



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 05, 2014	• Initial release

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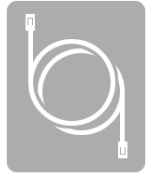
Package Contents



DIR-880L Wireless AC1900 Dual Band Gigabit Cloud Router



Three External Antennas



Ethernet Cable



Power Adapter



Wi-Fi Configuration Note

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

<p>Network Requirements</p>	<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
<p>Web-based Configuration Utility Requirements</p>	<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>
<p>mydlink Requirements</p>	<ul style="list-style-type: none"> • iPhone/iPad/iPod Touch (iOS 3.0 or higher) • Android device (1.6 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 <p><small>iPhone, iPad, and iPod touch are registered trademarks of Apple Inc. Android is a trademark of Google, Inc.</small></p>

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

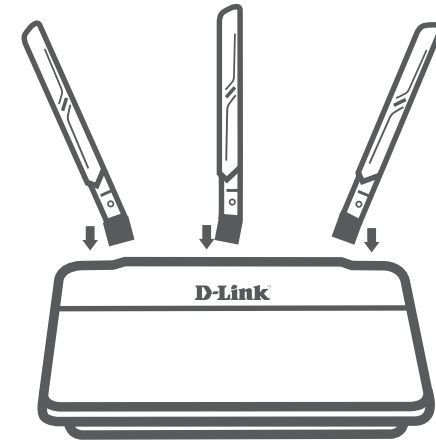
- **Faster Wireless Networking** - The DIR-880L uses advanced AC beamforming to provide up to a full 1900 Mbps* wireless connection with concurrent 801.11ac and 802.11n wireless clients . It also operates on both the 2.4 GHz and 5 GHz bands to allow separation of traffic so users can participate in high-bandwidth 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 manage 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.

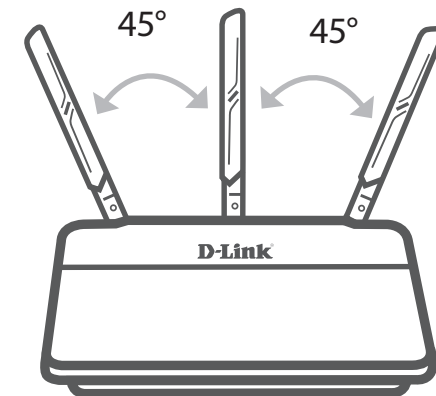
Antenna Setup

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.

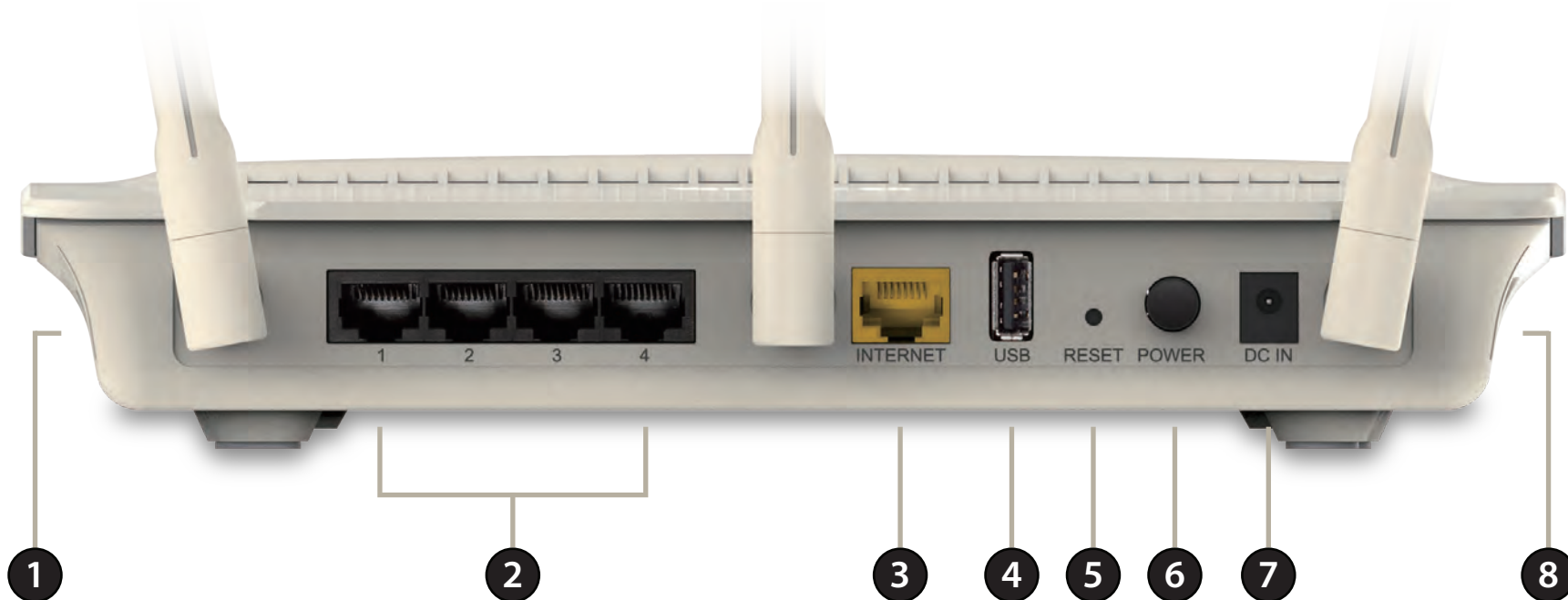


For best performance, position the router's antennas with their flat side facing towards the front, and tilt the left and right antennas sideways from the center at a 45 degree angle.



Hardware Overview

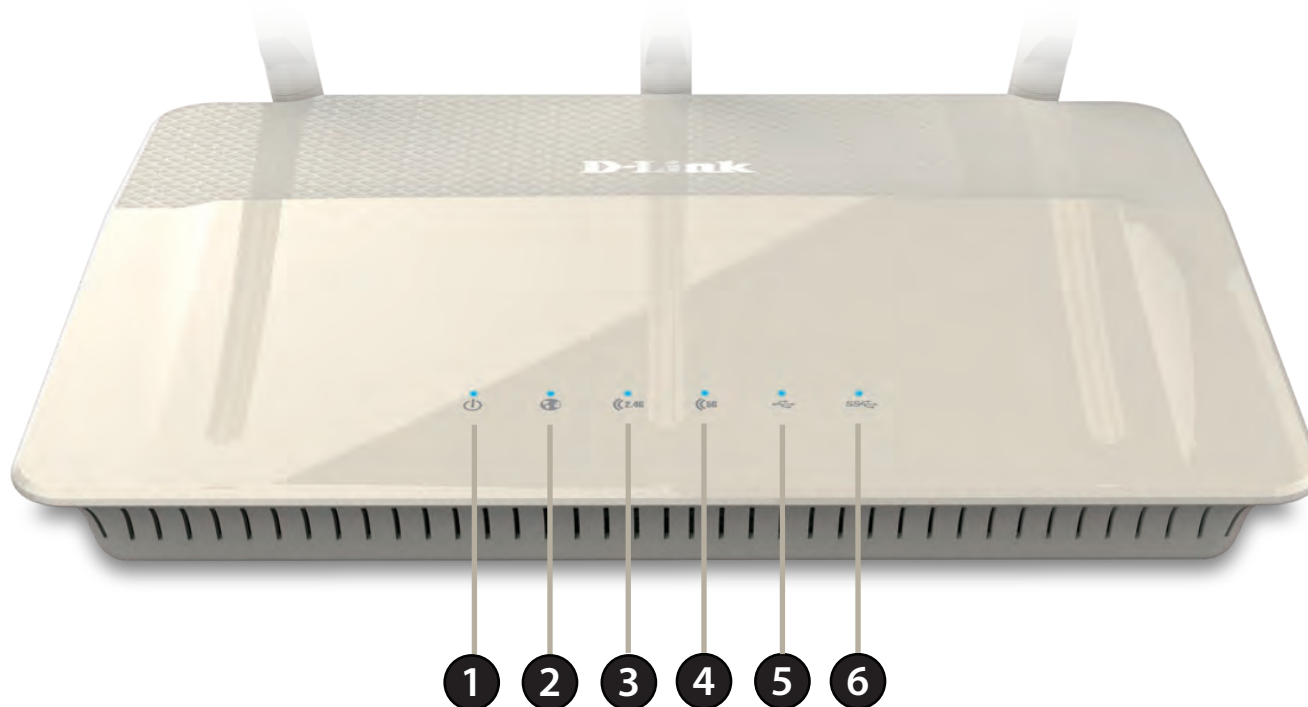
Connections



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

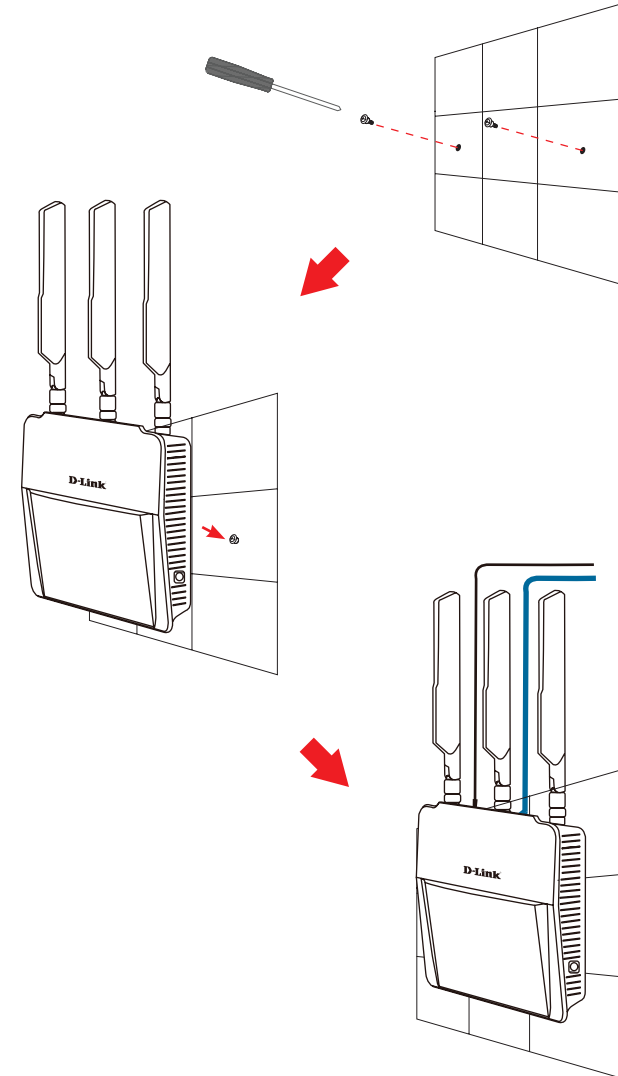
Screw the provided screws to the wall to which the router will be mounted.

Step 2

Place the mounting holes on the bottom of the device over the screws, and slide the device into place.

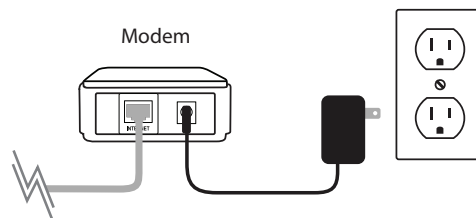
Step 3

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

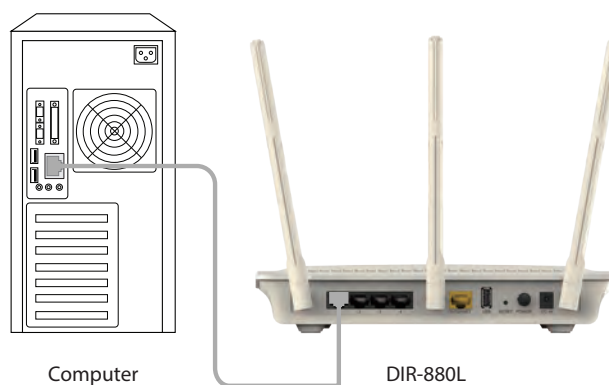


Manual Setup

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.

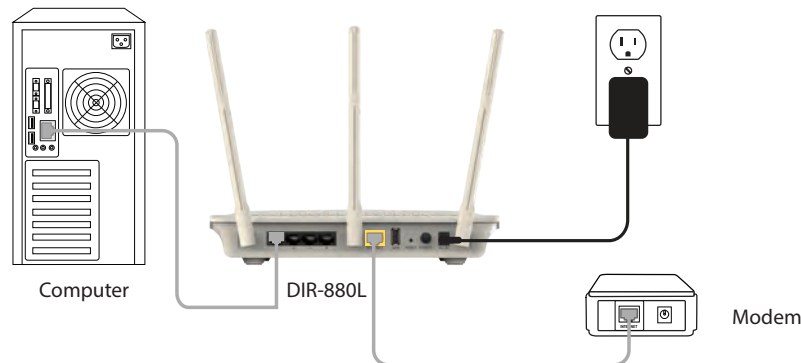


4. Plug one end of the included Ethernet cable that came with your router into the yellow port labeled INTERNET on the back of the router. Plug the other end of this cable into the Ethernet port on your modem.



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 61

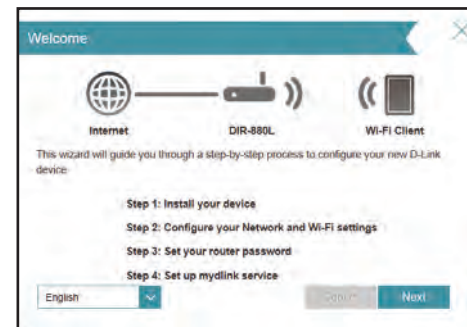
Setup Wizard

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 61.

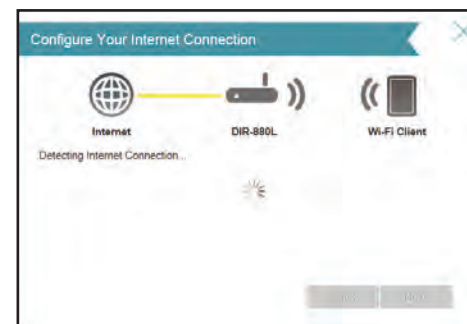


The wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet.

Click **Next** to continue.

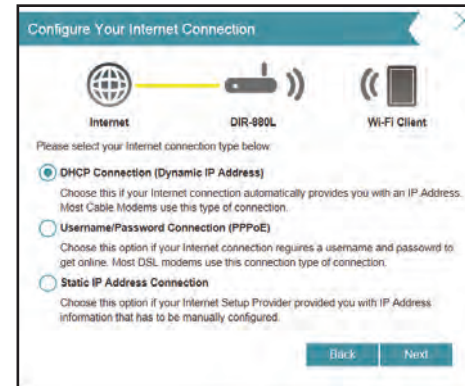


Please wait while your router detects your Internet connection type. If the router detects your Internet connection, you may need to enter your ISP information such as username and password.



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.

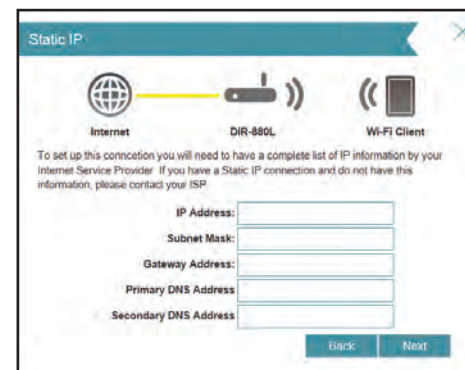


If the router detected or you selected **PPPoE**, enter your PPPoE username and password and click **Next** to continue.

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



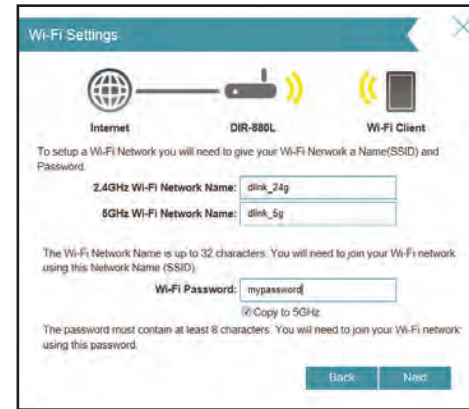
If the router detected or you selected **Static**, enter the IP and DNS settings supplied by your ISP. Click **Next** to continue.



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.

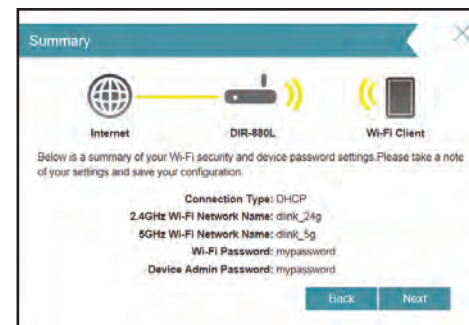
Click **Next** to continue.



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.



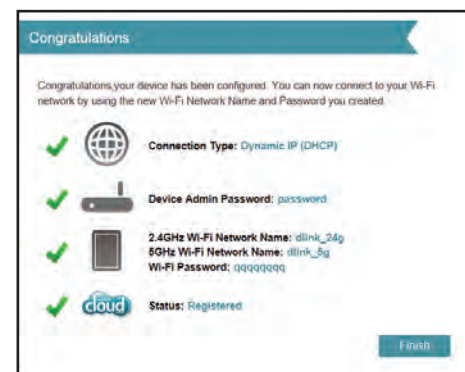
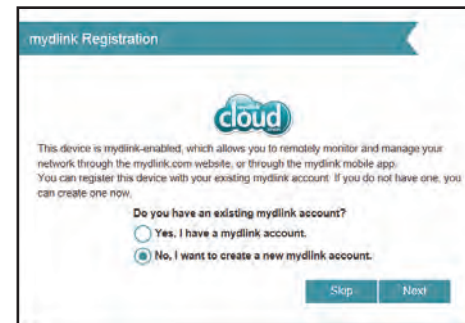
To use the mydlink service (mydlink.com or the mydlink Lite app), you must have an account. Select **Yes** if you have a mydlink account already, or **No** if you want to create one. Click **Next** to continue.

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>.



QRS Mobile App

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

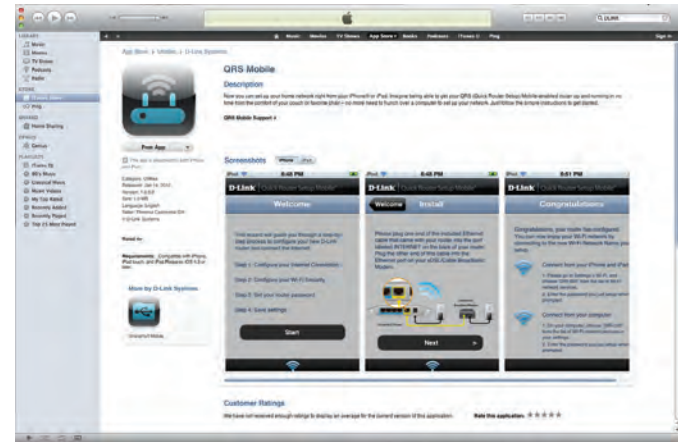
Step 1

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.



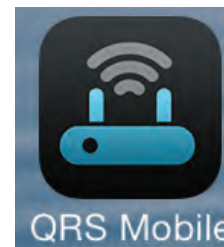
Step 2

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.



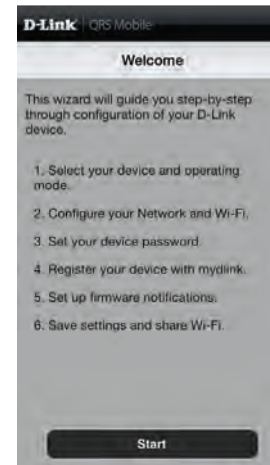
Step 3

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.



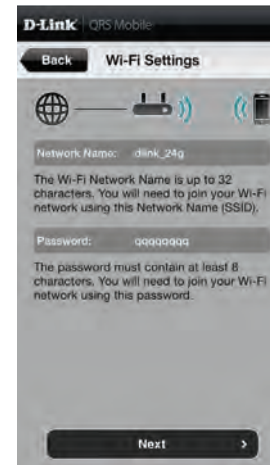
Step 6

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.

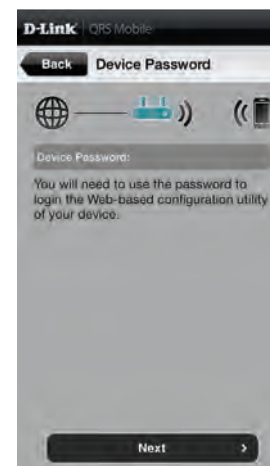
Secondly, choose a Wi-Fi password of at least 8 characters. Any device trying to connect to the router wirelessly will need to enter this password the first time it connects.

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 61 for details of when this password is used. Tap **Next** to proceed.

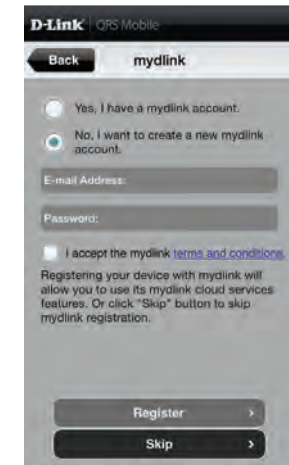
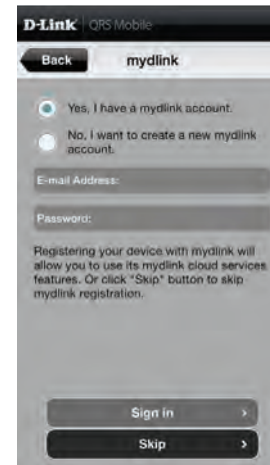


Step 8

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.

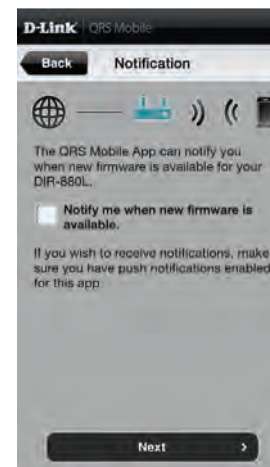
If you do not want to configure your router with mydlink at this stage, tap **Skip** to proceed.



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.

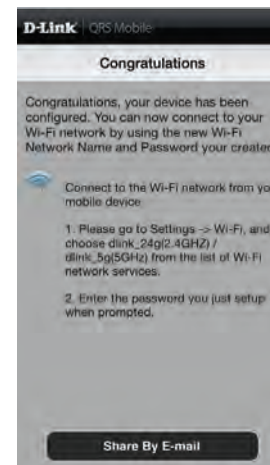
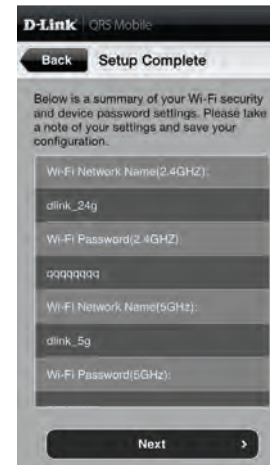


Step 10

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®

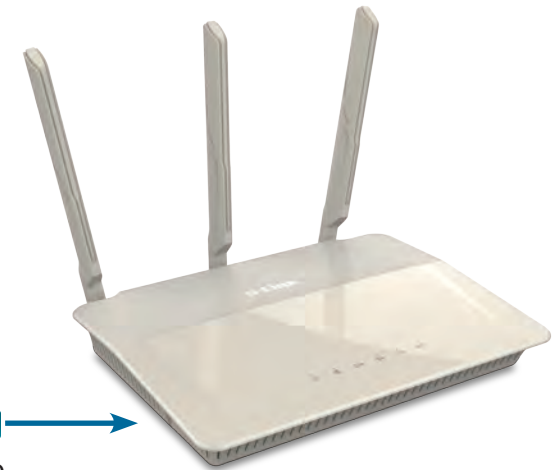
The mydlink SharePort™ app is a streamlined mobile application that allows you to conveniently stream media and share files stored on a removable storage connected to your router. Once the router is set up, you can start the app and easily connect from a local network or through the Internet to access 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 96 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. 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.



5. Once connected, tap the **mydlink SharePort™** icon, and the app will load.
6. At the login page, you can tap **Help?** to see diagrams with descriptions of the two types of connections available.

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:

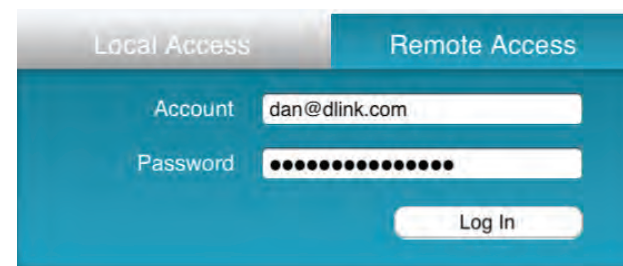
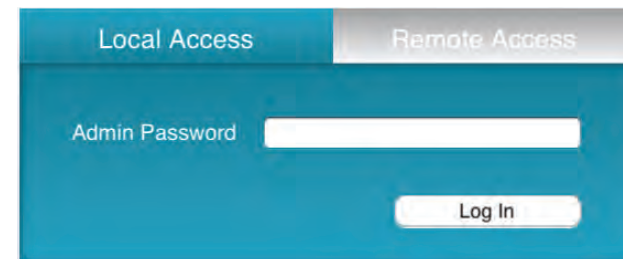
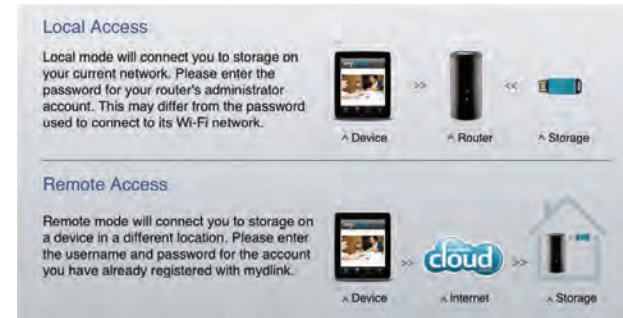
Remote mode will connect you to storage on your router in a different location. For example, from your office connecting to your router at home.

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.

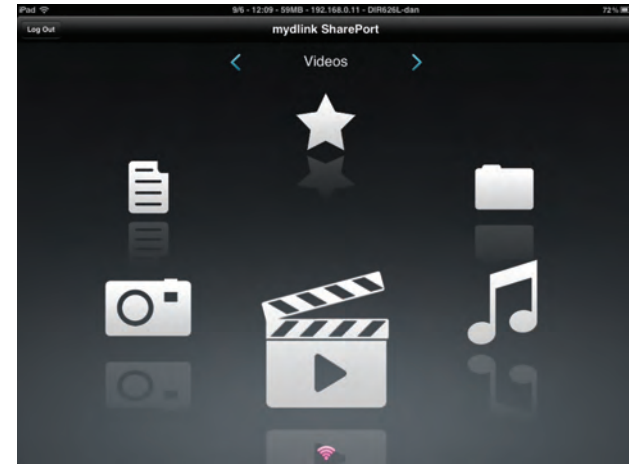
If you are unsure about which connection method to choose, you can just click **Remote Access**.

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



7. 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 of your screen 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.



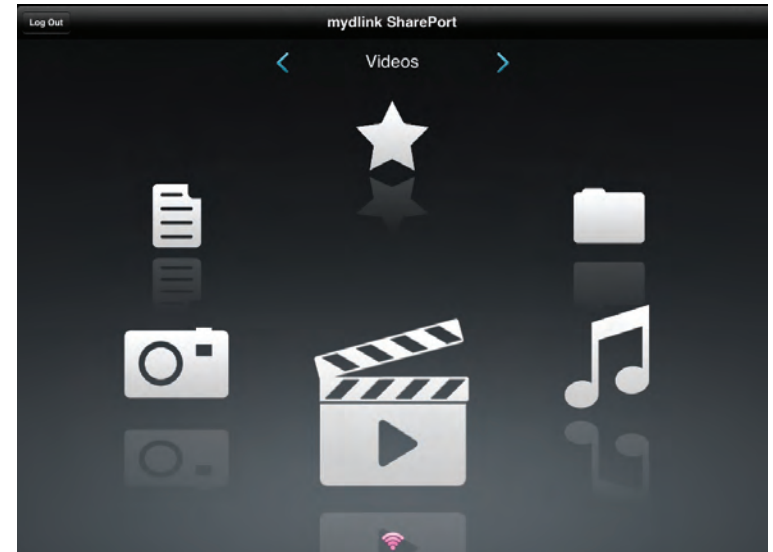
Tap on the music icon to play audio files.



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



Tap on the star icon to access your favorite files.






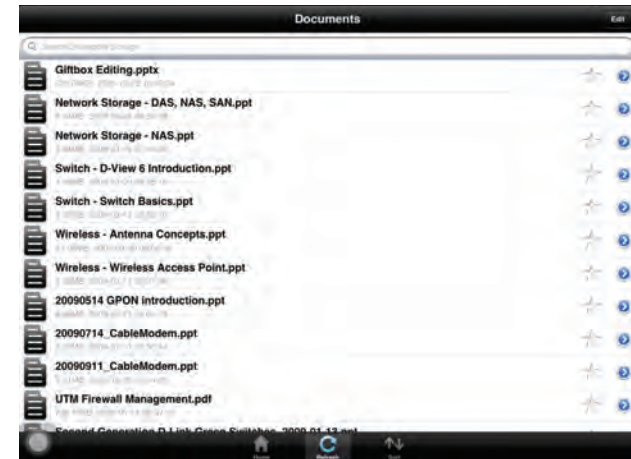
Documents

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.




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.






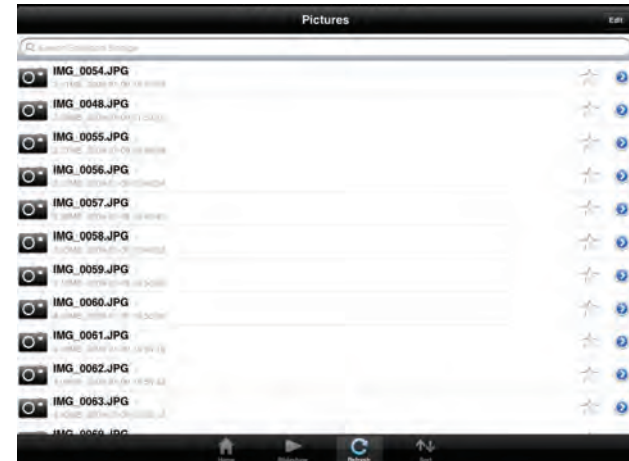
Pictures

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.

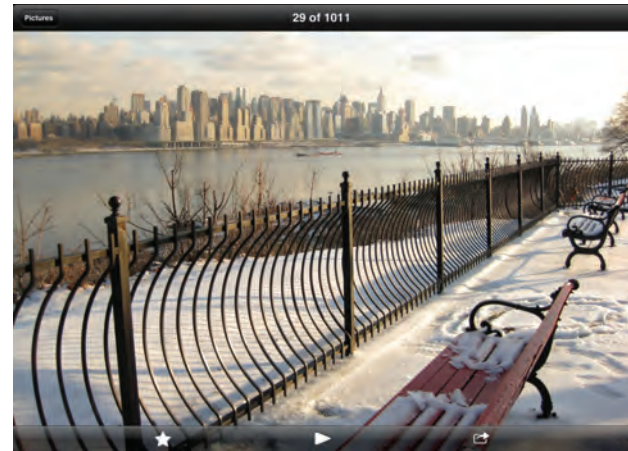


The bottom menu bar includes these options:

-  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.



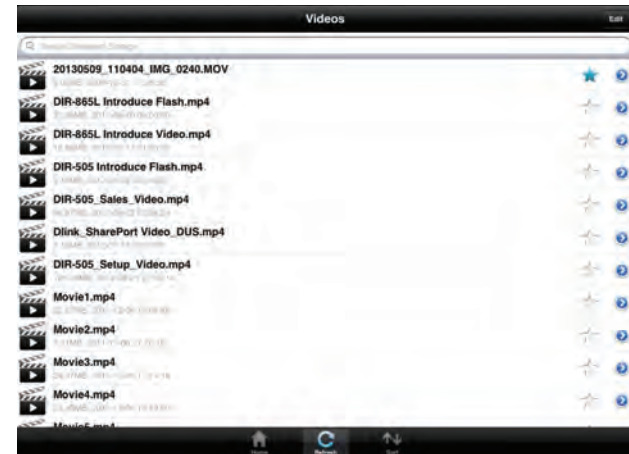
Search Bar: Enter a filename here to search for a specific file.

 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.




The bottom menu bar includes these options:

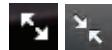
 Tap to go back to the main menu.


 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.

Edit

Tap to create a playlist and mark files for deletion.

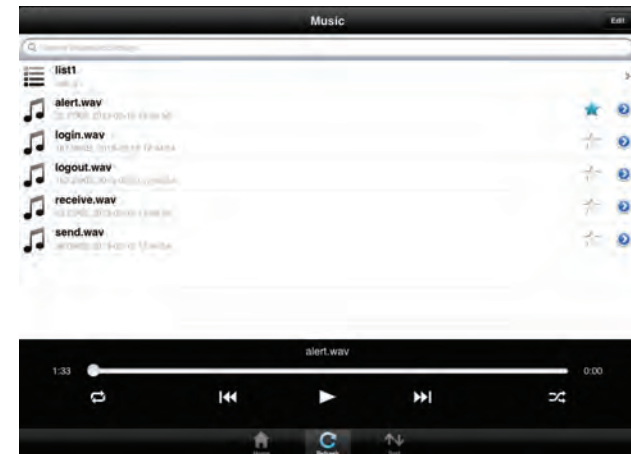


Tap the star icon next to each file to download it to your device and add it into your Favorites section.



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.



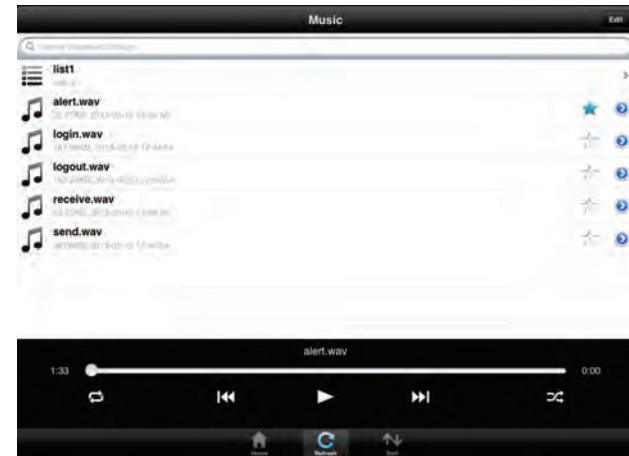
Tap to reorder the files alphabetically.

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

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

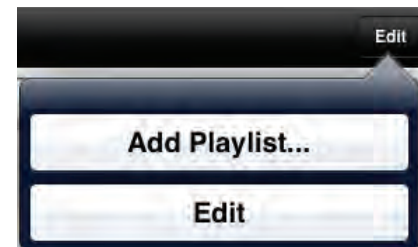
  Tap to skip to the previous/next song.

 Tap to enable/disable shuffle mode.

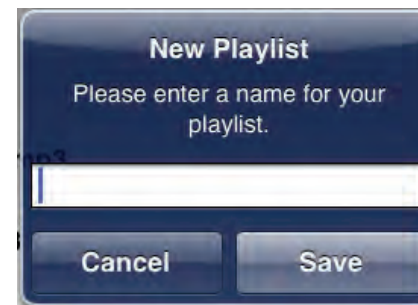


To create a playlist:

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.

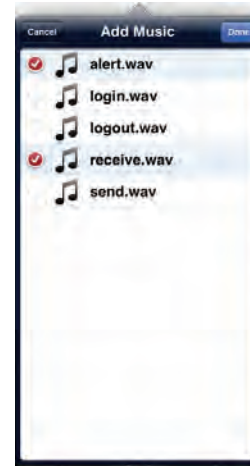
Tap **Add Music...** to add songs to the current playlist.

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**.






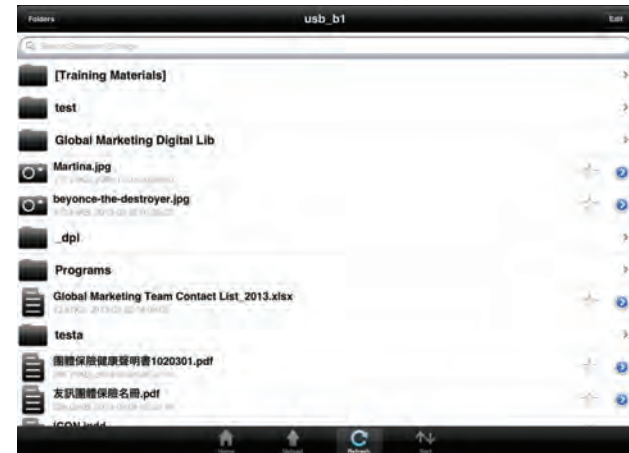
Folders

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.

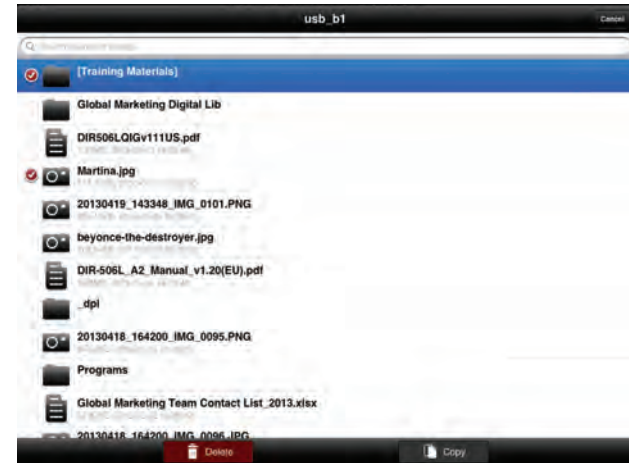


The bottom menu bar includes these options:

-  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.

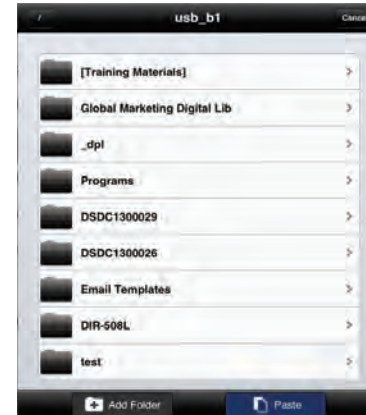
To delete files:

- 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.

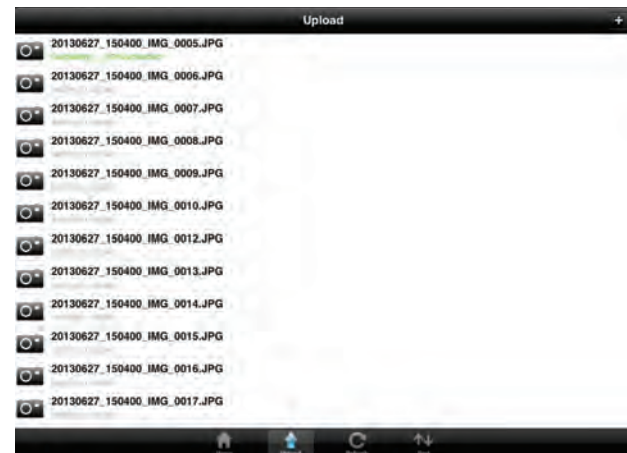
Select the photos/videos you wish to upload.

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.

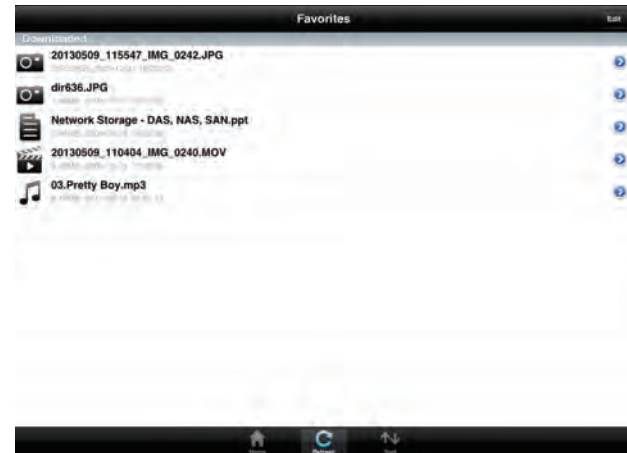
 Tap to update the list of files.

 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.



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

Using the mydlink SharePort™ app for Android™

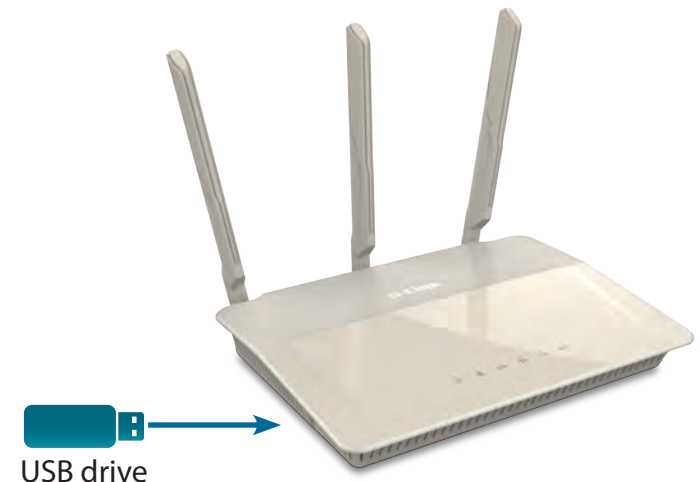
The mydlink SharePort™ app is a streamlined mobile application that allows you to conveniently stream media and share files stored on a removable storage connected to your router. Once the router is set up, you can start the app and easily connect from a local network or through the Internet to access 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.

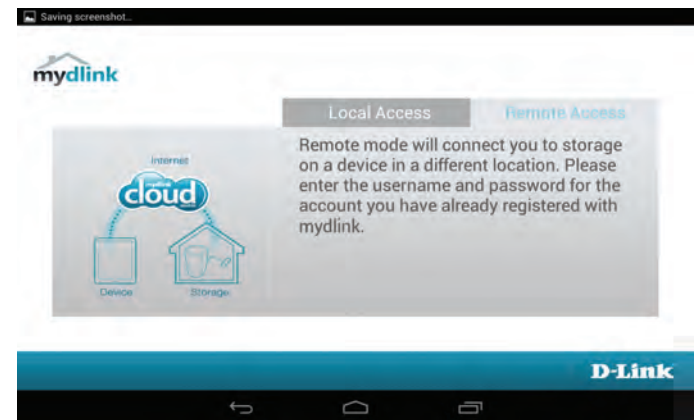
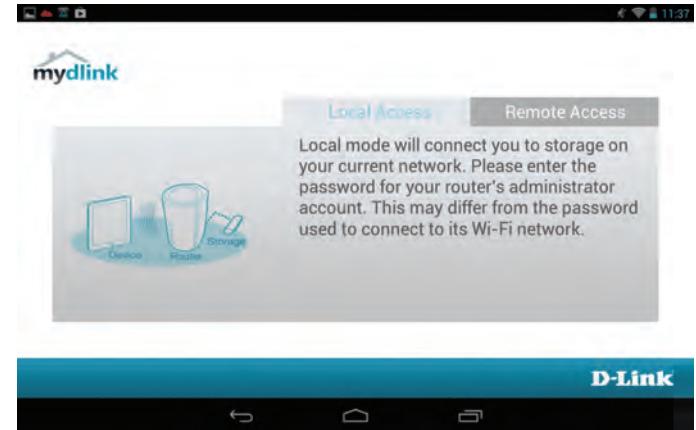
If you are unsure about which connection method to choose, you can click **Remote Access**.

Local Access:

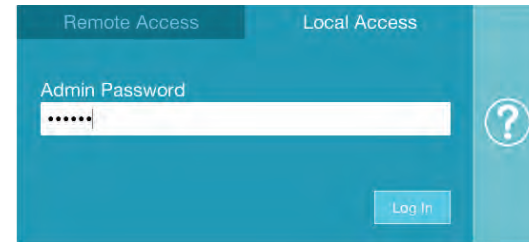
Local mode will connect you to storage on your current network. For example, if you are at home connecting to your router, choose this mode.

Remote Access:

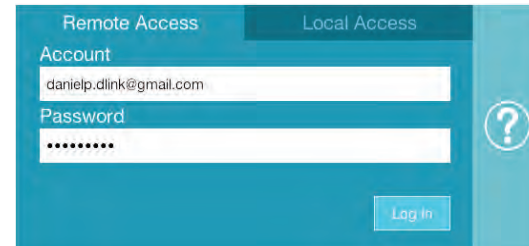
Remote mode will connect you to storage on your router in a different location. For example, you are at your office connecting to your router at home.



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.

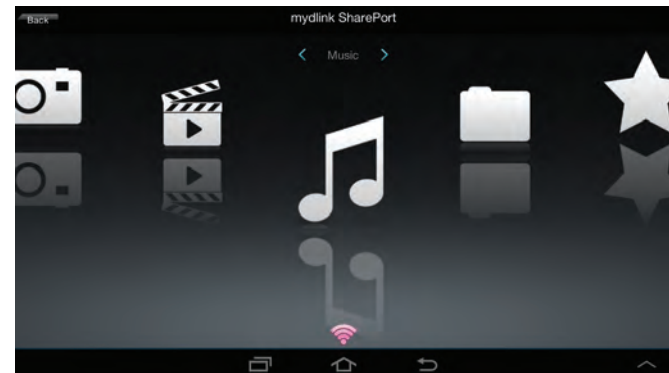


After logging in, select your router from the device list.



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.



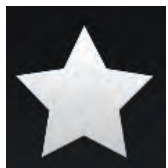
Tap on the movie icon to play videos.



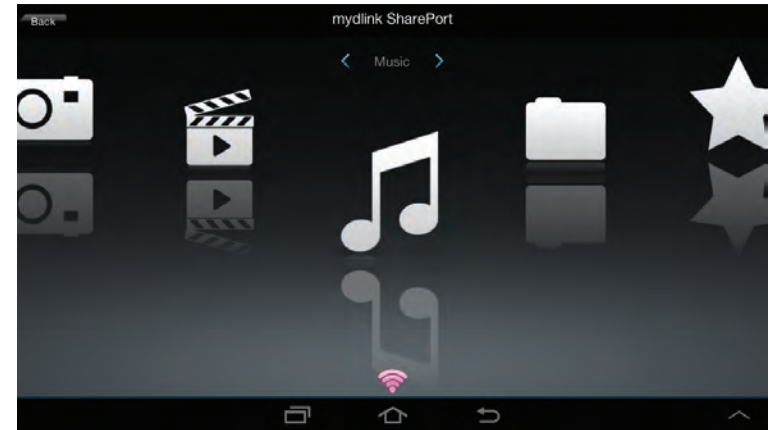
Tap on the music icon to play audio files.



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.



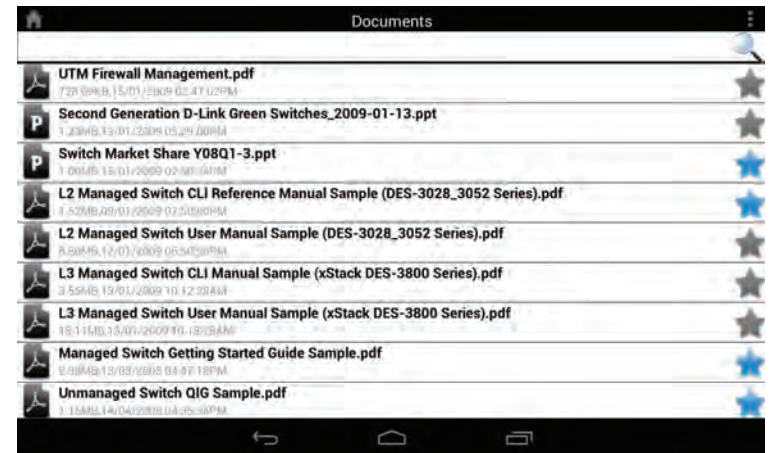
Tap to return to the main menu.



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.



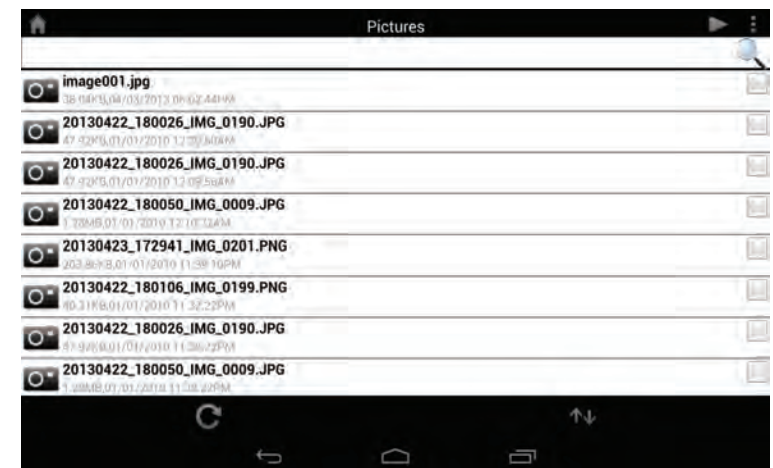
Tap to update the list of files.








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.
-  Tap to delete the current image. Tap **OK** to confirm.
-  Tap to bring up additional options using other applications.
-  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.

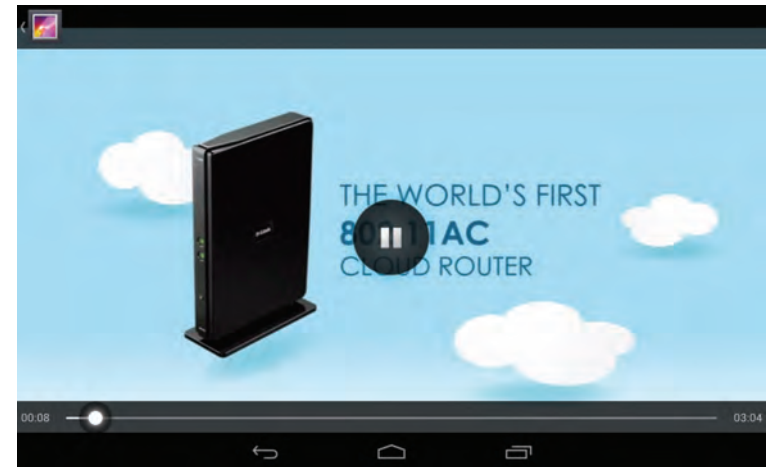


Tap on a file to start playing it. Tap on the screen to bring up the scroll bar, pause button, and play button.

 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.



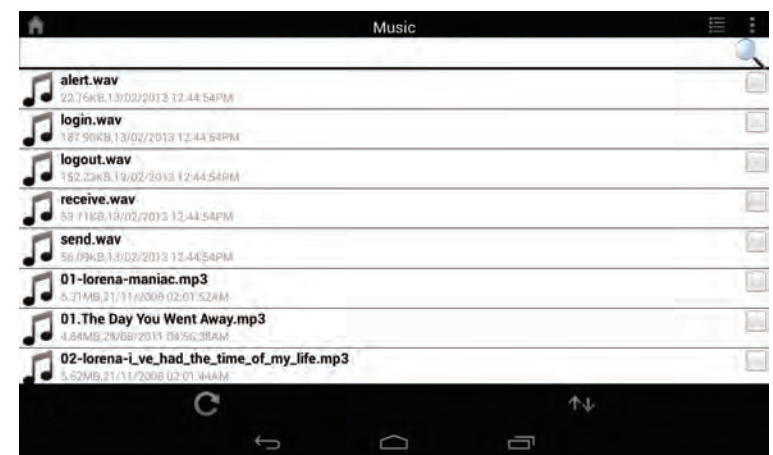
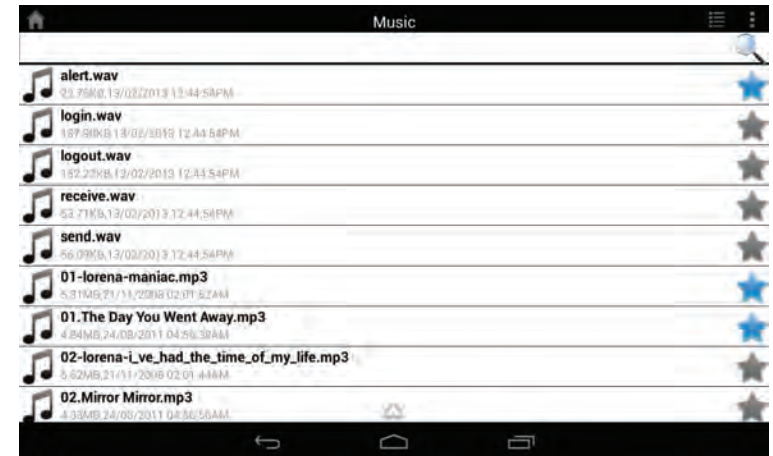
Tap to update the list of files.



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:

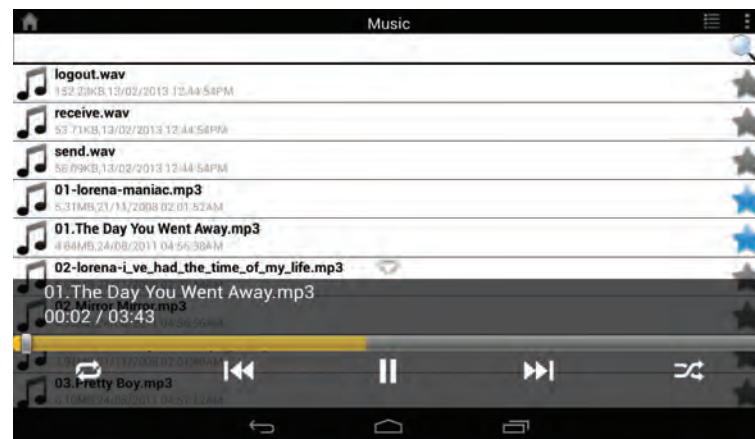
 Tap on the up/down arrow to show/hide the player controls.

  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.



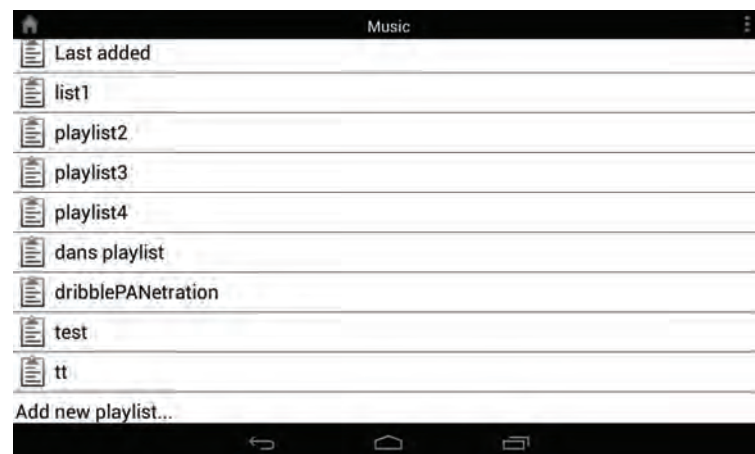
To create a playlist:

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.

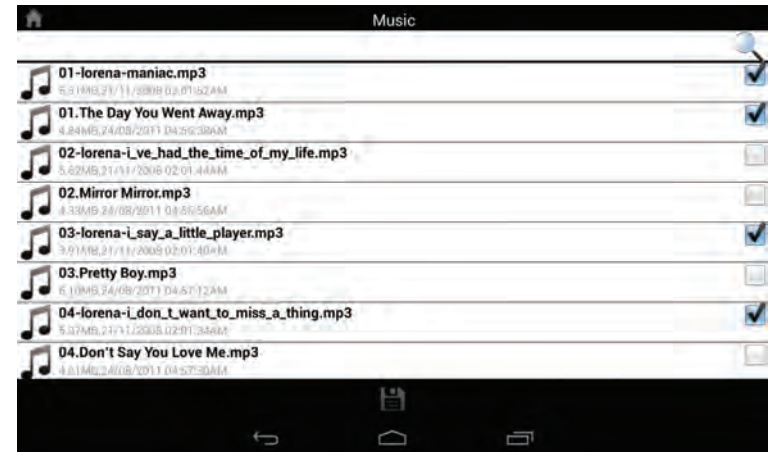


To add songs to a playlist:

Tap a playlist to see its contents.

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

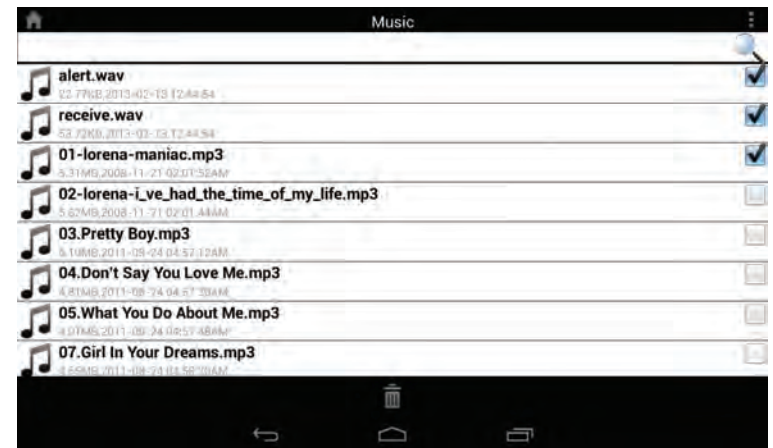
Tick the songs you wish to add and tap  to save.



To delete songs from the playlist:

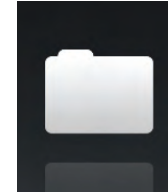
Tap **Edit** in the playlist browser and mark the files to be deleted.

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:



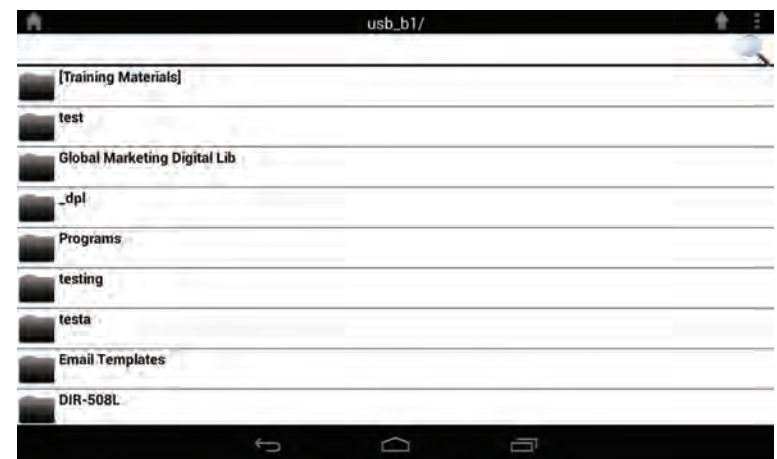
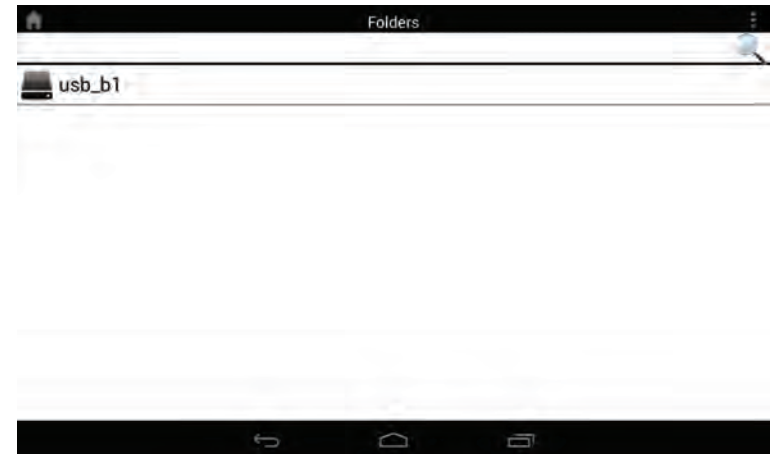
Tap to return to the main menu.








Tap to upload files.

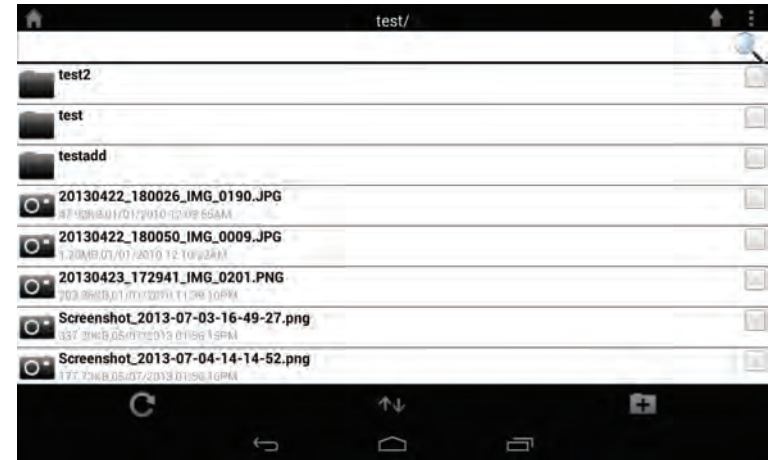


Tap to refresh, sort, create a new folder, or mark files for deletion and copying.



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:

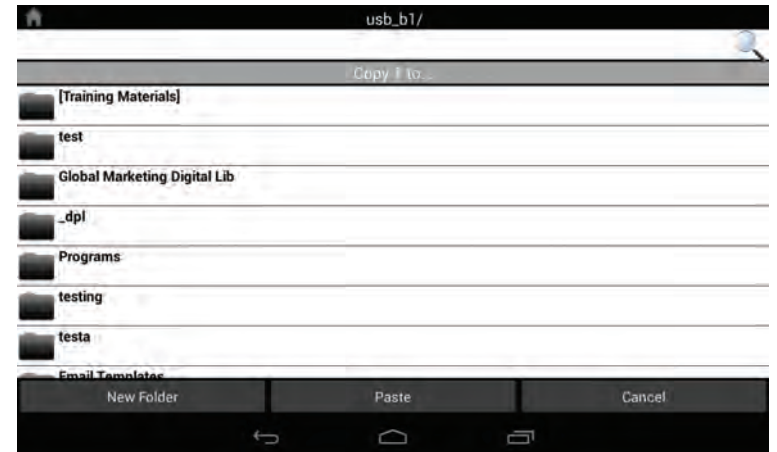
Tap on  to select files for copying. Tick the box next to each file for copying.

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.

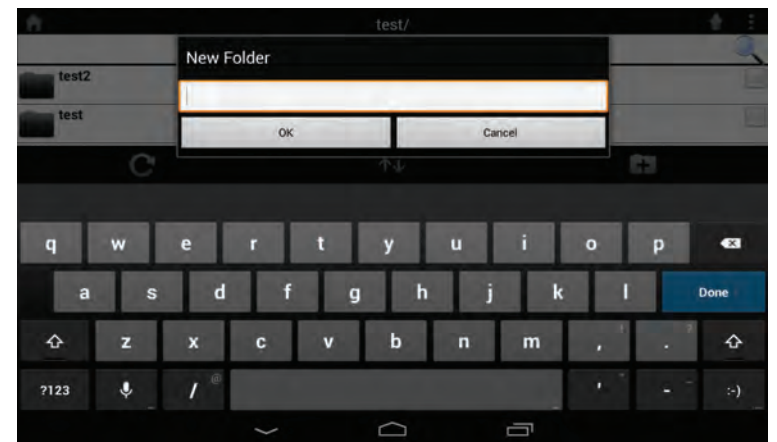


To create a new folder:

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**.



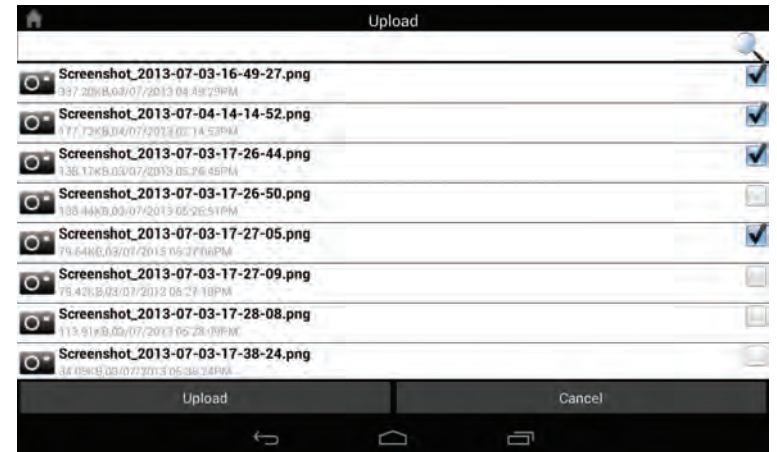
To upload images and videos from your mobile device:

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.

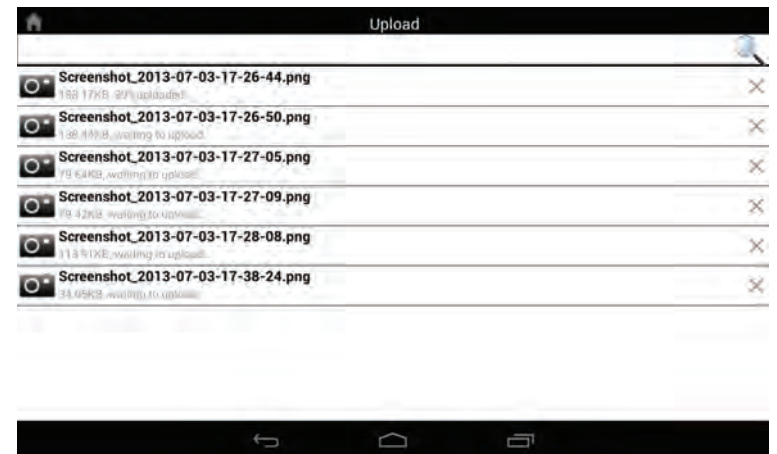
Tick the box next to each of the files you wish to upload.

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.



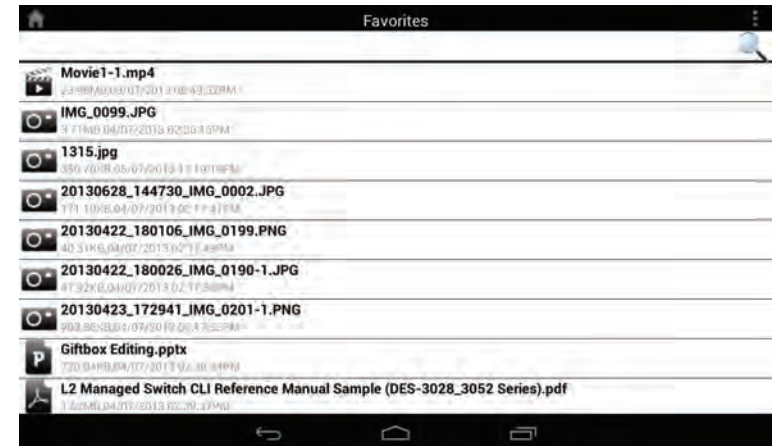
Tap to update the list of files.



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



Check a file then tap to delete it.



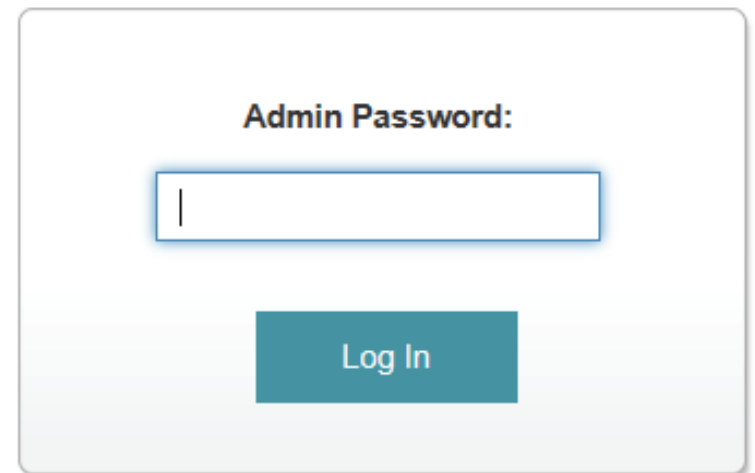
Configuration

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.



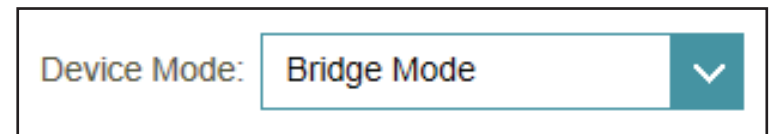
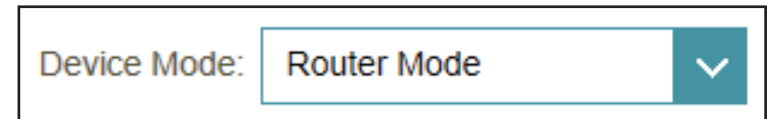
Device Mode

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 67.



Internet

Cable Status:	Connected	MAC Address:	C0:A0:8B:F8:38:53
Connection Type:	Dynamic IP (DHCP)	IP Address:	172.17.5.47
Network Status:	Connected	Subnet Mask:	255.255.255.0
Connection Uptime:	0 Day 0 Hour 2 Min 52 Sec	Default Gateway:	172.17.5.254
		Primary DNS Server:	192.168.168.249
		Secondary DNS Server:	192.168.168.201

[Release IP Address](#) [Go to settings](#)

COPYRIGHT © 2013 D-Link [Get Home](#)

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 98.

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 94.

The screenshot displays the D-Link DIR-880L web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management' tabs. The main content area shows 'Internet Connected' with a green status indicator and a message: 'Click on any item in the diagram for more information.' Below this is a network diagram showing 'Internet' connected to 'DIR-880L', which is then connected to 'Connected Clients: 1' and a 'USB Device'. The 'DIR-880L' section is expanded to show network details:

IPv4 Network		Wi-Fi 2.4GHz	
MAC Address:	C0:A0:BB:F6:38:50	Status:	Enabled
Router IP Address:	192.168.0.1	Wi-Fi Name (SSID):	dlink_24g
Subnet Mask:	255.255.255.0	Password:	qqqqqqqq
IPv6 Network		Wi-Fi 5GHz	
Link-Local Address:	FE80:C2A0:BBFF:FEF8:3850	Status:	Enabled
Router IPv6 Address:	Not Available	Wi-Fi Name (SSID):	dlink_5g
DHCP-PD:	Disabled	Password:	qqqqqqqq

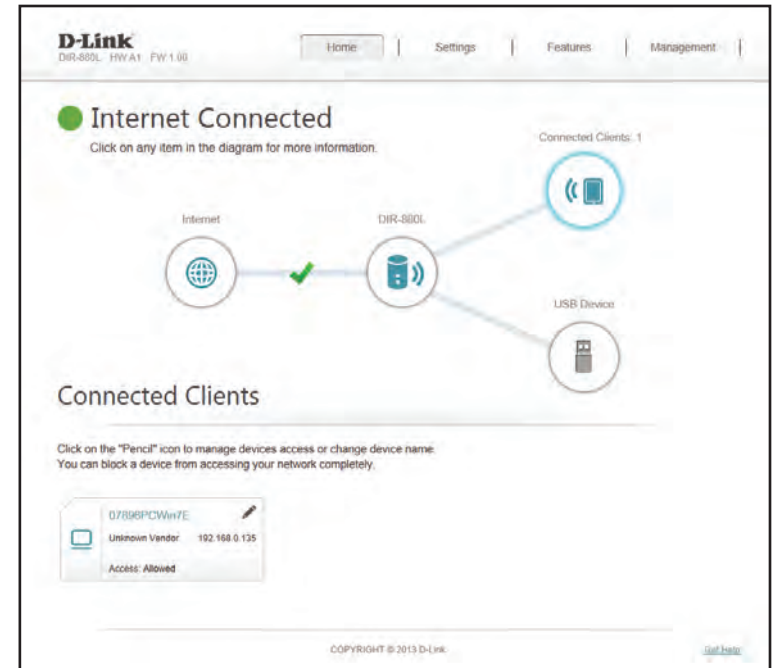
At the bottom of the settings section, there are two 'Go to settings' buttons with arrows. The footer contains 'COPYRIGHT © 2013 D-Link' and a small 'D-Link' logo.

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.

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 100.



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 68.

For **Static IP** refer to page 69.

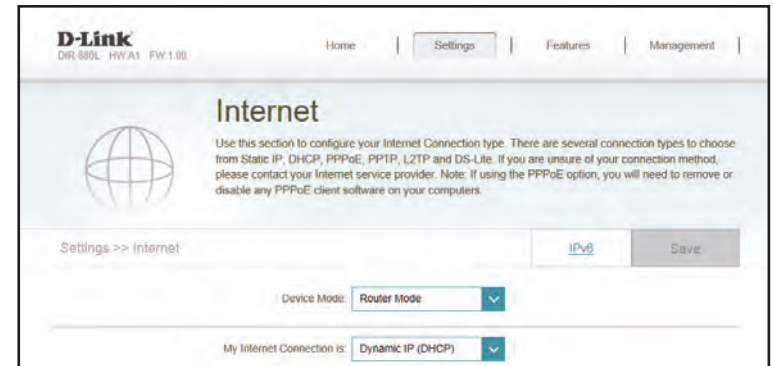
For **PPPoE** refer to page 70.

For **PPTP** refer to page 71.

For **L2TP** refer to page 73.

For **DS-Lite** refer to page 75.

To configure an IPv6 connection, click the **IPv6** link. Refer to page 76.



Dynamic IP (DCHP)

Select **Dynamic IP (DHCP)** to obtain IP address information automatically from your Internet Service Provider (ISP). Select this option if your ISP does not 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 MAC address on the router. You can use the drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.

The screenshot shows the D-Link web interface for the DIR-880L router. The page is titled "Internet" and is part of the "Settings" menu. The "Device Mode" is set to "Router Mode". The "My Internet Connection Is" is set to "Dynamic IP (DHCP)". The "Host Name" is "dlinkrouter". The "Primary DNS Server" and "Secondary DNS Server" fields are empty. The "MTU" is set to "Auto". The "Mac Address Clone" is "C0:A0:BB:F6:38:53" and the dropdown menu is set to "<< MAC Address". A "Save" button is visible in the top right corner.

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 MAC address on the router. You can use drop-down menu to replace the Internet port's MAC address with the MAC address of a connected client.

Click **Save** when you are done.

The screenshot shows the D-Link web interface for the DIR-880L router. The page is titled "Internet" and contains the following configuration options:

- Device Mode:** Router Mode (dropdown)
- My Internet Connection is:** Static IP (dropdown)
- IP Address:** [Input field]
- Subnet Mask:** [Input field]
- Default Gateway:** [Input field]
- Primary DNS Server:** [Input field]
- Secondary DNS Server:** [Input field]
- MTU:** Auto (dropdown)
- Mac Address Clone:** << MAC Address (dropdown)

A "Save" button is located at the top right of the configuration area. The page also includes a "Settings >> Internet" breadcrumb and a "IPv6" 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).

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 D-Link web interface for the DIR-880L router. The page is titled "Internet" and contains the following settings:

- Device Mode:** Router Mode
- My Internet Connection is:** PPPoE
- Username:** (empty field)
- Password:** (empty field)
- Reconnect Mode:** On demand
- Maximum Idle Time:** 5 minutes
- Address Mode:** Dynamic IP
- Service Name:** (empty field)
- Primary DNS Server:** (empty field)
- Secondary DNS Server:** (empty field)
- MTU:** Auto

There is a "Save" button in the top right corner of the settings area. The page also includes a "Settings >> Internet" breadcrumb and a "Copyright © 2013 D-Link" footer.

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).

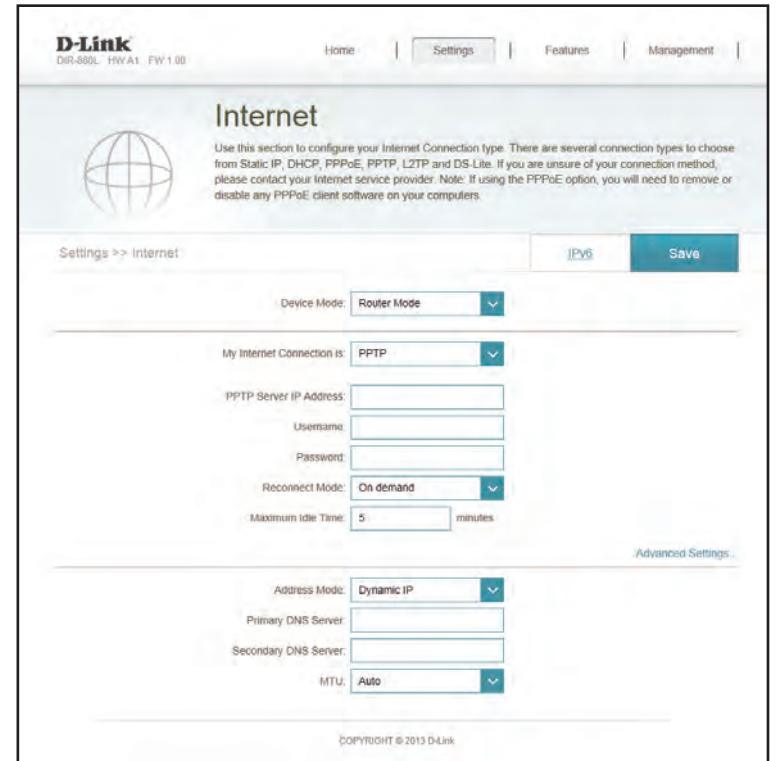
Primary DNS Server: Enter the primary DNS server IP address assigned by your ISP.

The screenshot shows the 'Internet' configuration page in the D-Link web interface. The page has a header with the D-Link logo and model number 'DIR-880L HWA1 FW 1.00'. There are navigation links for 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Internet' with a globe icon and a note about connection types. Below this, there's a breadcrumb 'Settings >> Internet' and a 'Save' button. The configuration fields are: 'Device Mode' set to 'Router Mode', 'My Internet Connection is' set to 'PPTP', 'PPTP Server IP Address' (empty), 'Username' (empty), 'Password' (empty), 'Reconnect Mode' set to 'On demand', 'Maximum Idle Time' set to '5 minutes', 'Address Mode' set to 'Dynamic IP', 'Primary DNS Server' (empty), 'Secondary DNS Server' (empty), and 'MTU' set to 'Auto'. There is an 'Advanced Settings' link at the bottom right of the form area.

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.



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 'Internet' configuration page in the D-Link DIR-880L web interface. The page includes a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Internet' with a globe icon. Below the heading is a brief instruction: '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 page is divided into 'Basic Settings' and 'Advanced Settings' sections. In the 'Basic Settings' section, 'Device Mode' is set to 'Router Mode', 'My Internet Connection is' is set to 'L2TP', 'L2TP Server IP Address', 'Username', and 'Password' are empty text boxes, 'Reconnect Mode' is set to 'On demand', and 'Maximum Idle Time' is set to '5 minutes'. In the 'Advanced Settings' section, 'Address Mode' is set to 'Dynamic IP', 'Primary DNS Server' and 'Secondary DNS Server' are empty text boxes, and 'MTU' is set to 'Auto'. A 'Save' button is located at the top right of the settings area. The footer of the page reads '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.



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.

The screenshot shows the D-Link DIR-880L web interface. The top navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Internet'. Below the heading, there is a note: '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 'Settings >> Internet' breadcrumb is visible. There are two tabs: 'IPv6' (selected) and 'Save'. The 'Device Mode' is set to 'Router Mode'. The 'My Internet Connection is:' dropdown is set to 'DS-Lite'. There is an 'Advanced Settings...' link. Under 'DS-Lite Configuration', the dropdown is set to 'DS-Lite DHCPv6 Option'. The 'B4 IPv4 Address' is '192.0.0.' with a text input field. The 'WAN IPv6 Address' is 'N/A' and the 'IPv6 WAN Default Gateway' is 'N/A'. The footer says 'COPYRIGHT © 2013 D-Link'.

IPv6

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

My Internet Connection Is: Choose your IPv6 connection type from the drop-down menu. 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 **Auto Detection** refer to page 77.

For **Static IPv6** refer to page 79.

For **Auto Configuration (SLAAC/DHCPv6)** refer to page 81.

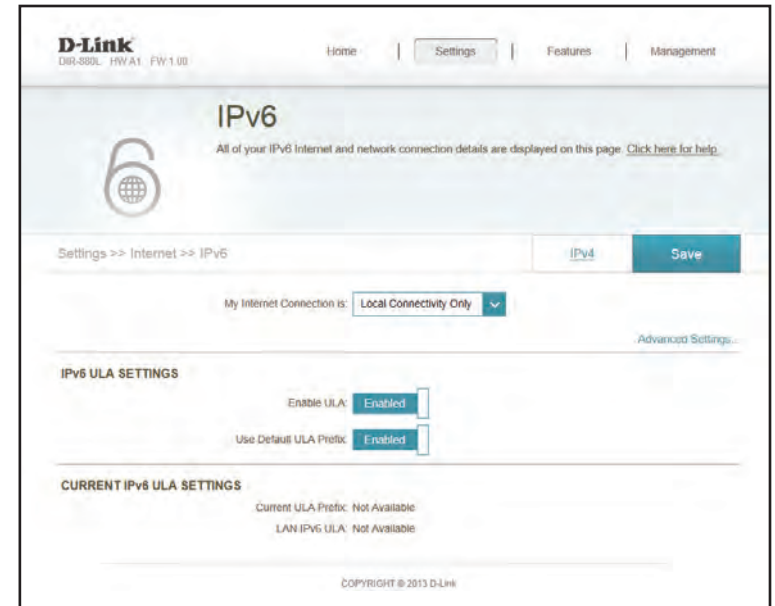
For **PPPoE** refer to page 83.

For **IPv6 in IPv4 Tunnel** refer to page 85.

For **6 to 4** refer to page 87.

For **6rd** refer to page 88.

For **Local Connectivity Only** refer to page 90.



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 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-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.

The screenshot displays the IPv6 configuration page for a D-Link DIR-880L router. The page is titled 'IPv6' and includes a navigation menu with 'Home', 'Settings', 'Features', and 'Management'. The main content area is divided into several sections:

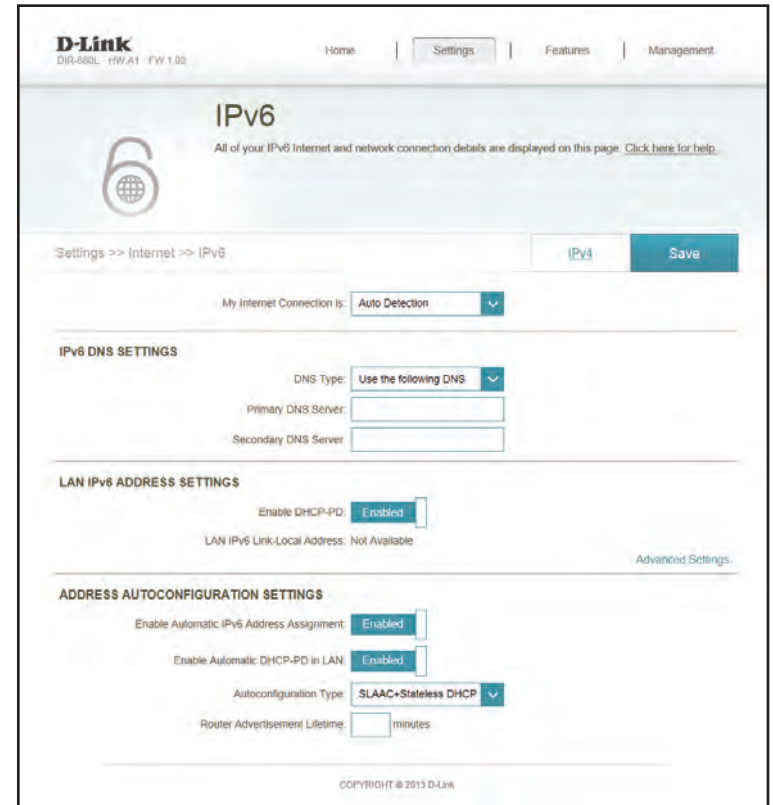
- My Internet Connection:** A dropdown menu set to 'Auto Detection'.
- IPv6 DNS SETTINGS:**
 - DNS Type:** A dropdown menu set to 'Use the following DNS'.
 - Primary DNS Server:** An empty text input field.
 - Secondary DNS Server:** An empty text input field.
- LAN IPv6 ADDRESS SETTINGS:**
 - Enable DHCP-PD:** A toggle switch set to 'Enabled'.
 - LAN IPv6 Link-Local Address:** A text field displaying 'Not Available'.
- ADDRESS AUTOCONFIGURATION SETTINGS:**
 - Enable Automatic IPv6 Address Assignment:** A toggle switch set to 'Enabled'.
 - Enable Automatic DHCP-PD in LAN:** A toggle switch set to 'Enabled'.
 - Autoconfiguration Type:** A dropdown menu set to 'SLAAC+Stateless DHCP'.
 - Router Advertisement Lifetime:** A text input field set to 'minutes'.

At the bottom of the page, there is a copyright notice: 'COPYRIGHT © 2013 D-Link'.

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.



Static IPv6

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

Use Link-Local Address: Enable or disable a link-local 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.

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.

The screenshot displays the IPv6 configuration interface for a D-Link DIR-880L router. The page title is 'IPv6' and it includes a breadcrumb trail: 'Settings >> Internet >> IPv6'. A 'Save' button is visible in the top right corner. The configuration is as follows:

- My Internet Connection:** Static IPv6 (selected from a dropdown menu)
- Use Link-Local Address:** Enabled (checkbox checked)
- Default Gateway:** (empty text field)
- Primary DNS Server:** (empty text field)
- Secondary DNS Server:** (empty text field)

LAN IPv6 ADDRESS SETTINGS

- LAN IPv6 Address:** (empty text field) #64
- LAN IPv6 Link-Local Address:** Not Available

ADDRESS AUTOCONFIGURATION SETTINGS

- Enable Automatic IPv6 Address Assignment:** Enabled (checkbox checked)
- Autoconfiguration Type:** SLAAC+Stateless DHCP (selected from a dropdown menu)
- Router Advertisement Lifetime:** 60 minutes

At the bottom of the page, there is a copyright notice: 'COPYRIGHT © 2013 D-Link'.

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 IPv6 configuration interface for a D-Link DIR-880L router. The page title is "IPv6" and it includes a navigation menu with "Home", "Settings", "Features", and "Management". The main content area is titled "IPv6" and contains the following settings:

- My Internet Connection is:** Static IPv6 (dropdown menu)
- Use Link-Local Address:** Enabled (checkbox)
- Default Gateway:** (text input field)
- Primary DNS Server:** (text input field)
- Secondary DNS Server:** (text input field)

LAN IPv6 ADDRESS SETTINGS

- LAN IPv6 Address:** (text input field) /64
- LAN IPv6 Link-Local Address:** Not Available

ADDRESS AUTOCONFIGURATION SETTINGS

- Enable Automatic IPv6 Address Assignment:** Enabled (checkbox)
- Autoconfiguration Type:** SLAAC+Stateless DHCP (dropdown menu)
- Router Advertisement Lifetime:** 60 minutes (text input field)

At the bottom right, there is a "Save" button and a "Copyright © 2013 D-Link" notice.

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 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.

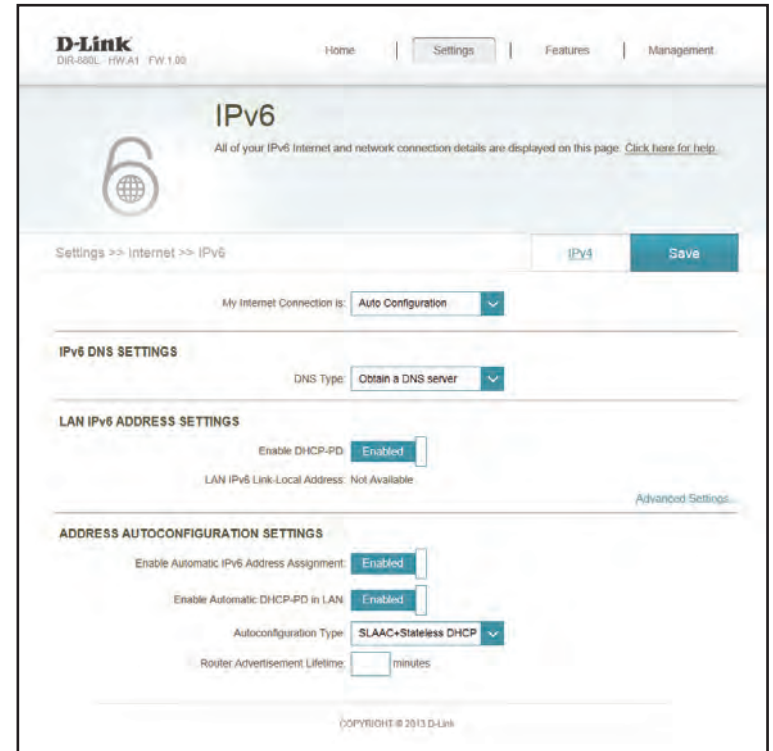
Enable DHCP-PD: Enable or disable prefix delegation services.

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

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

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

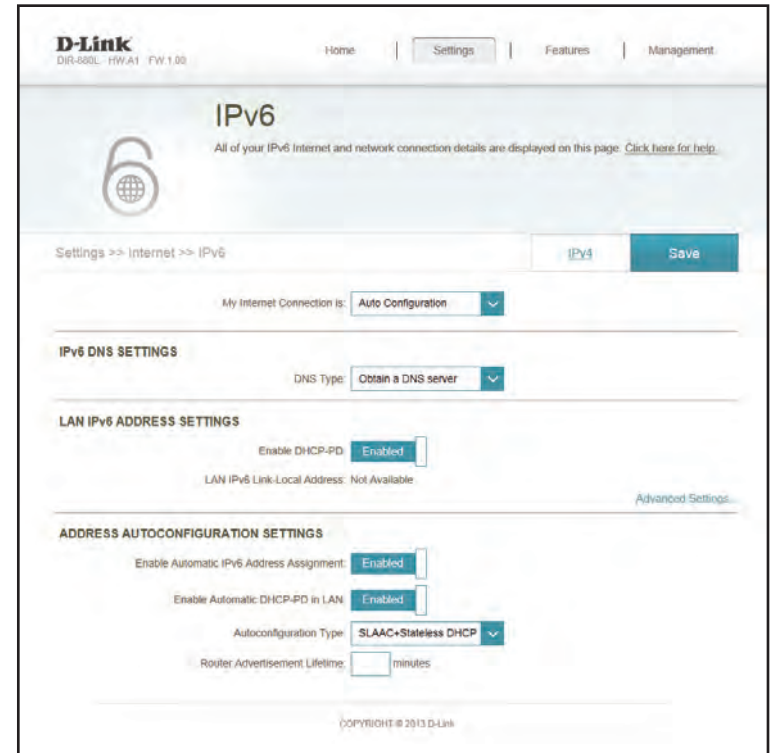
Enable Automatic DHCP-PD in LAN: Enable or disable automatic DHCP-PD services.



Auto 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.



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

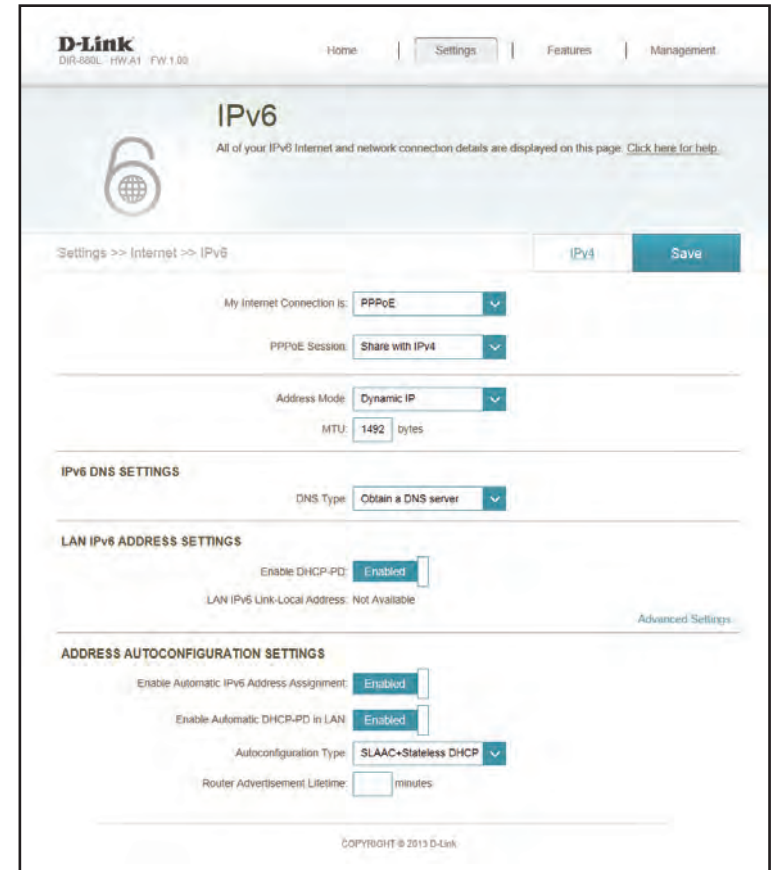
LAN IPv6 Link-Local Address: Displays the router's LAN link-local address.

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.

The screenshot displays the IPv6 configuration page in the D-Link web interface. The page title is "IPv6" and it includes a navigation menu with "Home", "Settings", "Features", and "Management". The breadcrumb trail is "Settings >> Internet >> IPv6".

The main configuration area includes:

- My Internet Connection Is:** A dropdown menu set to "IPv6 in IPv4 Tunnel".
- Remote IPv4 Address:** An empty text input field.
- Remote IPv6 Address:** An empty text input field.
- Local IPv4 Address:** A text input field containing "172.17.5.47".
- Local IPv6 Address:** An empty text input field.
- Subnet Prefix Length:** An empty text input field.

Below these fields are three sections:

- IPv6 DNS SETTINGS:** Includes a "DNS Type:" dropdown menu set to "Obtain a DNS server".
- LAN IPv6 ADDRESS SETTINGS:** Includes a toggle for "Enable DHCP-PD" (set to "Enabled") and a label "LAN IPv6 Link-Local Address: Not Available".
- ADDRESS AUTOCONFIGURATION SETTINGS:** Includes a toggle for "Enable Automatic IPv6 Address Assignment" (set to "Enabled"), a toggle for "Enable Automatic DHCP-PD in LAN" (set to "Enabled"), a dropdown for "Autoconfiguration Type" set to "SLAAC+Stateless DHCP", and a "Router Advertisement Lifetime:" field set to "60 minutes".

At the bottom right, there is a "Save" button and a "Copyright © 2013 D-Link" notice.

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

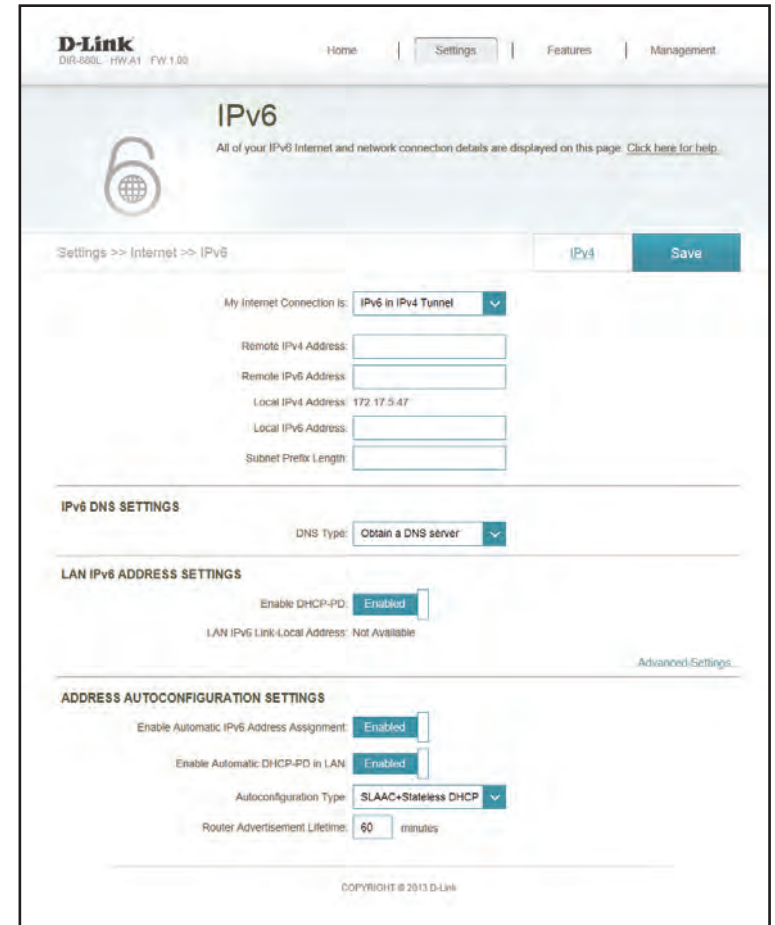
Enable Automatic IPv6 Address Assignment: Enable or disable the Automatic IPv6 Address Assignment feature.

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

Auto 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.



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 IPv6 configuration interface for a D-Link DIR-880L router. The page title is "IPv6" and it includes a navigation menu with "Home", "Settings", "Features", and "Management". The main heading is "IPv6" with a sub-note: "All of your IPv6 Internet and network connection details are displayed on this page. [Click here for help.](#)"

The configuration area is titled "Settings >> Internet >> IPv6" and includes a "Save" button. The "My Internet Connection Is:" dropdown is set to "6to4". Below this, the "6to4 Address" is displayed as "172.17.5.47". There are input fields for "6to4 Relay", "Primary DNS Server", and "Secondary DNS Server".

The "LAN IPv6 ADDRESS SETTINGS" section shows the "LAN IPv6 Address" as "FFFF:FFFF:FFFF:1:1:1:1:1" and the "LAN IPv6 Link-Local Address" as "Not Available". There is an "Advanced Settings..." link.

The "ADDRESS AUTOCONFIGURATION SETTINGS" section has "Enable Automatic IPv6 Address Assignment" checked (Enabled). The "Autoconfiguration Type" is set to "SLAAC+Stateless DHCP" via a dropdown menu. The "Router Advertisement Lifetime" is set to "minutes" with an input field.

At the bottom, there is a copyright notice: "COPYRIGHT © 2013 D-LINK".

6rd

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

Assign IPv6 Prefix: Currently unsupported.

Primary DNS Server: Enter the primary DNS server address.

Secondary DNS Server: Enter the secondary DNS server address.

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.

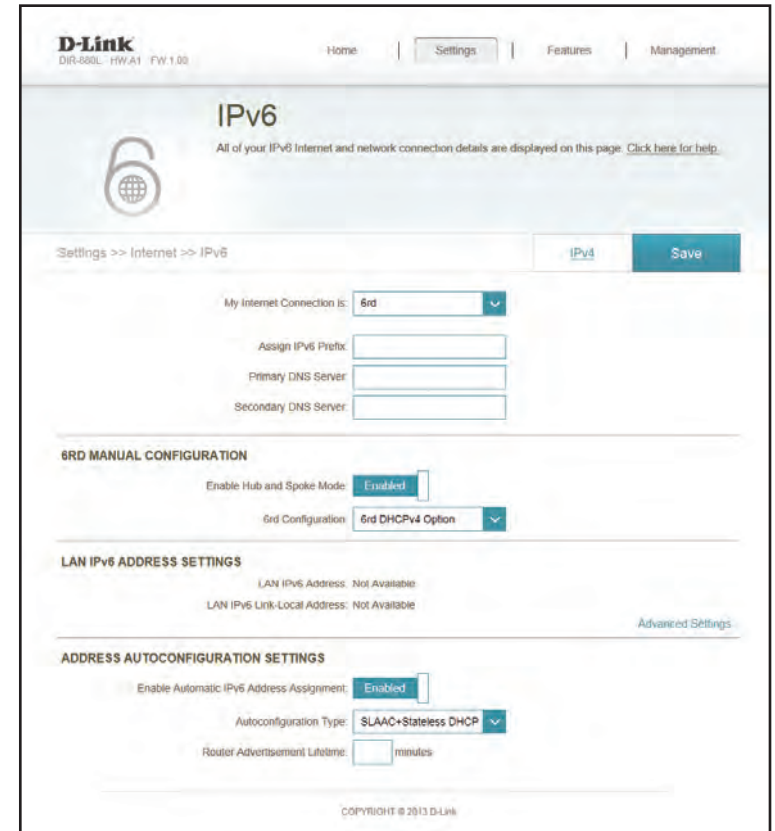
The screenshot displays the IPv6 configuration interface for a D-Link router. At the top, there's a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'IPv6' with a sub-heading 'All of your IPv6 Internet and network connection details are displayed on this page. [Click here for help.](#)' Below this, there's a breadcrumb trail 'Settings >> Internet >> IPv6' and a 'Save' button. The 'My Internet Connection' is set to '6rd'. There are input fields for 'Assign IPv6 Prefix', 'Primary DNS Server', and 'Secondary DNS Server'. The '6RD MANUAL CONFIGURATION' section shows 'Enable Hub and Spoke Mode' as 'Enabled' and '6rd Configuration' as '6rd DHCPv4 Option'. The 'LAN IPv6 ADDRESS SETTINGS' section shows 'LAN IPv6 Address' and 'LAN IPv6 Link-Local Address' as 'Not Available'. The 'ADDRESS AUTOCONFIGURATION SETTINGS' section shows 'Enable Automatic IPv6 Address Assignment' as 'Enabled', 'Autoconfiguration Type' as 'SLAAC+Stateless DHCP', and 'Router Advertisement Lifetime' as '0 minutes'. A copyright notice 'COPYRIGHT © 2013 D-Link' is at the bottom.

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.



Local Connectivity Only

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

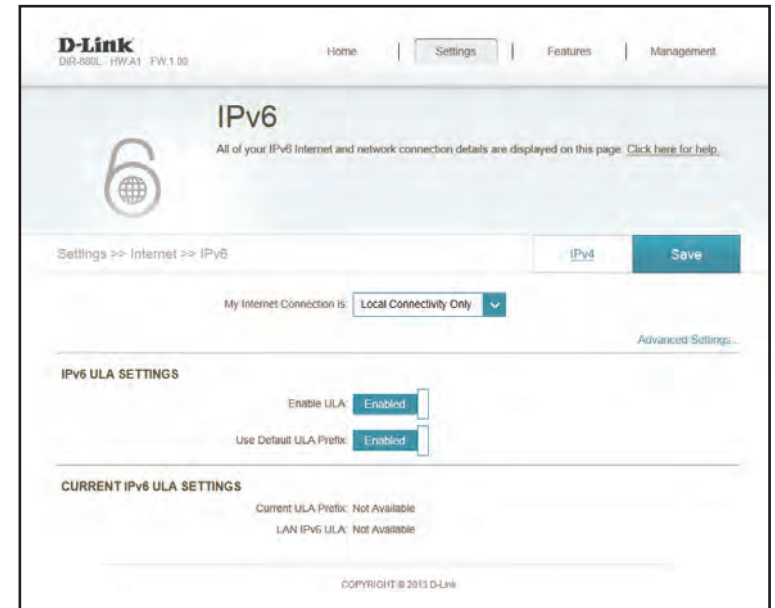
Enable ULA: Click here to enable Unique Local IPv6 Unicast Addresses settings.

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

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

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

Click **Save** when you are done.



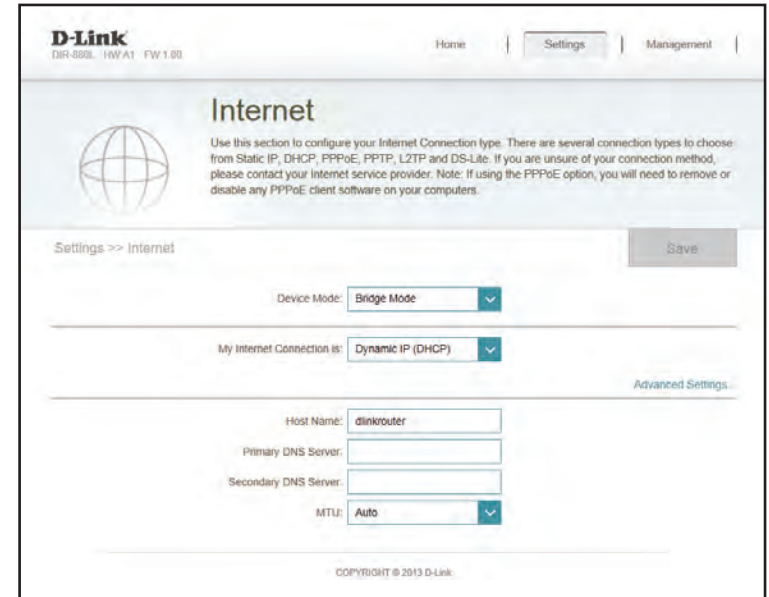
Internet (Bridge Mode)

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

My Internet Connection Is: Choose your Internet connection type from the drop-down menu. 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 92.

For **Static IP** refer to page 93.



The screenshot displays the D-Link DIR-880L web interface. At the top, the navigation bar includes 'Home', 'Settings', and 'Management'. The main heading is 'Internet', accompanied by a globe icon and a descriptive paragraph: '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, the 'Settings >> Internet' breadcrumb is shown next to a 'Save' button. The configuration fields are as follows: 'Device Mode' is set to 'Bridge Mode'; 'My Internet Connection Is' is set to 'Dynamic IP (DHCP)'; 'Host Name' is 'dlinkrouter'; 'Primary DNS Server' and 'Secondary DNS Server' are empty text boxes; and 'MTU' is set to 'Auto'. An 'Advanced Settings...' link is located to the right of the DNS fields. The footer contains the copyright notice '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.

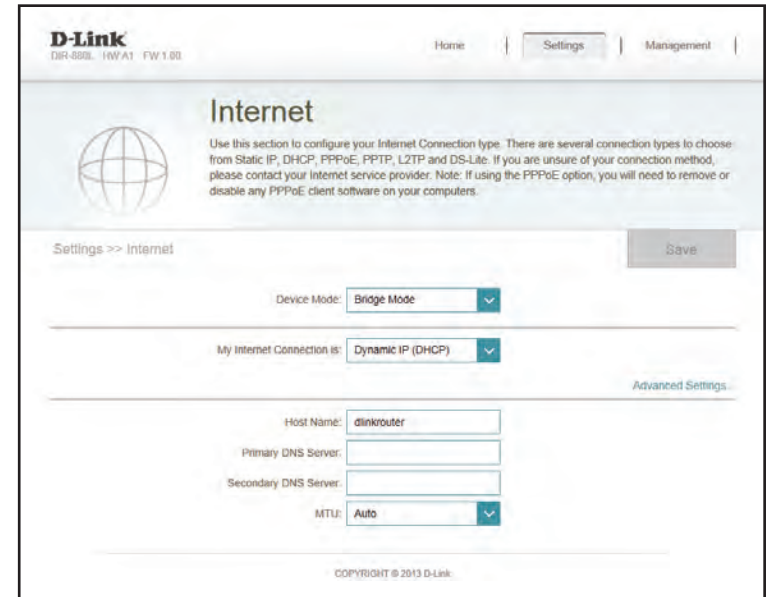
Host Name: The host name is optional but may be required by some ISPs. Leave it blank if you are not sure.

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.



The screenshot displays the D-Link web management interface for the DIR-880L router. The page is titled "Internet" and is part of the "Settings" menu. It provides instructions for configuring the Internet connection type. The current configuration is as follows:

- Device Mode: Bridge Mode
- My Internet Connection is: Dynamic IP (DHCP)
- Host Name: dlinkrouter
- Primary DNS Server: (empty)
- Secondary DNS Server: (empty)
- MTU: Auto

A "Save" button is located in the top right corner of the configuration area. The footer of the page indicates "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.

Click **Save** when you are done.

The screenshot shows the D-Link Web UI for the DIR-880L router. The page is titled "Internet" and includes a "Save" button. The configuration options are as follows:

- Device Mode: Bridge Mode (dropdown)
- My Internet Connection is: Static IP (dropdown)
- IP Address: (text input)
- Subnet Mask: (text input)
- Default Gateway: (text input)
- Primary DNS Server: (text input)
- Advanced Settings... (link)
- Secondary DNS Server: (text input)
- MTU: Auto (dropdown)

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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 96 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 displays the 'Wireless' configuration page for a D-Link router. At the top, there are navigation links for 'Home', 'Settings', 'Features', and 'Management'. The page title is 'Wireless' with a sub-header: '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 this, there are buttons for 'Settings >> Wireless', 'Guest Zone', and 'Save'. The page is divided into two sections: '2.4GHz' and '5GHz'. Each section has a 'Status' dropdown set to 'Enabled', a 'Wi-Fi Name (SSID)' text field, and a 'Password' text field. Below these are 'Advanced Settings...' links. For the 2.4GHz section, the settings are: 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. For the 5GHz section, the settings are: Security Mode: WPA-Personal; 802.11 Mode: Mixed 802.11a/n; Wi-Fi Channel: Auto; Transmission Power: High; Channel Width: Auto 20/40/80 MHz; Visibility Status: Visible; Schedule: Always Enable. At the bottom, there is a copyright notice: 'COPYRIGHT © 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 116).

Click **Save** when you are done.

The screenshot displays the D-Link wireless configuration interface. At the top, the D-Link logo and model information (DIR-880L HW:V1 FW:1.00) are visible, along with navigation links for Home, Settings, Features, and Management. The main heading is 'Wireless', with a sub-heading 'Guest Zone' and a 'Save' button. The interface is divided into two sections: 2.4GHz and 5GHz.

2.4GHz Settings:

- Status: Enabled
- Wi-Fi Name (SSID): dlink_24g
- Password: qqqqqqqq
- Advanced Settings: [Advanced Settings...](#)
- 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
- Advanced Settings: [Advanced Settings...](#)
- Security Mode: WPA-Personal
- 802.11 Mode: Mixed 802.11a/n
- Wi-Fi Channel: Auto
- Transmission Power: High
- Channel Width: Auto 20/40/80 MHz
- Visibility Status: Visible
- Schedule: Always Enable

At the bottom of the page, there is 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 (SSID): Enter a wireless network name (SSID) that is different from your main 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 Only: Enabling this option will confine connectivity to the Internet, disallowing guests from accessing other local network devices.

Click **Save** when you are done.

The screenshot displays the D-Link web interface for configuring the Guest Zone. At the top, the navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Guest Zone', accompanied by an icon of two people and a brief description: '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.](#)'

The configuration area is divided into sections for '2.4GHz' and '5GHz'. Each section has a 'Status' dropdown set to 'Enabled', a 'Wi-Fi Name (SSID)' text field (with 'dlink-guest' and 'dlink-5GHz-guest' respectively), and a 'Password' text field. Below these, there is a 'Home Network Access' section with an 'Internet Access Only' dropdown set to 'Enabled'. A 'Save' button is located in the top right corner of the configuration area.

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

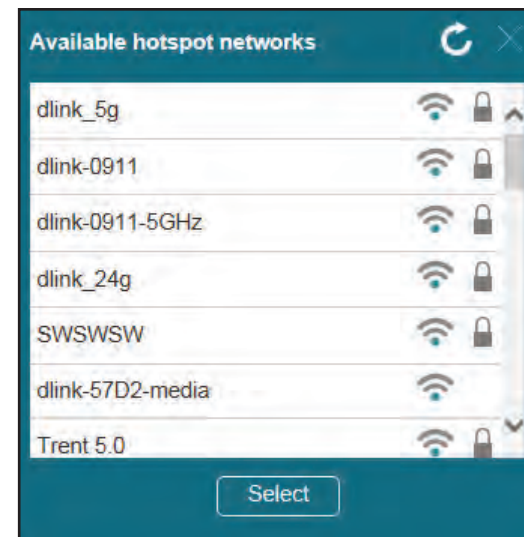
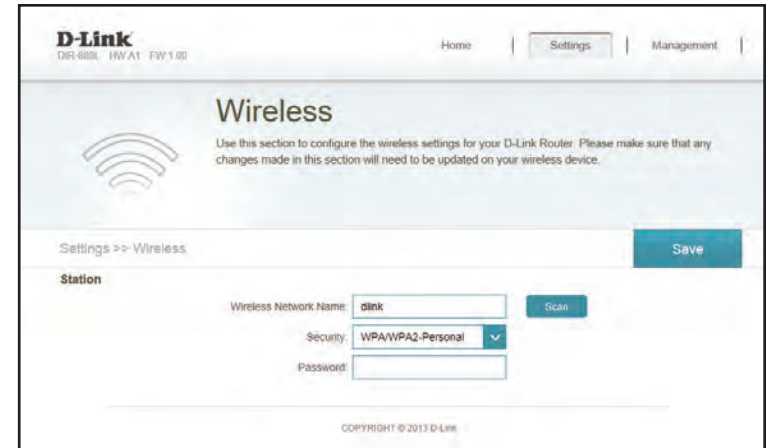
Security: Choose **None**, **WEP**, or **WPA/WPA2-(Personal)** depending on the security used by the network you are trying to connect to.

Password Length: Select the length of the password used by the network you are trying 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).

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 D-Link DIR-880L web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Settings' menu is active, and the 'Network' page is displayed. The page title is 'Network'. Below the title, there is a brief instruction: '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. Click here for help.' There is a 'Save' button in the top right corner. The 'Network Settings' section 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). The 'DHCP Server' section includes a 'Status' dropdown (Enabled), 'DHCP IP Address Range' (192.168.0.100 to 192.168.0.199), 'DHCP Lease Time' (10080 minutes), and 'Always Broadcast' (Disabled). The 'Advanced Settings' section includes 'WAN Port Speed' (Auto), 'UPnP' (Enabled), 'IPv4 Multicast Streams' (Disabled), and 'IPv6 Multicast Streams' (Disabled). At the bottom, there is a copyright notice: 'COPYRIGHT © 2013 D-Link'.

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

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

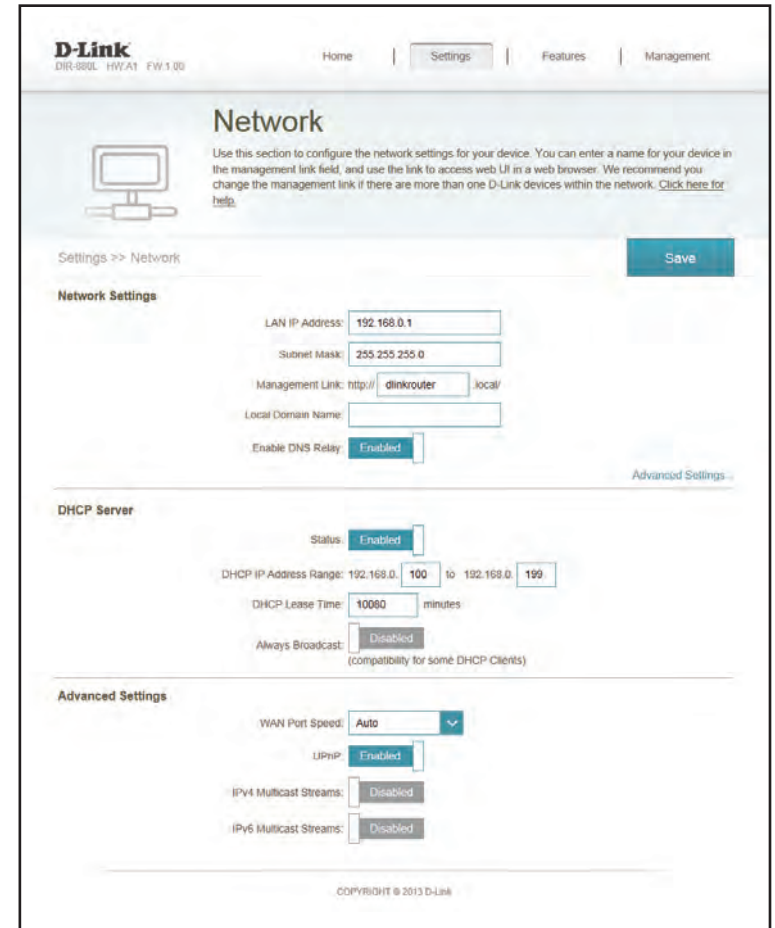
UPnP: Enable or disable Universal Plug and Play (UPnP). UPnP provides compatibility with networking equipment, software and peripherals.

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

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

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

Click **Save** when you are done.



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.

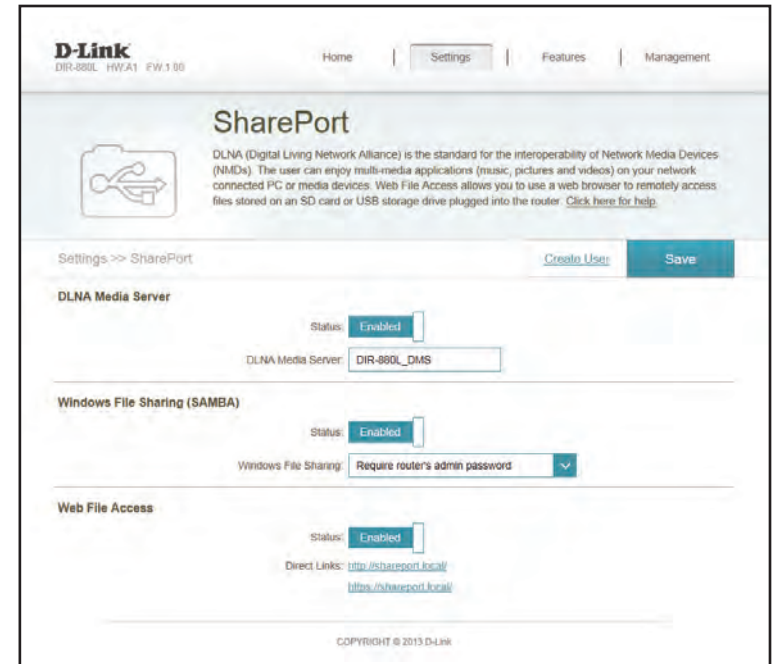
Windows File Sharing (SAMBA): Choose either **Allow all users to access (no password)** or **Require router's admin password** to specify whether the router's password will be required for access.

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:

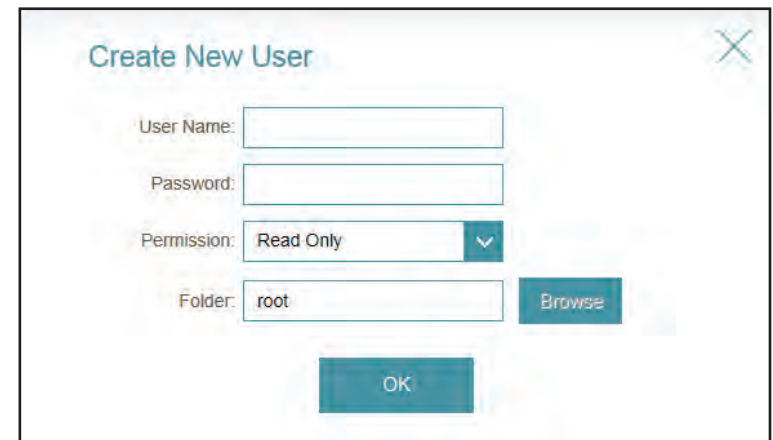
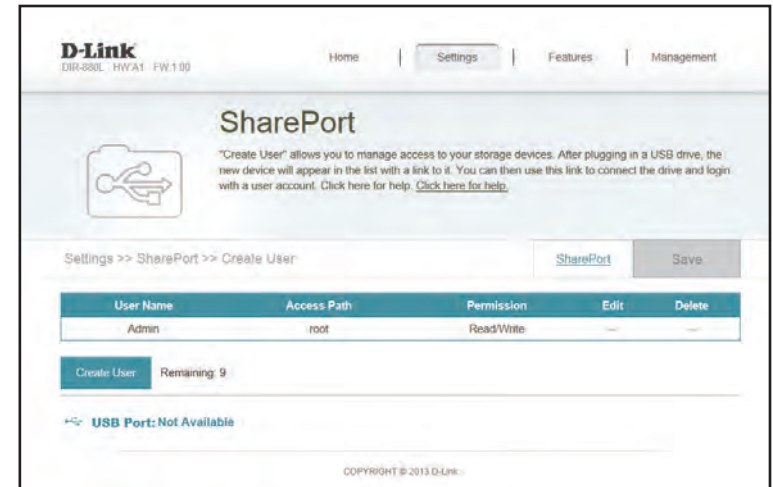
User Name: Enter the desired user name for the new account.

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**.



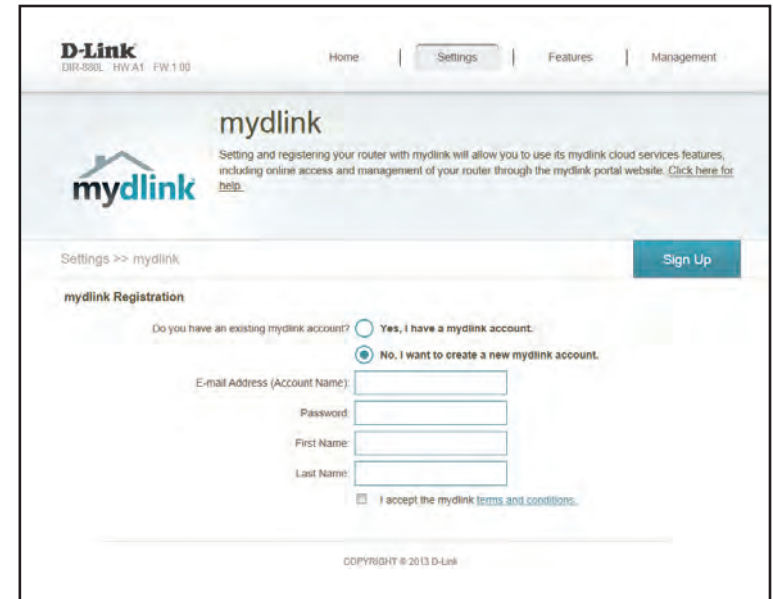
mydlink

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.

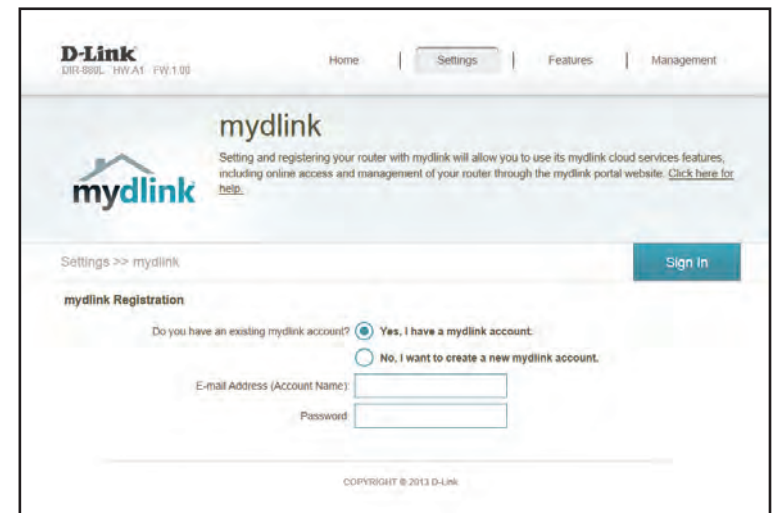
This page allows you to sign in to an existing mydlink account, or sign up for a new mydlink account. In the Settings menu on the bar on the top of the page, click **mydlink**.

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 is a navigation bar with 'D-Link DIR-880L HW v1 FW 1.00' on the left and 'Home', 'Settings', 'Features', and 'Management' on the right. Below the navigation bar, the 'mydlink' logo is displayed, followed by a brief description of the service and a link to help. The main content area is titled 'mydlink Registration' and contains a form. The form starts with the question 'Do you have an existing mydlink account?' and two radio button options: 'Yes, I have a mydlink account.' (unselected) and 'No, I want to create a new mydlink account.' (selected). Below this, there are input fields for 'E-mail Address (Account Name)', 'Password', 'First Name', and 'Last Name'. A checkbox labeled 'I accept the mydlink terms and conditions.' is also present. A blue 'Sign Up' button is located in the top right corner of the form area. At the bottom, there is a copyright notice: 'COPYRIGHT © 2013 D-Link'.



The screenshot shows the mydlink registration page, but with the 'Sign In' option selected. The navigation bar and header are identical to the previous screenshot. The 'mydlink Registration' section now has the 'Yes, I have a mydlink account.' radio button selected. The form fields for 'E-mail Address (Account Name)' and 'Password' are visible, while the 'First Name' and 'Last Name' fields are hidden. A blue 'Sign In' button is now located in the top right corner of the form area. The copyright notice 'COPYRIGHT © 2013 D-Link' is at the bottom.

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.

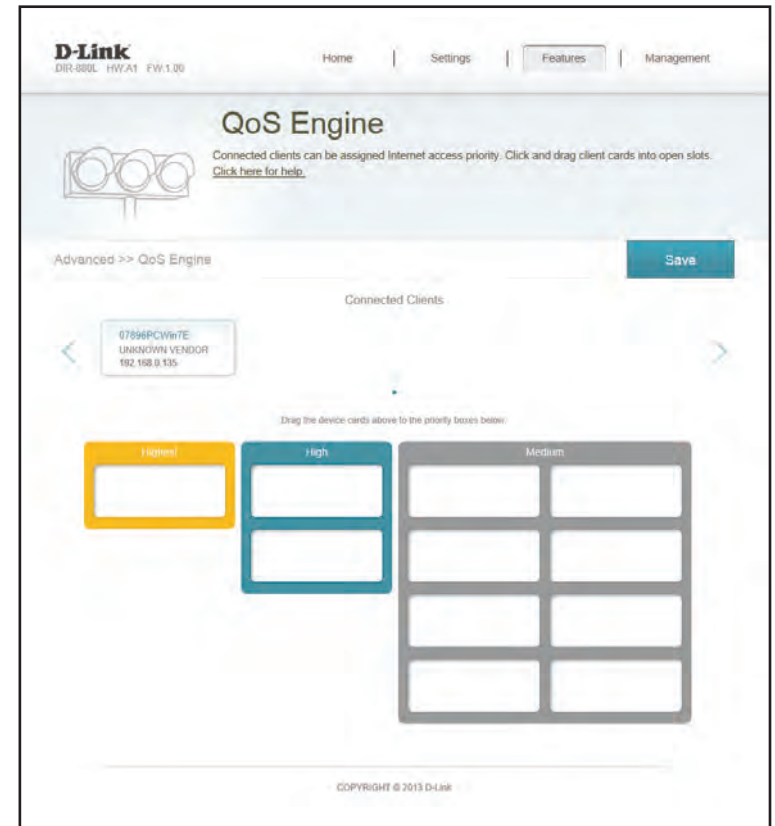
A maximum of **two** devices can be assigned **High** priority.

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.

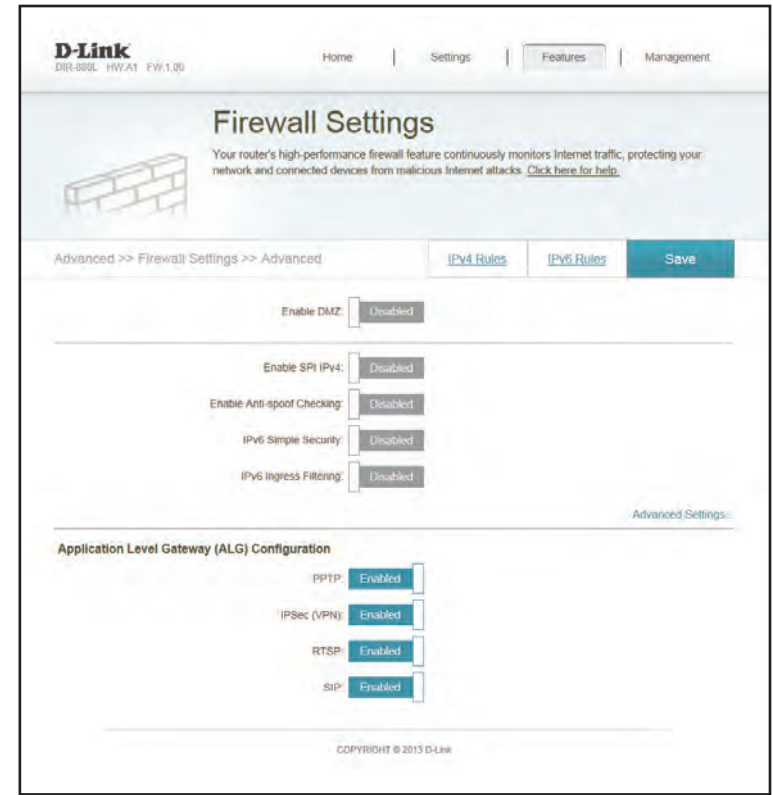
Enable SPI IPv4: Enabling Stateful Packet Inspection (SPI) helps to prevent cyber attacks by validating that the traffic passing through the session conforms to the protocol.

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.

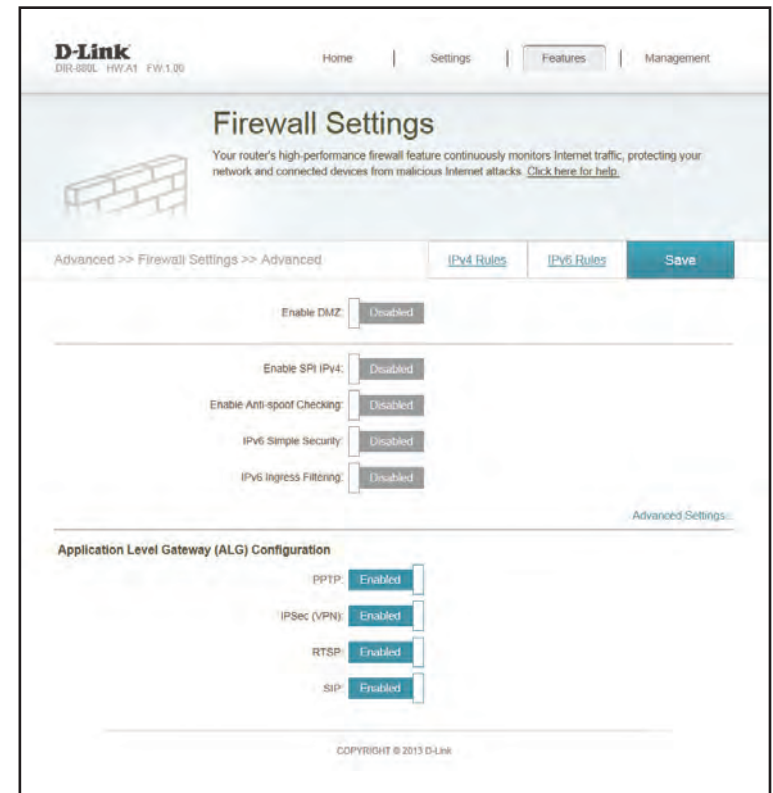


IPSec (VPN): Allows multiple VPN clients to connect to their corporate network using IPSec. Some VPN clients support traversal of IPSec through NAT. This Application Level Gateway (ALG) may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, 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.

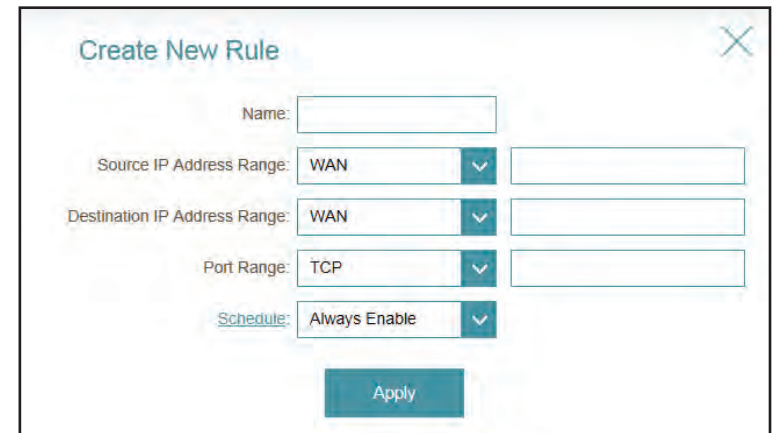
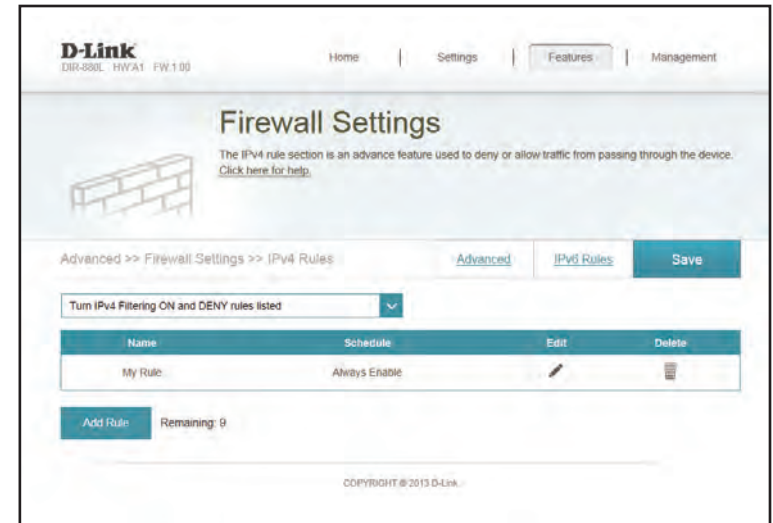
Source IP Address Range: Enter the source IP address range that the rule will apply to, and using the drop-down menu, specify whether it is a **WAN** or **LAN** IP address.

Destination IP Address Range: Enter the destination IP address range that the rule will apply to, and 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 116).

Click **OK** when you are done.



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.

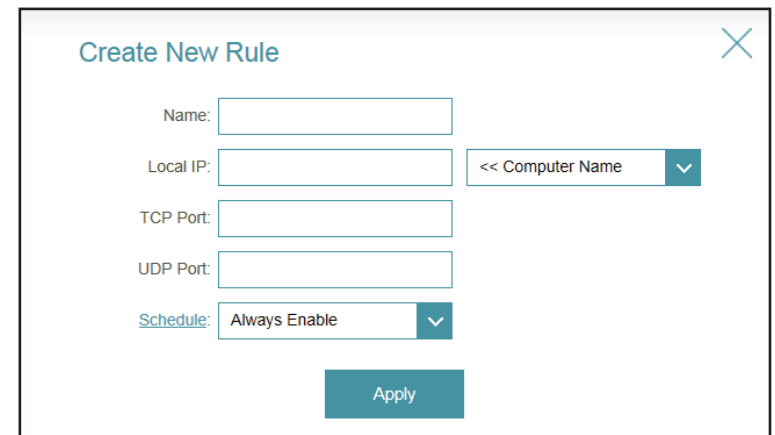
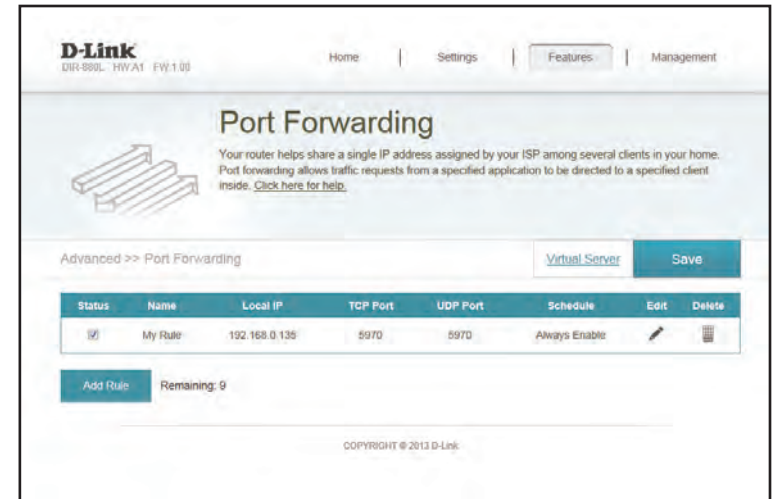
Local IP: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Alternatively, select the device from the drop-down menu.

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 116).

Click **OK** when you are done.



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 116).

Click **OK** when you are done.



Website Filter

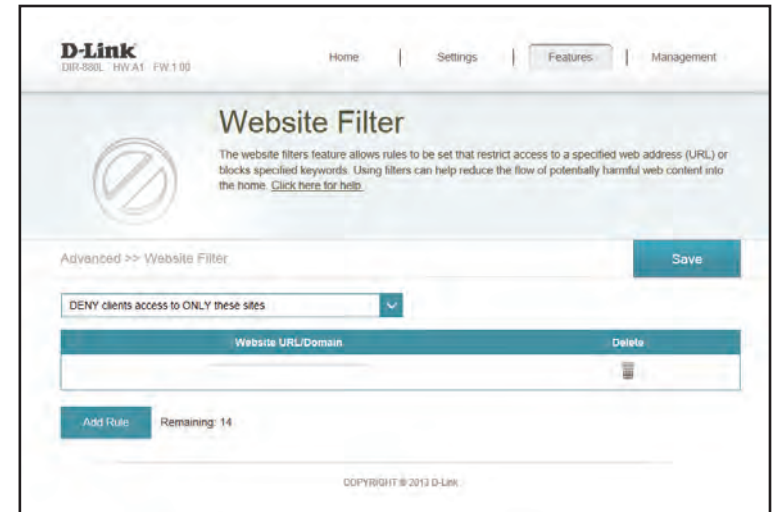
The website filter settings allow you to block access to certain web sites. You can either create a list of sites to block, or create a list of sites to allow (with all other sites being blocked).

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 111. 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.

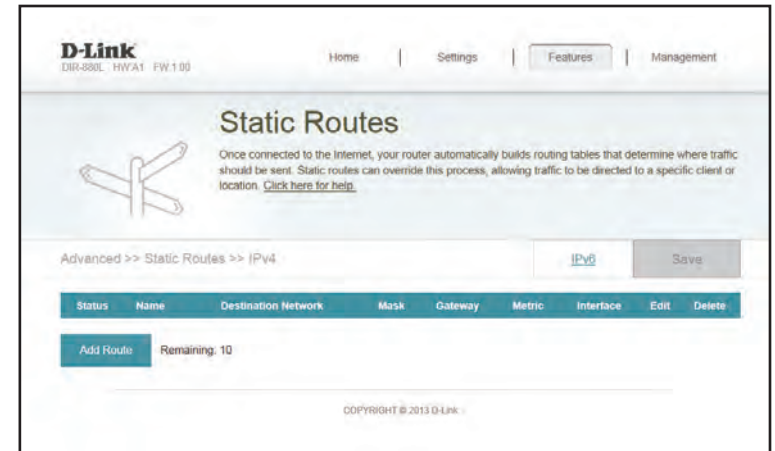
Netmask: Enter the netmask of the route.

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.



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:

Name: Enter a name for the rule.

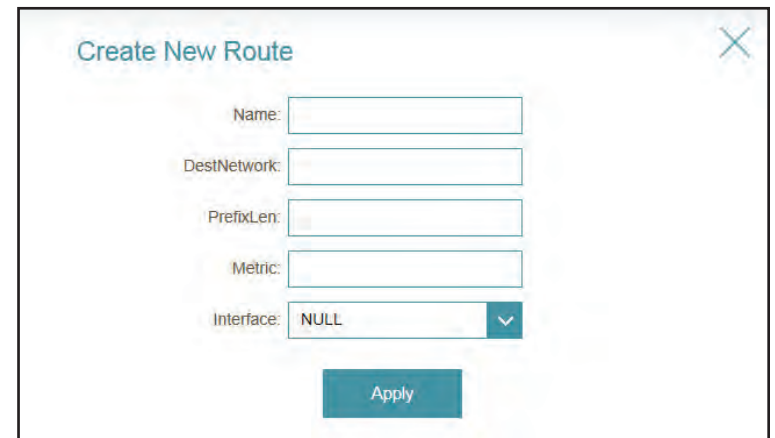
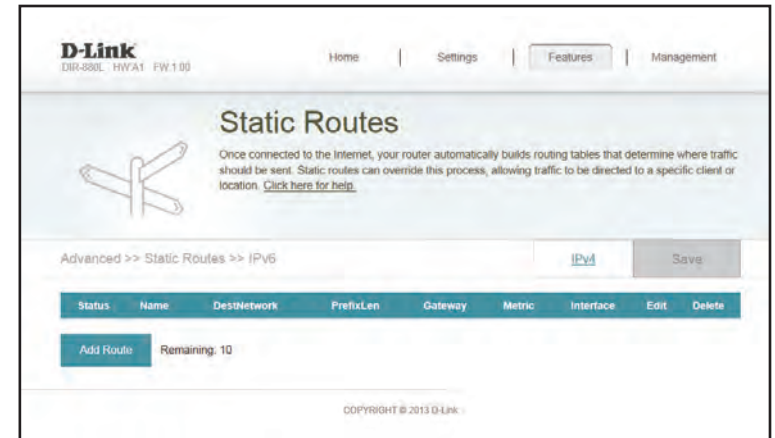
DestNetwork: This is the IP address of the router used to reach the specified destination.

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.



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 Dynamic DNS: Enabling dynamic DNS will reveal further configuration options.

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 113.

D-Link
DIR-880L HW:V1 FW:1.00

Home | Settings | **Features** | Management

Dynamic DNS

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. [Click here for help.](#)

Advanced >> Dynamic DNS Save

Enable Dynamic DNS: Enabled

Status: Disconnected

Server Address: .dynDNS.com

Host Name:

User Name:

Password:

Time Out: hours

Status	Host Name	IPv6 Address	Edit	Delete
<input type="button" value="Add Record"/> Remaining: 10				

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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.

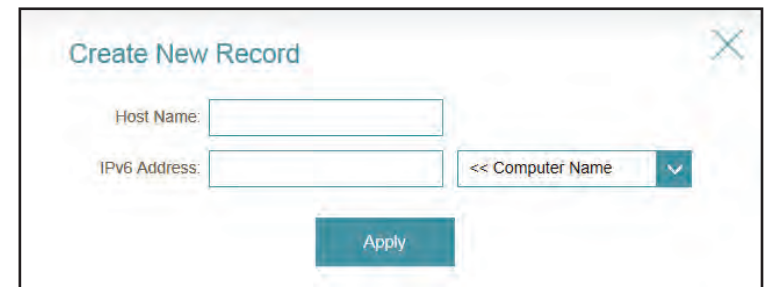
IPv6 Address: Enter the IPv6 address of the dynamic DNS server. Alternatively, select the server device in the drop-down menu.

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

Apply

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 VPN 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.

The screenshot displays the D-Link Quick VPN configuration interface. At the top, the navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The 'Quick VPN' section is active, showing a 'Save' button. Below this, the 'General' section contains the following settings:

- L2TP over IPsec:** Enabled (toggle)
- Username:** vpn
- Password:** vpn
- PSK:** U4yOcq1fJy
- Save Configuration To Local Hard Drive:** Save

The 'Advanced' section shows:

- Authentication Protocol:** MSCHAPv2
- MPPE:** RC4-128

The footer of the page reads 'COPYRIGHT © 2013 D-LINK'.

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.

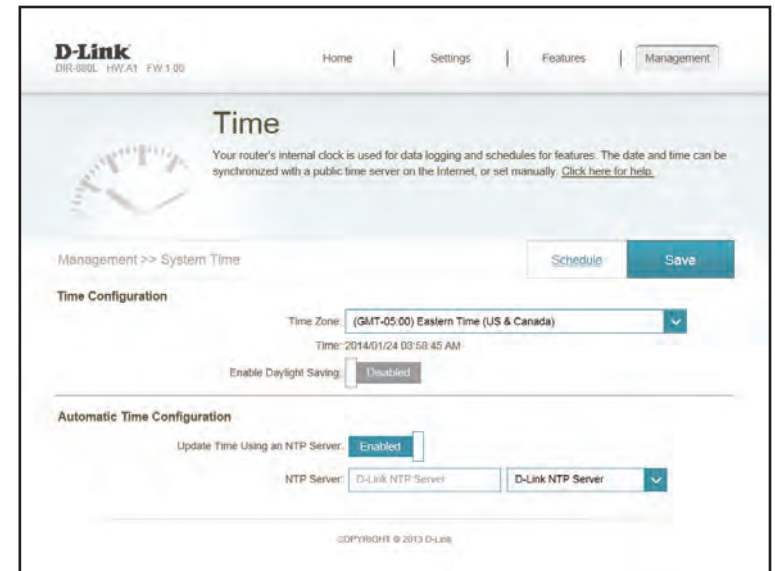
Time: Displays the current date and time of the router.

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 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.

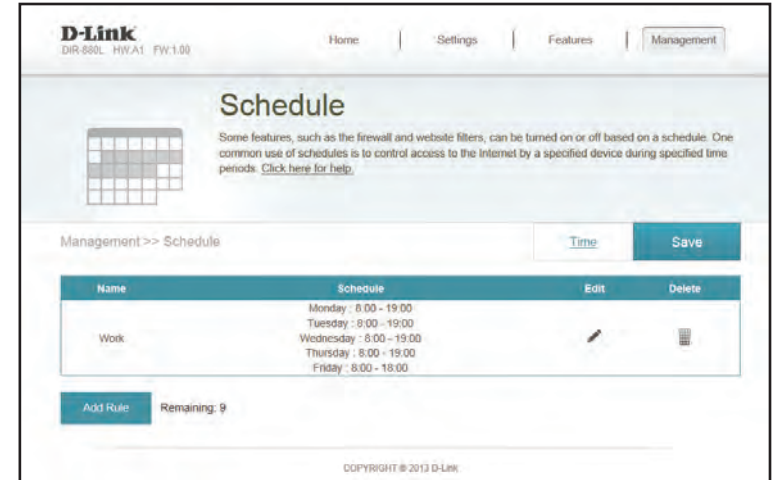
To configure and manage your schedules, click **Schedule** and refer to page 116.



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:

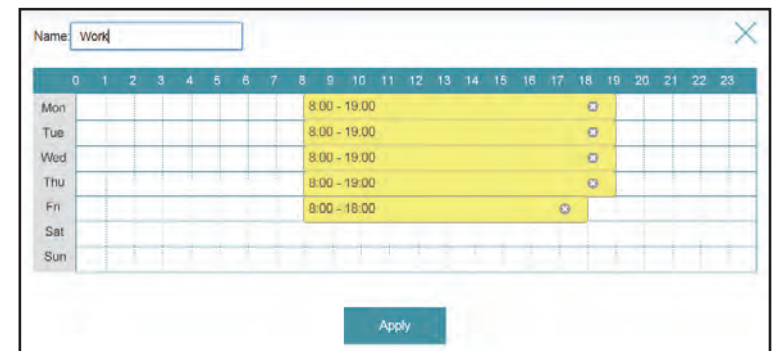
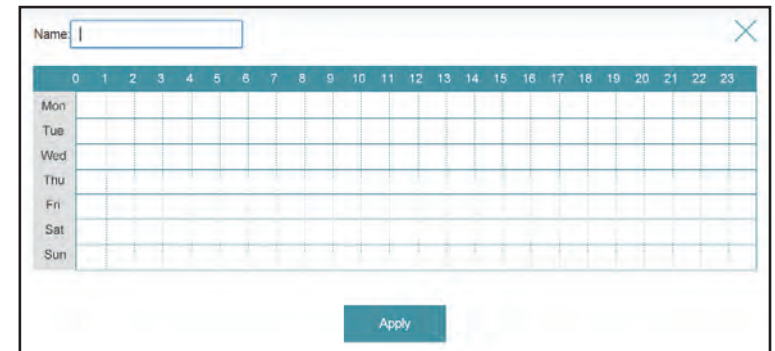


First, enter the name of your schedule in the **Name** field.

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.



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 to Syslog Server: Check this box to send the router logs to a SysLog Server. If this is disabled, there will be no other options on this page.

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

Enable Email Notification: If you want the logs to be automatically sent to an email address, 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 116).

Click **Save** when you are done.

The screenshot displays the D-Link System Log configuration interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management' (selected). Below the navigation bar, the page title 'System Log' is prominently displayed. A brief description states: 'On-board diagnostics run continually in the background to monitor the health of your router. The results are recorded in the system log if it is enabled. This info can be used to diagnose common problems or help Customer Support resolve issues more quickly. [Click here for help.](#)'

The main configuration area is divided into several sections:

- SysLog Settings:**
 - 'Enable Logging to Syslog Server' is set to 'Enabled'.
 - 'SysLog Server IP Address' is an empty text input field.
 - 'Computer Name' is a dropdown menu currently showing '<< Computer Name'.
- E-mail Settings:**
 - 'Enable E-mail Notification' is set to 'Enabled'.
 - 'From E-mail Address', 'To E-mail Address', and 'SMTP Server Address' are empty text input fields.
 - 'SMTP Server Port' is set to '25'.
 - 'Enable Authentication' is set to 'Enabled'.
 - 'Account Name' and 'Password' are empty text input fields.
- E-mail Log When Full or On Schedule:**
 - 'Send When Log Full' is set to 'Disabled'.
 - 'Send on Schedule' is set to 'Disabled'.

A 'Save' button is located in the top right corner of the configuration area. At the bottom of the page, there is a small copyright notice: 'COPYRIGHT © 2013 D-Link'.

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 119.

The screenshot shows the D-Link Admin interface for a DIR-880L router. The top navigation bar includes 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Admin', with a sub-note: 'The admin account can change all router settings, while other user accounts can only view some settings. To keep your router secure, you should give the admin account a strong password. [Click here for help.](#)'

The configuration area is divided into sections:

- Admin Password:** Includes a 'Password' field (masked with dots), an 'Enable Graphical Authentication (CAPTCHA)' toggle set to 'Disabled', and an 'Advanced Settings' link.
- Administration:** Includes 'Enable HTTPS Server' (checked/Enabled), 'Enable Remote Management' (unchecked/Disabled), a 'Remote Admin Port' field, and a 'Use HTTPS' toggle set to 'Disabled'.

Buttons for 'System' and 'Save' are visible at the top right of the configuration area. The footer contains 'COPYRIGHT © 2013 D-Link'.

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**.

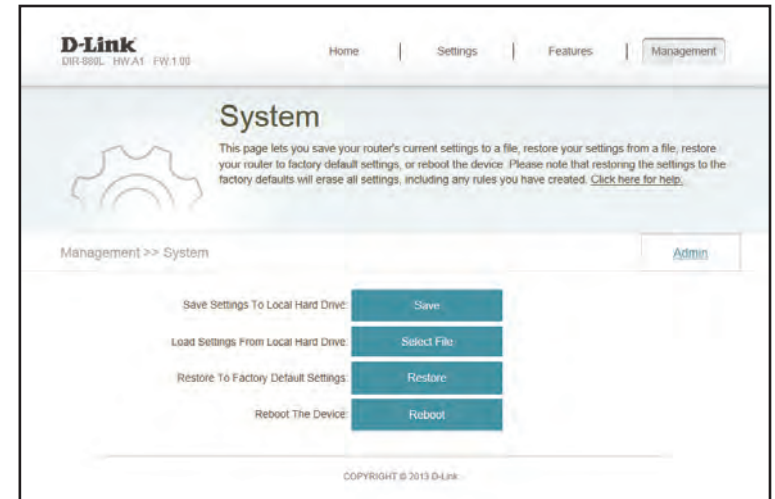
Save Settings To Local Hard Drive: This option will save the current router configuration settings to a file on your computer.

Load Settings From Local Hard Drive: This option will load previously saved router configuration file. This will overwrite the router's current configuration.

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

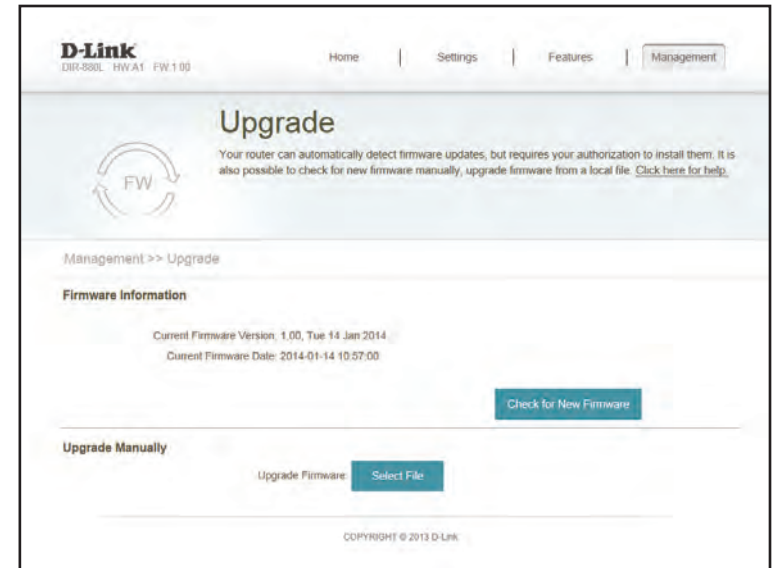
This page will allow you to upgrade the router's firmware or language pack, either automatically or manually. To manually upgrade the firmware or language pack, you must first download the relevant file from <http://support.dlink.com>.

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.



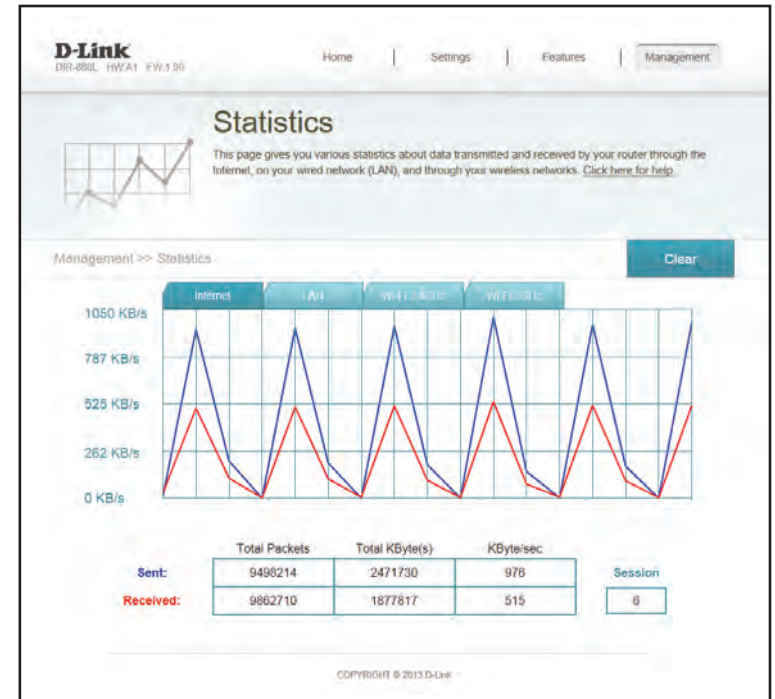
Statistics

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

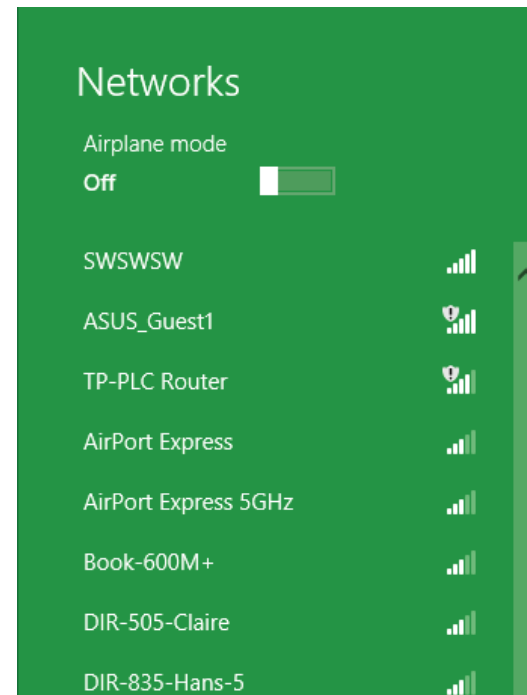
WPA/WPA2

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.



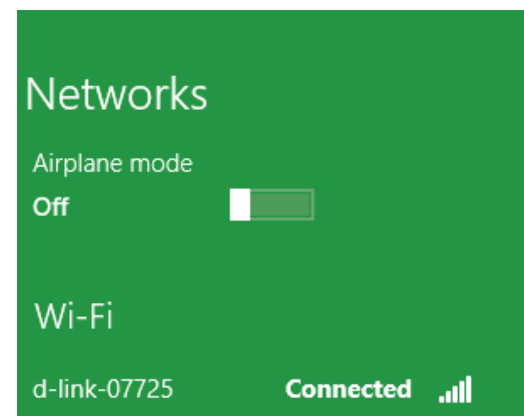
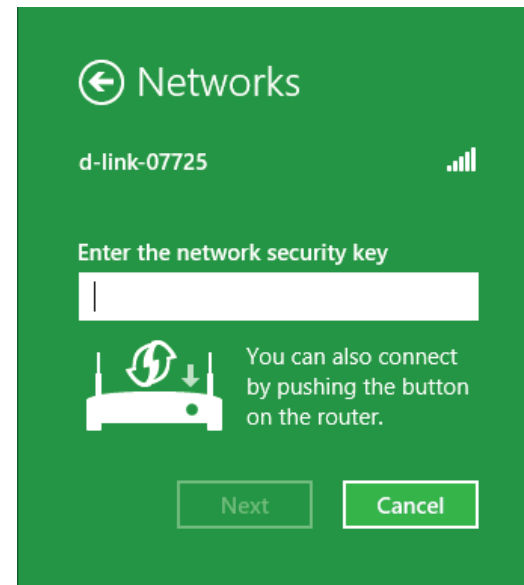
Clicking on this icon will display a list of wireless networks that are within connecting proximity of your computer. Select the desired network by clicking on the network name.



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.

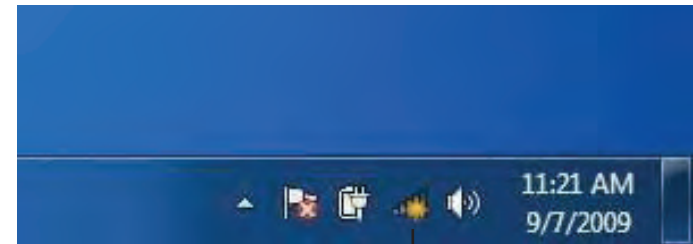


Windows® 7

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).



Wireless Icon

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

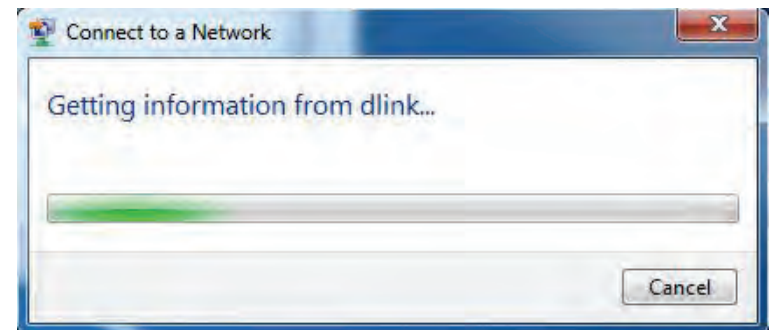


3. Highlight the wireless connection with Wi-Fi name (SSID) you would like to connect to and click the **Connect** button.

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.

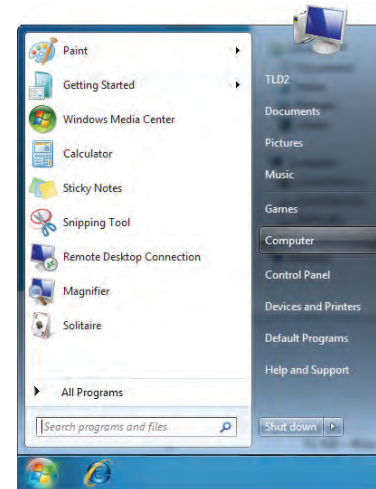
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.



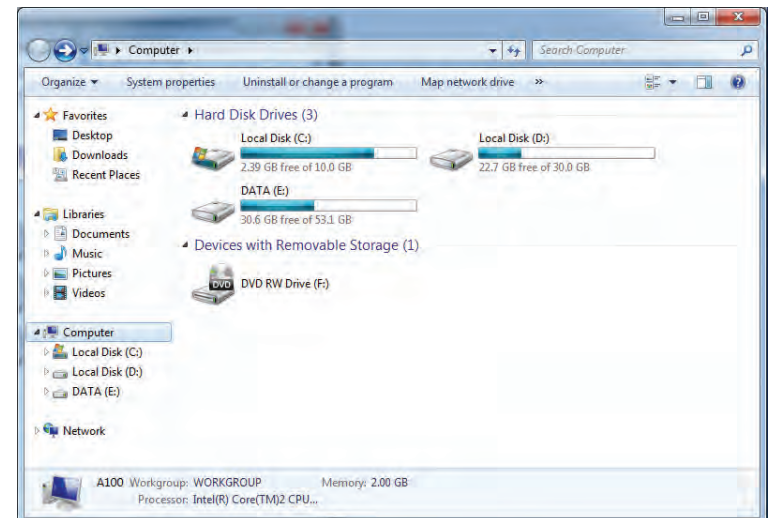
WPS

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:

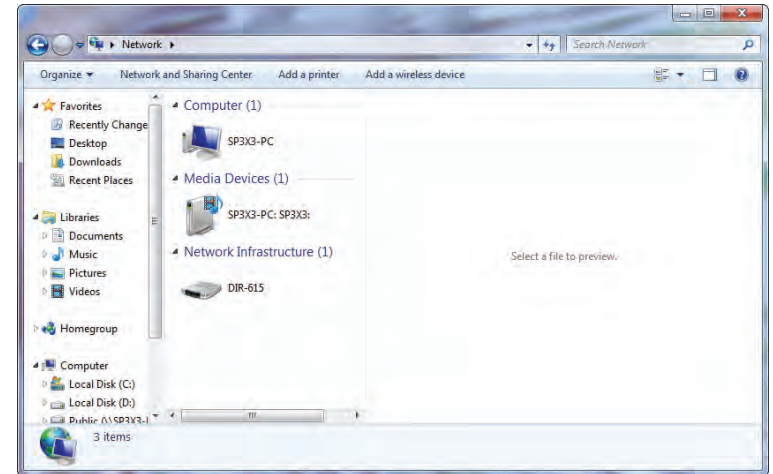
1. Click the **Start** button and select **Computer** from the Start menu.



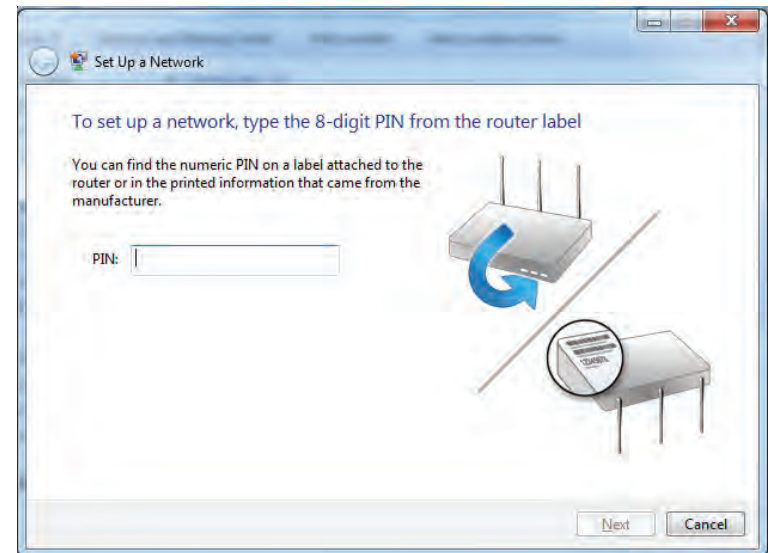
2. Click **Network** on the left side.



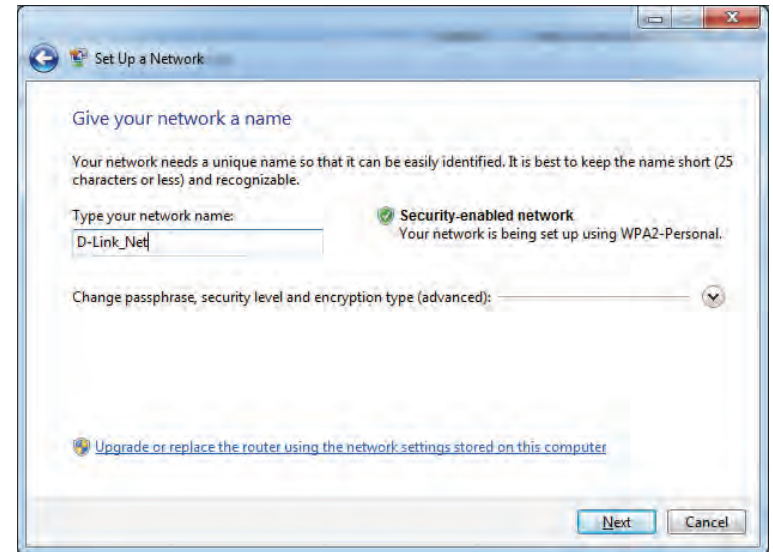
3. Double-click the DIR-880L.



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**.

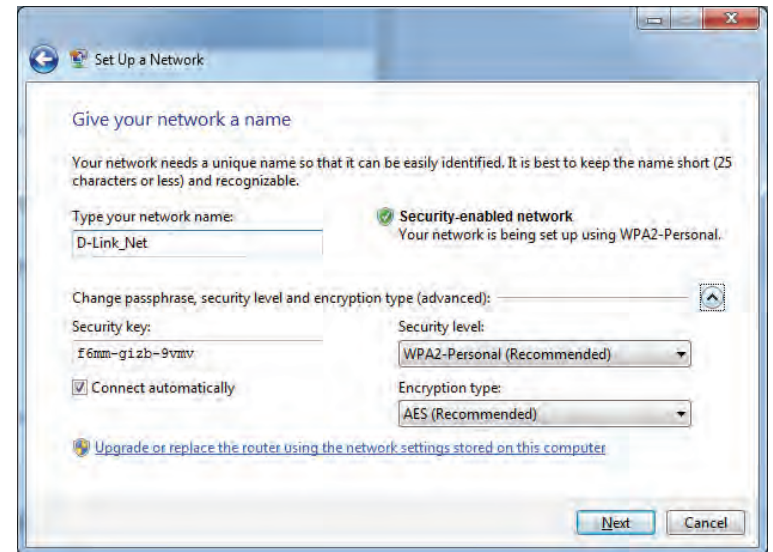


5. Type a name to identify the network.



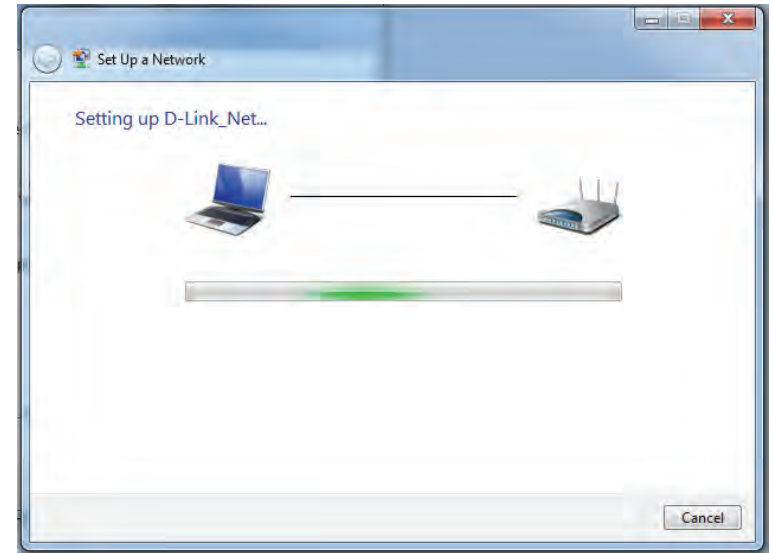
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



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

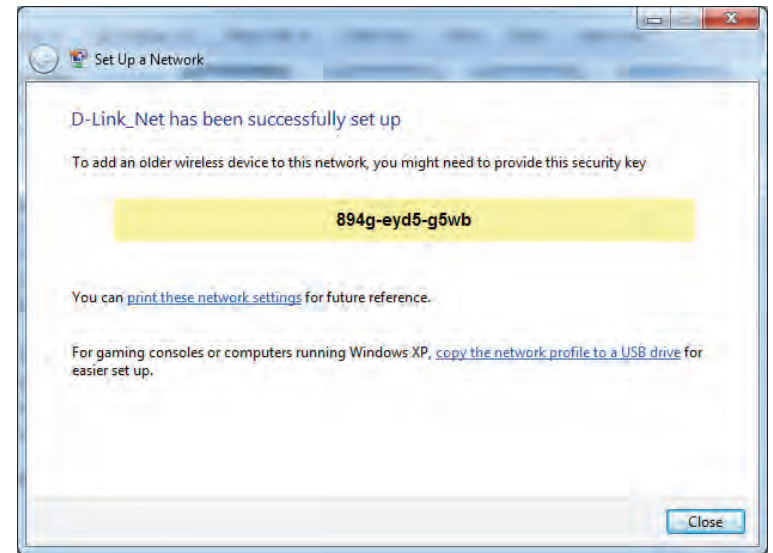
Wait for the configuration to complete.



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.

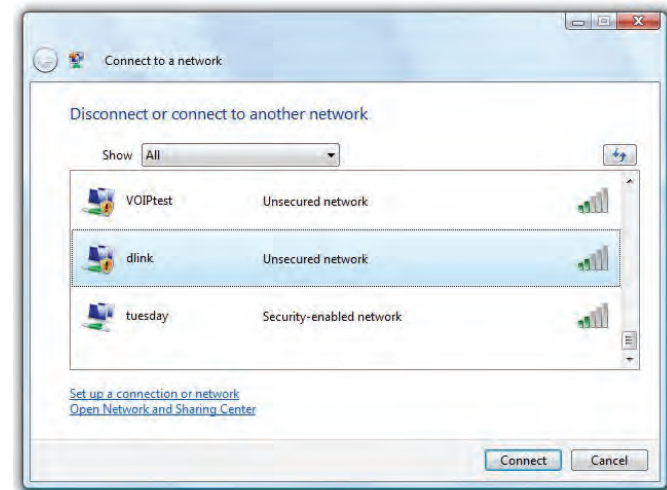
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

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.

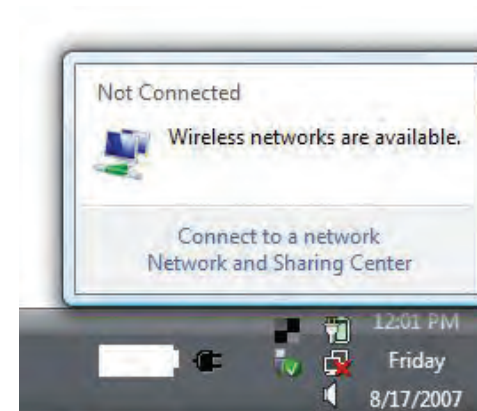
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



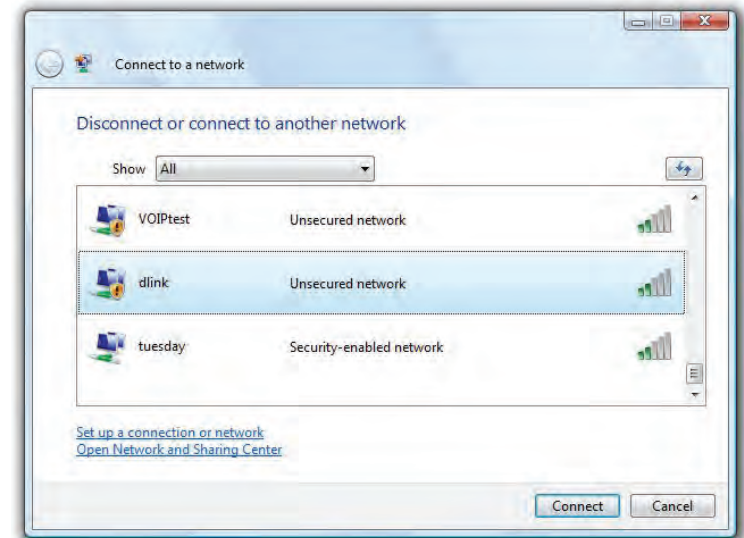
WPA/WPA2

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

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

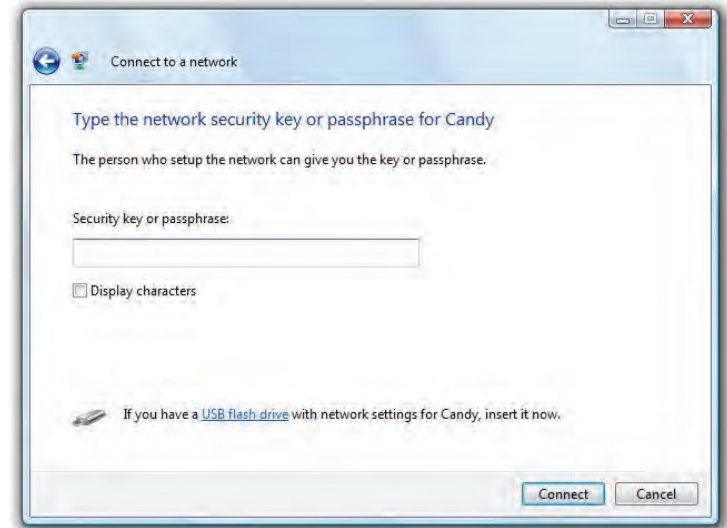


2. Highlight the Wi-Fi name (SSID) you would like to connect to and click **Connect**.



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

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



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.

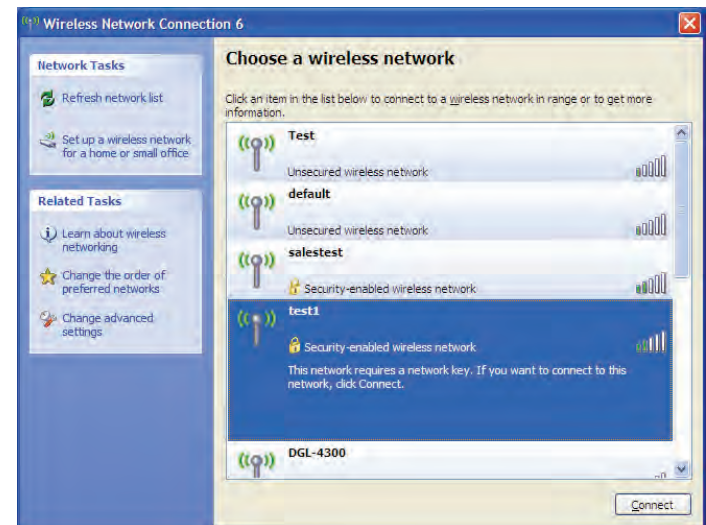
or

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.

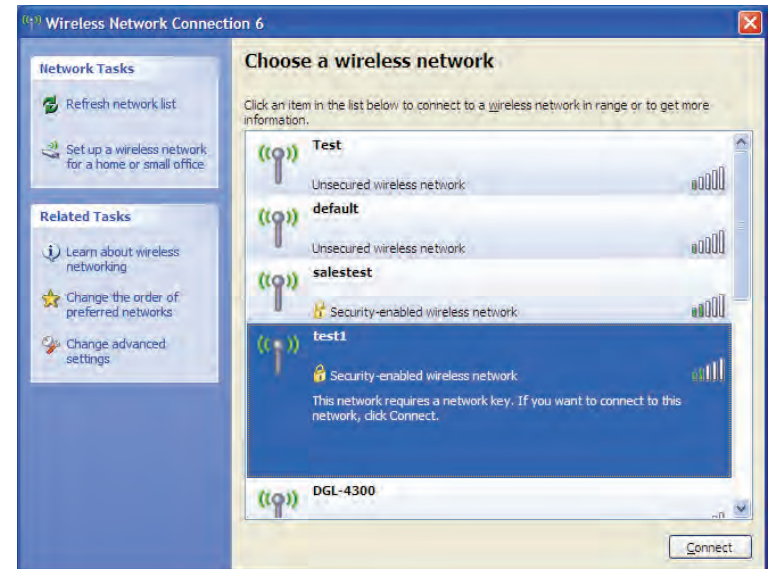
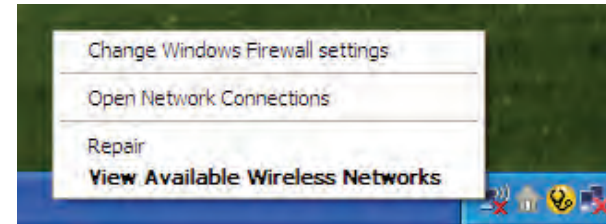
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



WPA/WPA2

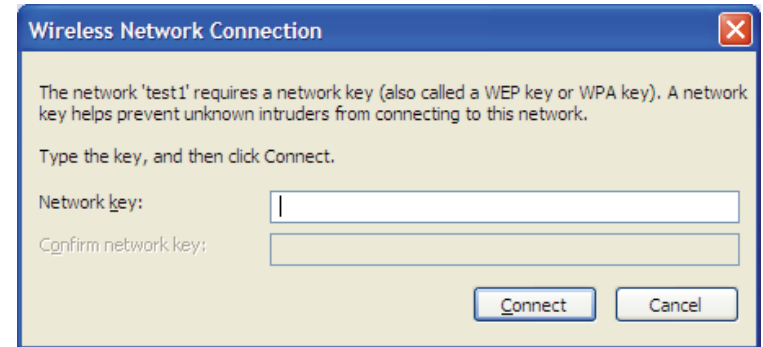
It is recommended to enable WPA on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WPA key being used.

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.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
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, let's 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 Cardbus Adapter with your laptop, you can access the hotspot to connect to the Internet from remote locations like: Airports, Hotels, Coffee Shops, Libraries, Restaurants, and Convention Centers.

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

Tips

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

Centralize your router or Access Point

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

Eliminate Interference

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

Security

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

Wireless Modes

There are basically two modes of networking:

- **Infrastructure** – All wireless clients will connect to an access point or wireless router.
- **Ad-Hoc** – Directly connecting to another computer for peer-to-peer communication using wireless network adapters on each computer, such as two or more DIR-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

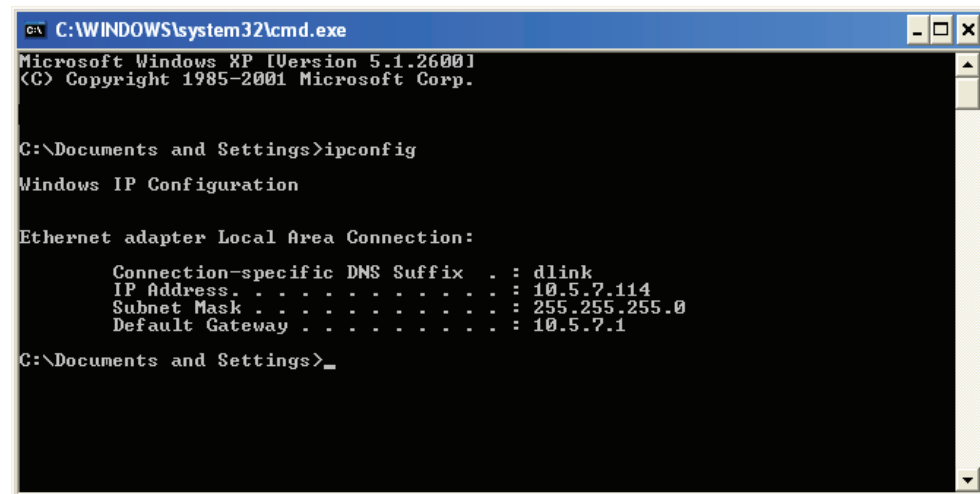
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

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.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

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

C:\Documents and Settings>_
```

Statically Assign an IP address

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

- Step 1**
- Windows® 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

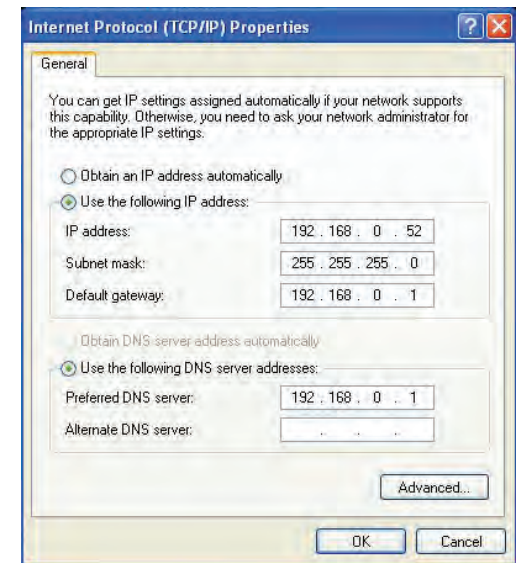
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

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

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 5.25-5.35GHz & 5.47-5.725GHz in some regions.

Safety Statements

Caution: Do not remove the plug and connect it to a power outlet by itself; always attach the plug to the power adaptor first before connecting it to a power outlet.

FCC Statement:

Federal Communication Commission Interference Statement

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

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

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

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

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

This device is going to be operated in 5.15~5.25 GHz frequency range, it is restricted in indoor environment only.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25 cm between the radiator and your body.

IC Statement:

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionnement en association avec une autre antenne ou transmetteur.

les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25 cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 25 cm de distance entre la source de rayonnement et votre corps.

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Warning: This unit is to be used with a power supply, Model WA-36C12R.

Avertissement: Cet appareil doit être utilisé avec une source de courant, modèle WA-36C12R.

Table for Filed Antenna

Ant.	Brand	Model No.	Type	Gain (dBi)		Cable loss		True Gain (dBi)	
				2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
1	WHA YU	C037-510901-A	Dipole	2.7	4.15	0.7	1.15	2	3
2	WHA YU	C037-511311-A	Dipole	2.7	4.15	0.7	1.15	2	3