy files:

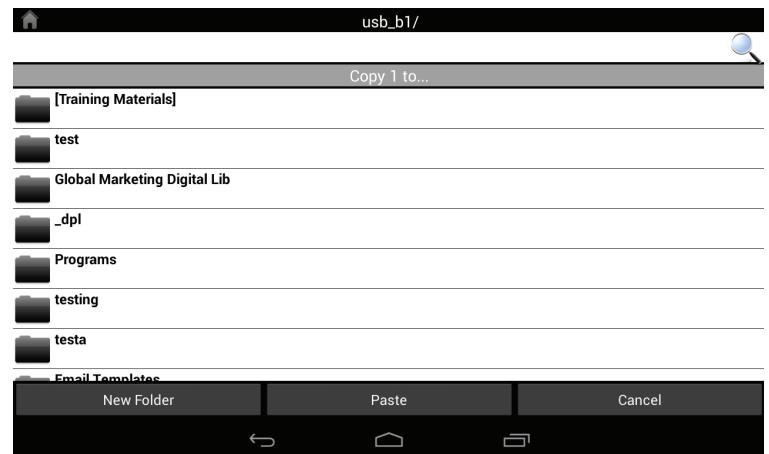
Tap on  to select files for copying. Tick the box next to each file for copying.

Tap on  to browse to the destination.



Tap **Paste** or **Cancel**.

You can also tap **New Folder** if you wish to create a folder in the current directory.

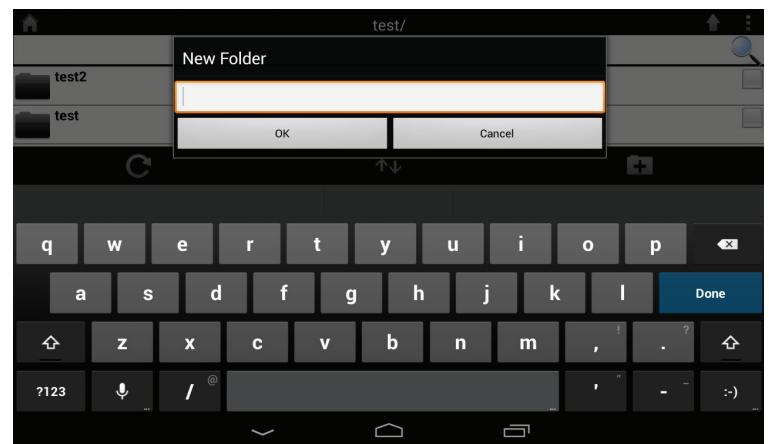


To create a new folder:

Browse to the directory you wish to create a new folder in.

Tap then .

Enter the name of the folder in the box, then tap **OK**.



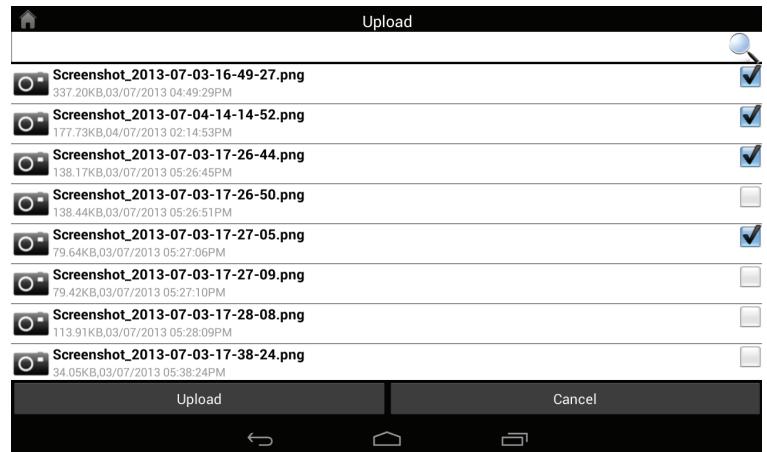
To upload images and videos from your mobile device:

Browse to the folder you wish to upload to.

Tap and browse to the file or files you wish to upload from the local device.

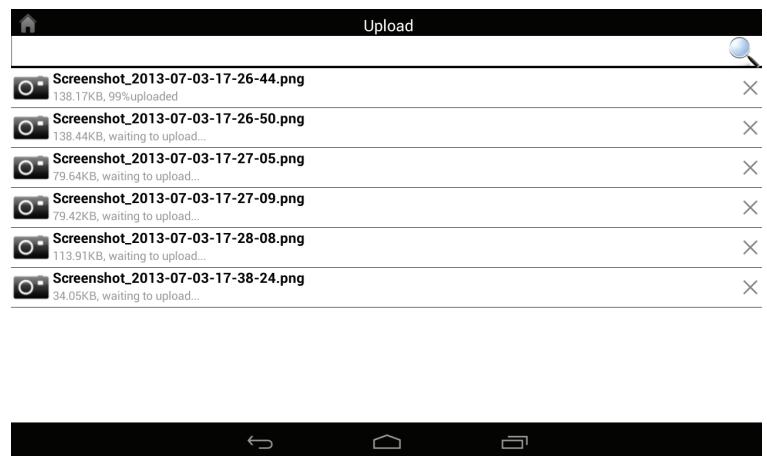
Tick the box next to each of the files you wish to upload.

Tap **Upload**.



During the upload process, the size of the file and the upload progress will be displayed under the file name.

To remove a file from the upload queue, tap the X next to it.



Favorites

The Favorites section allows you to quickly access your most often used files, no matter what file type, in a special section. Files added to the Favorites section will be copied here for playback in a centralized location.



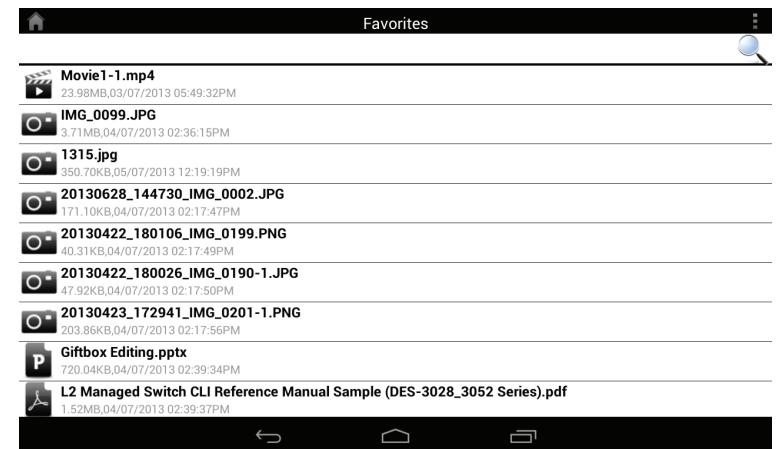
Search Bar: Type in the name of a file to search for it.



Tap to return to the main menu.



Tap to refresh, sort, or mark files for deletion.



Tap  for additional options:



Tap to return to the main menu.



Tap to update the list of files.



Tap to sort the files by name, size, type, or date.



Check a file then tap to delete it.



Configuration

To access the configuration utility, open a web-browser such as Internet Explorer and enter **http://dlinkrouter.local.**

Windows and Mac users may also connect by typing the IP address of the router (by default this is **http://192.168.0.1**) in the address bar.

Enter your password. If you previously followed the setup wizard (see page 14), please use the admin password you entered during the wizard. Otherwise, leave the password blank. Click **Log In** to proceed.

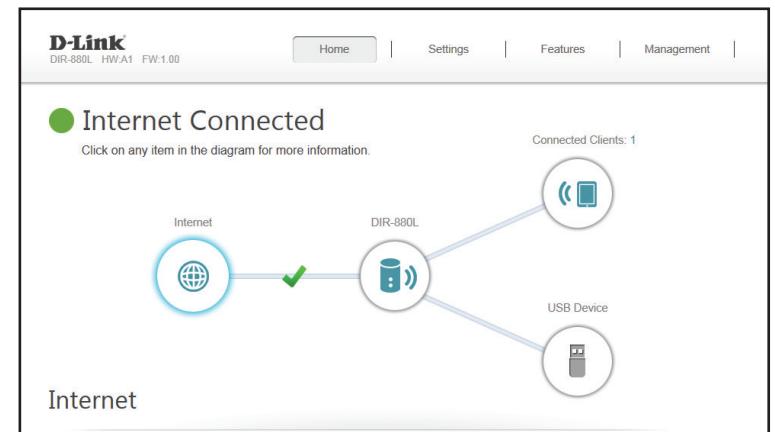
Note: If you cannot remember your password and cannot log in, press the reset button (see page 6) to restore the router to its default settings.



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 and Management functions. You may quickly jump back Home at any time.

Note: The system will automatically log out after a period of inactivity.

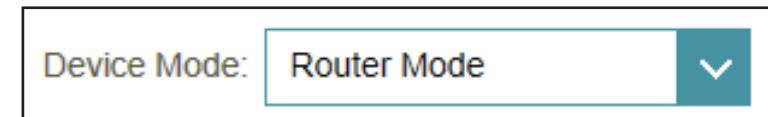


Device Mode

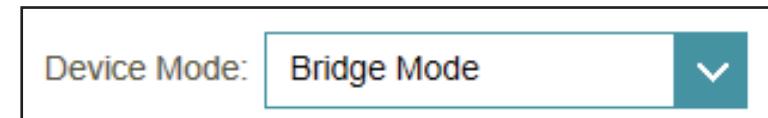
The DIR-880L can be placed into two device modes: Router Mode and Bridge Mode.

The default mode is Router Mode. To change the device mode, in the Settings menu on the bar on the top of the page, click **Internet** to see the Internet configuration options. On the Device Mode drop-down menu, select either Router Mode or Bridge Mode. The router will then reboot into the new mode.

Router Mode is the most commonly used mode, and unlocks all functionality. If you are unsure which mode to choose, select Router Mode.



Bridge Mode is commonly used when there is already a router in the network, and you want to avoid conflicts (with IP addresses, for instance). In Bridge Mode, the Features menu is hidden (as these features are not part of Bridge Mode) and the Settings menu will contain only the Internet and Wireless options.



Home

The Home page displays the current status of the router in the form of an interactive diagram. You can click each icon to display information about each part of the network at the bottom of the screen. The menu bar at the top of the page will allow you to quickly navigate to other pages.

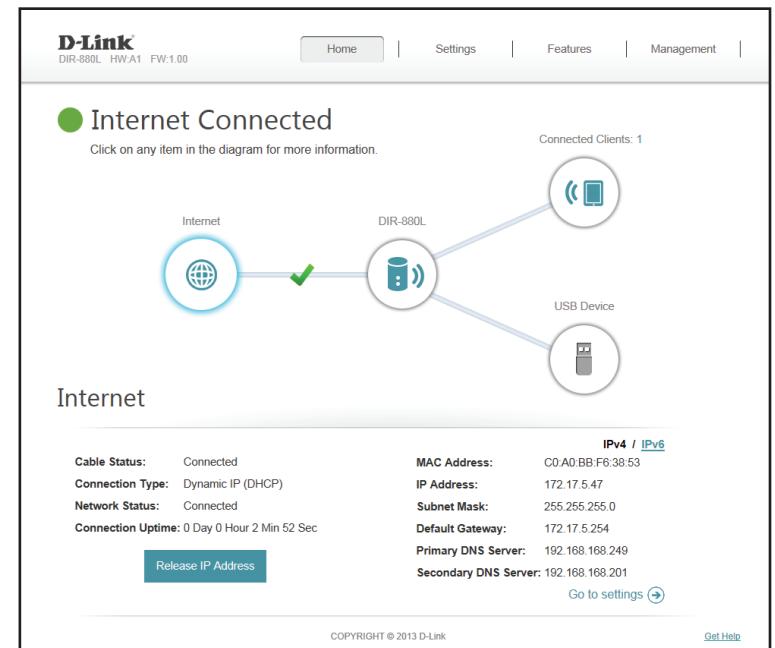
Internet

The Home page displays whether or not the router is currently connected to the Internet. If it is disconnected, click **Click to repair** to bring up the setup wizard (see page 14).

To bring up more details about your Internet connection, click on the **Internet** icon. Click **IPv4** or **IPv6** to see details of the IPv4 connection and IPv6 connection respectively.

Click **Release** to disconnect from the Internet. If you do this and wish to reconnect, click **Renew**.

To reconfigure the Internet settings, refer to page 66.



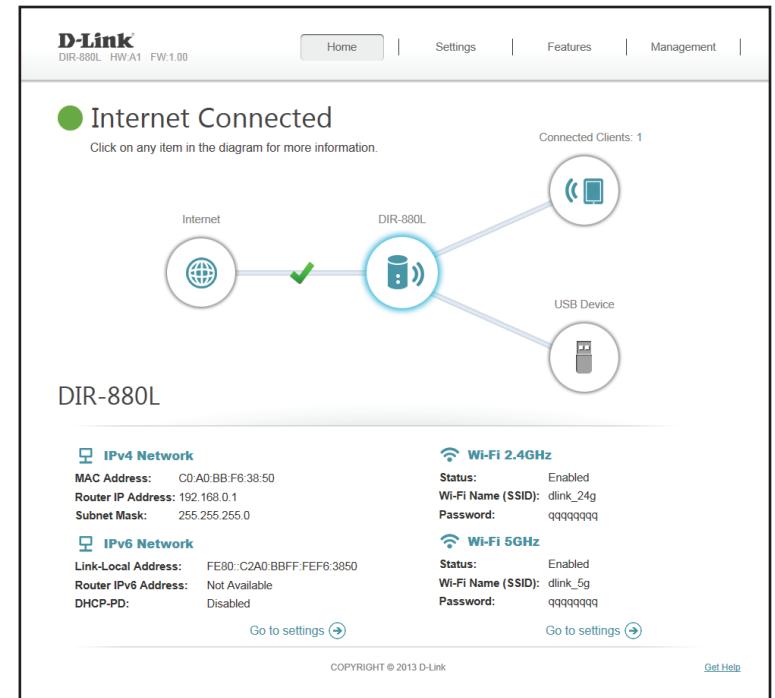
DIR-880L

Click on the **DIR-880L** 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 and IPv4/IPv6 addresses.

To reconfigure the network settings, either click **Go to settings** on the lower left, or click **Settings** (at the top of the page) and then **Network** on the menu that appears. Refer to page 97.

To reconfigure the wireless settings, either click **Go to settings**, on the lower right, or click **Settings** (at the top of the page) and then **Wireless** on the menu that appears. Refer to page 93.

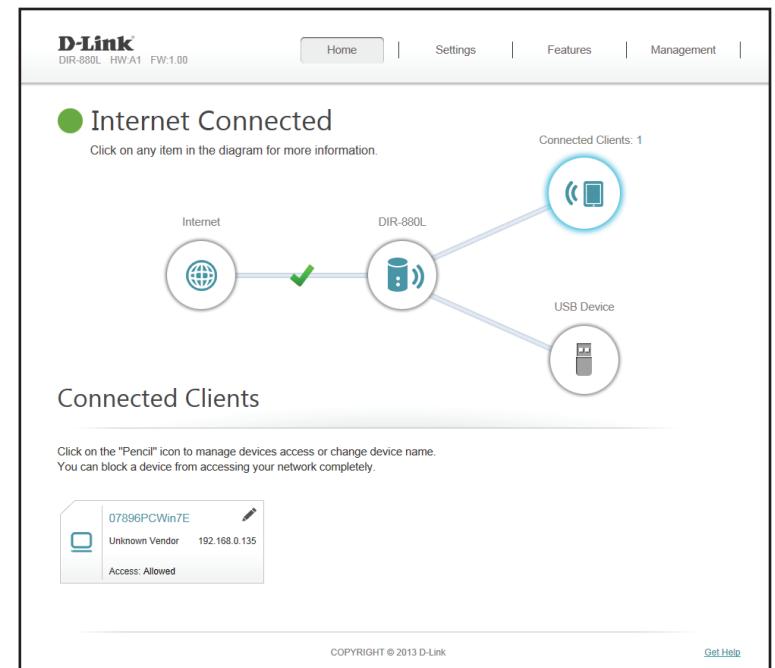


Connected Clients

Click on the **Connected Clients** icon to view details about the router and its wireless settings.

On this page you can see all the clients currently connected to the router, and their IP addresses.

To edit each client's settings, click the pencil icon on the client you want 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 to reserve this IP address for this client.

Access: Allow or Block access to the router.

Click **Save** when you are done.

Edit Rule

Name:	07896PCWin7E
Vendor:	Unknown Vendor
IP Address:	192.168.0.135
Reserve IP:	Disabled
Access:	Allowed

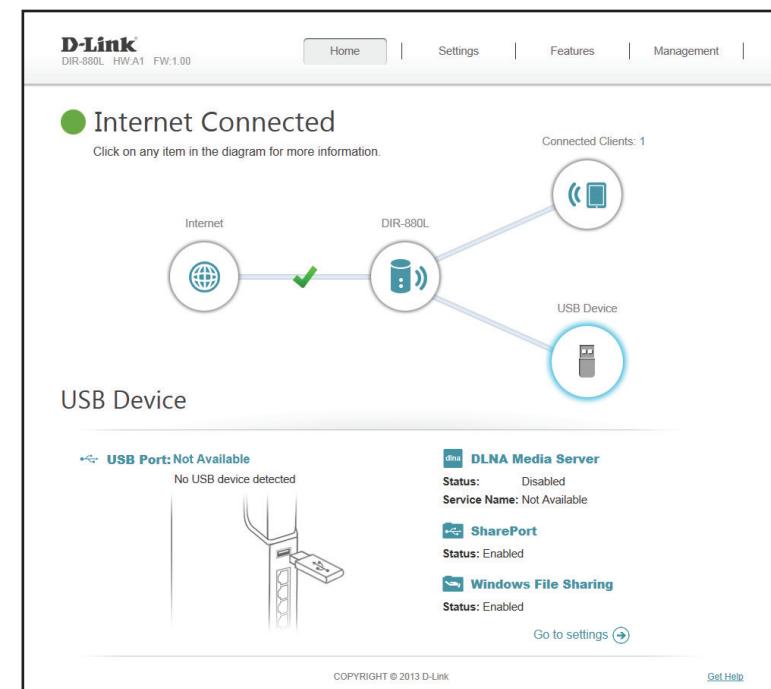
Save

USB Device

Click on the **USB Device** icon to view details about the currently connected USB device, DLNA media server, SharePort, and Windows File Sharing.

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

To configure your SharePort settings, click **Go to settings** and refer to page 99.



Settings Wizard

In the Settings menu on the bar on the top of the page, click **Wizard** to open the setup wizard. This is the same wizard that appears when you start the router for the first time. Refer to page 14 for details.

Internet (Router Mode)

In the Settings menu on the bar on the top of the page, click **Internet** to see the Internet configuration options.

My Internet Choose your Internet connection type from the drop-down menu.
Connection Is: You will be presented with the appropriate options for your connection type. Click **Advanced Settings...** to expand the list and see all of the options.

For **Dynamic IP (DHCP)** refer to page 67.

For **Static IP** refer to page 68.

For **PPPoE** refer to page 69.

For **PPTP** refer to page 70.

For **L2TP** refer to page 72.

For **DS-Lite** refer to page 74.

To configure an IPv6 connection, click the **IPv6** link. Refer to page 75.



Dynamic IP (DHCP)

Select **Dynamic IP (DHCP)** to obtain IP address information automatically from your Internet Service Provider (ISP). Select this option if your ISP does not give you 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 Server: Enter the primary DNS server IP address assigned by your ISP. This address is usually obtained automatically from your ISP.

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

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

MAC Address Clone: The default MAC address is set to the Internet port's physical interface. 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.

The screenshot shows the 'Internet' configuration page of the D-Link DIR-880L router. At the top, there is a navigation bar with links for Home, Settings (which is selected), Features, and Management. Below the navigation, there is a section titled 'Internet' with a globe icon. A note says: 'Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' The main configuration area has tabs for 'IPv4' and 'IPv6' (the latter is selected). It includes fields for 'Device Mode' (set to 'Router Mode'), 'My Internet Connection is:' (set to 'Dynamic IP (DHCP)'), 'Host Name' (containing 'dlinkrouter'), 'Primary DNS Server', 'Secondary DNS Server', 'MTU' (set to 'Auto'), and 'Mac Address Clone' (containing 'C0:A0:BB:F6:38:53'). There is also a link for 'Advanced Settings...' and a copyright notice at the bottom: 'COPYRIGHT © 2013 D-Link'.

Static IP

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

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

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

Default Gateway: Enter the default gateway address provided by your ISP.

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

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

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

MAC Address Clone: The default MAC address is set to the Internet port's physical interface. 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.

D-Link
DIR-880L HW/A1 FW:1.00

Home | Settings | Features | Management |

Internet

Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.

Settings >> Internet | IPv6 | Save

Device Mode: Router Mode

My Internet Connection is: Static IP

IP Address: []

Subnet Mask: []

Default Gateway: []

Primary DNS Server: []

Secondary DNS Server: []

MTU: Auto

Mac Address Clone: [] << MAC Address

Advanced Settings...

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PPPoE

Select **PPPoE** if your Internet connection requires you to enter a username and password. This information is provided by your Internet service provider (ISP).

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 Time: Enter a maximum idle time during which the Internet connection 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 Server: Enter the primary DNS server IP address assigned by your ISP.

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

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

Click **Save** when you are done.

The screenshot shows the 'Internet' configuration page of the D-Link DIR-880L router's web interface. At the top, it displays the device model (DIR-880L HW/A1 FW:1.00) and navigation links (Home, Settings, Features, Management). The main section is titled 'Internet' with a globe icon. It provides instructions for configuring the Internet connection type, mentioning options like Static IP, DHCP, PPPoE, PPTP, L2TP, and DS-Lite. A note states that using PPPoE requires removing or disabling any PPPoE client software on computers. Below this, there are two tabs: 'IPv4' (selected) and 'IPv6'. The 'IPv4' tab contains fields for 'Device Mode' (set to 'Router Mode'), 'My Internet Connection is:' (set to 'PPPoE'), 'Username', 'Password', 'Reconnect Mode' (set to 'On demand'), and 'Maximum Idle Time' (set to '5 minutes'). The 'IPv6' tab is partially visible. At the bottom, there are 'Advanced Settings...' and 'COPRIGHT © 2013 D-Link' links.

PPTP

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

PPTP Server IP Address: Enter the PPTP server IP address provided by your ISP.

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 Time: Enter a maximum idle time during which the Internet connection 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 Address: Enter the IP address provided by your ISP (Static IP only).

PPTP Subnet Mask: Enter the subnet mask provided by your ISP (Static IP only).

PPTP Gateway IP Address: Enter the gateway IP address provided by your ISP (Static IP only).

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

The screenshot shows the 'Internet' configuration page in the D-Link DIR-880L web interface. The top navigation bar includes 'Home', 'Settings' (which is selected), 'Features', 'Management', and other links. The main title 'Internet' is displayed above a descriptive text block. Below this, there are two sections: 'IPv4' and 'IPv6'. The 'IPv4' section contains fields for 'Device Mode' (set to 'Router Mode'), 'My Internet Connection is' (set to 'PPTP'), 'PPTP Server IP Address', 'Username', 'Password', 'Reconnect Mode' (set to 'On demand'), and 'Maximum Idle Time' (set to 5 minutes). The 'IPv6' section contains fields for 'Address Mode' (set to 'Dynamic IP'), 'Primary DNS Server', 'Secondary DNS Server', and 'MTU' (set to 'Auto'). At the bottom right, there is an 'Advanced Settings...' link and a copyright notice: 'COPRIGHT © 2013 D-Link'.

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

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

Click **Save** when you are done.

The screenshot shows the D-Link DIR-880L web interface with the following details:

- Header:** D-Link DIR-880L HW-A1 FW:1.00, Home, Settings (selected), Features, Management.
- Title:** Internet
- Description:** Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.
- Device Mode:** Router Mode
- My Internet Connection is:** PPTP
- PPTP Server IP Address:** [Input field]
- Username:** [Input field]
- Password:** [Input field]
- Reconnect Mode:** On demand
- Maximum Idle Time:** 5 minutes
- Advanced Settings...** (link)
- Address Mode:** Dynamic IP
- Primary DNS Server:** [Input field]
- Secondary DNS Server:** [Input field]
- MTU:** Auto

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L2TP

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

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

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 Time: Enter a maximum idle time during which the Internet connection 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 IP address provided by your ISP (Static IP only).

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

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

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

The screenshot shows the D-Link DIR-880L web interface under the 'Internet' section. At the top, it says 'D-Link DIR-880L HW/A1 FW:1.00'. Below that is a navigation bar with 'Home', 'Settings' (which is selected), 'Features', and 'Management'. The main area has a title 'Internet' with a globe icon. A note says: 'Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.' Below this is a 'Settings >> Internet' link and a 'Save' button. The configuration fields include:

- Device Mode: Router Mode
- My Internet Connection is: L2TP
- L2TP Server IP Address: [empty]
- Username: [empty]
- Password: [empty]
- Reconnect Mode: On demand
- Maximum Idle Time: 5 minutes
- Address Mode: Dynamic IP
- Primary DNS Server: [empty]
- Secondary DNS Server: [empty]
- MTU: Auto

 There is also an 'Advanced Settings...' link and a copyright notice 'COPYRIGHT © 2013 D-Link'.

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

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

Click **Save** when you are done.

The screenshot shows the D-Link DIR-880L web interface with the following details:

- Header:** D-Link DIR-880L HW-A1 FW:1.00, Home, Settings (selected), Features, Management.
- Title:** Internet
- Description:** Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.
- Device Mode:** Router Mode
- My Internet Connection is:** L2TP
- L2TP Server IP Address:** [Input field]
- Username:** [Input field]
- Password:** [Input field]
- Reconnect Mode:** On demand
- Maximum Idle Time:** 5 minutes
- Advanced Settings...** (link)
- Address Mode:** Dynamic IP
- Primary DNS Server:** [Input field]
- Secondary DNS Server:** [Input field]
- MTU:** Auto

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DS-Lite

DS-Lite is an IPv6 connection type. After selecting DS-Lite, the following parameters will be available for configuration:

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

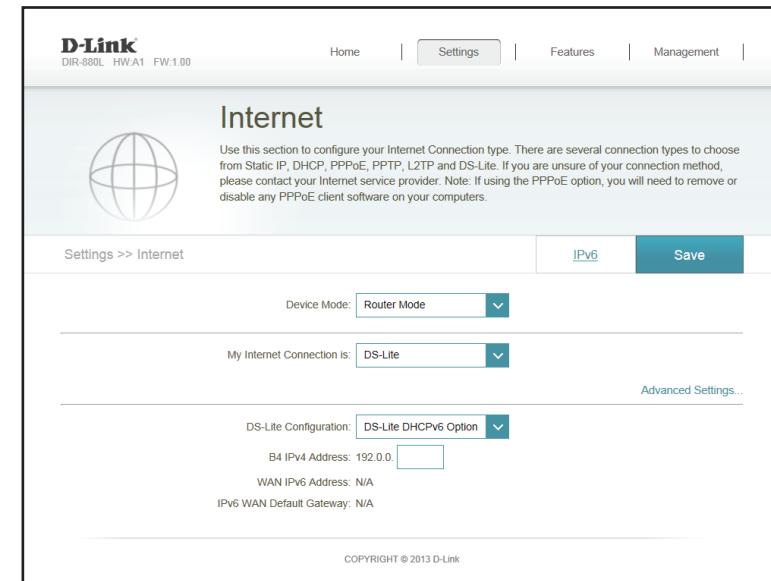
AFTR IPv6 Address: If you selected Manual Configuration above, enter the AFTR IPv6 address used here.

B4 IPv6 Address: Enter the B4 IPv4 address value used here.

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

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

Click **Save** when you are done.



IPv6

To configure an IPv6 connection, click the **IPv6** link. To return to the IPv4 settings, click **IPv4**.

My Internet Choose your IPv6 connection type from the drop-down menu. You **Connection Is:** will be presented with the appropriate options for your connection type. Click **Advanced Settings...** to expand the list and see all of the options.

For **Auto Detection** refer to page 76.

For **Static IPv6** refer to page 78.

For **Auto Configuration (SLAAC/DHCIPv6)** refer to page 80.

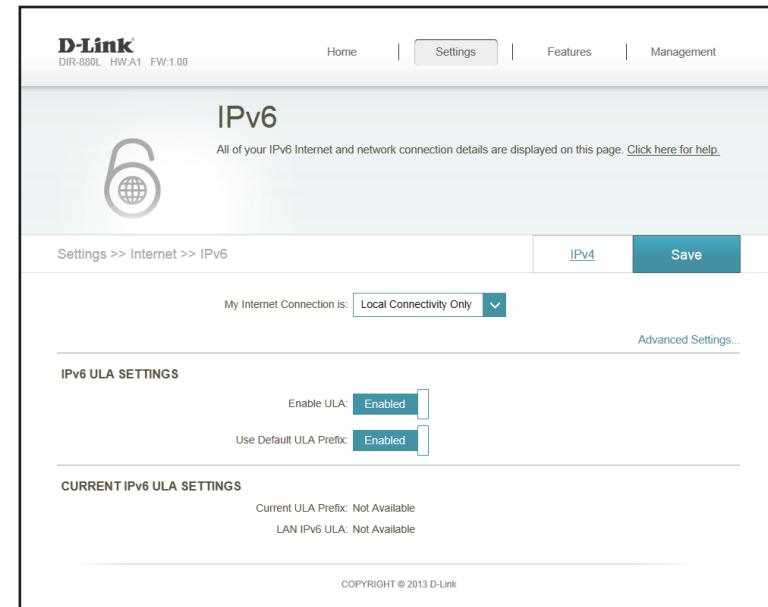
For **PPPoE** refer to page 82.

For **IPv6 in IPv4 Tunnel** refer to page 84.

For **6 to 4** refer to page 86.

For **6rd** refer to page 87.

For **Local Connectivity Only** refer to page 89.



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 make some settings on your side before your router can connect to the IPv6 Internet.

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

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 **Address:** router.

LAN IPv6 Link-Local Address: Displays the router's LAN link-local address.

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

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

Auto Select **Stateful (DHCPv6), SLAAC + RDNSS or SLAAC + Stateless Configuration** **DHCPv6.**

Type:

Router Enter the IPv6 address lifetime (in minutes).

Advertisement

Lifetime:

Click **Save** when you are done.

The screenshot shows the D-Link DIR-880L web interface with the following details:

- Header:** D-Link DIR-880L HW-A1 FW:1.00, Home, Settings, Features, Management.
- Title:** IPv6
- Breadcrumbs:** Settings >> Internet >> IPv6
- Buttons:** IPv4, Save
- My Internet Connection Is:** Auto Detection
- IPv6 DNS SETTINGS:**
 - DNS Type: Use the following DNS
 - Primary DNS Server: [empty]
 - Secondary DNS Server: [empty]
- LAN IPv6 ADDRESS SETTINGS:**
 - Enable DHCP-PD: Enabled
 - LAN IPv6 Link-Local Address: Not Available
 - Advanced Settings...
- ADDRESS AUTOCONFIGURATION SETTINGS:**
 - Enable Automatic IPv6 Address Assignment: Enabled
 - Enable Automatic DHCP-PD in LAN: Enabled
 - Autoconfiguration Type: SLAAC+Stateless DHCP
 - Router Advertisement Lifetime: [empty] minutes
- COPYRIGHT:** © 2013 D-Link

Static IPv6

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

Use Link-Local Enable or disable a link-local address.

Address:

IPv6 Address: If you disabled **Use Link-Local Address**, enter the address supplied by your ISP.

Subnet Prefix Length: If you disabled **Use Link-Local Address**, enter the subnet prefix length supplied by your ISP.

Default Gateway: Enter the default gateway for your IPv6 connection.

Gateway:

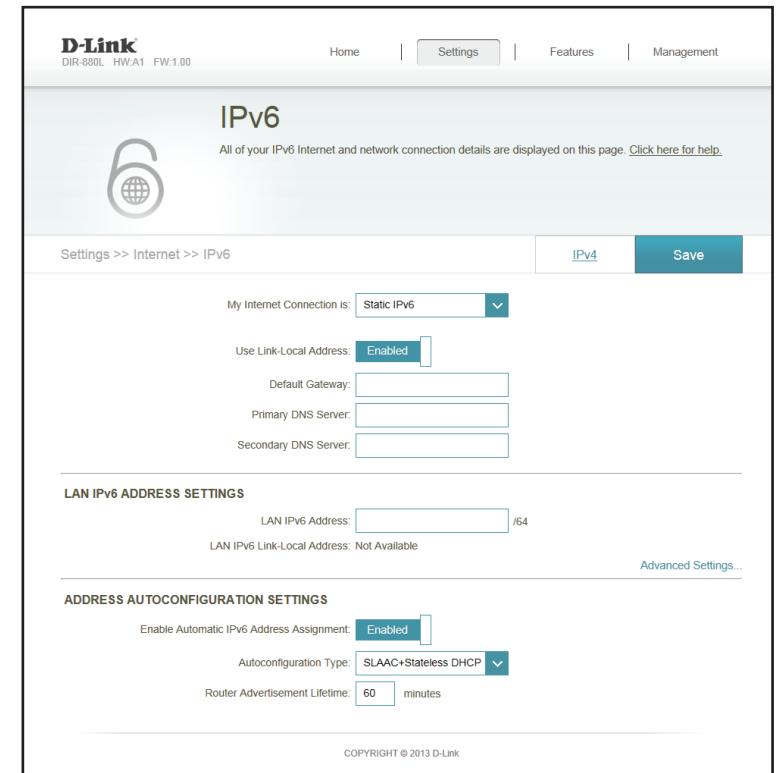
Primary DNS Server: Enter the primary DNS server address.

Secondary DNS Server: Enter the secondary DNS server address.

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

LAN IPv6 Link-Local Address: Displays the router's LAN link-local address.

Enable Automatic IPv6 Address Assignment: Check to enable the Automatic IPv6 Address Assignment feature.



Auto Select **Stateful (DHCPv6)**, **SLAAC + RDNSS** or **SLAAC + Stateless Configuration** **DHCPv6**.

Type:

Router Enter the IPv6 address lifetime (in minutes).

Advertisement

Lifetime:

Click **Save** when you are done.

The screenshot shows the D-Link DIR-880L web interface with the following details:

- Header:** D-Link DIR-880L HW-A1 FW:1.00, Home, Settings, Features, Management.
- Title:** IPv6
- Sub-Title:** All of your IPv6 Internet and network connection details are displayed on this page. [Click here for help.](#)
- Breadcrumbs:** Settings >> Internet >> IPv6
- Buttons:** IPv4, Save
- Internet Connection:** My Internet Connection is: Static IPv6
- Link-Local Address:** Use Link-Local Address: Enabled
- Network:** Default Gateway: [empty], Primary DNS Server: [empty], Secondary DNS Server: [empty]
- LAN IPv6 ADDRESS SETTINGS:**
 - LAN IPv6 Address: [empty] /64
 - LAN IPv6 Link-Local Address: Not Available
 - Advanced Settings...
- ADDRESS AUTOCONFIGURATION SETTINGS:**
 - Enable Automatic IPv6 Address Assignment: Enabled
 - Autoconfiguration Type: SLAAC+Stateless DHCP
 - Router Advertisement Lifetime: 60 minutes
- Footer:** COPYRIGHT © 2013 D-Link

Auto Configuration (SLAAC/DHCPv6)

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 make some settings on your side before your router can connect to the IPv6 Internet.

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

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.

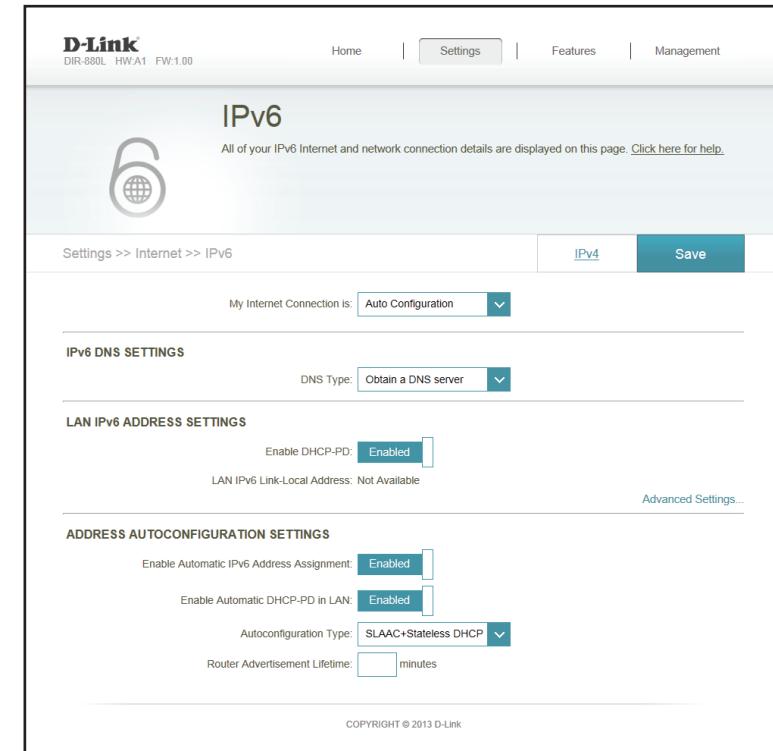
Enable DHCP-PD: Enable or disable prefix delegation services.

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

LAN IPv6 Link-Local Address: Displays the router's LAN link-local address.

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

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



Auto Select **Stateful (DHCPv6)**, **SLAAC + RDNSS** or **SLAAC + Stateless Configuration** **DHCPv6**.

Type:

Router Enter the IPv6 address lifetime (in minutes).

Advertisement

Lifetime:

Click **Save** when you are done.

The screenshot shows the D-Link DIR-880L web interface for configuring IPv6 settings. The main title is "IPv6". The top navigation bar includes "Home", "Settings" (which is selected), "Features", and "Management". Below the title, there's a large "6" icon and a link to "Click here for help". The left sidebar has a tree structure: "Settings >> Internet >> IPv6". The right side has tabs for "IPv4" and "IPv6" (selected). A "Save" button is at the top right. The main content area has several sections: "My Internet Connection Is: Auto Configuration", "IPv6 DNS SETTINGS" (with "DNS Type: Obtain a DNS server"), "LAN IPv6 ADDRESS SETTINGS" (with "Enable DHCP-PD: Enabled" and "LAN IPv6 Link-Local Address: Not Available"), and "ADDRESS AUTOCONFIGURATION SETTINGS" (with "Enable Automatic IPv6 Address Assignment: Enabled", "Enable Automatic DHCP-PD in LAN: Enabled", "Autoconfiguration Type: SLAAC+Stateless DHCP" set to a dropdown menu, and a "Router Advertisement Lifetime" input field). At the bottom right is an "Advanced Settings..." link. The footer says "COPRIGHT © 2013 D-Link".

PPPoE

Select **PPPoE** if your Internet connection requires you to enter a username and password. This information is provided by your Internet service provider (ISP).

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 here.

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

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).

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 automatically** or **Use the following DNS address**.

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- Enable or disable prefix delegation services.
PD:

The screenshot shows the D-Link DIR-880L web interface with the following details:

- Header:** D-Link DIR-880L HW-A1 FW-1.00, Home, Settings, Features, Management.
- Title:** IPv6
- Sub-Title:** All of your IPv6 Internet and network connection details are displayed on this page. [Click here for help.](#)
- Section:** Settings >> Internet >> IPv6
- Buttons:** IPv4 (selected), Save.
- Fields:**
 - My Internet Connection is: PPPoE
 - PPPoE Session: Share with IPv4
 - Address Mode: Dynamic IP
 - MTU: 1492 bytes
- Section:** IPv6 DNS SETTINGS
- Fields:** DNS Type: Obtain a DNS server
- Section:** LAN IPv6 ADDRESS SETTINGS
- Fields:** Enable DHCP-PD: Enabled, LAN IPv6 Link-Local Address: Not Available
- Section:** ADDRESS AUTOCONFIGURATION SETTINGS
- Fields:** Enable Automatic IPv6 Address Assignment: Enabled, Enable Automatic DHCP-PD in LAN: Enabled, Autoconfiguration Type: SLAAC+Stateless DHCP, Router Advertisement Lifetime: 120 minutes
- Text:** COPYRIGHT © 2013 D-Link

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

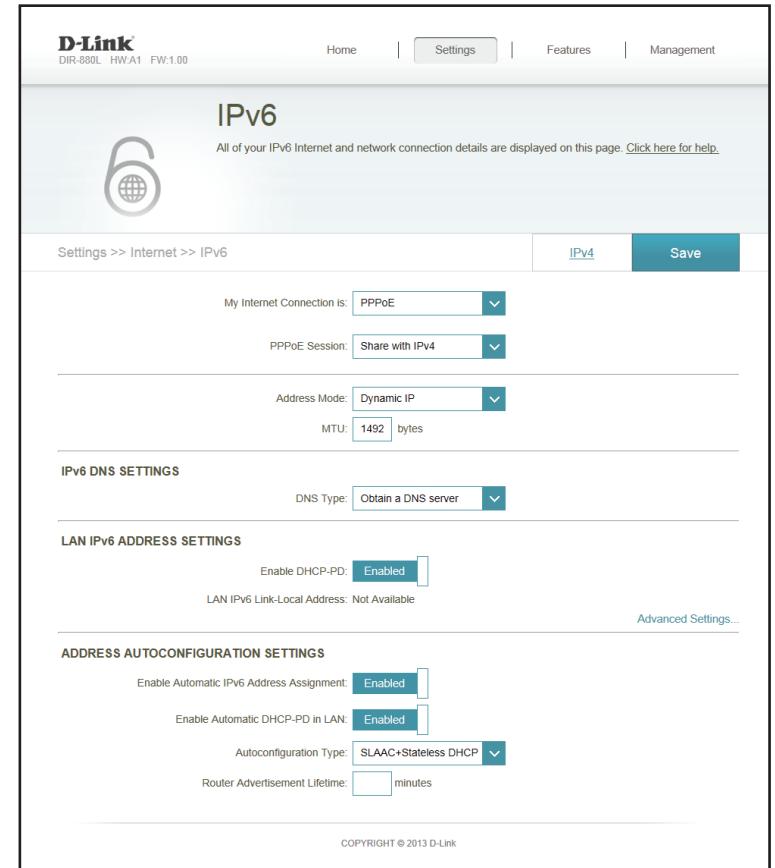
LAN IPv6 Link-Local Address: Displays the router's LAN link-local address.

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

Auto Configuration Type: Select **Stateful (DHCPv6)**, **SLAAC + RDNSS** or **SLAAC + Stateless DHCPv6**.

Router Advertisement Lifetime: Enter the IPv6 address lifetime (in minutes).

Click **Save** when you are done.



IPv6 in IPv4 Tunnel

The user 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 Address: Enter the IPv4 remote address you will use.

Remote IPv6 Address: Enter the IPv6 remote address you will use.

Local IPv4 Address: Enter the IPv4 local address you will use.

Local IPv6 Address: Enter the IPv6 local address you will use.

Subnet Prefix Length: Enter the subnet prefix length supplied by your ISP.

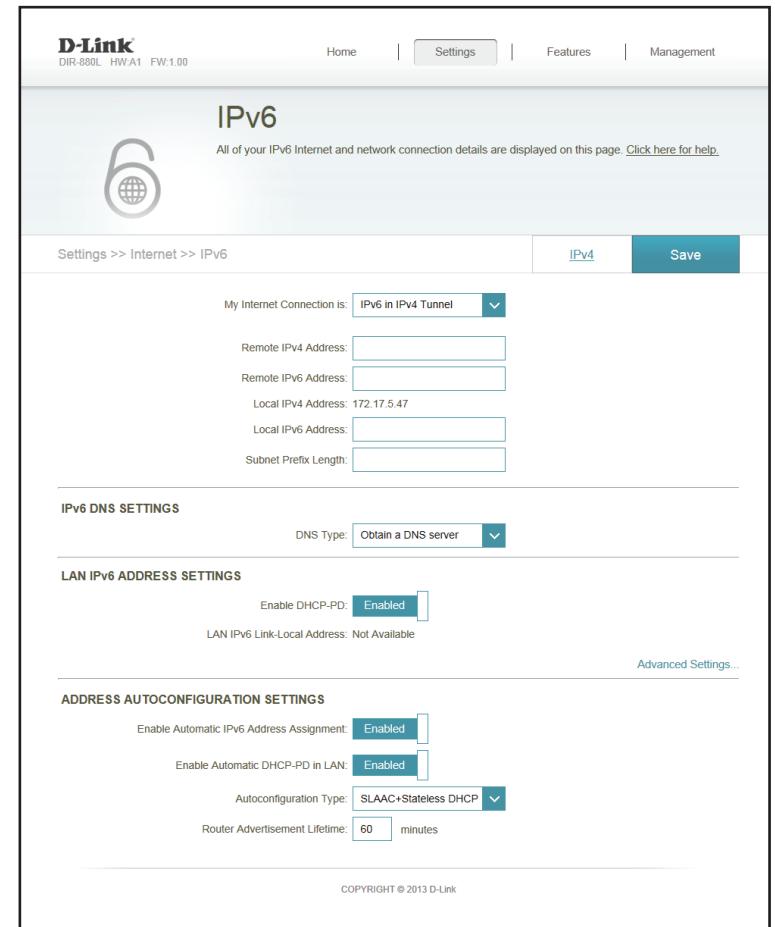
DNS Type: Select either **Obtain DNS server address automatically** or **Use the following DNS address**.

Primary DNS Server: If you selected **Use the following DNS address** above, enter the primary DNS server address.

Secondary DNS Server: If you selected **Use the following DNS address** above, enter the 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 IPv6 Address Assignment: Enable or disable the Automatic IPv6 Address Assignment feature.

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

Auto Configuration Type: Select **Stateful (DHCPv6)**, **SLAAC + RDNSS** or **SLAAC + Stateless DHCPv6**.

Type:

Router Advertisement Lifetime: Enter the IPv6 address lifetime (in minutes).

Click **Save** when you are done.

The screenshot shows the D-Link DIR-880L web interface with the following details:

- Header:** D-Link DIR-880L HW-A1 FW:1.00, Home, Settings, Features, Management.
- Title:** IPv6
- Sub-Title:** All of your IPv6 Internet and network connection details are displayed on this page. [Click here for help.](#)
- Section:** Settings >> Internet >> IPv6
- Buttons:** IPv4 (selected), Save.
- My Internet Connection:** IPv6 in IPv4 Tunnel (dropdown).
- Fields:** Remote IPv4 Address, Remote IPv6 Address, Local IPv4 Address (172.17.5.47), Local IPv6 Address, Subnet Prefix Length.
- IPv6 DNS SETTINGS:** DNS Type: Obtain a DNS server (dropdown).
- LAN IPv6 ADDRESS SETTINGS:** Enable DHCP-PD: Enabled (switch), LAN IPv6 Link-Local Address: Not Available.
- Address Autoconfiguration Settings:** Enable Automatic IPv6 Address Assignment: Enabled (switch), Enable Automatic DHCP-PD in LAN: Enabled (switch), Autoconfiguration Type: SLAAC+Stateless DHCP (dropdown), Router Advertisement Lifetime: 60 minutes.
- Advanced Settings:** Advanced Settings...
- Copyright:** COPYRIGHT © 2013 D-Link

6 to 4

In this section the user can configure the IPv6 6 to 4 connection settings. 6to4 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.

6 to 4 Address: Displays the 6 to 4 address.

6 to 4 Relay: Enter the 6 to 4 relay supplied by your ISP.

Primary DNS Server: Enter the primary DNS server address.

Secondary DNS Server: Enter the secondary DNS server address.

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

LAN IPv6 Link-Local Address: Displays the router's LAN link-local address.

Enable Automatic IPv6 Address Assignment: Check to enable the Automatic IPv6 Address Assignment feature.

Auto Configuration Type: Select **Stateful (DHCPv6)**, **SLAAC + RDNSS** or **SLAAC + Stateless DHCPv6**.

Router Advertisement Lifetime: Enter the IPv6 address lifetime (in minutes).

Click **Save** when you are done.

The screenshot shows the D-Link DIR-880L web interface under the 'IPv6' tab. At the top, it says 'My Internet Connection is: 6to4'. Below that, there are fields for '6to4 Address' (set to 172.17.5.47), '6to4 Relay' (empty), 'Primary DNS Server' (empty), and 'Secondary DNS Server' (empty). Under 'LAN IPv6 ADDRESS SETTINGS', the 'LAN IPv6 Address' field is set to FFFF:FFFF:FFFF::1/64, and the 'LAN IPv6 Link-Local Address' is listed as 'Not Available'. Under 'ADDRESS AUTOCONFIGURATION SETTINGS', 'Enable Automatic IPv6 Address Assignment' is checked (Enabled), 'Autoconfiguration Type' is set to 'SLAAC+Stateless DHCP', and 'Router Advertisement Lifetime' is set to 120 minutes. A copyright notice at the bottom right reads 'COPYRIGHT © 2013 D-Link'.

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

6rd Configuration: Choose the **6rd DHCPv4 Option** to automatically discover and populate the data values, or **Manual Configuration** to enter the settings yourself.

6rd IPv6 Prefix: Enter the 6rd IPv6 prefix and mask length supplied by your ISP (manual configuration only).

6rd Border Relay IPv4 Address: Enter the 6rd border relay IPv4 address settings supplied by your ISP (manual configuration only).

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

LAN IPv6 Link-Local Address: Displays the router's LAN link-local address.

Enable Automatic IPv6 Address Assignment: Check to enable the Automatic IPv6 Address Assignment feature.

Auto Configuration Type: Select **Stateful (DHCPv6)**, **SLAAC + RDNSS** or **SLAAC + Stateless DHCPv6**.

Router Advertisement Lifetime: Enter the IPv6 address lifetime (in minutes).

Click **Save** when you are done.

The screenshot shows the D-Link DIR-880L web interface with the following details:

- Header:** D-Link DIR-880L HW-A1 FW:1.00, Home, Settings, Features, Management.
- Title:** IPv6
- Sub-Title:** All of your IPv6 Internet and network connection details are displayed on this page. [Click here for help.](#)
- Section:** Settings >> Internet >> IPv6
- Buttons:** IPv4, Save
- Fields:** My Internet Connection is: 6rd, Assign IPv6 Prefix: [field], Primary DNS Server: [field], Secondary DNS Server: [field]
- Section:** 6RD MANUAL CONFIGURATION
- Fields:** Enable Hub and Spoke Mode: Enabled, 6rd Configuration: 6rd DHCPv4 Option
- Section:** LAN IPv6 ADDRESS SETTINGS
- Fields:** LAN IPv6 Address: Not Available, LAN IPv6 Link-Local Address: Not Available, Advanced Settings...
- Section:** ADDRESS AUTOCONFIGURATION SETTINGS
- Fields:** Enable Automatic IPv6 Address Assignment: Enabled, Autoconfiguration Type: SLAAC+Stateless DHCP, Router Advertisement Lifetime: [field] minutes
- Text:** COPYRIGHT © 2013 D-Link

Local Connectivity Only

Local Connectivity Only allows you to set up an IPv6 connection that will not connect to the Internet.

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

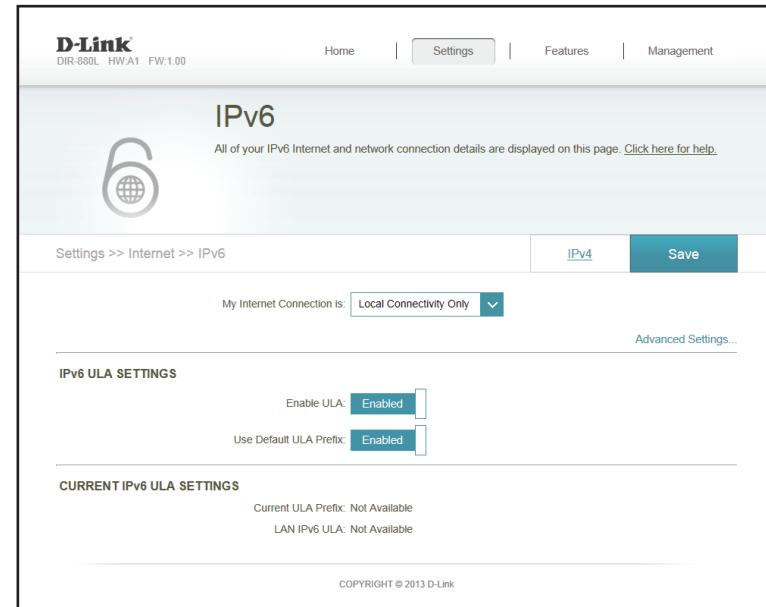
Use Default Checking this box will automatically configure the ULA prefix for **ULA Prefix:** the default setting.

ULA Prefix: If you wish to choose your own ULA prefix, enter it here.

Current IPv6 This section will display the current settings for your IPv6 ULA.

ULA Settings:

Click **Save** when you are done.



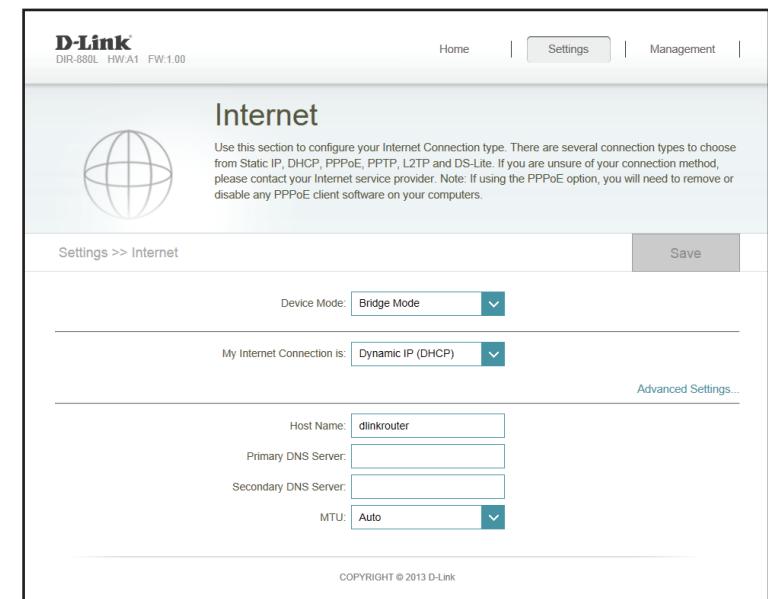
Internet (Bridge Mode)

In the Settings menu on the bar on the top of the page, click **Internet** to see the Internet configuration options.

My Internet Choose your Internet connection type from the drop-down menu.
Connection Is: You will be presented with the appropriate options for your connection type. Click **Advanced Settings...** to expand the list and see all of the options.

For **Dynamic IP (DHCP)** refer to page 91.

For **Static IP** refer to page 92.



The screenshot shows the D-Link DIR-880L web interface with the following details:

- Header:** D-Link DIR-880L HW/A1 FW:1.00, Home, Settings (selected), Management.
- Title:** Internet
- Description:** Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.
- Sub-Header:** Settings >> Internet
- Device Mode:** Bridge Mode
- My Internet Connection is:** Dynamic IP (DHCP)
- Advanced Settings...:** Link to expand connection type options.
- Host Name:** dlinkrouter
- Primary DNS Server:** [empty input field]
- Secondary DNS Server:** [empty input field]
- MTU:** Auto
- Copyright:** COPYRIGHT © 2013 D-Link

Dynamic IP (DHCP)

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

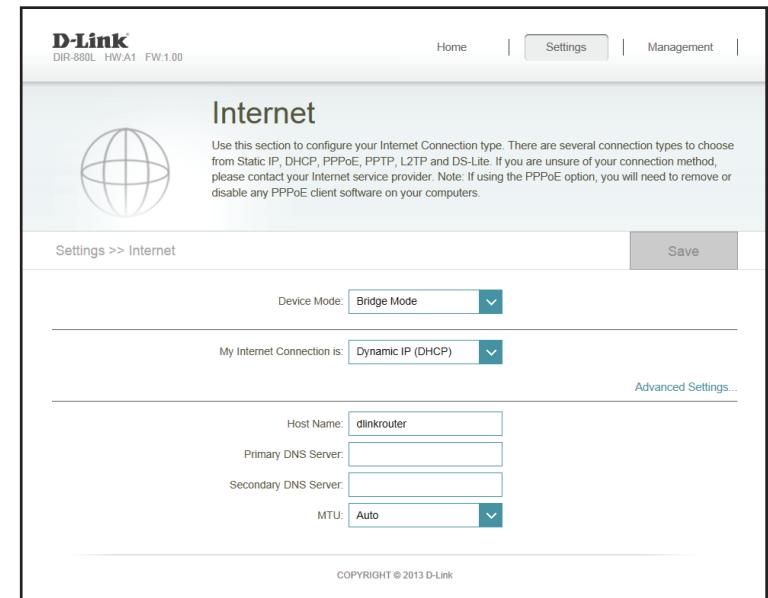
Host Name: The host name is optional but may be required by some ISPs. Leave it blank if you are not sure.

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

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

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

Click **Save** when you are done.



Static IP

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

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

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

Default Gateway: Enter the default gateway address provided by your ISP.

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

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

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

Click **Save** when you are done.

The screenshot shows the 'Internet' configuration page of the D-Link DIR-880L router's web interface. At the top, there is a note about choosing a connection type: "Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers." Below this note, there are several input fields: 'Device Mode' (set to 'Bridge Mode'), 'My Internet Connection is:' (set to 'Static IP'), 'IP Address', 'Subnet Mask', 'Default Gateway', 'Primary DNS Server', 'Secondary DNS Server', and 'MTU' (set to 'Auto'). A 'Save' button is located in the top right corner of the form area.

Wireless (Router Mode)

In the Settings menu on the bar on the top of the page, click **Wireless** to see the wireless configuration options. To configure the router's guest zone, click the **Guest Zone** link. Refer to page 95 for details. Click **Advanced Settings...** to expand the list and see all of the options. The following options apply to both the 2.4 GHz and the 5 GHz wireless frequency bands:

Status: Enable or disable the wireless frequency band.

Wi-Fi Name (SSID): Create a name for your wireless network using up to 32 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: Choose **None**, **WEP**, or **WPA/WPA2-(Personal)** (recommended).

802.11 Mode: Select the desired wireless networking standards to use. 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 Power: Select the desired wireless transmission power.

Channel Width: Select **Auto 20/40** 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.

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

The screenshot shows the 'Wireless' configuration page for a D-Link DIR-880L router. The top navigation bar includes Home, Settings (selected), Features, and Management. The main title is 'Wireless' with a sub-instruction: 'Use this section to configure the wireless settings for your D-Link Router. Please make sure that any changes made in this section will need to be updated on your wireless device.' Below the title is a Wi-Fi signal icon.

2.4GHz Settings:

- Status: Enabled
- Wi-Fi Name (SSID): dlink_24g
- Password: qqqqqqqq
- Security Mode: WPA-Personal
- 802.11 Mode: Mixed 802.11b/g/n
- Wi-Fi Channel: Auto
- Transmission Power: High
- Channel Width: 20 MHz
- Visibility Status: Visible
- Schedule: Always Enable

5GHz Settings:

- Status: Enabled
- Wi-Fi Name (SSID): dlink_5g
- Password: qqqqqqqq
- Security Mode: WPA-Personal
- 802.11 Mode: Mixed 802.11ac/a/n
- Wi-Fi Channel: Auto
- Transmission Power: High
- Channel Width: Auto 20/40/80 MHz
- Visibility Status: Visible
- Schedule: Always Enable

At the bottom right of the page is the copyright notice: 'COPRIGHT © 2013 D-Link'.

Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section (refer to page 115).

Click **Save** when you are done.

The screenshot shows the 'Wireless' configuration page for a D-Link DIR-880L router. The top navigation bar includes 'Home', 'Settings' (which is selected), 'Features', and 'Management'. The main title 'Wireless' is displayed above a brief description: 'Use this section to configure the wireless settings for your D-Link Router. Please make sure that any changes made in this section will need to be updated on your wireless device.' Below the title is a '2.4GHz' section and a '5GHz' section. Each section contains fields for 'Status' (set to 'Enabled'), 'Wi-Fi Name (SSID)', 'Password', and dropdown menus for 'Security Mode', '802.11 Mode', 'Wi-Fi Channel', 'Transmission Power', 'Channel Width', 'Visibility Status', and 'Schedule' (set to 'Always Enable'). A 'Guest Zone' link and a 'Save' button are located at the top right of the page. At the bottom right, there is a link to 'Advanced Settings...' and a copyright notice: 'COPYRIGHT © 2013 D-Link'.

Guest Zone

The guest zone feature will allow you to create temporary zones that can be used by guests to access the Internet. These zones will be separate from your main wireless network. You may configure different zones for the 2.4 GHz and 5 GHz wireless bands.

In the Settings menu on the bar on the top of the page, click **Wireless**, then click the **Guest Zone** link. Click **Advanced Settings...** to expand the list and see all of the options. The following options apply to both the 2.4 GHz and the 5 GHz 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 confine connectivity to the Internet, **Only:** disallowing guests from accessing other local network devices.

Click **Save** when you are done.

D-Link
DIR-880L HW:A1 FW:1.00

Home | Settings | Features | Management

Guest Zone

This page lets you enable and configure a Wi-Fi Guest Zone. Users connected to a Guest Zone cannot communicate or detect devices on your home network unless Internet Access Only is disabled under Home Network Access. [Click here for help.](#)

Settings >> Wireless >> Guest Zone

2.4GHz

Status:	Enabled
Wi-Fi Name (SSID):	dlink-guest
Password:	

5GHz

Status:	Enabled
Wi-Fi Name (SSID):	dlink-5GHz-guest
Password:	

Home Network Access

Internet Access Only:	Enabled
-----------------------	---------

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Wireless (Bridge Mode)

In the Settings menu on the bar on the top of the page, click **Wireless** to see the wireless configuration options. In Bridge Mode, the wireless function allows you to connect to an existing wireless network. You can either enter the settings manually, or click **Scan** to search for visible wireless networks (see below).

Wireless Enter the network name (SSID) of the network you are trying to **Network Name:** connect to.

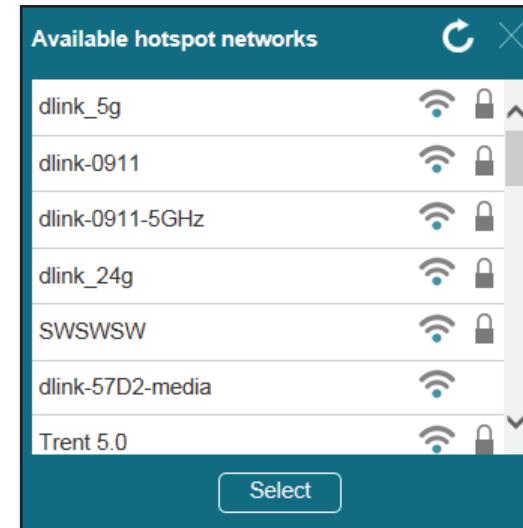
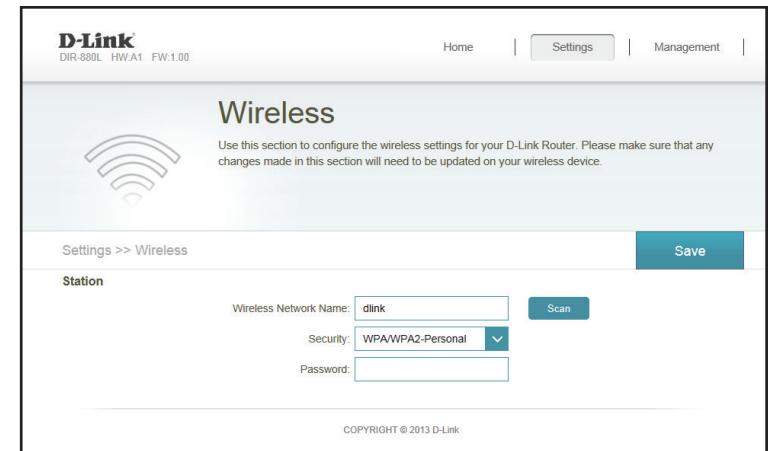
Security: Choose **None, WEP, or WPA/WPA2-(Personal)** depending on the security used by the network you are trying to connect to.

Password Select the length of the password used by the network you are trying **Length:** to connect to (WEP only).

Password: Enter the existing network's wireless password. (WEP, WPA/WPA2 only)

Click **Save** when you are done.

To scan for available wireless networks, click **Scan**, then click on the wireless network you want to connect to. You can see the wireless signal strength of each network, and the padlock icon means that a password is required to connect to that network. Click **Select** to finalize your choice, then **Save** when you are done.



Network

This section will allow you to change the local network settings of the router and to configure the DHCP settings. In the Settings menu on the bar on the top of the page, click **Network**. Click **Advanced Settings...** to expand the list and see all of the options.

LAN IP Address: Enter the 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 Link: The default address to access the router's configuration is **http://dlinkrouter.local**. Here, you can replace **dlinkrouter** with a name of your choice.

Local Domain Name: Enter the domain name (optional).

Name:

Enable DNS Relay: Disable to transfer the DNS server information from your ISP to your computers. If enabled, your computers will use the router for a DNS server.

Status: Enable or disable the DHCP server.

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

The screenshot shows the 'Network' configuration page of the D-Link DIR-880L router's web interface. At the top, it displays the model (DIR-880L HW:A1 FW:1.00) and navigation links (Home, Settings, Features, Management). The main title is 'Network'. Below the title, there's a brief description of the section: 'Use this section to configure the network settings for your device. You can enter a name for your device in the management link field, and use the link to access web UI in a web browser. We recommend you change the management link if there are more than one D-Link devices within the network.' A 'Save' button is located in the top right corner of the main content area. The page is divided into several sections: 'Network Settings' (containing fields for LAN IP Address, Subnet Mask, Management Link, Local Domain Name, and Enable DNS Relay), 'DHCP Server' (containing fields for Status, DHCP IP Address Range, DHCP Lease Time, and Always Broadcast), and 'Advanced Settings' (containing fields for WAN Port Speed, UPnP, IPv4 Multicast Streams, and IPv6 Multicast Streams). The bottom right corner of the page has a 'COPRIGHT © 2013 D-Link' watermark.

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

Time:

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

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

WAN Port Speed: You may set the port speed of the Internet port to 10 Mbps, 100

Speed: Mbps, 1000 Mbps, or Auto (recommended).

IPv4 Multicast Enable to allow IPv4 multicast traffic to pass through the router from

Stream: the Internet.

IPv6 Multicast Enable to allow IPv6 multicast traffic to pass through the router from

Stream: the Internet.

Click **Save** when you are done.

The screenshot shows the 'Network' configuration page of the D-Link DIR-880L web interface. At the top, there's a header with the D-Link logo and model information: DIR-880L HW/A1 FW:1.00. The main section is titled 'Network' with a sub-section 'Network Settings'. It includes fields for LAN IP Address (192.168.0.1), Subnet Mask (255.255.255.0), Management Link (http://dlinkrouter.local/), Local Domain Name, and Enable DNS Relay (Enabled). A 'Save' button is located at the top right of this section. Below it is a 'DHCP Server' section with fields for Status (Enabled), DHCP IP Address Range (192.168.0.100 to 192.168.0.199), DHCP Lease Time (10080 minutes), and Always Broadcast (Disabled). A note says '(compatibility for some DHCP Clients)'. At the bottom is an 'Advanced Settings' section with fields for WAN Port Speed (Auto), UPnP (Enabled), IPv4 Multicast Streams (Disabled), and IPv6 Multicast Streams (Disabled). The footer contains the copyright notice: COPYRIGHT © 2013 D-Link.

SharePort

This page will allow you to set up access to files on an external USB device plugged into the router. You can do this through the local network or from the Internet using either a web browser or an app on your smartphone or tablet. In the Settings menu on the bar on the top of the page, click **SharePort**.

Status: Check to enable DLNA media server functions, allowing connected clients access to media files over the network.

DLNA Media Server: Choose a name for your DLNA media server so that it can be found.

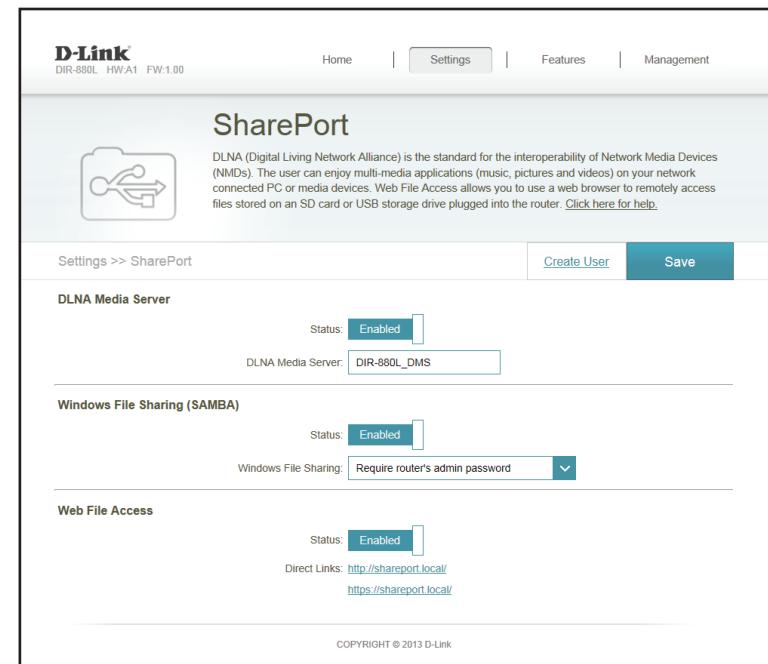
Windows File Sharing (SAMBA): Choose either **Allow all users to access (no password)** or **Require router's admin password** to specify whether the router's password will be required for access.

Web File Access: Enable remote access to files stored on a USB device plugged into the router through a web browser.

Direct Links: This area will display the HTTP and HTTPS links to connect to your SharePort drive through a web browser from a device on your network.

Click **Save** when you are done.

To manage user accounts for SharePort access, click **Create User** and refer to the next page for details.



Create User

The Create User page allows you to manage your SharePort user accounts. The current list of user accounts will be displayed, along with their current permissions and access path. If they do not have an account set up, users will be restricted to guest access; only having access to the "Guest" folder on the media server. The router can store a maximum of ten accounts (including the "Admin" account).

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	Access Path	Permission	Edit	Delete
Admin	root	ReadWrite	--	--

Create New User

User Name:

Password:

Permission:

Folder:

User Name: Enter the desired user name for the new account.

Password: Enter the password which the user will need to enter when logging in.

Permission: Select either **Read Only** or **Read/Write** to control whether the user can edit, add, or delete files on the device.

Folder: 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.

Click **OK** when you are done. The new user should be added to the list of user accounts. To save the new list, click **Save**. To return to the SharePort page, click **SharePort**.

mydlink

Enabling mydlink will allow you to access and manage the mydlink-compatible devices on your network. This can be done either through a web browser or via a smartphone app.

This page allows you to sign in to an existing mydlink account, or sign up for a new mydlink account. In the Settings menu on the bar on the top of the page, click **mydlink**.

If you do not already have a mydlink account, click **No, I want to create a new mydlink account**. Fill out your email address (which will also function as your username), choose a password, and enter your first and last name. Then, click **Sign Up** to create your new mydlink account.

If you already have a mydlink account, click **Yes, I have a mydlink account**. Enter your email address (which is also your username) and your password. Then, click **Sign In** to register your existing mydlink account with your router.

The screenshot shows the 'mydlink' registration page. At the top, there's a navigation bar with 'Home', 'Settings' (which is highlighted in blue), 'Features', and 'Management'. Below the navigation is the 'mydlink' logo and a brief description of its features. The main form is titled 'mydlink Registration'. It asks if the user has an existing account, with two radio buttons: 'Yes, I have a mydlink account.' (unchecked) and 'No, I want to create a new mydlink account.' (checked). Below these are fields for 'E-mail Address (Account Name)', 'Password', 'First Name', and 'Last Name'. At the bottom of the form is a checkbox for accepting the 'mydlink terms and conditions'. A copyright notice at the very bottom reads 'COPYRIGHT © 2013 D-Link'.

The screenshot shows the 'mydlink' registration page. The layout is identical to the previous one, but the 'Yes, I have a mydlink account.' radio button is checked. The 'No, I want to create a new mydlink account.' button is unchecked. The fields for 'Email Address (Account Name)' and 'Password' are visible. At the bottom is a 'Sign In' button and a terms and conditions checkbox. The copyright notice at the bottom is 'COPYRIGHT © 2013 D-Link'.

Features

QoS Engine

This section will allow you to prioritize particular clients over others, so that those 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 device a higher priority than the latter so that the movie streaming is not disrupted by the traffic of the other devices on the network.

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

Under All Devices, you will see device cards representing each connected client. If some are off-screen, you can use the < and > buttons to scroll through the cards.

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

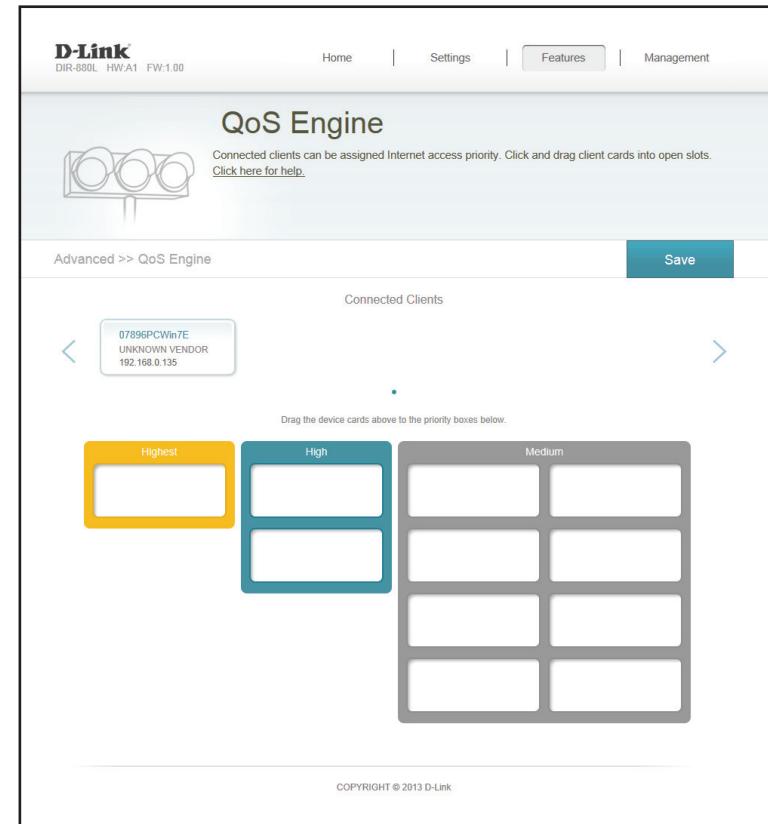
A maximum of **two** devices can be assigned **High** priority.

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

If no devices are explicitly assigned a priority, they will all be treated with equal priority. If some devices are not assigned a priority and others are, the unassigned devices will be treated with the lowest priority.

To assign a priority level to a device, drag the device card from the All Devices 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 All Devices list, click the cross icon in the top right of the device card.

Click **Save** when you are done.



Firewall Settings

The router's firewall protects your network from malicious attacks over the Internet. In the Features menu on the bar on the top of the page, click **Firewall Settings**. Click **Advanced Settings...** to expand the list and see all of the options.

Enable DMZ: Enable or disable Demilitarized Zone (DMZ). This completely exposes the client to threats over the Internet, and is not recommended in ordinary situations.

DMZ IP Address: If you enabled DMZ, enter the IP address of the client you wish to expose, or use the drop-down menu to quickly select it.

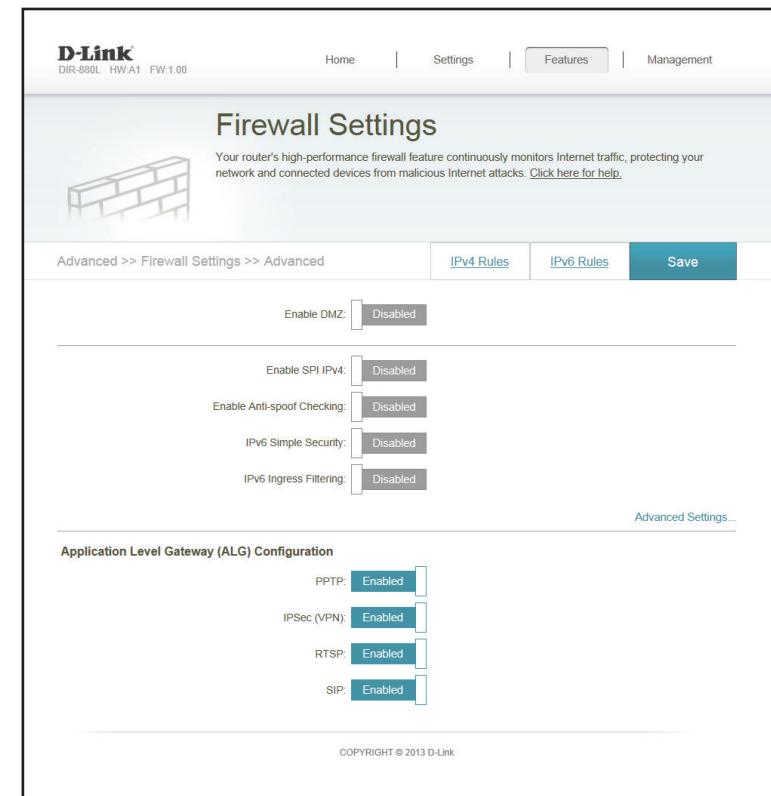
Enable SPI IPv4: Enabling Stateful Packet Inspection (SPI) helps to prevent cyber attacks by validating that the traffic passing through the session conforms to the protocol.

Enable Anti-Spoof Checking: Enable this feature to protect your network from certain kinds of "spoofing" attacks.

IPv6 Simple Security: Enable or disable IPv6 simple security.

IPv6 Ingress Filtering: Enable or disable IPv6 ingress filtering.

PPTP: Allows multiple machines on the LAN to connect to their corporate network using the PPTP protocol.

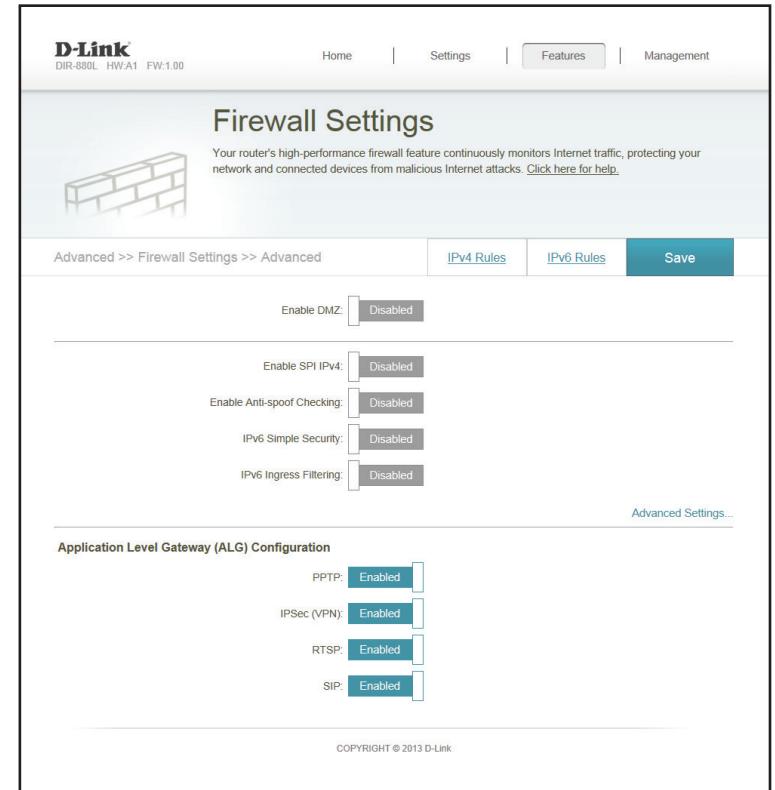


IPSec (VPN): Allows multiple VPN clients to connect to their corporate network using IPSec. Some VPN clients support traversal of IPSec through NAT. This Application Level Gateway (ALG) may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network,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

RTSP: Allows applications that uses Real Time Streaming Protocol (RTSP) to receive streaming media from the Internet.

SIP: Allows 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 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.



IPv4/IPv6 Rules

The IPv4/IPv6 Rules section is an advanced option that lets you configure what kind of traffic is allowed to pass through the network. To configure the IPv4 rules, from the Firewall Settings page click **IPv4 Rules**. To configure IPv6 rules, from the Firewall Settings page click **IPv6 Rules**. To return to the main Firewall Settings page, click **Security Check**.

To begin, use the drop-down menu to select whether you want to **ALLOW** or **DENY** the rules you create. You can also choose to turn 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 the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

Name: Enter a name for the rule.

Source IP Enter the source IP address range that the rule will apply to, and 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 will apply to, and **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 the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section (refer to page 115).

Click **OK** when you are done.

D-Link
DIR-880L HW:A1 FW:1.00

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Firewall Settings

The IPv4 rule section is an advance feature used to deny or allow traffic from passing through the device. Click here for help.

Advanced >> Firewall Settings >> IPv4 Rules

Name	Schedule	Edit	Delete
My Rule	Always Enable		

Add Rule Remaining: 9

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Create New Rule

Name:	<input type="text"/>
Source IP Address Range:	WAN
Destination IP Address Range:	WAN
Port Range:	TCP
Schedule:	Always Enable

Apply

Port Forwarding

Port forwarding allows you to specify a port or range of ports to open for specific devices on the network. This might be necessary for certain applications to connect through the router. In the Features menu on the bar on the top of the page, 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 the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

Name: Enter a name for the rule.

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

TCP Port: Enter the TCP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).

UDP Port: Enter the UDP ports that you want to open. You can enter a single port or a range of ports. Separate ports with a comma (for example: 24,1009,3000-4000).

Schedule: Use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section (refer to page 115).

Click **OK** when you are done.

Status	Name	Local IP	TCP Port	UDP Port	Schedule	Edit	Delete
My Rule	192.168.0.135	5970	5970	Always Enable			

Virtual Server

The virtual server allows you to specify a single public port on your router for redirection to an internal LAN IP Address and Private LAN port. To configure the virtual server, from the Port Forwarding page click **Virtual Server**. To return to the main Port Forwarding page, 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 the **Add Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

Name: Enter a name for the rule.

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

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

Protocol Number: If you entered **Other** above, enter the protocol 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 the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section (refer to page 115).

Click **OK** when you are done.

Status	Name	Local IP	Protocol	External Port	Internal Port	Schedule	Edit	Delete
<input checked="" type="checkbox"/>	My Application	192.168.0.135	TCP	5970	5970	Always Enable		

Website Filter

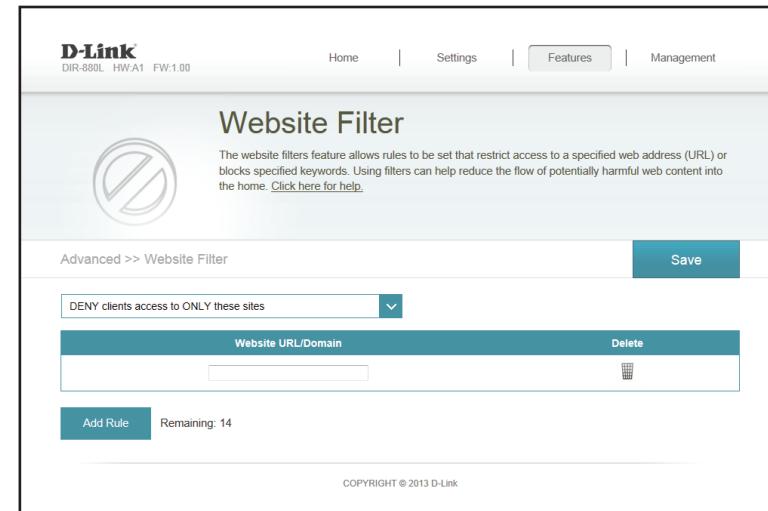
The website filter settings allow you to block access to certain web sites. You can either create a list of sites to block, or create a list of sites to allow (with all other sites being blocked).

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 **Create New 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 to control how data traffic is moved around your network.

In the Features menu on the bar on the top of the page, click **Static Routes**.

To configure IPv6 rules, click **IPv6** and refer to page 110. To return to the main IPv4 static routes page, click **IPv4**.

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 Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

Name: Enter a name for the rule.

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

Netmask: 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 **OK** when you are done.

Name:	<input type="text"/>
Destination Network:	<input type="text"/>
Mask:	<input type="text"/>
Gateway:	<input type="text"/>
Metric:	<input type="text"/>
Interface:	WAN

Apply

IPv6

To configure IPv6 rules, on the Static Routes page click **IPv6**. To return to the main IPv4 static routes page, click **IPv4**.

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 Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

D-Link
DIR-880L HW:A1 FW:1.00

Home | Settings | Features | Management

Static Routes

Once connected to the Internet, your router automatically builds routing tables that determine where traffic should be sent. Static routes can override this process, allowing traffic to be directed to a specific client or location. [Click here for help.](#)

Advanced >> Static Routes >> IPv6

Status	Name	DestNetwork	PrefixLen	Gateway	Metric	Interface	Edit	Delete
Add Route	Remaining: 10							

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Name: Enter a name for the 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.

Metric: Enter the metric value for this rule here.

Interface: Select the interface that the IP packet must use to transit out of the router when this route is used.

Click **OK** when you are done.

Create New Route

Name:	<input type="text"/>
DestNetwork:	<input type="text"/>
PrefixLen:	<input type="text"/>
Metric:	<input type="text"/>
Interface:	<input type="text"/> NULL

Apply

Dynamic DNS

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

In the Features menu on the bar on the top of the page, click **Dynamic DNS**.

Enable Enabling dynamic DNS will reveal further 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 username.

Password: Enter your dynamic DNS password.

Time Out: Enter a timeout time (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 112.

The screenshot shows the 'Dynamic DNS' configuration page for a D-Link DIR-880L router. At the top, there's a banner with a link to 'http://Betty.dlink.com/'. Below it, a sub-header says 'Advanced >> Dynamic DNS'. On the left, a note explains DynDNS: 'Dynamic Domain Name Service (DynDNS) allows your router to associate an easy-to-remember domain name such as [YourDomainName].com with the regularly changing IP address assigned by your Internet Service provider. This feature is helpful when running a virtual server.' A 'Save' button is in the top right corner. The main form has fields for 'Enable Dynamic DNS' (set to 'Enabled'), 'Status' (set to 'Disconnected'), 'Server Address' (set to 'dyndns.com' with a dropdown menu showing 'dyndns.com'), 'Host Name', 'User Name', 'Password', and 'Time Out' (set to '24 hours'). At the bottom, there's a table with columns 'Status', 'Host Name', 'IPv6 Address', 'Edit', and 'Delete'. One row is shown with 'Status' as 'Status: Disconnected'. A 'Remaining: 10' message is below the table. The footer says 'COPYRIGHT © 2013 D-Link'.

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 Rules** button. Click **Save** when you are done. If you edit or create a rule, the following options will appear:

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. Alternatively, select the server device in the drop-down menu.

Click **OK** when you are done.

Status	Host Name	IPv6 Address	Edit	Delete
Add Record	Remaining: 10			

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Create New Record

Host Name:

IPv6 Address: << Computer Name

Quick VPN

The Quick VPN 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.

In the Features menu on the bar on the top of the page, click **Quick VPN**. Click **Advanced Settings...** to expand the list and see all of the options.

L2TP over IPSec: To allow Quick VPN access to your network, click **Enable**.

Username: Enter a username of your choice.

Password: Enter a password of your choice.

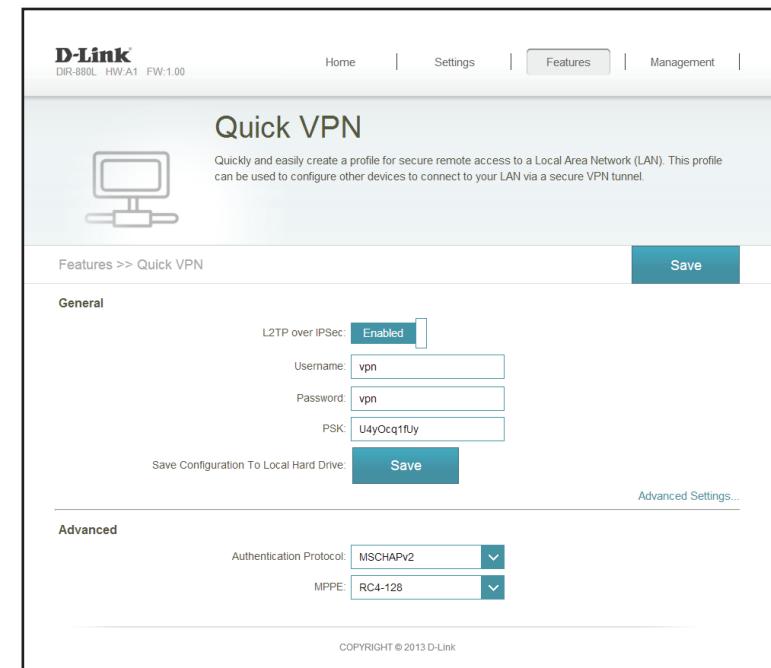
PSK: Enter a pre-shared key (PSK). Clients attempting to connect to your network through a VPN will need to enter this key.

Save Configuration To Local Hard Drive: iOS users can quickly and easily establish a VPN using a configuration file. Click **Save** to export these settings as a VPN profile, allowing anyone with the file to connect to your network on an iOS device.

Authentication Protocol: Select either **MSCHAPv2, PAP, or CHAP**.

MPPE: Select either **None, RC4-40, or RC4-128**.

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 internal system clock. From here you can set the time zone, the Network Time Protocol (NTP) server, and enable or disable daylight saving time.

In the Management menu on the bar on the top of the page, click **Time & Schedule**.

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

Time: Displays the current date and time of the router.

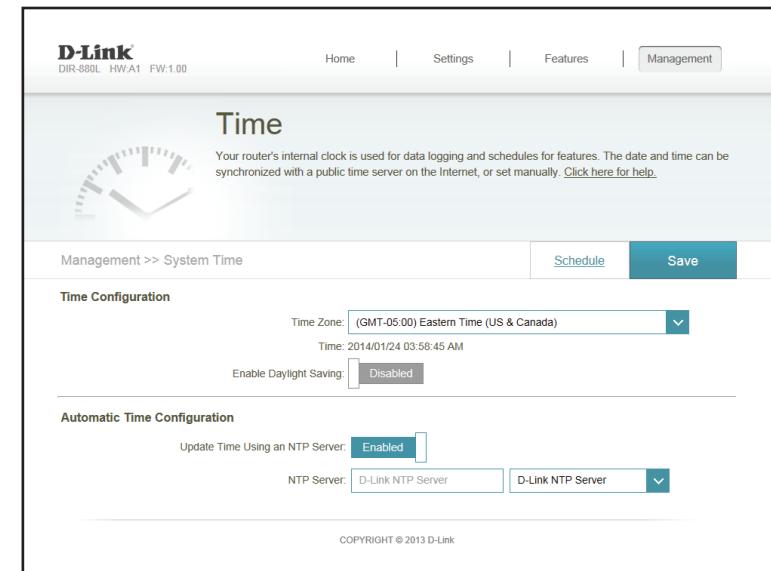
Daylight Saving: Enable or disable daylight saving time.

Update Time Using an NTP Server: Enable or disable to allow an NTP server on the Internet to synchronize the time and date with your router. If you enable this option, select

Server: an NTP server from the drop-down menu. To configure the router's time and date manually, disable this 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 115.



Schedule

Some configuration rules can be set according to a pre-configured schedule. To create, edit, or delete schedules, from the Time page click **Schedule**. To return to the Time page, click **Time**.

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 Rules** button. Click **Save** when you are done. If you edit or create a rule, the following screen will appear:

Name	Schedule	Edit	Delete
Work	Monday : 8:00 - 19:00 Tuesday : 8:00 - 19:00 Wednesday : 8:00 - 19:00 Thursday : 8:00 - 19:00 Friday : 8:00 - 18:00		

Add Rule Remaining: 9

First, enter the name of your schedule in the **Name** field.

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 cross icon.

Click **OK** when you are done.

Name:

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								
Sun																								

Apply

Name: Work

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon																			8:00 - 19:00	X				
Tue																		8:00 - 19:00	X					
Wed																		8:00 - 19:00	X					
Thu																		8:00 - 19:00	X					
Fri																		8:00 - 18:00	X					
Sat																								
Sun																								

Apply

System Log

The router keeps a running log of events. This log can be sent to a Syslog server, and sent to your email address. In the Management menu on the bar on the top of the page, click **System Log**.

Enable Logging Check this box to send the router logs to a SysLog Server. If this is **to Syslog** disabled, 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 Address:** connected to the router, select it from the drop-down menu to automatically populate the field.

Enable Email If you want the logs to be automatically sent to an email address, **Notification:** enable this option.

Enter the settings for your email account. These are obtained from your email service provider.

On Log Full: If email notification is enabled, this option will set the router to send the log by email when the log is fully.

On Schedule: This option can be enabled to send an email according to a pre-configured schedule. See below.

Schedule: If you enable **On Schedule** is enabled, use the drop-down menu to select the time schedule that the rule will be enabled on. The schedule may be set to **Always Enable**, or you can create your own schedules in the **Schedules** section (refer to page 115).

Click **Save** when you are done.

Admin

This page will allow you to change the administrator (Admin) password and enable remote management.

In the Management menu on the bar on the top of the page, click **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 Graphical Authentication (CAPTCHA): Enables a challenge-response test to require users to type letters or numbers from a distorted image displayed on the screen to prevent online hackers and unauthorized users from gaining access to your router's network settings.

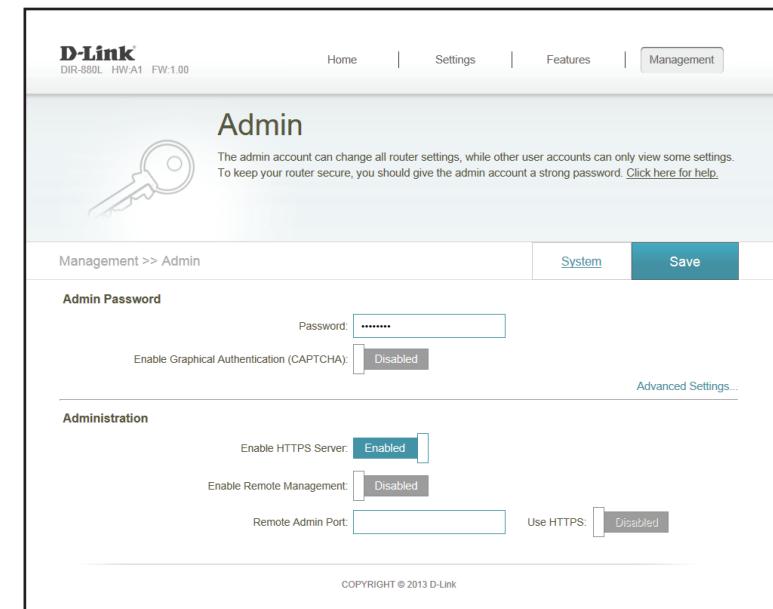
Enable HTTPS Server: Check to enable HTTPS to connect to the router securely. This means to connect to the router, you must enter **https://192.168.0.1** instead of **http://192.168.0.1**.

Enable Remote Management: Remote management allows the DIR-880L to be configured from the Internet by a web browser. A password is still required to access the web management interface.

Remote Admin Port: The port number used to access the DIR-880L is used in the URL. Example: **http://x.x.x.x:8080** where x.x.x.x is the Internet IP address of the DIR-880L 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 settings, or reboot the router, click **System** and refer to page 118.



System

This page allows you to save the router's current configuration, load a previously saved configuration, reset the router to its factory default settings, or reboot the router.

From the Admin page click **System**. To return to the Admin page, click **Admin**.

Save Settings This option will save the current router configuration settings to a file

To Local Hard Drive: on your computer.

Load Settings This option will load previously saved router configuration file. This will

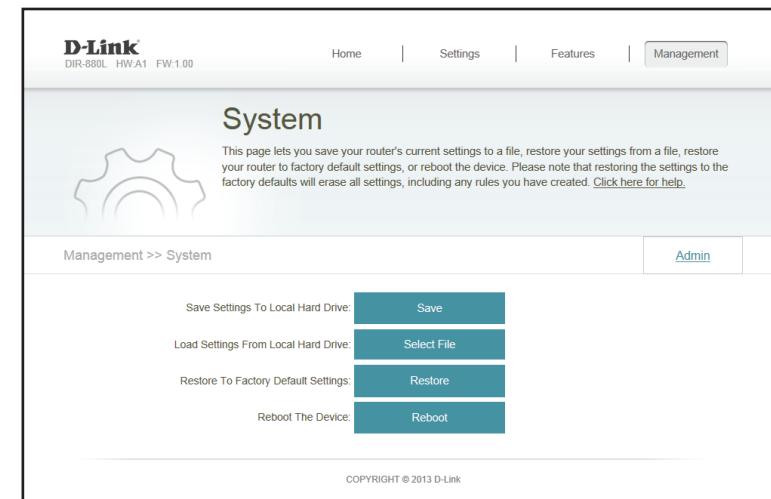
From Local Hard Drive: overwrite the router's current configuration.

Restore To Factory Default This option will restore all configuration settings back to the settings that

Settings: were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the **Save Settings To Local Hard Drive** button above.

Reboot The Device: Click to reboot the router.

Click **Save** when you are done.



Upgrade

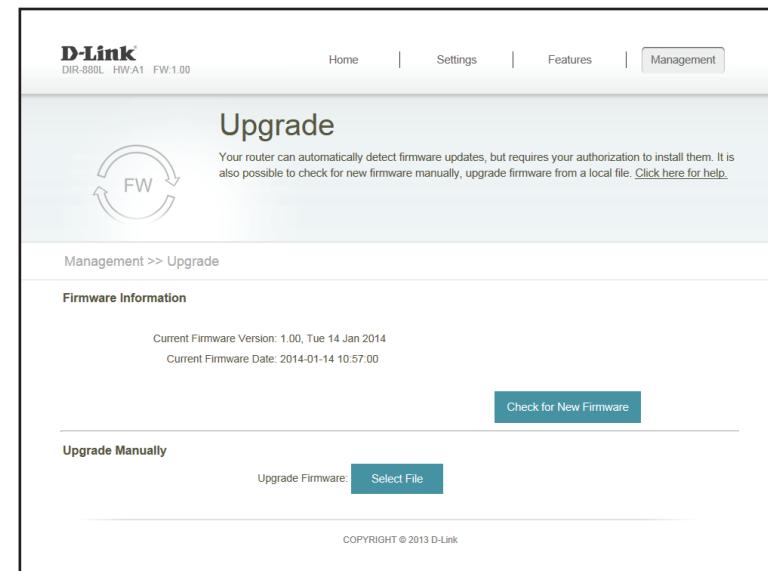
This page will allow you to upgrade the router's firmware or language pack, either automatically or manually. To manually upgrade the firmware or language pack, you must first download the relevant file from <http://support.dlink.com>.

In the Management menu on the bar on the top of the page, click **Upgrade**.

Firmware Information: The current firmware's version and date will be displayed.

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

Upgrade Firmware: If you wish to upgrade manually, first download the firmware file you wish to upgrade to. Next, click the **Upgrade Firmware** button and browse to the file to install the new firmware. You can also browse to a language pack file to install a new language pack.



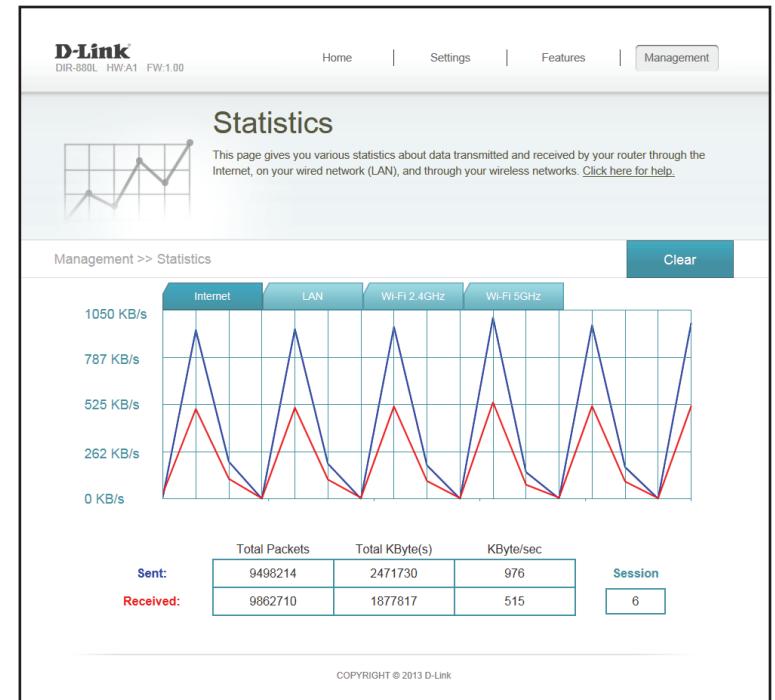
Statistics

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

In the Management menu on the bar on the top of the page, click **Statistics**.

You can view the **Internet**, **LAN**, **Wi-Fi 2.4GHz**, or **Wi-Fi 5GHz** 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-880L router. Please 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 DIR-880L for about 1 second. The Internet LED on the front will start to blink.



Step 2 - Within 2 minutes, press the WPS button on your wireless client (or launch the software utility and start the WPS process).

Step 3 - Allow up to 1 minute for your connection to be configured. Once the Internet light stops blinking, you will be connected and your wireless connection will be secure with WPA2.

Windows® 8

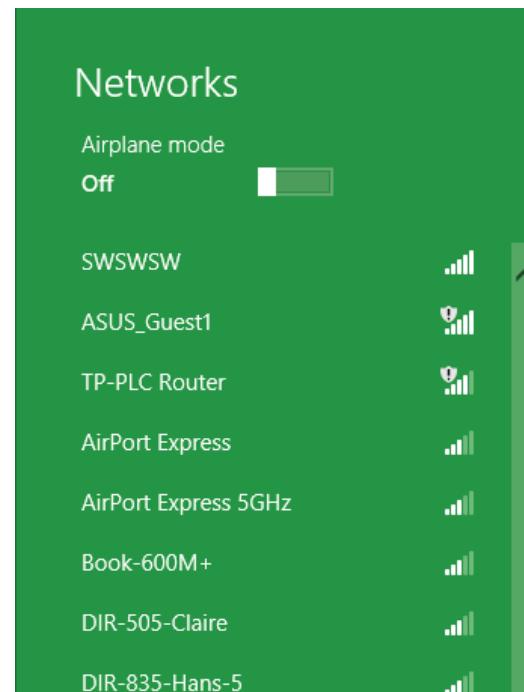
WPA/WPA2

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 (Wi-Fi password) being used.

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

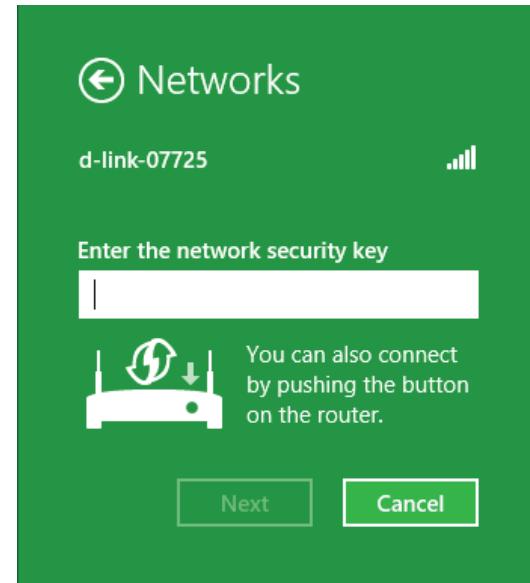


Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.

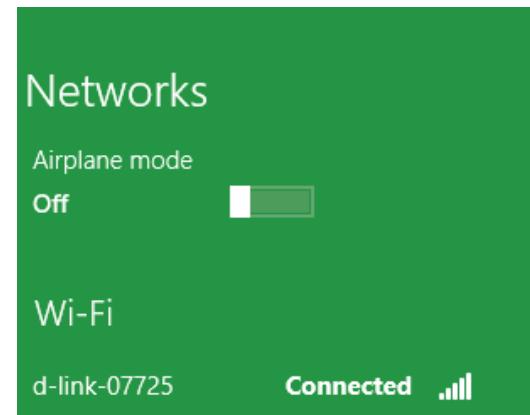


You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

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.

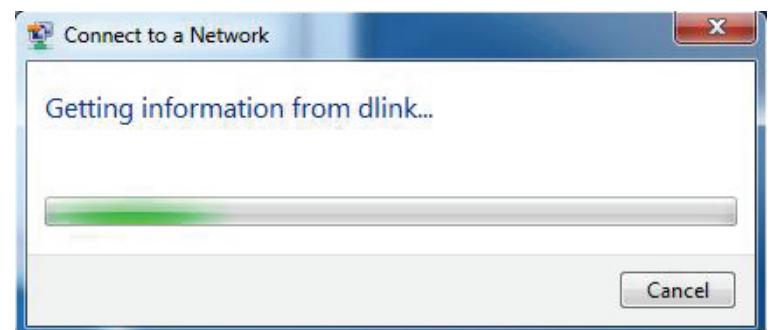


3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

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.

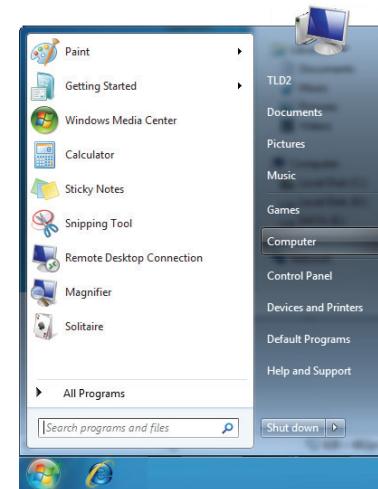
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.



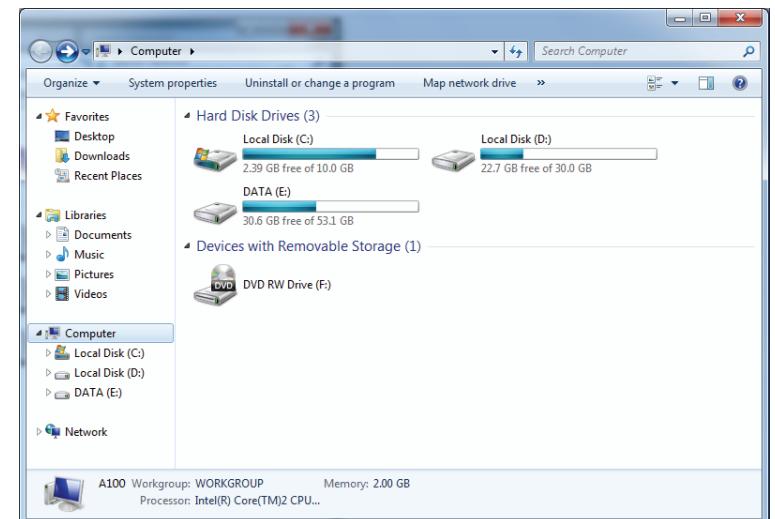
WPS

The WPS feature of the DIR-880L can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature:

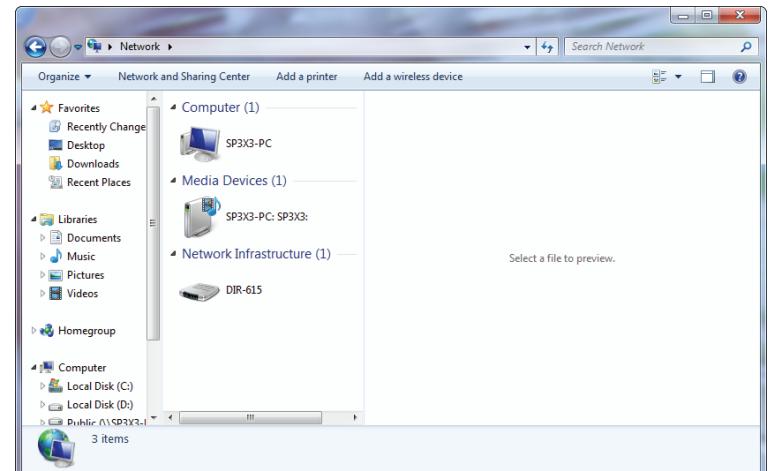
1. Click the **Start** button and select **Computer** from the Start menu.



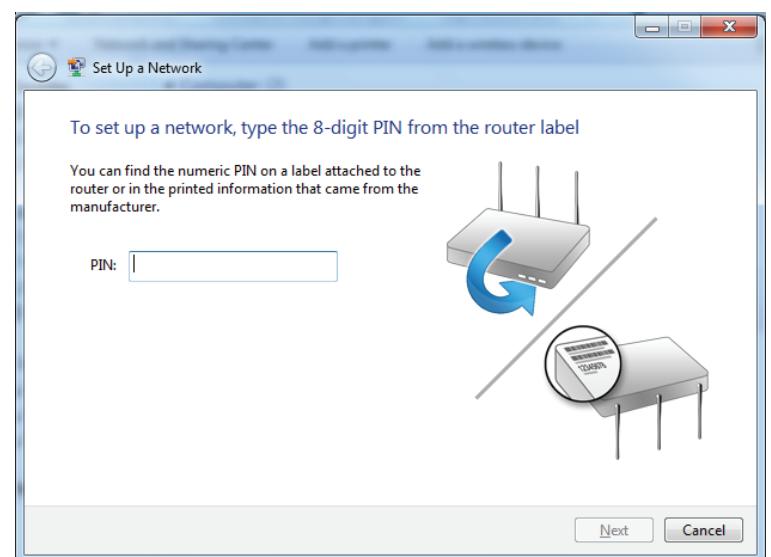
2. Click **Network** on the left side.



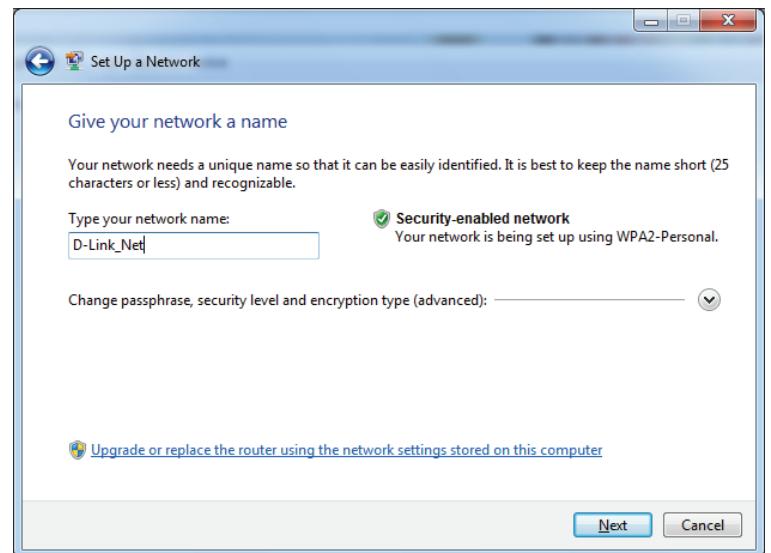
3. Double-click the DIR-880L.



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**.

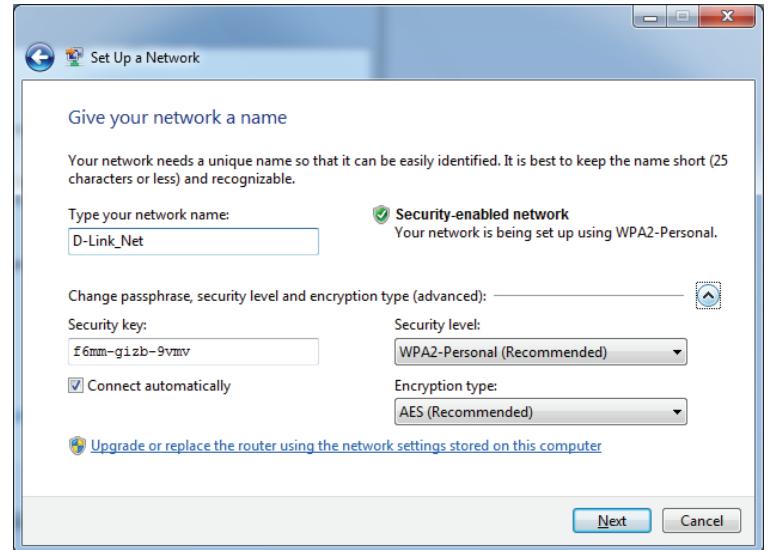


5. Type a name to identify the network.



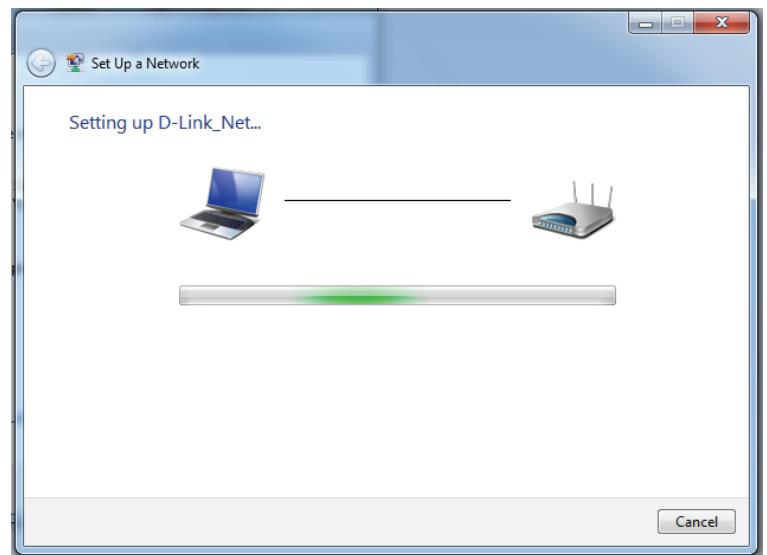
6. To configure advanced settings, click the icon.

Click **Next** to continue.



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

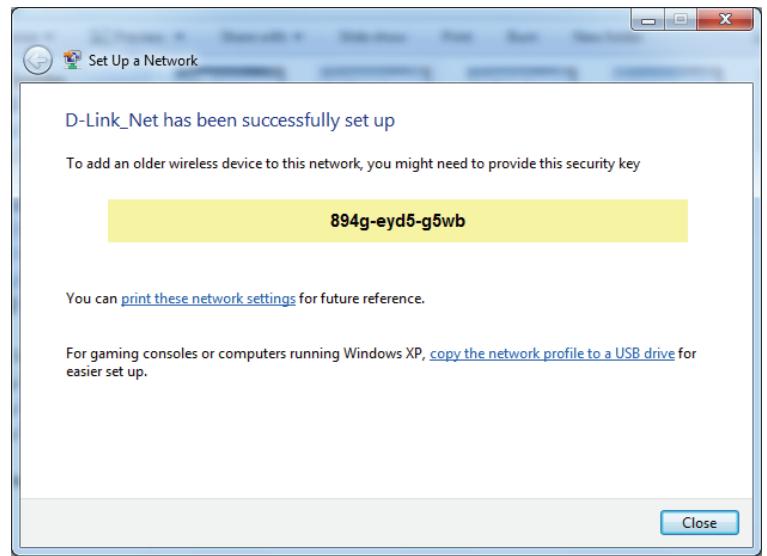
Wait for the configuration to complete.



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.

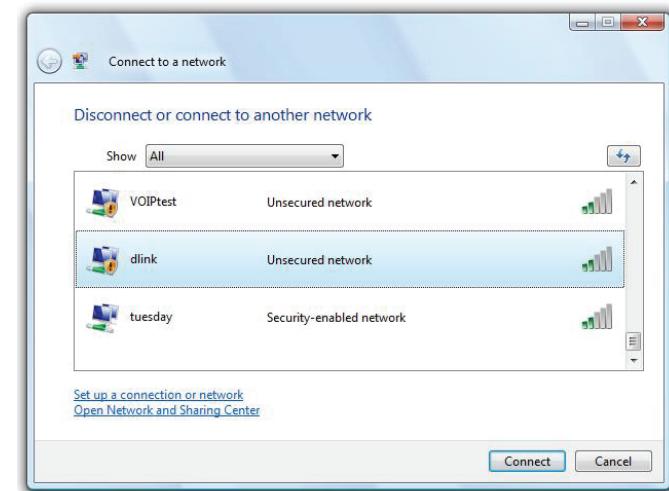
or

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 your TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



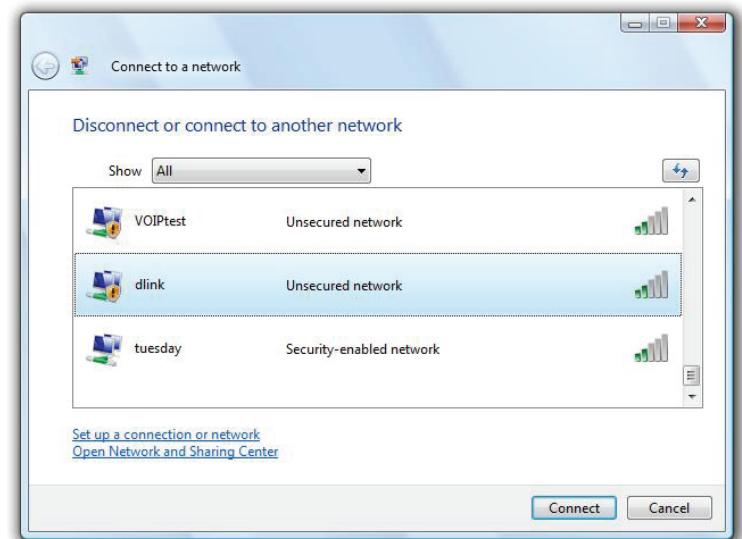
WPA/WPA2

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.



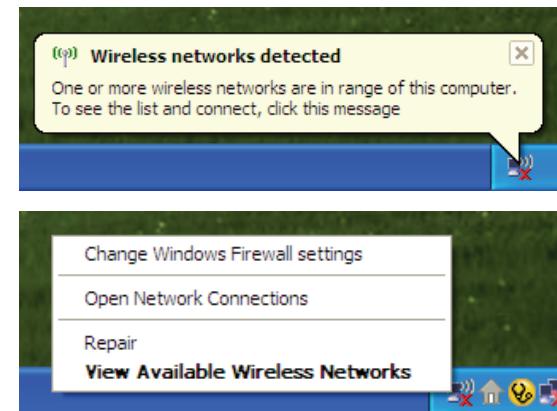
Windows® XP

Windows® XP users may use the built-in wireless utility (Zero Configuration Utility). The following instructions are for Service Pack 2 users. If you are using another company's utility, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows® XP utility as seen below.

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

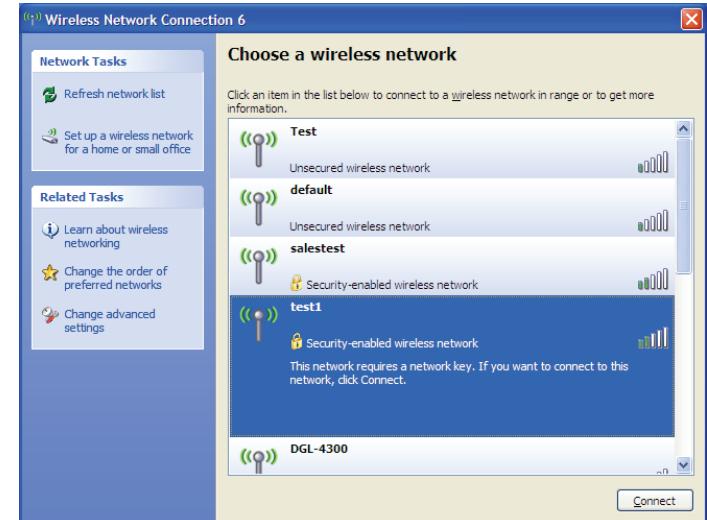
or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **View Available Wireless Networks**.



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

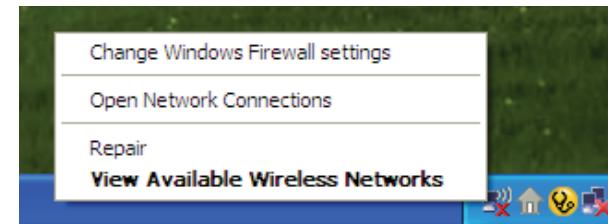
If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



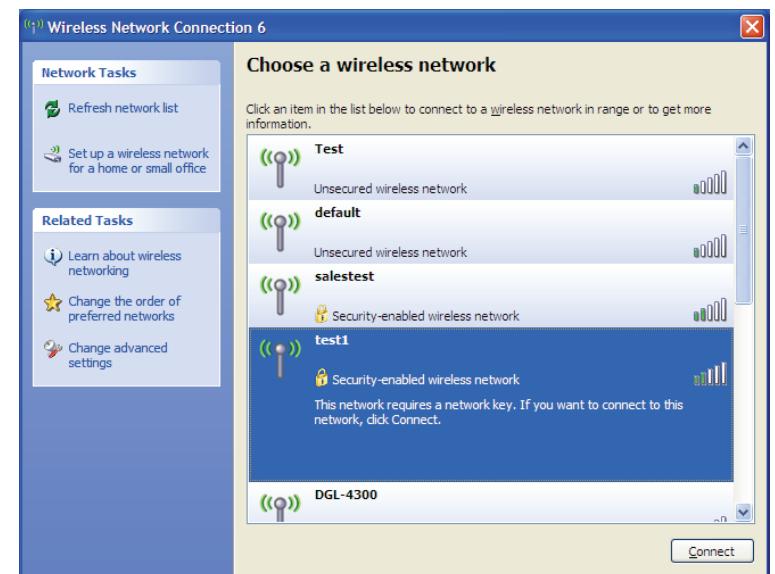
WPA/WPA2

It is recommended to enable WPA 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 WPA key being used.

1. Open the Windows® XP Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower-right corner of screen). Select **View Available Wireless Networks**.



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



3. The **Wireless Network Connection** box will appear. Enter the WPA-PSK Wi-Fi password and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the WPA-PSK settings are correct. The Wi-Fi password must be exactly the same as on the wireless router.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DIR-880L. Read the following descriptions if you are having problems. The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to these examples.

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:
 - Microsoft Internet Explorer® 7 or higher
 - Mozilla Firefox 3.5 or higher
 - Google™ Chrome 8 or higher
 - Apple Safari 4 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable, or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any Internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

- Configure your Internet settings:
 - Go to **Start > Settings > Control Panel**. Double-click 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. What can I do if I forgot my password?

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

To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process. Wait about 30 seconds to access the router. The default IP address is **192.168.0.1**. When logging in, leave the password box empty.

3. Why can't I connect to certain sites or send and receive emails when connecting through my router?

If you are having a problem sending or receiving email, or connecting to secure sites such as eBay, banking sites, and Hotmail, we suggest lowering the MTU in increments of ten (Ex. 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® 95, 98, and Me users type in **command** (Windows® NT, 2000, XP, Vista®, and 7 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=125ms 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 email. 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 has 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 USB 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-880L 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

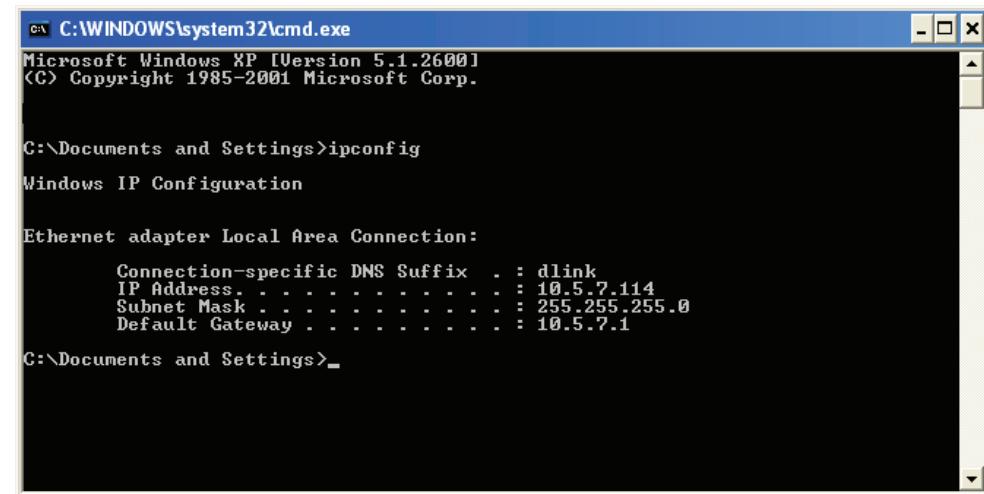
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start > Run**. In the run box type **cmd** and click **OK**. (Windows® 7/Vista® users type **cmd** in the **Start Search** box.)

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.



The screenshot shows a Windows XP Command Prompt window titled 'cmd C:\WINDOWS\system32\cmd.exe'. The window displays the output of the 'ipconfig' command. The output shows the following details for the 'Ethernet adapter Local Area Connection':

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

The command prompt then shows 'C:\Documents and Settings>' followed by a cursor.

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® 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**.

Windows® XP - Click on **Start > Control Panel > Network Connections**.

Windows® 2000 - From the desktop, right-click **My Network Places > Properties**.

Step 2

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

Step 3

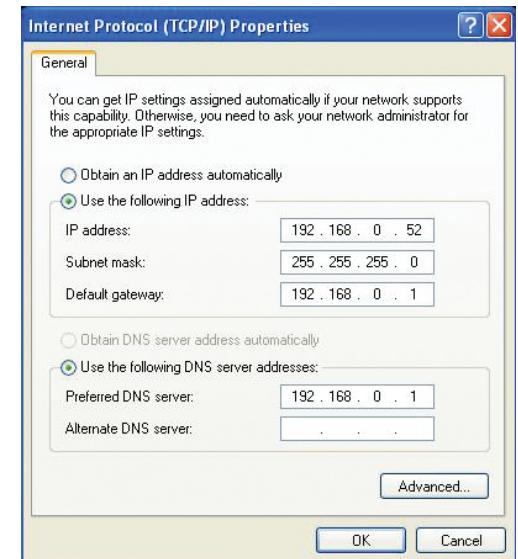
Highlight **Internet Protocol (TCP/IP)** and click **Properties**.

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-880L 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

- 802.11 a/b/g/n/ac wireless LAN
- Four 10/100/1000 Gigabit LAN ports
- 10/100/1000 Gigabit WAN port
- Two USB ports (one USB 3.0, one USB 2.0)

Antenna Types

- Three dual-band dipole antennas

Wireless Frequency Range

- 2.4 GHz to 2.4835 GHz
- 5.150 GHz to 5.250 GHz

Standards

- IEEE 802.11ac (draft)
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11a
- IEEE 802.3
- IEEE 802.3u

Security

- WPA™ - Personal/Enterprise
- WPA2™ - Personal/Enterprise
- Wi-Fi Protected Setup (WPS) PIN/PBC

Power

- Input: 100 to 240 V AC, 50/60 Hz
- Output: 12 V DC, 3 A

USB Port Power

- 5 V / 0.9 A

Operating Temperature

- 0 to 40°C (32 to 104°F)

Humidity

- 95% maximum (non-condensing)

Certifications

- FCC Class B
- CE Class B
- C-Tick
- DLNA
- IPv6 Ready
- Wi-Fi Protected Setup (WPS)
- Wi-Fi Multimedia (WMM)
- Compatible with Windows 8

Dimensions

- L = 246.9 mm (9.72 inches)
- W = 190.4 mm (7.50 inches)
- H = 47.2mm (1.86 inches)

1 Maximum wireless signal rate derived from IEEE Standard 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 factors will adversely affect wireless signal range.

2 Frequency Range varies depending on country's regulation.

3 The DIR-880L does not include 5.25-5.35 GHz & 5.47-5.725 GHz in some regions.

Regulatory Statements



	Frequency Band(s) Frequenzband Fréquence bande(s) Bandas de Frecuencia Frequenza/e Frequentie(s)	Max. Output Power (EIRP) Max. Output Power Consommation d'énergie max. Potencia máxima de Salida Potenza max. Output Max. Output Power
5 G	5.15 – 5.25 GHz	200 mW
	5.25 – 5.35 GHz	200 mW
	5.47 – 5.725 GHz	1 W
2.4 G	2.4 – 2.4835 GHz	100 mW

European Community Declaration of Conformity:

Česky [Czech]	Tímto D-Link Corporation prohlašuje, že tento produkt, jeho příslušenství a software jsou v souladu se směrnicí 2014/53/EU. Celý text ES prohlášení o shodě vydaného EU a o firmwaru produktu lze stáhnout na stránkách k produktu www.dlink.com .
Dansk [Danish]	D-Link Corporation erklærer herved, at dette produkt, tilbehør og software er i overensstemmelse med direktiv 2014/53/EU. Den fulde tekst i EU-overensstemmelseserklæringen og produktfirmware kan wnloades fra produktsiden hos www.dlink.com .
Deutsch [German]	Hiermit erklärt die D-Link Corporation, dass dieses Produkt, das Zubehör und die Software der Richtlinie 2014/53/EU entsprechen. Der vollständige Text der Konformitätserklärung der Europäischen Gemeinschaft sowie die Firmware zum Produkt stehen Ihnen zum Herunterladen von der Produktseite im Internet auf www.dlink.com zur Verfügung.
Eesti [Estonian]	Käesolevaga kinnitab D-Link Corporation, et see toode, tarvikud ja tarkvara on kooskõlas direktiiviga 2014/53/EL. Euroopa Liidu vastavusdeklaratsiooni täistekst ja toote püsivara on allalaadimiseks saadaval tootelehel www.dlink.com .
English	Hereby, D-Link Corporation, declares that this product, accessories, and software are in compliance with directive 2014/53/EU. The full text of the EU Declaration of Conformity and product firmware are available for download from the product page at www.dlink.com
Español [Spanish]	Por la presente, D-Link Corporation declara que este producto, accesorios y software cumplen con las directivas 2014/53/UE. El texto completo de la declaración de conformidad de la UE y el firmware del producto están disponibles y se pueden descargar desde la página del producto en www.dlink.com .
Ελληνική [Greek]	Με την παρούσα, η D-Link Corporation δηλώνει ότι αυτό το προϊόν, τα αξεσουάρ και το λογισμικό συμμορφώνονται με την Οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ και το υλικολογισμικό του προϊόντος είναι διαθέσιμα για λήψη από τη σελίδα του προϊόντος στην τοποθεσία www.dlink.com .
Français [French]	Par les présentes, D-Link Corporation déclare que ce produit, ces accessoires et ce logiciel sont conformes aux directives 2014/53/UE. Le texte complet de la déclaration de conformité de l'UE et le programme du produit sont disponibles au téléchargement sur la page des produits à www.dlink.com .
Italiano [Italian]	Con la presente, D-Link Corporation dichiara che questo prodotto, i relativi accessori e il software sono conformi alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE e il firmware del prodotto sono disponibili per il download dalla pagina del prodotto su www.dlink.com .

Latviski [Latvian]	Ar šo uzņēmums D-Link Corporation apliecina, ka šis produkts, piederumi un programmatūra atbilst direktīvai 2014/53/ES. ES atbilstības deklarācijas pilno tekstu un produkta aparātprogrammatūru var lejupielādēt attiecīgā produkta lapā vietnē www.dlink.com .
Lietuvių [Lithuanian]	Šiuo dokumentu „D-Link Corporation“ pareiškia, kad šis gaminys, priedai ir programinė įranga atitinka direktyvą 2014/53/ES. Visą ES atitikties deklaracijos tekštą ir gaminio programinę aparatinę įrangą galima atsisiušti iš gaminio puslapio adresu www.dlink.com .
Nederlands [Dutch]	Hierbij verklaart D-Link Corporation dat dit product, accessoires en software voldoen aan de richtlijnen 2014/53/EU. De volledige tekst van de EU conformiteitsverklaring en productfirmware is beschikbaar voor download van de productpagina op www.dlink.com .
Malti [Maltese]	Bil-prezenti, D-Link Corporation tiddikjara li dan il-prodott, l-accessorji, u s-software huma konformi mad-Direttiva 2014/53/UE. Tista' tniżżeż it-test shiħ tad-dikjarazzjoni ta' konformità tal-UE u l-firmware tal-prodott mill-paġna tal-prodott fuq www.dlink.com .
Magyar [Hungarian]	Ezennel a D-Link Corporation kijelenti, hogy a jelen termék, annak tartozékaí és szoftvere megfelelnek a 2014/53/EU sz. rendeletek rendelkezéseinek. Az EU Megfelelőségi nyilatkozat teljes szövege és a termék firmware a termék oldaláról töltethető le a www.dlink.com címen.
Polski [Polish]	D-Link Corporation niniejszym oświadcza, że ten produkt, akcesoria oraz oprogramowanie są zgodne z dyrektywami 2014/53/EU. Pełen tekst deklaracji zgodności UE oraz oprogramowanie sprzętowe do produktu można pobrać na stronie produktu w witrynie www.dlink.com .
Português [Portuguese]	Desta forma, a D-Link Corporation declara que este produto, os acessórios e o software estão em conformidade com a diretiva 2014/53/UE. O texto completo da declaração de conformidade da UE e do firmware
Slovensko[Slovenian]	Podjetje D-Link Corporation s tem izjavlja, da so ta izdelek, dodatna oprema in programska oprema skladni z direktivami 2014/53/EU. Celotno besedilo izjave o skladnosti EU in vdelana programska oprema sta na voljo za prenos na strani izdelka na www.dlink.com .
Slovensky [Slovak]	Spoločnosť D-Link týmto vyhlasuje, že tento produkt, príslušenstvo a softvér sú v súlade so smernicou 214/53/EÚ. Úplné znenie vyhlásenia EÚ o zhode a firmvéri produktu sú k dispozícii na prevzatie zo stránky produktu www.dlink.com .
Suomi [Finnish]	D-Link Corporation täten vakuuttaa, että tämä tuote, lisävarusteet ja ohjelmisto ovat direktiivin 2014/53/EU vaatimusten mukaisia. Täydellinen EU-vaatimustenmukaisuusvakuutus samoin kuin tuotteen laiteohjelmisto ovat ladattavissa osoitteesta www.dlink.com .

Svenska [Swedish]	D-Link Corporation försäkrar härmed att denna produkt, tillbehör och programvara överensstämmer med direktiv 2014/53/EU. Hela texten med EU-försäkran om överensstämmelse och produkt-firmware kan hämtas från produktsidan på www.dlink.com .
Íslenska [Icelandic]	Hér með lýsir D-Link Corporation því yfir að þessi vara, fylgihlutir og hugbúnaður eru í samræmi við tilskipun 2014/53/EB. Sækja má ESB-samræmisyfirlýsinguna í heild sinni og fastbúnað vörunnar af vefsíðu vörunnar á www.dlink.com .
Norsk [Norwegian]	Herved erklærer D-Link Corporation at dette produktet, tilbehøret og programvaren er i samsvar med direktivet 2014/53/EU. Den fullstendige teksten i EU-erklæring om samsvar og produktets fastvare er tilgjengelig for nedlasting fra produktsiden på www.dlink.com .

Warning Statement:

The power outlet should be near the device and easily accessible.

NOTICE OF WIRELESS RADIO LAN USAGE IN THE EUROPEAN COMMUNITY (FOR WIRELESS PRODUCT ONLY):

- This device is restricted to indoor use when operated in the European Community using channels in the 5.15-5.35 GHz band to reduce the potential for interference.
- This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries. This equipment may be operated in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, and CY.

Usage Notes:

- To remain in conformance with European National spectrum usage regulations, frequency and channel limitations will be applied on the products according to the country where the equipment will be deployed.
- This device is restricted from functioning in Ad-hoc mode while operating in 5 GHz. Ad-hoc mode is direct peer-to-peer communication between two client devices without an Access Point.
- Access points will support DFS (Dynamic Frequency Selection) and TPC (Transmit Power Control) functionality as required when operating in 5 GHz band within the EU.
- Please refer to the product manual or datasheet to check whether your product uses 2.4 GHz and/or 5 GHz wireless.

HINWEIS ZUR VERWENDUNG VON DRAHTLOS-NETZWERK (WLAN) IN DER EUROPÄISCHEN GEMEINSCHAFT (NUR FÜR EIN DRAHTLOSES PRODUKT)

- Der Betrieb dieses Geräts in der Europäischen Gemeinschaft bei Nutzung von Kanälen im 5,15-5,35 GHz Frequenzband ist ausschließlich auf Innenräume beschränkt, um das Interferenzpotential zu reduzieren.
- Bei diesem Gerät handelt es sich um einen Einsatz in allen EU-Mitgliedsstaaten und in EFTA-Ländern - ausgenommen Frankreich. Der Betrieb dieses Geräts ist in den folgenden Ländern erlaubt: AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Gebrauchshinweise:

- Um den in Europa geltenden nationalen Vorschriften zum Nutzen des Funkspektrums weiterhin zu entsprechen, werden Frequenz und Kanalbeschränkungen, dem jeweiligen Land, in dem das Gerät zum Einsatz kommt, entsprechend, auf die Produkte angewandt.
- Die Funktionalität im Ad-hoc-Modus bei Betrieb auf 5 GHz ist für dieses Gerät eingeschränkt. Bei dem Ad-hoc-Modus handelt es sich um eine Peer-to-Peer-Kommunikation zwischen zwei Client-Geräten ohne einen Access Point.
- Access Points unterstützen die Funktionen DFS (Dynamic Frequency Selection) und TPC (Transmit Power Control) wie erforderlich bei Betrieb auf 5 GHz innerhalb der EU.
- Bitte schlagen Sie im Handbuch oder Datenblatt nach, ob Ihr Gerät eine 2,4 GHz und / oder 5 GHz Verbindung nutzt.

AVIS CONCERNANT L'UTILISATION DE LA RADIO SANS FIL LAN DANS LA COMMUNAUTÉ EUROPÉENNE (UNIQUEMENT POUR LES PRODUITS SANS FIL)

- Cet appareil est limité à un usage intérieur lorsqu'il est utilisé dans la Communauté européenne sur les canaux de la bande de 5,15 à 5,35 GHz afin de réduire les risques d'interférences.
- Cet appareil est un système de transmission à large bande (émetteur-récepteur) de 2,4 GHz, destiné à être utilisé dans tous les États-membres de l'UE et les pays de l'AELC. Cet équipement peut être utilisé dans les pays suivants : AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Notes d'utilisation:

- Pour rester en conformité avec la réglementation nationale européenne en matière d'utilisation du spectre, des limites de fréquence et de canal seront appliquées aux produits selon le pays où l'équipement sera déployé.
- Cet appareil ne peut pas utiliser le mode Ad-hoc lorsqu'il fonctionne dans la bande de 5 GHz. Le mode Adhoc fournit une communication directe pair à pair entre deux périphériques clients sans point d'accès.
- Les points d'accès prendront en charge les fonctionnalités DFS (Dynamic Frequency Selection) et TPC (Transmit Power Control) au besoin lors du fonctionnement dans la bande de 5 GHz au sein de l'UE.
- Merci de vous référer au guide d'utilisation ou de la fiche technique afin de vérifier si votre produit utilise 2.4 GHz et/ou 5 GHz sans fil.

AVISO DE USO DE LA LAN DE RADIO INALÁMBRICA EN LA COMUNIDAD EUROPEA (SOLO PARA EL PRODUCTO INALÁMBRICO)

- El uso de este dispositivo está restringido a interiores cuando funciona en la Comunidad Europea utilizando canales en la banda de 5,15-5,35 GHz, para reducir la posibilidad de interferencias.
- Este dispositivo es un sistema de transmisión (transceptor) de banda ancha de 2,4 GHz, pensado para su uso en todos los estados miembros de la UE y en los países de la AELC. Este equipo se puede utilizar en AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Notas de uso:

- Para seguir cumpliendo las normas europeas de uso del espectro nacional, se aplicarán limitaciones de frecuencia y canal en los productos en función del país en el que se pondrá en funcionamiento el equipo.
- Este dispositivo tiene restringido el funcionamiento en modo Ad-hoc mientras funcione a 5 GHz. El modo Ad-hoc es la comunicación directa de igual a igual entre dos dispositivos cliente sin un punto de acceso.
- Los puntos de acceso admitirán la funcionalidad DFS (Selección de frecuencia dinámica) y TPC (Control de la potencia de transmisión) si es necesario cuando funcionan a 5 GHz dentro de la UE.
- Por favor compruebe el manual o la ficha de producto para comprobar si el producto utiliza las bandas inalámbricas de 2.4 GHz y/o la de 5 GHz.

AVVISO PER L'USO DI LAN RADIO WIRELESS NELLA COMUNITÀ EUROPEA (SOLO PER PRODOTTI WIRELESS)

- Nella Comunità europea, l'uso di questo dispositivo è limitato esclusivamente agli ambienti interni sui canali compresi nella banda da 5,15 a 5,35 GHz al fine di ridurre potenziali interferenze. Questo dispositivo è un sistema di trasmissione a banda larga a 2,4 GHz (ricetrasmettente), destinato all'uso in tutti gli stati membri dell'Unione europea e nei paesi EFTA.
- Questo dispositivo può essere utilizzato in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Note per l'uso

- Al fine di mantenere la conformità alle normative nazionali europee per l'uso dello spettro di frequenze, saranno applicate limitazioni sulle frequenze e sui canali per il prodotto in conformità alle normative del paese in cui il dispositivo viene utilizzato.
- Questo dispositivo non può essere attivato in modalità Ad-hoc durante il funzionamento a 5 GHz. La modalità Ad-hoc è una comunicazione diretta peer-to-peer fra due dispositivi client senza un punto di accesso.
- I punti di accesso supportano le funzionalità DFS (Dynamic Frequency Selection) e TPC (Transmit Power Control) richieste per operare a 5 GHz nell'Unione europea.
- Ti invitiamo a fare riferimento al manuale del prodotto o alla scheda tecnica per verificare se il tuo prodotto utilizza le frequenze 2,4 GHz e/o 5 GHz.

KENNISGEVING VAN DRAADLOOS RADIO LAN-GEBRUIK IN DE EUROPESE GEMEENSCHAP (ALLEEN VOOR DRAADLOOS PRODUCT)

- Dit toestel is beperkt tot gebruik binnenshuis wanneer het wordt gebruikt in de Europese Gemeenschap gebruik makend van kanalen in de 5.15-5.35 GHz band om de kans op interferentie te beperken.
- Dit toestel is een 2.4 GHz breedband transmissiesysteem (transceiver) dat bedoeld is voor gebruik in alle EU lidstaten en EFTA landen. Deze uitrusting mag gebruikt worden in AL, AD, BE, BG, DK, DE, FI, FR, GR, GW, IS, IT, HR, LI, LU, MT, MK, MD, MC, NL, NO, AT, PL, PT, RO, SM, SE, RS, SK, ES, CI, HU, CY

Gebruiksaanwijzingen:

- Om de gebruiksvoorschriften van het Europese Nationale spectrum na te leven, zullen frequentie- en kanaalbeperkingen worden toegepast op de producten volgens het land waar de uitrusting gebruikt zal worden.
- Dit toestel kan niet functioneren in Ad-hoc mode wanneer het gebruikt wordt in 5 GHz. Ad-hoc mode is directe peer-to-peer communicatie tussen twee klantenapparaten zonder een toegangspunt.
- Toegangspunten ondersteunen DFS (Dynamic Frequency Selection) en TPC (Transmit Power Control) functionaliteit zoals vereist bij gebruik in 5 GHz binnen de EU.
- Raadpleeg de handleiding of de datasheet om te controleren of uw product gebruik maakt van 2.4 GHz en/of 5 GHz.

SAFETY INSTRUCTIONS

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product user instructions for more details.

- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the product.
- Do not attempt to service the product and never disassemble the product. For some products with a user replaceable battery, please read and follow the instructions in the user manual.
- Do not spill food or liquid on your product and never push any objects into the openings of your product.
- Do not use this product near water, areas with high humidity, or condensation unless the product is specifically rated for outdoor application.
- Keep the product away from radiators and other heat sources.
- Always unplug the product from mains power before cleaning and use a dry lint free cloth only.

SICHERHEITSVORSCHRIFTEN

Die folgenden allgemeinen Sicherheitsvorschriften dienen als Hilfe zur Gewährleistung Ihrer eigenen Sicherheit und zum Schutz Ihres Produkts. Weitere Details finden Sie in den Benutzeranleitungen zum Produkt.

- Statische Elektrizität kann elektronischen Komponenten schaden. Um Schäden durch statische Aufladung zu vermeiden, leiten Sie elektrostatische Ladungen von Ihrem Körper ab, (z. B. durch Berühren eines geerdeten blanken Metallteils), bevor Sie das Produkt berühren.
- Unterlassen Sie jeden Versuch, das Produkt zu warten, und versuchen Sie nicht, es in seine Bestandteile zu zerlegen. Für einige Produkte mit austauschbaren Akkus lesen Sie bitte das Benutzerhandbuch und befolgen Sie die dort beschriebenen Anleitungen.
- Vermeiden Sie, dass Speisen oder Flüssigkeiten auf Ihr Produkt gelangen, und stecken Sie keine Gegenstände in die Gehäuseschlitzte oder -öffnungen Ihres Produkts.
- Verwenden Sie dieses Produkt nicht in unmittelbarer Nähe von Wasser und nicht in Bereichen mit hoher Luftfeuchtigkeit oder Kondensation, es sei denn, es ist speziell zur Nutzung in Außenbereichen vorgesehen und eingestuft.
- Halten Sie das Produkt von Heizkörpern und anderen Quellen fern, die Wärme erzeugen.
- Trennen Sie das Produkt immer von der Stromzufuhr, bevor Sie es reinigen und verwenden Sie dazu ausschließlich ein trockenes fusselfreies Tuch.

CONSIGNES DE SÉCURITÉ

Les consignes générales de sécurité ci-après sont fournies afin d'assurer votre sécurité personnelle et de protéger le produit d'éventuels dommages. Veuillez consulter les consignes d'utilisation du produit pour plus de détails.

- L'électricité statique peut endommager les composants électroniques. Déchargez l'électricité statique de votre corps (en touchant un objet en métal relié à la terre par exemple) avant de toucher le produit.
- N'essayez pas d'intervenir sur le produit et ne le démontez jamais. Pour certains produits contenant une batterie remplaçable par l'utilisateur, veuillez lire et suivre les consignes contenues dans le manuel d'utilisation.
- Ne renversez pas d'aliments ou de liquide sur le produit et n'insérez jamais d'objets dans les orifices.
- N'utilisez pas ce produit à proximité d'un point d'eau, de zones très humides ou de condensation sauf si le produit a été spécifiquement conçu pour une application extérieure.
- Eloignez le produit des radiateurs et autres sources de chaleur.
- Débranchez toujours le produit de l'alimentation avant de le nettoyer et utilisez uniquement un chiffon sec non pelucheux.

INSTRUCCIONES DE SEGURIDAD

Las siguientes directrices de seguridad general se facilitan para ayudarle a garantizar su propia seguridad personal y para proteger el producto frente a posibles daños. No olvide consultar las instrucciones del usuario del producto para obtener más información.

- La electricidad estática puede resultar nociva para los componentes electrónicos. Descargue la electricidad estática de su cuerpo (p. ej., tocando algún metal sin revestimiento conectado a tierra) antes de tocar el producto.
- No intente realizar el mantenimiento del producto ni lo desmonte nunca. Para algunos productos con batería reemplazable por el usuario, lea y siga las instrucciones del manual de usuario.
- No derrame comida o líquidos sobre el producto y nunca deje que caigan objetos en las aberturas del mismo.
- No utilice este producto cerca del agua, en zonas con humedad o condensación elevadas a menos que el producto esté clasificado específicamente para aplicación en exteriores.
- Mantenga el producto alejado de los radiadores y de otras fuentes de calor.
- Desenchufe siempre el producto de la alimentación de red antes de limpiarlo y utilice solo un paño seco sin pelusa"

ISTRUZIONI PER LA SICUREZZA

Le seguenti linee guida sulla sicurezza sono fornite per contribuire a garantire la sicurezza personale degli utenti e a proteggere il prodotto da potenziali danni. Per maggiori dettagli, consultare le istruzioni per l'utente del prodotto.

- L'elettricità statica può essere pericolosa per i componenti elettronici. Scaricare l'elettricità statica dal corpo (ad esempio toccando una parte metallica collegata a terra) prima di toccare il prodotto.
- Non cercare di riparare il prodotto e non smontarlo mai. Per alcuni prodotti dotati di batteria sostituibile dall'utente, leggere e seguire le istruzioni riportate nel manuale dell'utente.
- Non versare cibi o liquidi sul prodotto e non spingere mai alcun oggetto nelle aperture del prodotto.
- Non usare questo prodotto vicino all'acqua, in aree con elevato grado di umidità o soggette a condensa a meno che il prodotto non sia specificatamente approvato per uso in ambienti esterni.
- Tenere il prodotto lontano da caloriferi e altre fonti di calore.
- Scollegare sempre il prodotto dalla presa elettrica prima di pulirlo e usare solo un panno asciutto che non lasci filacce.

VEILIGHEIDSINFORMATIE

De volgende algemene veiligheidsinformatie werd verstrekt om uw eigen persoonlijke veiligheid te waarborgen en uw product te beschermen tegen mogelijke schade. Denk eraan om de gebruikersinstructies van het product te raadplegen voor meer informatie.

- Statische elektriciteit kan schadelijk zijn voor elektronische componenten. Ontlaad de statische elektriciteit van uw lichaam (d.w.z. het aanraken van geaard bloot metaal) voordat u het product aanraakt.
- U mag nooit proberen het product te onderhouden en u mag het product nooit demonteren. Voor sommige producten moet door de gebruiker te vervangen batterij, dient u de instructies in de gebruikershandleiding te lezen en te volgen.
- Mors geen voedsel of vloeistof op uw product en u mag nooit voorwerpen in de openingen van uw product duwen.
- Gebruik dit product niet in de buurt van water, gebieden met hoge vochtigheid of condensatie, tenzij het product specifiek geklassificeerd is voor gebruik buitenhuis.
- Houd het product uit de buurt van radiatoren en andere warmtebronnen.
- U dient het product steeds los te koppelen van de stroom voordat u het reinigt en gebruik uitsluitend een droge pluisvrije doek"

Disposing and Recycling Your Product

ENGLISH



This symbol on the product or packaging means that according to local laws and regulations this product should not be disposed of in household waste but sent for recycling. Please take it to a collection point designated by your local authorities once it has reached the end of its life, some will accept products for free. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health.

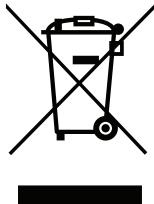
D-Link and the Environment

At D-Link, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimise this impact D-Link designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

D-Link recommends that you always switch off or unplug your D-Link products when they are not in use. By doing so you will help to save energy and reduce CO₂ emissions.

To learn more about our environmentally responsible products and packaging please visit www.dlinkgreen.com.

DEUTSCH



Dieses Symbol auf dem Produkt oder der Verpackung weist darauf hin, dass dieses Produkt gemäß bestehender örtlicher Gesetze und Vorschriften nicht über den normalen Hausmüll entsorgt werden sollte, sondern einer Wiederverwertung zuzuführen ist. Bringen Sie es bitte zu einer von Ihrer Kommunalbehörde entsprechend amtlich ausgewiesenen Sammelstelle, sobald das Produkt das Ende seiner Nutzungsdauer erreicht hat. Für die Annahme solcher Produkte erheben einige dieser Stellen keine Gebühren. Durch ein auf diese Weise durchgeführtes Recycling des Produkts und seiner Verpackung helfen Sie, die Umwelt zu schonen und die menschliche Gesundheit zu schützen.

D-Link und die Umwelt

D-Link ist sich den möglichen Auswirkungen seiner Geschäftstätigkeiten und seiner Produkte auf die Umwelt bewusst und fühlt sich verpflichtet, diese entsprechend zu mindern. Zu diesem Zweck entwickelt und stellt D-Link seine Produkte mit dem Ziel größtmöglicher Umweltfreundlichkeit her und verwendet wiederverwertbare, schadstoffarme Materialien bei Produktherstellung und Verpackung.

D-Link empfiehlt, Ihre Produkte von D-Link, wenn nicht in Gebrauch, immer auszuschalten oder vom Netz zu nehmen. Auf diese Weise helfen Sie, Energie zu sparen und CO₂-Emissionen zu reduzieren.

Wenn Sie mehr über unsere umweltgerechten Produkte und Verpackungen wissen möchten, finden Sie entsprechende Informationen im Internet unter www.dlinkgreen.com.

EN

FRANÇAIS

Ce symbole apposé sur le produit ou son emballage signifie que, conformément aux lois et réglementations locales, ce produit ne doit pas être éliminé avec les déchets domestiques mais recyclé. Veuillez le rapporter à un point de collecte prévu à cet effet par les autorités locales; certains accepteront vos produits gratuitement. En recyclant le produit et son emballage de cette manière, vous aidez à préserver l'environnement et à protéger la santé de l'homme.

D-Link et l'environnement

Chez D-Link, nous sommes conscients de l'impact de nos opérations et produits sur l'environnement et nous engageons à le réduire. Pour limiter cet impact, D-Link conçoit et fabrique ses produits de manière aussi écologique que possible, en utilisant des matériaux recyclables et faiblement toxiques, tant dans ses produits que ses emballages.

D-Link recommande de toujours éteindre ou débrancher vos produits D-Link lorsque vous ne les utilisez pas. Vous réaliserez ainsi des économies d'énergie et réduirez vos émissions de CO₂.

Pour en savoir plus sur les produits et emballages respectueux de l'environnement, veuillez consulter le www.dlinkgreen.com.

ESPAÑOL

Este símbolo en el producto o el embalaje significa que, de acuerdo con la legislación y la normativa local, este producto no se debe desechar en la basura doméstica sino que se debe reciclar. Llévelo a un punto de recogida designado por las autoridades locales una vez que ha llegado al fin de su vida útil; algunos de ellos aceptan recogerlos de forma gratuita. Al reciclar el producto y su embalaje de esta forma, contribuye a preservar el medio ambiente y a proteger la salud de los seres humanos.

D-Link y el medio ambiente

En D-Link, comprendemos y estamos comprometidos con la reducción del impacto que puedan tener nuestras actividades y nuestros productos en el medio ambiente. Para reducir este impacto, D-Link diseña y fabrica sus productos para que sean lo más ecológicos posible, utilizando materiales reciclables y de baja toxicidad tanto en los productos como en el embalaje.

D-Link recomienda apagar o desenchufar los productos D-Link cuando no se estén utilizando. Al hacerlo, contribuirá a ahorrar energía y a reducir las emisiones de CO₂.

Para obtener más información acerca de nuestros productos y embalajes ecológicos, visite el sitio www.dlinkgreen.com.

FR**ES**

ITALIANO

La presenza di questo simbolo sul prodotto o sulla confezione del prodotto indica che, in conformità alle leggi e alle normative locali, questo prodotto non deve essere smaltito nei rifiuti domestici, ma avviato al riciclo. Una volta terminato il ciclo di vita utile, portare il prodotto presso un punto di raccolta indicato dalle autorità locali. Alcuni questi punti di raccolta accettano gratuitamente i prodotti da riciclare. Scegliendo di riciclare il prodotto e il relativo imballaggio, si contribuirà a preservare l'ambiente e a salvaguardare la salute umana.

D-Link e l'ambiente

D-Link cerca da sempre di ridurre l'impatto ambientale dei propri stabilimenti e dei propri prodotti. Allo scopo di ridurre al minimo tale impatto, D-Link progetta e realizza i propri prodotti in modo che rispettino il più possibile l'ambiente, utilizzando materiali riciclabili a basso tasso di tossicità sia per i prodotti che per gli imballaggi.

D-Link raccomanda di spegnere sempre i prodotti D-Link o di scollarne la spina quando non vengono utilizzati. In questo modo si contribuirà a risparmiare energia e a ridurre le emissioni di anidride carbonica.

Per ulteriori informazioni sui prodotti e sugli imballaggi D-Link a ridotto impatto ambientale, visitate il sito all'indirizzo www.dlinkgreen.com.

NEDERLANDS

Dit symbool op het product of de verpakking betekent dat dit product volgens de plaatselijke wetgeving niet mag worden weggegooid met het huishoudelijk afval, maar voor recyclage moeten worden ingeleverd. Zodra het product het einde van de levensduur heeft bereikt, dient u het naar een inzamelpunt te brengen dat hiertoe werd aangeduid door uw plaatselijke autoriteiten, sommige autoriteiten accepteren producten zonder dat u hiervoor dient te betalen. Door het product en de verpakking op deze manier te recycelen helpt u het milieu en de gezondheid van de mens te beschermen.

D-Link en het milieu

Bij D-Link spannen we ons in om de impact van onze handelingen en producten op het milieu te beperken. Om deze impact te beperken, ontwerpt en bouwt D-Link zijn producten zo milieuvriendelijk mogelijk, door het gebruik van recycleerbare producten met lage toxiciteit in product en verpakking.

D-Link raadt aan om steeds uw D-Link producten uit te schakelen of uit de stekker te halen wanneer u ze niet gebruikt. Door dit te doen bespaart u energie en beperkt u de CO₂-emissies.

Breng een bezoek aan www.dlinkgreen.com voor meer informatie over onze milieuvantwoorde producten en verpakkingen.

IT**NL**

POLSKI

Ten symbol umieszczony na produkcie lub opakowaniu oznacza, że zgodnie z miejscowym prawem i lokalnymi przepisami niniejszego produktu nie wolno wyrzucać jak odpady czy śmieci z gospodarstwa domowego, lecz należy go poddać procesowi recyklingu. Po zakończeniu użytkowania produktu, niektóre odpowiednie do tego celu podmioty przyjmą takie produkty nieodpłatnie, dlatego prosimy dostarczyć go do punktu zbiórki wskazanego przez lokalne władze. Poprzez proces recyklingu i dzięki takiemu postępowaniu z produktem oraz jego opakowaniem, pomogą Państwo chronić środowisko naturalne i dbać o ludzkie zdrowie.

D-Link i środowisko

D-Link podchodzimy w sposób świadomy do ochrony otoczenia oraz jesteśmy zaangażowani w zmniejszanie wpływu naszych działań i produktów na środowisko naturalne. W celu zminimalizowania takiego wpływu firma D-Link konstruuje i wytwarza swoje produkty w taki sposób, aby były one jak najbardziej przyjazne środowisku, stosując do tych celów materiały nadające się do powtórnego wykorzystania, charakteryzujące się małą toksycznością zarówno w przypadku samych produktów jak i opakowań.

Firma D-Link zaleca, aby Państwo zawsze prawidłowo wyłączali z użytku swoje produkty D-Link, gdy nie są one wykorzystywane. Postępując w ten sposób pozwalają Państwo oszczędzać energię i zmniejszać emisje CO₂.

Aby dowiedzieć się więcej na temat produktów i opakowań mających wpływ na środowisko prosimy zapoznać się ze stroną Internetową www.dlinkgreen.com.

PL**CZ**

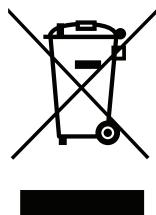
Tento symbol na výrobku nebo jeho obalu znamená, že podle místně platných předpisů se výrobek nesmí vyhazovat do komunálního odpadu, ale odeslat k recyklaci. Až výrobek doslouží, odneste jej prosím na sběrné místo určené místními úřady k tomuto účelu. Některá sběrná místa přijímají výrobky zdarma. Recyklací výrobku i obalu pomáháte chránit životní prostředí i lidské zdraví.

D-Link a životní prostředí

Ve společnosti D-Link jsme si vědomi vlivu našich provozů a výrobků na životní prostředí a snažíme se o minimalizaci těchto vlivů. Proto své výrobky navrhujeme a vyrábíme tak, aby byly co nejekologičtější, a ve výrobcích i obalech používáme recyklovatelné a nízkotoxické materiály.

Společnost D-Link doporučuje, abyste své výrobky značky D-Link vypnuli nebo vytáhli ze zásuvky vždy, když je nepoužíváte. Pomůžete tak šetřit energii a snížit emise CO₂.

Více informací o našich ekologických výrobcích a obalech najdete na adrese www.dlinkgreen.com.

MAGYAR

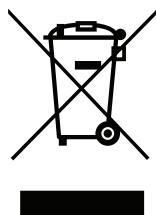
Ez a szimbólum a terméken vagy a csomagoláson azt jelenti, hogy a helyi törvényeknek és szabályoknak megfelelően ez a termék nem semmisíthető meg a háztartási hulladékkal együtt, hanem újrahasznosításra kell küldeni. Kérjük, hogy a termék élettartamának elteltét követően vigye azt a helyi hatóság által kijelölt gyűjtőhelyre. A termékek egyes helyeken ingyen elhelyezhetők. A termék és a csomagolás újrahasznosításával segíti védeni a környezetet és az emberek egészségét.

A D-Link és a környezet

A D-Linknél megértjük és elkötelezettek vagyunk a műveleteink és termékeink környezetre gyakorolt hatásainak csökkentésére. Az ezen hatás csökkentése érdekében a D-Link a lehető leginkább környezetbarát termékeket tervez és gyárt azáltal, hogy újrahasznosítható, alacsony károsanyagtartalmú termékeket gyárt és csomagolásokat alkalmaz.

A D-Link azt javasolja, hogy minden kapcsolja ki vagy húzza ki a D-Link termékeket a tápforrásból, ha nem használja azokat. Ezzel segít az energia megtakarításában és a széndioxid kibocsátásának csökkentésében.

Környezetbarát termékeinkről és csomagolásainkról további információkat a www.dlinkgreen.com weboldalon tudhat meg.

NORSK

Dette symbolet på produktet eller forpakningen betyr at dette produktet ifølge lokale lover og forskrifter ikke skal kastes sammen med husholdningsavfall, men leveres inn til gjenvinning. Vennligst ta det til et innsamlingssted anvist av lokale myndigheter når det er kommet til slutten av levetiden. Noen steder aksepteres produkter uten avgift. Ved på denne måten å gjenvinne produktet og forpakningen hjelper du å verne miljøet og beskytte folks helse.

D-Link og miljøet

Hos D-Link forstår vi oss på og er forpliktet til å minske innvirkningen som vår drift og våre produkter kan ha på miljøet. For å minimalisere denne innvirkningen designet og lager D-Link produkter som er så miljøvennlig som mulig, ved å bruke resirkulerbare, lav-toksiske materialer både i produktene og forpakningen.

D-Link anbefaler at du alltid slår av eller frakobler D-Link-produkter når de ikke er i bruk. Ved å gjøre dette hjelper du å spare energi og å redusere CO₂-utslipp.

For mer informasjon angående våre miljøansvarlige produkter og forpakninger kan du gå til www.dlinkgreen.com.

HU**NO**

DANSK

Dette symbol på produktet eller emballagen betyder, at dette produkt i henhold til lokale love og regler ikke må bortslettes som husholdningsaffald, mens skal sendes til genbrug. Indlever produktet til et indsamlingssted som angivet af de lokale myndigheder, når det er nået til slutningen af dets levetid. I nogle tilfælde vil produktet blive modtaget gratis. Ved at indlevere produktet og dets emballage til genbrug på denne måde bidrager du til at beskytte miljøet og den menneskelige sundhed.

D-Link og miljøet

Hos D-Link forstår vi og bestræber os på at reducere enhver indvirkning, som vores aktiviteter og produkter kan have på miljøet. For at minimere denne indvirkning designet og producerer D-Link sine produkter, så de er så miljøvenlige som muligt, ved at bruge genanvendelige materialer med lavt giftighedsniveau i både produkter og emballage.

D-Link anbefaler, at du altid slukker eller frakobler dine D-Link-produkter, når de ikke er i brug. Ved at gøre det bidrager du til at spare energi og reducere CO₂-udledningerne.

Du kan finde flere oplysninger om vores miljømæssigt ansvarlige produkter og emballage på www.dlinkgreen.com.

SUOMI

Tämä symboli tuotteen pakkauksessa tarkoittaa, että paikallisten lakiens ja säädösten mukaisesti tästä tuotetta ei pidä hävittää yleisen kotitalousjätteen seassa vaan se tulee toimittaa kierrätettäväksi. Kun tuote on elinkaarensa päässä, toimita se lähipäänn viranomaisten hyväksymään kierrätyspisteesseen. Kierrättämällä käytetyn tuotteen ja sen pakkausen autat tukemaan sekä ympäristön että ihmisten terveyttä ja hyvinvointia.

D-Link ja ympäristö

D-Link ymmärtää ympäristönsuojelun tärkeyden ja on sitoutunut vähentämään tuotteistaan ja niiden valmistuksesta ympäristölle mahdollisesti aiheutuvia haittavaikutuksia. Nämä negatiiviset vaikutukset minimoidakseen D-Link suunnittelee ja valmistaa tuotteensa mahdollisimman ympäristöystävällisiksi käyttämällä kierrätettäviä, alhaisia pitoisuuksia haitallisia aineita sisältäviä materiaaleja sekä tuotteissaan että niiden pakauksissa.

Suosittemme, että irrotat D-Link-tuotteesi virtalähteestä tai sammuat ne aina, kun ne eivät ole käytössä. Toimimalla näin autat vähentämään energiata ja vähentämään hiilidioksidipäästöjä.

Lue lisää ympäristöystävällisistä D-Link-tuotteista ja pakauksistamme osoitteesta www.dlinkgreen.com.

DK**FI**

SVENSKA

Den här symbolen på produkten eller förpackningen betyder att produkten enligt lokala lagar och föreskrifter inte skall kastas i hushållssoporna utan i stället återvinnas. Ta den vid slutet av dess livslängd till en av din lokala myndighet utsedd uppsamlingsplats, vissa accepterar produkter utan kostnad. Genom att på detta sätt återvinna produkten och förpackningen hjälper du till att bevara miljön och skydda mänskors hälsa.

D-Link och miljön

På D-Link förstår vi och är fast beslutna att minska den påverkan våra verksamheter och produkter kan ha på miljön. För att minska denna påverkan utformar och bygger D-Link sina produkter för att de ska vara så miljövänliga som möjligt, genom att använda återvinningsbara material med låg gifthalt i både produkter och förpackningar.

D-Link rekommenderar att du alltid stänger av eller kopplar ur dina D-Link produkter när du inte använder dem. Genom att göra detta hjälper du till att spara energi och minska utsläpp av koldioxid.

För mer information om våra miljöansvariga produkter och förpackningar www.dlinkgreen.com.

SE**PORTUGUÊS****PT**

Este símbolo no produto ou embalagem significa que, de acordo com as leis e regulamentações locais, este produto não deverá ser eliminado juntamente com o lixo doméstico mas enviado para a reciclagem. Transporte-o para um ponto de recolha designado pelas suas autoridades locais quando este tiver atingido o fim da sua vida útil, alguns destes pontos aceitam produtos gratuitamente. Ao reciclar o produto e respectiva embalagem desta forma, ajuda a preservar o ambiente e protege a saúde humana.

A D-Link e o ambiente

Na D-Link compreendemos e comprometemo-nos com a redução do impacto que as nossas operações e produtos possam ter no ambiente. Para minimizar este impacto a D-Link concebe e constrói os seus produtos para que estes sejam o mais inofensivos para o ambiente possível, utilizando materiais recicláveis e não tóxicos tanto nos produtos como nas embalagens.

A D-Link recomenda que desligue os seus produtos D-Link quando estes não se encontrarem em utilização. Com esta acção ajudará a poupar energia e reduzir as emissões de CO₂.

Para saber mais sobre os nossos produtos e embalagens responsáveis a nível ambiental visite www.dlinkgreen.com.